Minutes of the 125th meeting of the State Level Expert Appraisal Committee held on 06.01.2021 through Video Conference (VC) on National Informatics Centre (NIC).

In the wake of recent crisis of COVID-19, the agenda of the present meeting was mailed to expert Committee in advance and the 125th meeting of the State Level Expert Appraisal Committee (SEAC) was held online by Video conferencing on NIC was organized on 06.01.2021 at 01.30 pm.

Following members attended the meeting.

1 Shri A.K.Saxena, Chairman

2 Dr.S.C.Pant, Vice Chairman

3 Dr. M. N. Patel, Member, SEAC

4 Shri D. C. Chaudhari, Member, SEAC

5 Shri J. K. Vyas, Member, SEAC

6 Shri Anand Zinzala, Member, SEAC

7 Shri B. M. Tailor, Member, SEAC

8 Shri G.H.Trivedi, Secretary, SEAC

Committee considered Form-1, PFR, project details validated by the District Geologist, approved mining plan and other relevant details submitted by project proponent. Details of proposals appraised are as below:

B1 APPRAISAL

1. GRANITE MINING, DIST: MAHESANA

Application No	Name of Project	S. No.	Village	Taluka	Dist	Lease Area	Validity of lease	ROM	Nearest Human Habitation	End Use	Investment in Rs	Date of Application Received by SEAC

SIA/GJ/MIN/ 31258/2020	M/s Manico Resources Private Limited	Survey No 111, 112 Paiki	Otalpur	Satlasana	Mahesana	6.1797 Ha	LoI issued on 14.08.2018 for 30 years	96000 MTPA	Otalpur– 1.3 km	Construction	3.00 Crore	18.11.2020

Category of the Projects: 1(a)

- The application for ToR was submitted on 21.02.2019 and ToR was granted with vide letter no. SEIAA/GUJ/TOR/1(a)/606/2019 dated 10th April, 2019.
- Public hearing was conducted on date 08/10/2020 at Otalpur Granite Block 1 Mine, Survey No. 111, 112 Paiki, near village Otalpur, Tehsil- Satlasana, District- Mehsana, State- Gujarat.
- Final EIA report was submitted on 29/10/2020 through online portal of MOEF&CC prepared by M/s. Geogreen Enviro House Pvt Ltd. a NABET Accredited EIA Consultants, Certificate No. – NABET/EIA/1720/IA0023 valid up to January 8,2021.

Project Details:

- The proposed project is of granite mining at Survey No. 111, 112 Paiki, village Otalpur, Tehsil -Satlasana, District -Mehsana, Gujarat over an area of 6.1797 ha.
- The proposed project is falling in the cluster situation with four other mines (Otalpur Granite Block – 2, Otalpur Granite Block – 3, Rangpur (Gadh) Block – 1 & Rangpur Granite Block- 3) lie within the 500m periphery of each other, having a total area of 34.967 ha in the cluster.
- LOI has been issued vide letter no. CGM/ Lease/ Auction/ Minor/ Granite/ MSN/ 2018/3669 dated 14th August 2018,after e-auction process which was conducted on 2th August, 2018. The mining plan has been approved vide letter no.:AGM/QL/MPC/53 dated 1st January 2019.Cluster details of the proposal is as below:

Cluster ID	Lease ID	Mine Lease	Project Proponent	Area (Ha)
MEH 9	MEH 9 – 1	Otalpur Granite Block – 1	M/s Manico Resources Pvt. Ltd.	6.1797
	MEH 9 – 2	Otalpur Granite Block – 2	M/s Safal Constructions (India) Pvt. Ltd.	7.0840

	MEH 9 – 3	Otalpur Granite Block – 3	M/s Safal Constructions (India) Pvt. Ltd.	6.1533
	MEH 9 – 4	Rangpur (Gadh) Block – 1	Chirag Modh	7.8300
	MEH 9 – 5	Rangpur Granite Block – 3	M/s Safal Constructions (India) Pvt. Ltd.	7.7200
TOTAL CLUSTER AREA				**34.967 Ha**

- **Environmental sensitivity of the project is as below:**

Ref.No.	Name of Lease	M/s Manico Resources Pvt Ltd (Area-6.1797 Ha)
1	Lease owner	M/s Manico Resources Pvt Ltd
2	Village	Otalpur
3	Tehsil	Satlasana
4	District	Mehsana
5	Lease Area	6.1797 Ha
6	New/Existing	New
7	Latitude	23°56'30.13"N
8	Longitude	72°45'8.51"E
9	Mineral	Granite
10	Targeted Production(ROM)	96000 MTPA (ROM)
11	Lease Validity & Expired on	30 yrs from the date of execution of lease deed
12	LOI	14-Aug-18
13	EC Status	No
14	Nearest Bridge	Near Valasna Village(12.2 KM) SE
15	Nearest Canal	Near Dharavaniya Village (4.5 KM)SE
16	Nearest Human Habitation	Otalpur (1.4 KM)S
17	Nearest Notified Sanctuary	None within 15 KM
18	Nearest Eco-sensitive Zone	None within 15 KM
19	Nearest Pond/Reservoir	Dharoi Dam (12.2 KM) NE

20	Nearest River	Sabarmati River (5.72 KM) SE
21	Nearest NH	None within 15 KM
22	Nearest SH	SH 56 (4.5 KM) NW
23	Nearest School	Otalpur Primary School (1.42 KM)SW
24	Nearest Religious Place	Shri Ajitnath Bhagwan Shwetamber Jain Derasar,Taranga (2.50 KM) N

Method of mining:-

- Opencast semi mechanized method of mining will be adopted for all the mines in the cluster. Mining will be done by deploying machineries like wire-saw, excavator, cranes, loaders, tippers, jackhammers etc. Mining technique involves combination of line drilling-wire saw cutting method. Blasting is not proposed to be carried out in the cluster for all the leases. Mining will be carried out during day time only on shift basis.
- All applicable rules of MMR 1961, Mines Act-1952, Mines Rules 1955, MCR-2016, MCDR-2017 will be followed for safe, scientific & systematic mining.
- The height of the benches will be kept up to 6.25 m and the width up to 6.5m.The over burden generated will be stacked separately in SE part of the block and will be sold as rubble by taking necessary permission. Detail of cluster is as below:

YEAR WISE WASTE GENERATION				
S. No.	**Mine leases**	**Mineral Reject (MT)**	**Top Soil (MT)**	**OB/SB/IB (MT)**
1	Otalpur Granite Block – 2	23,333	0	92,279
2	Otalpur Granite Block – 1	57,600	0	1,05,980
3	Otalpur Granite Block –3	23,333	0	67,393
4	Rangpur (Gadh) Granite Block	42,000	0	0
5	Rangpur Granite Block – 3	23,333	0	67,393
Total		**1,69,599**	**0**	**3,33,045**

- There are two temples observed within the 10 km study area (1) Jain Swetamber Temple, about 2.5 km in North direction and (2) Vidyasagar Tapovan Taranga Digamber Jain Temple, about 3.5 km in North direction. No major impact of mining is anticipated on both the temples as they are far approx. 2.5 km from the mine site.

- Land use of mine lease area for pre-operational, operational and post operational phase is as below:

S. No.	Head	Present Land Use (Ha)	At the end of five Year (Ha)
1	Area to be excavated	--	1.61.01
2	Storage for top soil	--	--
3	Waste dump	--	0.56
4	Mineral stack	--	0.67
5	Infrastructure (workshop, administrative building etc.)	--	0.00.85
6	Road	--	--
7	Railways	--	--
8	Tailing Pond	--	--
9	Effluent Treatment Plant	--	--
10	Mineral separation plant	--	--
11	Township area	--	--
12	Area which will remain untouched	6.17.97	3.33.11
13	Green Belt	--	--
Grand Total		**6.17.97**	**6.17.97**

- No over burden will be dumped outside the mine lease area. There is no R& R issues involved in this project. There is no forest land involved in the project area.
- There are no National parks, Sanctuaries, Biosphere Reserves, Wildlife Corridor, Tiger/ elephant reserve present in the study area of 10 km radius. There is no vegetation within mine lease except some seasonal grasses. General fauna was present like squirrel and field rat observed within the proposed cluster area. Common local bird species were also found in the proposed cluster as blue rock pigeon, house crow, koel etc. The project site is neither falling under Aravalli range nor it is located in proximity to area declared as Critically Polluted. It is located in the Mehsana District of Gujarat. No R&R issues are involved in this project as well as entire cluster. Baseline one season monitoring was conducted for March to May 2019. Meteorological parameters were monitored on hourly basis for the project site. Predominant Wind Direction: From East to West. Summary of baseline data for the months March 2019 to May 2019 is as below:

Parameter	No. of Locations	Environmental Baseline Study

Ambient Air Quality Monitoring	9 locations	PM2.5- 31.2 µg/ m^3 (Rangpur)– 42.8µg/m^3 (Otalpur) PM10- 66.2 µg/m^3 (Vav) – 84.5 µg/m^3 (Rangpur) µg/m^3 SO_2- 3.9 µg/ m^3 (Shahupura) -7.4 (Otalpur) µg/m^3 NO_2- 11.7 µg/ m^3 (Shahupura) – 19.8 (Kajipur) µg/m^3 CO- 0.55 µg/ m^3(Dharawania) – 0.79 µg/m^3 (Otalpur)
Noise level monitoring	10 locations	During daytime- 39.6- 51.7 Leq dB(A) During Night time- 38.8- 40.1 Leq dB(A) Results were found within permissible limits
Water samples	Surface water – 2 locations	All parameters like TDS (548 to 582 mg/l), pH (7.68 to 7.8), Chloride (97 – 102.4 mg/l) etc. are found within permissible limits & fit for consumption.
	Ground water- 9 locations	All parameters like TDS (244 to 1218 mg/l), pH (7.32 to 7.81), Chloride (26.99 to 384.8 mg/l) etc. are found within permissible limits & fit for consumption.
Soil Samples	10 locations	pH- 6.42 – 7.82 Conductivity- 651-816 µmhos/cm

- Total water requirement of the proposed project is 8 KLD and it will be sourced from nearby village Otalpur through water tankers. Water conservation measures proposed to be adopted are (1) Optimum utilization avoiding unnecessary wastage of water will be done (2) Garland Drains have been constructed around waste dump for preventing wash-offs from dumps (3) Monitoring of water will be carried out periodically. Water analysis will be carried out seasonally. (4)Septic tanks and soak pits may be provided for the disposal of domestic effluent generated from mine office (5)Construction of retention/toe walls to arrest sliding down of the excavated material and choking of streams/ Water bodies (6) Awareness programs will be taken up to educate public for conservation of water (7) Dense plantation in the barrier zone, as far as possible (8) Post-monsoon and Pre-monsoon groundwater level will be monitored regularly.

- **Public Hearing Details:-**
- Public Hearing was conducted for Otalpur Granite Block 1 Mining Project (Mining Lease- 6.1797 Ha) on 08th October 2020.

- **Points raised during the public hearing included-** benefits of project for the village as well as for Panchayat; any loss or damage to nearby land; any damage to environment; blast quarries that cause water level to drop.
- M/s. Manico Resource Private Limited is committed to compliance with all the queries asked during the public hearing, respectively. For maintaining hygiene, Toilet will be constructed, for this a provision to spend Rs. 1 lakh (first year), Rs. 50,000 (second year) and Rs. 10,000 (third year) has been made. Apart from this, training will also be given to the young women and girls of the village for which Rs 1 lakhs (first year) and Rs. 1 lakhs (second year) will be spend.
- Awareness program for local people will be also be conducted, including information for water, crop and fodder yield, soil moisture conservation for continuing three years. For this a total of 60 thousand will be spend. A total provision of forty five thousand rupees has been kept for the planting of fruit bearing trees for three years. The amount of this budget will be allotted to the Panchayat.
- Trees as per CPCB guideline, 2000, will be planted which are efficient to absorb dust and noise. About 7 meters of land on the edge of the lease will be left for plantation purpose. In addition water will be sprayed to prevent the problem of dust. For which a provision of Rs. 80,000 has been made annually. The project do not involve any blasting.

Deliberation:

Committee deliberated on MoEFCC OM dated 30.09.2020, PP was asked to submit the Action Plan for need based public issues raised during the public hearing and asked to prepare action plan for budgetary provisions for same.

Committeealso asked the PP to submit identified needbased activities and its period for completion. Hence, Committee unanimously decided to consider the proposal after submission of afore-mentioned details only.

2. GRANITE MINING, DIST: MAHESANA

Application No	Name of Project	S. No.	Village	Taluka	Dist	Lease Area	Validity of lease	ROM	Nearest Human Habitation	End Use	Investment in Rs	Date of Application Received by SEAC

SIA/GJ/MIN/35314/2020	Kajipur Granite Block 1 Mining Project, Proposed by M/s Manico Resources Private Limited	Survey No 42, 43, 112 Paiki	Kajipur	Satlasana	Mahesana	3.1443 HA	LoI issued on 14.08.2018 for 30 years	120000 MTPA	Kajipur – 1.42 km	Construction	3 Crore	18.11.2020

Category of the Projects: 1(a)

- The application for ToR was submitted on 08.05.2019 and ToR was granted with vide letter no. SEIAA/GUJ/TOR/1(a)/954/2019 dated 19th June, 2019.
- Public Hearing was conducted for Kajipur Granite Block 1 Mining Project (Mining Lease- 3.1443 Ha) on 10th October 2020.
- Final EIA report was submitted on 27/10/2020 through online portal of MOEF&CC prepared by M/s. Geogreen Enviro House Pvt Ltd. a NABET Accredited EIA Consultants, Certificate No. – NABET/EIA/1720/IA0023 valid up to January 8,2021.

Project Details:

- The proposed project is of granite mining at Survey No. 42, 43, 112 Paiki, village Kajipur, Tehsil -Satlasana, District -Mehsana, Gujarat over an area of 3.1443 ha.
- The proposed project is falling in the cluster situation with one more mines (Kajipur Granite Block-2) lie within the 500m periphery of each other, having a total area of 5.3023 Ha in the cluster.
- LOI has been issued vide letter no. CGM/Lease/Auction/Minor/Granite/MSN/2018/3674 dated 14th August 2018. The

mining plan has been approved vide letter no. AGM/QL/MPC/60 dated 1st January 2019. Cluster details of the proposal is as below:

Cluster ID	Lease ID	Mine Lease	Project Proponent	Area (Ha)
MEH 10	MEH 10 – 1	Kajipur Granite Block – 1	M/s Manico Resources Pvt. Ltd.	3.1443
	MEH 10– 2	Kajipur Granite Block – 2	Kiritsinh P. Vaghela	2.1580
TOTAL CLUSTER AREA				**5.3023 Ha**

Environmental sensitivity of the project is as below:

1	Lease owner	M/s Manico Resources Pvt. Ltd.
2	Village	Kajipur
3	Tehsil	Satlasana
4	District	Mehsana
5	Lease Area	3.1443 Ha
6	New/Existing	New
7	Latitude	23° 57' 8.104" N
8	Longitude	72° 43' 49.539" E
9	Mineral	Granite
10	Targeted Production(ROM)	1,20,000 MTPA
11	Lease Validity & Expired on	30 yrs from the date of execution of lease deed
12	LOI	14-08-18
13	Nearest Bridge	Near Valasna Village(14.25 KM) SE
14	Nearest Canal	Near Hadol Village (7.37 KM) East
15	Nearest Human Habitation	Kajipur (1.42 Km) SOUTH
16	Nearest Notified Sanctuary	50.86 KM NW
17	Nearest Eco-sensitive Zone	46.42 KM NW
18	Nearest Pond/Reservoir	Mukteshwar Dam (12.85 KM) NW , Shri Chimnabai Sarovar (8.0 Km) SW & Dharoi

		Dam(13.52 KM)NE
19	Nearest River	Sabarmati River (8.25 KM) East
20	Nearest NH	None within 15 KM
21	Nearest School	Kajipur Primary School(1.4 KM) SOUTH
22	Nearest Religious Place	Shri Ajitnath Bhagwan Shwetamber Jain Derasar,Taranga (2.75 KM)

Method of mining:-

- Opencast semi mechanized method of mining will be adopted for all the mines in the cluster. Mining will be done by deploying machineries like wire-saw, excavator, cranes, loaders, tippers, jackhammers etc. Mining technique involves combination of line drilling-wire saw cutting method.
- Blasting is not proposed to be carried out in the cluster for all the leases. Mining will be carried out during day time only on shift basis. All applicable rules of MMR 1961, Mines Act-1952, Mines Rules 1955, MCR-2016, MCDR-2017 will be followed for safe, scientific & systematic mining. The height of the benches will be kept up to 6.25 m and the width up to 6.5m.The over burden generated will be stacked separately in SE part of the block and will be sold as rubble by taking necessary permission. Detail of cluster is as below:

Year	**Pit No.**	**Top Soil**	**OB/SB/IB**	**Total Waste**
		(m^3)	**(m^3)**	**(m^3)**
I	P-1	None	6,871/6097	6,871
II	P-1	None	5,204/4924	5,204
III	P-1	None	5,709/5427	5,709
IV	P-1	None	7,816/5966	7,816
V	P-1	None	480/0	480
Total			**26,080/22414**	**26,080**

- Land use of mine lease area for pre-operational, operational and post operational phase is as below:

S. No.	**Head**	**Present Land Use (Ha)**	**At the end of five Year (Ha)**
1	Area to be excavated	--	2.1
2	Storage for top soil	--	--
3	Waste dump	--	0.12

4	Mineral stack	--	0.07
5	Infrastructure (workshop, administrative building etc.)	--	0.00.85
6	Road	--	--
7	Railways	--	--
8	Tailing Pond	--	--
9	Effluent Treatment Plant	--	--
10	Mineral separation plant	--	--
11	Township area	--	--
12	Area which will remain untouched	3.1443	0.8458
13	Green Belt	--	--
Grand Total		**3.1443**	**3.1443**

- No over burden will be dumped outside the mine lease area. There is no R& R issues involved in this project. There is no forest land involved in the project area.
- There are no National parks, Sanctuaries, Biosphere Reserves, Wildlife Corridor, Tiger/ elephant reserve present in the study area of 10 km radius. There is no vegetation within mine lease except some seasonal grasses. General fauna was present like squirrel and field rat observed within the proposed cluster area. Common local bird species were also found in the proposed cluster as blue rock pigeon, house crow, koel etc. The project site is neither falling under Aravalli range nor it is located in proximity to area declared as Critically Polluted. It is located in the Mehsana District of Gujarat. No R&R issues are involved in this project as well as entire cluster.
- Baseline one season monitoring was conducted for March to May 2019. Meteorological parameters were monitored on hourly basis for the project site. Predominant Wind Direction: From East to West. Summary of baseline data for the months March 2019 to May 2019 is as below:

Parameter	**No. of Locations**	**Environmental Baseline Study**
Ambient Air Quality Monitoring	9 locations	PM2.5- 30.50 µg/ m^3 (Hadol)– 42.8µg/m^3 (Kajipur) PM10- 64.6 µg/m^3 (Vav) – 84.5 µg/m^3 (Dabhoda) µg/m^3 SO_2- 3.7 µg/ m^3 (Hadol) -7.5 (Dharawania) µg/m^3 NO_2- 11.7 µg/ m^3 (Shahupura) – 19.8 (Otalpur and Timba) µg/m^3 CO- 0.46 µg/ m^3 (Kajipur) – 0.79 µg/m^3 (Kajipur)

Noise level monitoring	10 locations	In residential and industrial areas, noise level is ranging between 54.9dB(A) (recorded at NQ-5and NQ-8) to 43.8 dB(A) (recorded at NQ-10) during day time and 43.6dB(A) (recorded at NQ-5) to 33.1 dB(A) (recorded at NQ-10) during night time. Results were found within permissible limits
Water samples	Surface water – 2 locations	All parameters like TDS (612 to 633 mg/l), pH (7.56 to 7.82), Chloride (93 – 97 mg/l) etc. are found within permissible limits & fit for consumption.
	Ground water- 9 locations	All parameters like TDS (160 to 1643 mg/l), pH (6.96 to 8.26), Chloride (26.99 to 529 mg/l) etc. are found within permissible limits & fit for consumption.
Soil Samples	10 locations	pH- 6.38 to 7.82 Conductivity- 642 – 812 µmhos/cm.

- Total water requirement of the proposed project is 8 KLD and it will be sourced from nearby village Kajipur through water tankers. Water conservation measures proposed to be adopted are (1) Optimum utilization avoiding unnecessary wastage of water will be done (2) Garland Drains have been constructed around waste dump for preventing wash-offs from dumps (3) Monitoring of water will be carried out periodically. Water analysis will be carried out seasonally. (4)Septic tanks and soak pits may be provided for the disposal of domestic effluent generated from mine office, if needed (5)Construction of retention/toe walls to arrest sliding down of the excavated material and choking of streams/ Water bodies (6) Awareness programs will be taken up to educate public for conservation of water (7) Dense plantation in the barrier zone, as far as possible (8) Post-monsoon and Pre-monsoon groundwater level will be monitored regularly.

Public Hearing Details:-

- Public Hearing was conducted for Kajipur Granite Block 1 Mining Project (Mining Lease- 3.1443 Ha) on 10th October 2020.
- **Points raised during the public hearing included-** benefits of the project on the nearby villages along with any arrangements for health, education and medical services; plan for the road work; possibilities of damage to the nearby private land; generation of dust and its prevention; adoption of blasting or not; Is mountain land being used for mining purpose and is the temple present on it is affected etc.
- M/s. Manico Resource Private Limited is committed to compliance with all the queries asked during the public hearing, respectively. Toilets will be constructed and maintained for cleanliness; For women empowerment, training of weaving will be imparted. Employment opportunities will be provided to the local people.

The mining will be done leaving a 7 meter space and green bent will be developed and maintained so that the dust that is blown away does not go to the fields. Water will be sprayed on the roads to prevent the dust from being blown by vehicle movement; the road from mines to main roads will be constructed; no damage is anticipated to the crops. The Granite block is cut in such a way that it does not produce dust and doesn't even require blasting. Care will be taken to ensure that dust does not fly during the manufacturing process. The mining lease is obtained through Government Auction and it is present far away from the temple present on the mountain land.

Deliberation:

Committee deliberated on MoEFCC OM dated 30.09.2020, PP was asked to submit the Action Plan for need based public issues raised during the public hearing and asked to prepare action plan for budgetary provisions for same.

Committeealso asked the PP to submit identified needbased activities and its period for completion. Hence, Committee unanimously decided to consider the proposal after submission of afore-mentioned details only.

3. GRANITE MINING, DIST: MEHSANA

Application No	Name of Project	S.No.	Village	Taluka	Dist	Lease Area	Validity of lease	ROM	Nearest Human Habitation	End Use	Investment in Rs	Date of Application Received by SEAC
SIA/GJ/MIN/58039/2019	M/s Safal Constructions(India) Private Limited.	Survey No. 295 Paiki (Old	Rangpur	Satlasana	Mehsana	7.72 ha	-	33333 MTPA	-	construction	1.66 Crore	18.11.2020

		Survey No. 68 Paiki)										

Category of the Projects: 1(a) Mining of Minerals

- The application for ToR was submitted on 16.12.2019 and ToR was granted with vide letter no. SEIAA/GUJ/TOR/1(a)/187/2020 dated 18 February,2020.
- Public Hearing was conducted for Rangpur Granite Block 3 Mining Project (Mining Lease- 7.72 Ha) on 12th October 2020.
- Final EIA report was submitted on 05/11/2020 through online portal of MOEF&CC prepared by M/s. Geogreen Enviro House Pvt Ltd. a NABET Accredited EIA Consultants, Certificate No. – NABET/EIA/1720/IA0023 valid up to January 8,2021.

Project Details:

- The proposed project is of granite mining at Survey No. 295 Paiki (Old Survey No. 68 Paiki), village Rangpur, Tehsil -Satlasana, District -Mehsana, Gujarat over an area of 7.72 ha.The proposed project is falling in the cluster situation with four other mines (Otalpur Granite Block – 1, Otalpur Granite Block – 2, Otalpur Granite Block – 3, &Rangpur (Gadh) Block – 1) lie within the 500m periphery of each other, having a total area of 34.967 ha in the cluster.
- LOI has been issued vide letter no. CGM/ Lease/ Auction/ Minor/ Granite/ MSN/ 2018/ 353 to 357 dated 21st January 2019. The mining plan has been approved vide letter no. . AGM/QL/MPC/1197 dated 30th April 2019. Cluster details of the proposal is as below:

Cluster ID	**Lease ID**	**Mine Lease**	**Project Proponent**	**Area (Ha)**
MEH 9	MEH 9 – 1	Otalpur Granite Block – 1	M/s Manico Resources Pvt. Ltd.	6.1797
	MEH 9 – 2	Otalpur Granite Block – 2	M/s Safal Constructions (India) Pvt. Ltd.	7.0840
	MEH 9 – 3	Otalpur Granite Block – 3	M/s Safal Constructions (India) Pvt. Ltd.	6.1533
	MEH 9 – 4	Rangpur (Gadh) Block – 1	Chirag Modh	7.8300
	MEH 9 – 5	Rangpur Granite Block – 3	M/s Safal Constructions (India) Pvt. Ltd.	7.7200
TOTAL CLUSTER AREA				**34.967 Ha**

Environmental sensitivity of the project is as below:

Ref. No.	Particulars	Details
1	Name of the project	Rangpur Granite Block 3 Mining Project
2	Village	Rangpur
3	Tehsil	Satlasana
4	District	Mehsana
5	Lease Area	7.72 Ha
6	New/Existing	New
7	Latitude	23°56'28.887"N
8	Longitude	72°45'35.778"E
9	Nearest Bridge	Near Valasna Village (12. km) SE
10	Nearest Canal	Near Dharavaniya Village 3.8 km (4.28 km) East
11	Nearest Human Habitation	Otalpur (1.67 km) SW & Rangpur (1.78 km) South
12	Nearest Notified Sanctuary	None within 15 km
13	Nearest Eco-sensitive Zone	None within 15 km
14	Nearest Pond/Reservoir	Shri Chimnabai Sarovar (11.78Km) SW & Dharoi Dam (11.6 km) NE
15	Nearest River	Sabarmati River (6.00 km) East
16	Nearest NH	None within 15 km
17	Nearest SH	SH56 (5.35 km) West
18	Nearest School	Rangpur Primary School (1.72 km) South
19	Nearest Religious Place	Shri Ajitnath Bhagwan Shwetamber Jain Derasar & Taranga (2.90 km) North

Method of mining:-

- Opencast semi mechanized method of mining will be adopted for all the mines in the cluster. Mining will be done by deploying machineries like wire-saw,

excavator, cranes, loaders, tippers, jackhammers etc. Mining technique involves combination of line drilling-wire saw cutting method.

- Blasting is not proposed to be carried out in the cluster for all the leases. Mining will be carried out during day time only on shift basis. All applicable rules of MMR 1961, Mines Act-1952, Mines Rules 1955, MCR-2016, MCDR-2017 will be followed for safe, scientific & systematic mining. The height of the benches will be kept up to 6.25 m and the width up to 6.5m.The over burden generated will be stacked separately in SE part of the block and will be sold as rubble by taking necessary permission. Detail of cluster is as below:

YEAR WISE WASTE GENERATION				
S. No.	**Mine leases**	**Mineral Reject (MT)**	**Top Soil (MT)**	**OB/SB/IB (MT)**
1	Otalpur Granite Block – 2	23,333	0	92,279
2	Otalpur Granite Block – 1	57,600	0	1,05,980
3	Otalpur Granite Block –3	23,333	0	67,393
4	Rangpur (Gadh) Granite Block	42,000	0	0
5	Rangpur Granite Block – 3	23,333	0	67,393
Total		**1,69,599**	**0**	**3,33,045**

- Land use of mine lease area for pre-operational, operational and post operational phase is as below:

S. No.	**Head**	**Present Land Use (Ha)**	**At the end of five Year (Ha)**
1	Area to be excavated	--	0.685
2	Storage for top soil	--	--
3	Waste dump	--	0.35
4	Mineral stack	--	0.08
5	Infrastructure (workshop, administrative building etc.)	--	0.0085
6	Road	--	--
7	Railways	--	--
8	Tailing Pond	--	--
9	Effluent Treatment Plant	--	--
10	Mineral separation plant	--	--
11	Township area	--	--
12	Area which will remain untouched	7.72	6.5965
13	Green Belt	--	--
Grand Total		**7.72**	**7.72**

- No over burden will be dumped outside the mine lease area. There is no R& R issues involved in this project. There is no forest land involved in the project area. There are no National parks, Sanctuaries, Biosphere Reserves, Wildlife Corridor, Tiger/ elephant reserve present in the study area of 10 km radius. There is no vegetation within mine lease except some seasonal grasses. General fauna was present like squirrel and field rat observed within the proposed cluster area. Common local bird species were also found in the proposed cluster as blue rock pigeon, house crow, koel etc. The project site is neither falling under Aravalli range nor it is located in proximity to area declared as Critically Polluted. It is located in the Mehsana District of Gujarat. No R&R issues are involved in this project as well as entire cluster.
- Baseline one season monitoring was conducted for March to May 2019. Meteorological parameters were monitored on hourly basis for the project site. Predominant Wind Direction: From East to West. Summary of baseline data for the months March 2019 to May 2019 is as below:

Parameter	No. of Locations	Environmental Baseline Study
Ambient Air Quality Monitoring	9 locations	PM2.5- 31.2 µg/ m^3 (Rangpur)– 42.8µg/m^3 (Otalpur) PM10- 66.2 µg/m^3 (Vav) – 84.5 µg/m^3 (Rangpur) µg/m^3 SO_2- 3.9 µg/ m^3 (Shahupura) -7.4 (Otalpur) µg/m^3 NO_2- 11.7 µg/ m^3 (Shahupura) – 19.8 (Kajipur) µg/m^3 CO- 0.55 µg/ m^3(Dharawania) – 0.79 µg/m^3 (Otalpur)
Noise level monitoring	10 locations	During daytime- 39.6- 51.7 Leq dB(A) During Night time- 38.8- 40.1 Leq dB(A) Results were found within permissible limits
Water samples	Surface water – 2 locations	All parameters like TDS (548 to 582 mg/l), pH (7.68 to 7.8), Chloride (97 – 102.4 mg/l) etc. are found within permissible limits & fit for consumption.
	Ground water- 9 locations	All parameters like TDS (244 to 1218 mg/l), pH (7.32 to 7.81), Chloride (26.99 to 384.8 mg/l) etc. are found within permissible limits & fit for consumption.
Soil Samples	10 locations	pH- 6.42 – 7.82 Conductivity- 651-816 µmhos/cm

- Total water requirement of the proposed project is 9.3 KLD and it will be sourced from nearby village Rangpur through water tankers. Water conservation measures proposed to be adopted are (1) Optimum utilization avoiding unnecessary wastage of water will be done (2) Garland Drains have been constructed around waste dump for preventing wash-offs from dumps (3) Monitoring of water will be carried out periodically. Water analysis will be carried out seasonally. (4)Septic tanks and soak pits may be provided for the disposal of

domestic effluent generated from mine office (5)Construction of retention/toe walls to arrest sliding down of the excavated material and choking of streams/ Water bodies (6) Awareness programs will be taken up to educate public for conservation of water (7) Dense plantation in the barrier zone, as far as possible (8) Post-monsoon and Pre-monsoon groundwater level will be monitored regularly.

Public Hearing details:-

- Public Hearing was conducted for Rangpur Granite Block 3 Mining Project (Mining Lease- 7.72 Ha) on 12th October 2020.
- **Points raised during the public hearing included-** project benefits andemployment to locals; Is approval has been obtained from Gram Panchayat/Taluk; approval to demolish 'Aad Dam' constructed under MANREGA; approval to demolish 'Aad Bandh'; damage to nearby land; effects on cattle farming dependent villages living on hills; generation of dust and prevention; allocation of fund for cleanliness, health etc with its expenditure; adoption of blasting; Survey for Rangpur-Otalpur villages should be done to earmark their boundaries so as no conflict may arise between two villages.
- M/s Safal Constructions (India) Pvt. Ltd is committed to compliance with all the queries asked during the public hearing, respectively. Total employment of 22 persons will be generated from the proposed project. The parcel of 7.72 Ha. of land is a Government land, hence, there is no need to obtain any such permission from Gram Panchayat. The fund of total Rs 5.10 Lakh will be spend for the next five years for activity including- cleanliness of the village, maintenance of the roads etc. No effect is anticipated on villages living on the hills. Necessary care will be done to prevent damage to the private land. No blasting will be done in this project. Dust will be controlled thorugh greenbelt development and water sprinkling on the road. The boundary is earmarked for Rangpur Village, the clarification about boundary can be confirmed from the Prant Office.

Deliberation:

Committee deliberated on MoEFCC OM dated 30.09.2020, PP was asked to submit the Action Plan for need based public issues raised during the public hearing and asked to prepare action plan for budgetary provisions for same.

Committeealso asked the PP to submit identified needbased activities and its period for completion. Hence, Committee unanimously decided to consider the proposal after submission of afore-mentioned details only.

TOR PROPOSALS

4. GRANITE MINING, DIST: MEHSANA–TOR AMENDMENT

Application No	Name of Project	S.No	Village	Taluka	Dist	Lease Area	Validity of lease	ROM	Nearest Human Habitation	End Use	Investment in Rs	Date of Application on Received by SEAC
SIA/GJ/MIN/178375/2020	Rangpur Granite Block – 3 Mining Project Proposed By – M/s Safal Constructions (India) Pvt. Ltd.	Survey No. 295 Paiki (Old Survey No. 68 Paiki)	Rangpur	Satlasana	Mehsana	7.72 Ha	LoI issued on 21.01.2019 for 30 years	33333 MTPA	Otalpur – 1.7 km	Construction	1.66 Crore	04.11.2020

Deliberation:

PP informed that the application is done for TOR Amendment. Committee deliberated on the purpose of Application. PP informed that the purpose of the application is to make the correction in the name of the applicant and village. Correction in the name is required as M/s Safal Constructions (India) Pvt. Ltd instead of M/s Rangpur Granite Block-3 and village Rangpur instead of Otalpur.

Committee unanimously decided to grant the proposal for Amendment of TOR for above mentioned corrections.

5. RIVERBED SAND MINING, DIST:CHHOTAUDEPUR

Application No	Name of Project	S.No	Village	Taluka	Dist	Lease Area	Validity of lease	River	ROM	Nearest Human Habitation	End Use	Investment in Rs	Date of Application Received by SEAC
SIA/GJ/MIN/57174/2020	ShriVarsing N. Mandod	Survey No.-210 & 211 nelagu, Orsang River Bed (Simal Faliya Ordinary Sand Block-11) New Project	Simalfaliya	Chhotaudepur	Chhotaudepur	2.15.00 Ha	LoI issued on 06.11.2019	orsang	3612 0 MTPA	SimanFaliya – 580 m	construction	30 Lakh	04.11.2020

PP has withdrawn the application online on 20.12.2020. Hence, Committee unanimously decided to delist the proposal.

6. RIVERBED SAND MINING, DIST: CHHOTAUDEPUR

Application No	Name of Project	S.No	Village	Taluka	Dist	Lease Area	Validity of lease	River	ROM	Nearest Human Habitation	End Use	Investment in Rs	Date of Application on Received by SEAC

SIA/GJ/MIN/56967/2020	ShriIshlabhaiV.Rathva	202, 203, 204, 205, 206, 207 ne lagu Orsang River bed (Ghelvant Ordinary Sand Block -1) New Project	Ghelvant	Chhotaudepur	Chhotaudepur	2.00.00 Ha	LoI issued on 17.12.2019 for 5 years	Orsang	33720 MTPA	Ghelvant – 522 m	Construction	50 Lakh	04.11.2020

The project falls under B1 Category – 1(a), i.e. Mining of Minerals as per the provision of EIA Notification, 2006. Project Proponent has applied to obtain Terms of Reference (TOR) for mining of Riverbed Sand.

A. Basic Information of the Project:

1.	Name of Project as per Form I	**Shri Ishlabhai V. Rathva**
2.	Address of the lease	Village: Ghelvant, Taluka: Chhotaudepur, District: Chhotaudepur, State: Gujarat
3.	Name of lease holder	**Shri Ishlabhai V. Rathva**
4.	Lease area (Ha)	2.00.00
5.	Cluster Details	LEASE ID – CHO 3-3
	a. Total no. of leases in the cluster	20
	b. No. of TOR granted in cluster	Nil
	c. No. of EC granted in cluster	Nil
	d. Total area of the cluster	43.51.00
	e. Maximum individual lease area	4.90.00
	f. Minimum individual lease area	0.90.00
6.	Validity of lease with the date of expiry	5 year from the date of agreement
7.	Rate of Mining (MT/Annum)	33,720 MTPA

<table>
<tr><td>8.</td><td>Details of EC obtained (for expansion projects), if any</td><td>Nil</td></tr>
<tr><td>9.</td><td>Name of River Bed</td><td>Orsang River Bed</td></tr>
<tr><td>10.</td><td>Is the river perennial / non-perennial?</td><td>non-perennial</td></tr>
<tr><td>11.</td><td>Lease area (submerged / in stream / on dry river bed)</td><td>On dry riverbed</td></tr>
<tr><td>12.</td><td>All coordinates of the lease area as per Approved Mining Plan</td><td>
<table>
<tr><th>Pillars</th><th>Latitude</th><th>Longitude</th></tr>
<tr><td>1</td><td>22°18'09.5"N</td><td>73°59'16.5"E</td></tr>
<tr><td>2</td><td>22°18'12.9"N</td><td>73°59'08.9"E</td></tr>
<tr><td>3</td><td>22°18'16.3"N</td><td>73°59'10.2"E</td></tr>
<tr><td>4</td><td>22°18'10.9"N</td><td>73°59'17.6"E</td></tr>
</table>
</td></tr>
<tr><td>13.</td><td>Manpower requirement</td><td>9</td></tr>
<tr><td>14.</td><td>Applicability of CRZ Notification</td><td>Not applicable</td></tr>
<tr><td>15.</td><td>Minimum Setback distance proposed to be maintained from River Bed (m)</td><td>35.05 meter</td></tr>
<tr><td>16.</td><td>Minimum buffer distance from bridge piers / water intake wells / irrigation structures</td><td>Railway bridge – 3.46 km</td></tr>
<tr><td>17.</td><td>Maximum depth of sand removal (3 m or water depth whichever is less)</td><td>0.6 m per year</td></tr>
<tr><td>18.</td><td>Width of Riverbed (m)</td><td>382 m</td></tr>
<tr><td>19.</td><td>Average depth of water at lease area (m)</td><td>7-10 m</td></tr>
<tr><td>20.</td><td>Depth of mining (m)</td><td>0.6 m Per Annum</td></tr>
<tr><td>21.</td><td>Ground Water Table in meter BGL</td><td>7-10m</td></tr>
<tr><td>22.</td><td>Does ground water interfere approach road exit? (Yes / No)
If yes, status report of CGWA</td><td>No</td></tr>
<tr><td>23.</td><td>Distance between lease and main road</td><td>128 Km</td></tr>
<tr><td>24.</td><td>Length of kaccha road (m)</td><td>128 m</td></tr>
<tr><td>25.</td><td>Length of pacca road (m)</td><td>0 km</td></tr>
<tr><td>26.</td><td>Plan for making pacca road</td><td>No</td></tr>
<tr><td>27.</td><td>Source of fresh water</td><td>Drinking water will be Purchase from nearby water suppliers. And for the dust suppression and plantation will be Purchase from nearby tanker suppliers</td></tr>
<tr><td rowspan="5">28.</td><td>Water requirement (KLPD)</td><td>Total – 3.8 KLD</td></tr>
<tr><td>a. Domestic</td><td>1.0 KLD</td></tr>
<tr><td>b. Dust suppression</td><td>1.2 KLD</td></tr>
<tr><td>c. Gardening / Green belt development</td><td>1.6 KLD</td></tr>
<tr><td>d. others</td><td>-</td></tr>
<tr><td>29.</td><td>Whether the Undertaking is submitted for identical information provided in Form I, Approved Mining Plan, Project Details validated by District Geologist, Pre-Feasibility Report, Lease</td><td>No</td></tr>
</table>

	Document, Environment Management Plan and other documents	

B. Environmental Sensitivities:

Sr NO	Mining Type	Actual distance	Minimum Distance	Locations
1	Residential	Ghelvant 522 M (Ghelvant population- 1,820 As per 2011 Census)	100M (When Blasting is not involved)	As per order of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020
	Public buildings	Primary School at Chhotaudepur = 1.28 Km		As per order of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020
	Inhabited sites	Habited sites- 219 M (Population- 1713 as per 2011 census)		
2.	A. Major Bridge		1 km	On both sides of the lease (as per Sustainable Sand Mine Guideline of MOEF&CC)
		OR		
3	B. Highway ridge(Span of Bridge as X)	State highway 62 bridge - 2.66 km Railway bridge – 3.46 km	5X in upstream or 250 m. 10X in downstream or 500 m	As per Sustainable Sand Mine Guideline of MOEF&CC
4	Public Structure including water intake wells	Nil	n upstream or 250 m. b. 10X in downstream or 500 m	
5	Depth of working	0.6 meter Ground water table at lease area 7m -10 meter	1 M or water level whichever is early	As per order of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020)
6	Set Back Distance to prevent river bank erosion	35.05 meter	10 M or 1/4th of width of river	As per order of Honorable SC dtd 27.02.2020 and Sustainable Sand Mine Guideline of MOEF&CC
7	Mineable Material per Hectare area for actual mining shall not exceed maximum production	33,720 MTPA	60,000 MTPA Per Hectare	As per Sustainable Sand Mine Guideline of MOEF&CC

8	Water supply Scheme/Irrigation structure	Canal- 24.90 km	200 M	
9	Railway Line/National Highway/ State Highway	SH-11 – 128 M NH-953– 27.20 Km Railway line-1.12 km	100 M	
10.	Reservoir / Canal	Sukhi Water Reservoir- 15.40 Km Canal- 24.90 km	50 M	
11.	Other Road	Public Road- 150 m	10 M	
12	Eco-Sensitive Zone (if notified)	Distance of Jambughoda Eco-Sensitive Zone – 25.07 Km	>1 km / outside the notified Eco-Sensitive Zone	Vide directives of MOEF&CC dtd 16.07.2020
13.	Eco-Sensitive Zone (if not notified)	Not Applicable	>1 km and <10 km = Prior Clearance from NBWL is required	
14.	Distance of Coastal line from the site	151 Km	>500 M from HTL	Amended CRZ Notification 2011

C. Details of Mining:

1.	Method of Mining (Manual / Semi-mechanized / Mechanized).	Semi-mechanized
2.	Equipment's to be used for Mining bulldozers, hydraulic excavators, JCB, scrapers, loaders, Diesel Pump, etc.)	Hydraulic excavators, JCB, loaders
3.	Whether it includes blasting?	Not Applicable
4.	Details of Authorized Blasting Agency with date of validity certificate	Not Applicable
5.	Procedure / SOP (in brief)	Not Applicable
6.	Details of Blasting Parameters in brief	Not Applicable
7.	Frequency of blasting	Not Applicable
8.	Impact of blasting	Not Applicable
9.	Outcome of Vibration study	Not Applicable
10.	Blasting Activity Management Plan	Not Applicable
11.	Use of any Chemical with quantity	Not Applicable
12.	Precautions taken for Human Safety in brief	Not Applicable
13.	Crusher provided? If Yes, Measures taken for Air Pollution Control	Not Applicable
14.	Compliance of DGMS Guidelines for Blasting	Not Applicable
15.	Compliance of Sustainable Sand Mine Guidelines published by MoEFCC in 2016	Not Applicable
16.	WhetherReplenishment Rate Study is approved by District Geologist? If yes, conclude in brief	No (It will be submitted with the EIA)

D. Details of Green Belt Development:

1.	a. Green belt developmentbudget	72,500 Rs.
	b. Green belt area / location	Along river coarse and at approach road
	c. No. of trees to be planted	200
	d. Types of trees to be planted	Indigenous

E. Details of Environment Management Plan:

1.	**Details of EMP**	**Impact**	**Mitigation Measures**
	a. Land Environment	By the extraction of mineral from the lease area impacts to change the land pattern	The mining lease area granted in Orsang river bed, which is Govt land. Due to mining the land pattern will be change for some time but will be come up in its pre stage after monsoon.
	b. Water Environment	Pollution of surface run off. Depletion of ground water table. Change in river coarse	❖ Depth of excavation /mining shall be restricted to 0.6 m or water level at site, whichever is less. ❖ No In stream mining will be done. No effluent will be generated due to mining activities.
	c. Air Environment	1.Gaseous emission from vehicles and machineries used 2. Dust Pollution	❖ Proponent will Spend Rs 40,560 per year for sprinkling to internal road, loading point all transfer points. ❖ Proponent will develop green belt around the lease area with Rs 50,000 and will spend Rs 4,500 per year for the maintenance and replenishment of the plants. ❖ Attached road shall be sprinkle with water daily to prevent fugitive emission during vehicular. Speed of vehicle will only restrict to the 20 km/hour on Kutcha road. ❖ Vehicles used in mines and transportation shall be maintained well to mitigate the fugitive emission.
	d. Noise Environment	Noise due to working through heavy machinery.	❖ Ear muffs will be used during high noise activity. Regular maintenance of machineries shall be done
	e. Biological	Nil	Nil

	Environment		
	f. Human Environment		❖ Suitable and properly maintained first-aid outfit should be kept at the mine for use in case of accident ❖ Safety equipment's like dust masks and ear muffs etc. ❖ Health camps shall be arranged for local villagers and workers.
	g. Others		
2.	Occupational health & safety measures as per DGMS	Nil	
3.	Safety measures proposed		
	a. Is First Aid facility provided by PP?	yes	
	b. Details of PPEs	Safety helmet, Hand gloves Shoes etc.	
	c. Whether Registration of Workers underBuilding and other Construction Workers' (regulation of Employment & Conditions of Service) Act, 1996 and as Beneficiaries with the Gujarat Building and other Construction Workers Welfare Boards is obtained or not?	Will be done after the agreement of the lease.	
	d. Insurance of Workers	Nil	
	e. Health checkup plan of workers	Every six-monthly plan for Health management.	

F. Transportation:

1.	No. of vehicles per day carrying Minerals	8.64 Approx. 9
2.	Fugitive dust emission control measures	Attached road with lease shall be sprinkle with water daily to prevent fugitive emission during vehicular. Speed of vehicle will only restrict to the 20 km/hour on Kutcha road
3.	Route plan in brief	Approach road is about 128 m connected with state Highway– 11

G. Financial details of the Project:

	1.	Total cost of the project (Lakh)	1.91 Cr
		a. Upfront cost (Lakh)	4.45 Lakh
		b. Performance Security (Lakh)	4.45 Lakh
		c. Total Royalty (Lakh)	67.44 lakh
		d. Weigh Bridge Cost (Lakh)	8.0 lakh
		e. Labor cost equipment (Lakh)	93.6 lakh
		f. Environment protection and implementation cost (Lakh)	10.05 lakh
		g. Green Belt Development & maintenance cost (Lakh)	1.0 lakh
		h. Cost of EMP (Lakh)	--------
		i. Cost of Safety measures (Lakh)	2.50 lakh (Safety Helmet– 200 Rs, Hand Gloves - 150 Rs, Safety shoos- 650Rs)
		j. Cost of Post-Closure Mine Plan (Lakh)	Not applicable
	2.	Budget allocated for CER (Lakh)	3.82 lakh
	3.	Is need based survey for CER carried out? (Yes / No) If yes, give details of activities along with Budgetary Outlay	NO

H. Restoration / Reclamation Plan:

	1.	Restoration / Reclamation Details	The lease site was refilled during one monsoonal phase.
	2.	Post mining closure plan	Not Applicable
	3.	Backfilling material and its quantity	Not Applicable
	4.	Size of void for Rain Water Harvesting after backfilling	Not Applicable
	5.	Post Closure Liability / Safety aspects and Measures to be taken to avoid wild life and human accidents/ causalities	Not Applicable
	6.	Display of Caution Boards at strategic locations on the periphery of the pit area	Not Applicable
	7.	Final Use of reservoir/ reclaimed land	Not Applicable

I. Details of Legal Action / Court Case:

	1.	Details of Pending Court matter / Public Litigation Cases in any court of Law	No
	2.	Details of Action taken by GPCB, if any	No
	3.	Details of public complaint, if any	No
	4.	Compliance of EC by RO-GPCB or MoEFCC-Bhopal	No

Deliberation:

Committee deliberated on method of mining and safe distance of Environmental Sensitivities from the lease area. During the presentation, Green Belt Development, CER, EMP etc. was discussed.PP showed the location of the lease through Google Images and informed that the lease is not in-stream.

After scoping for the aforementioned proposal, committee decided to consider the proposal under B1 category & Hon'ble National Green Tribunal Order dated 13 September 2018 in view. It was decided to recommend TOR approved by SEIAA on 07/03/2019 for **river bed sand mining** for conducting the EIA study to be done for cluster situation evaluating cumulative impact of the mining leases in cluster considering 10 Km radius from the periphery of the mine lease area including public hearing including project**specific TOR as per Annexure – I.**

7. RIVERBED SAND MINING, DIST: CHHOTAUDEPUR

Application No	Name of Project	S.No	Village	Taluka	Dist	Lease Area	Validity of lease	ROM	River	Nearest Human Habitation	End Use	Investment in Rs	Date of Application Received by SEAC
SIA/GJ/MIN/56802/2020	ShriManjulabenBhanushali	Survey No. 46 & 60 ne same e Bharaj Riverbed (Block-04) New Project	Paliya	Jetpurpavi	Chhotaudepur	2.40.00 Ha	LoI issued on 06.01.2020 for 5 years	36168 MTPA	Bharaj	Paliya – 523 m	Constructions	30 Lakh	04.11.2020

The project falls under B1 Category – 1(a), i.e. Mining of Minerals as per the provision of EIA Notification, 2006. Project Proponent has applied to obtain Terms of Reference (TOR) for mining of Riverbed Sand.

A. Basic Information of the Project:

<table>
<tr><td>1.</td><td>Name of Project as per Form I</td><td>Shri Manjulaben Bhanushali</td></tr>
<tr><td>2.</td><td>Address of the lease</td><td>Village: Paliya,
Taluka: Jetpurpavi,
District: Chhotaudepur,
State: Gujarat</td></tr>
<tr><td>3.</td><td>Name of lease holder</td><td>Shri Manjulaben Bhanushali</td></tr>
<tr><td>4.</td><td>Lease area (Ha)</td><td>2.40.00</td></tr>
<tr><td>5.</td><td>Cluster Details</td><td>LEASE ID – CHO 10-4</td></tr>
<tr><td></td><td>a. Total no. of leases in the cluster</td><td>8</td></tr>
<tr><td></td><td>b. No. of TOR granted in cluster</td><td>Nil</td></tr>
<tr><td></td><td>c. No. of EC granted in cluster</td><td>Nil</td></tr>
<tr><td></td><td>d. Total area of the cluster</td><td>22.39.80</td></tr>
<tr><td></td><td>e. Maximum individual lease area</td><td>4.58.00</td></tr>
<tr><td></td><td>f. Minimum individual lease area</td><td>2.40.00</td></tr>
<tr><td>6.</td><td>Validity of lease with the date of expiry</td><td>5 year from the date of agreement</td></tr>
<tr><td>7.</td><td>Rate of Mining (MT/Annum)</td><td>39,168 MTPA</td></tr>
<tr><td>8.</td><td>Details of EC obtained (for expansion projects), if any</td><td>Nil</td></tr>
<tr><td>9.</td><td>Name of River Bed</td><td>Bharaj River Bed</td></tr>
<tr><td>10.</td><td>Is the river perennial / non-perennial?</td><td>non-perennial</td></tr>
<tr><td>11.</td><td>Lease area (submerged / in stream / on dry river bed)</td><td>On dry riverbed</td></tr>
<tr><td>12.</td><td>All coordinates of the lease area as per Approved Mining Plan</td><td>
<table>
<tr><th>Pillars</th><th>Latitude</th><th>Longitude</th></tr>
<tr><td>1</td><td>N22°21'54.52"</td><td>E73°49'12.96"</td></tr>
<tr><td>2</td><td>N22°21'54.81"</td><td>E73°49'12.99"</td></tr>
<tr><td>3</td><td>N22°21'57.74"</td><td>E73°49'13.84"</td></tr>
<tr><td>4</td><td>N22°21'59.51"</td><td>E73°49'06.66"</td></tr>
<tr><td>5</td><td>N22°21'55.25"</td><td>E73°49'06.00"</td></tr>
</table>
</td></tr>
<tr><td>13.</td><td>Manpower requirement</td><td>11</td></tr>
<tr><td>14.</td><td>Applicability of CRZ Notification</td><td>Not applicable</td></tr>
<tr><td>15.</td><td>Minimum Setback distance proposed to be maintained from River Bed (m)</td><td>32 meters</td></tr>
<tr><td>16.</td><td>Minimum buffer distance from bridge piers / water intake wells / irrigation structures</td><td>State highway 11 bridge - 4.01 km</td></tr>
<tr><td>17.</td><td>Maximum depth of sand removal (3 m or water depth whichever is less)</td><td>0.6 m</td></tr>
<tr><td>18.</td><td>Width of Riverbed (m)</td><td>538 m</td></tr>
<tr><td>19.</td><td>Average depth of water at lease area (m)</td><td>7-10 m</td></tr>
<tr><td>20.</td><td>Depth of mining (m)</td><td>0.6 m Per Annum</td></tr>
<tr><td>21.</td><td>Ground Water Table in meter BGL</td><td>7-10m</td></tr>
<tr><td>22.</td><td>Does ground water interfere approach</td><td>No</td></tr>
</table>

	road exit? (Yes / No) If yes, status report of CGWA	
23.	Distance between lease and main road	482 Km
24.	Length of kaccha road (m)	482 m
25.	Length of pacca road (m)	0 km
26.	Plan for making pacca road	No
27.	Source of fresh water	Drinking water will be Purchase from nearby water suppliers. And for the dust suppression and plantation will be Purchase from nearby tanker suppliers
28.	Water requirement (KLPD)	Total – 4.02 KLD
	a. Domestic	0.4 KLD
	b. Dust suppression	1.70 KLD
	c. Gardening / Green belt development	1.92 KLD
	d. others	-
29.	Whether the Undertaking is submitted for identical information provided in Form I, Approved Mining Plan, Project Details validated by District Geologist, Pre-Feasibility Report, Lease Document, Environment Management Plan and other documents	No

B. Environmental Sensitivities:

Sr NO	**Mining Type**	**Actual distance**	**Minimum Distance**	**Locations**
1	Residential	Paliya 523 M (Paliya population-1478 As per 2011 Census)	100M (When Blasting is not involved)	As per order of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020
	Public buildings	Primary School in Paliya = 960 m		As per order of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020
	Inhabited sites	Nil		
2.	A. Major Bridge	Nil	1 km	On both sides of the lease (as per Sustainable Sand Mine Guideline of MOEF&CC)
OR				
3	B. Highway ridge(Span of Bridge as X)	Railway bridge – 3.85 Km State highway 11 bridge - 4.01 km	5X in upstream or 250 m. 10X in downstream or 500 m	As per Sustainable Sand Mine Guideline of MOEF&CC
4	Public Structure	Nil	n upstream or 250 m.	

	including water intake wells		b. 10X in downstream or 500 m	
5	Depth of working	0.6 meter Ground water table at lease area 7m -10 meter	1 M or water level whichever is early	As per order of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020)
6	Set Back Distance to prevent river bank erosion	32 meter	10 M or 1/4th of width of river	As per order of Honorable SC dtd 27.02.2020 and Sustainable Sand Mine Guideline of MOEF&CC
7	Mineable Material per Hectare area for actual mining shall not exceed maximum production	39,168 MTPA	60,000 MTPA Per Hectare	As per Sustainable Sand Mine Guideline of MOEF&CC
8	Water supply Scheme/Irrigation structure	Sukhi Dam Reservoir – 10.02 km	200 M	
9	Railway Line/National Highway/ State Highway	SH- 157 – 3.06 KM NH-953 – 14.27 M Railway line-3.02 km	100 M	
10.	Reservoir / Canal	Sukhi Dam Reservoir – 10.02 km	50 M	
11.	Other Road	Public Road- 484 m	10 M	
12	Eco-Sensitive Zone (if notified)	Distance of Eco Sensitive zone Of Jambhughoda About 6.49 kM	>1 km / outside the notified Eco-Sensitive Zone	Vide directives of MOEF&CC dtd 16.07.2020
13.	Eco-Sensitive Zone (if not notified)	Not Applicable	>1 km and <10 km = Prior Clearance from NBWL is required	
14.	Distance of Coastal line from the site	104.12 Km	>500 M from HTL	Amended CRZ Notification 2011

C. Details of Mining:

1.	Method of Mining (Manual / Semi-mechanized / Mechanized).	Semi-mechanized

2.	Equipment's to be used for Mining bulldozers, hydraulic excavators, JCB, scrapers, loaders, Diesel Pump, etc.)	Hydraulic excavators, JCB, loaders
3.	Whether it includes blasting?	Not Applicable
4.	Details of Authorized Blasting Agency with date of validity certificate	Not Applicable
5.	Procedure / SOP (in brief)	Not Applicable
6.	Details of Blasting Parameters in brief	Not Applicable
7.	Frequency of blasting	Not Applicable
8.	Impact of blasting	Not Applicable
9.	Outcome of Vibration study	Not Applicable
10.	Blasting Activity Management Plan	Not Applicable
11.	Use of any Chemical with quantity	Not Applicable
12.	Precautions taken for Human Safety in brief	Not Applicable
13.	Crusher provided? If Yes, Measures taken for Air Pollution Control	Not Applicable
14.	Compliance of DGMS Guidelines for Blasting	Not Applicable
15.	Compliance of Sustainable Sand Mine Guidelines published by MoEFCC in 2016	Not Applicable
16.	WhetherReplenishment Rate Study is approved by District Geologist? If yes, conclude in brief	No (It will be submitted with the EIA)

D. Details of Green Belt Development:

1.	a. Green belt developmentbudget	97,500 Rs.
	b. Green belt area / location	Along river coarse and at approach road
	c. No. of trees to be planted	240
	d. Types of trees to be planted	Indigenous

E. Details of Environment Management Plan:

1.	**Details of EMP**	**Impact**	**Mitigation Measures**
	a. Land Environment	By the extraction of mineral from the lease area impacts to change the land pattern	The mining lease area granted in Narmada river bed, which is Govt land. Due to mining the land pattern will be change for some time but will be come up in its pre stage after monsoon.
	b. Water Environment	Pollution of surface run off. Depletion of ground water table. Change in river coarse	❖ Depth of excavation /mining shall be restricted to 0.6 m or water level at site, whichever is less. ❖ No In stream mining will be done. No effluent will be generated due to mining activities.
	c. Air Environment	1.Gaseous emission from vehicles and	❖ Proponent will Spend Rs 64,896 per year for sprinkling

			machineries used 2. Dust Pollution	to internal road, loading point all transfer points. ❖ Proponent will develop green belt around the lease area with Rs 60,000 and will spend Rs 7,500 per year for the maintenance and replenishment of the plants. ❖ Attached road shall be sprinkle with water daily to prevent fugitive emission during vehicular. Speed of vehicle will only restrict to the 20 km/hour on Kutcha road. ❖ Vehicles used in mines and transportation shall be maintained well to mitigate the fugitive emission.
		d. Noise Environment	Noise due to working through heavy machinery.	❖ Ear muffs will be used during high noise activity. Regular maintenance of machineries shall be done
		e. Biological Environment	Nil	Nil
		f. Human Environment		❖ Suitable and properly maintained first-aid outfit should be kept at the mine for use in case of accident ❖ Safety equipment's like dust masks and ear muffs etc. ❖ Health camps shall be arranged for local villagers and workers.
		g. Others		
	2.	Occupational health & safety measures as per DGMS	Nil	
	3.	Safety measures proposed		
		a. Is First Aid facility provided by PP?	yes	
		b. Details of PPEs	Safety helmet, Hand gloves Shoes etc.	
		c. Whether Registration of Workers underBuilding and other Construction	Will be done after the agreement of the lease.	

	Workers' (regulation of Employment &Conditions of Service) Act, 1996 and as Beneficiaries with the Gujarat Building and other Construction Workers Welfare Boards is obtained or not?	
	d. Insurance of Workers	Nil
	e. Health checkup plan of workers	Every six-monthly plan for Health management.

F. Transportation:

1.	No. of vehicles per day carrying Minerals	10
2.	Fugitive dust emission control measures	Attached road with lease shall be sprinkle with water daily to prevent fugitive emission during vehicular. Speed of vehicle will only restrict to the 20 km/hour on Kutcha road
3.	Route plan in brief	Approach road is about 482 m connected with local MDR road, Locala MDR rOad connected with state Highway– 11

G. Financial details of the Project:

1.	Total cost of the project (Lakh)	2.35 Cr
	a. Upfront cost (Lakh)	15.66 Lakh
	b. Performance Security (Lakh)	15.66 Lakh
	c. Total Royalty (Lakh)	78.33 lakh
	d. Weigh Bridge Cost (Lakh)	8.0 lakh
	e. Labor cost equipment (Lakh)	104 lakh
	f. Environment protection and implementation cost (Lakh)	9.24 lakh
	g. Green Belt Development & maintenance cost (Lakh)	0.97 lakh
	h. Cost of EMP (Lakh)	---------
	i. Cost of Safety measures (Lakh)	3.50 lakh (Safety Helmet– 200 Rs, Hand Gloves - 150 Rs, Safety shoos- 650Rs)
	j. Cost of Post-Closure Mine Plan (Lakh)	Not applicable
2.	Budget allocated for CER (Lakh)	4.70 lakh
3.	Is need based survey for CER carried out? (Yes / No) If yes, give details of activities along with Budgetary Outlay	NO

H. Restoration / Reclamation Plan:

1.	Restoration / Reclamation Details	The lease site was refilled during one

			monsoonal phase.
	2.	Post mining closure plan	Not Applicable
	3.	Backfilling material and its quantity	Not Applicable
	4.	Size of void for Rain Water Harvesting after backfilling	Not Applicable
	5.	Post Closure Liability / Safety aspects and Measures to be taken to avoid wild life and human accidents/ causalities	Not Applicable
	6.	Display of Caution Boards at strategic locations on the periphery of the pit area	Not Applicable
	7.	Final Use of reservoir/ reclaimed land	Not Applicable
I.	**Details of Legal Action / Court Case:**		
	1.	Details of Pending Court matter / Public Litigation Cases in any court of Law	No
	2.	Details of Action taken by GPCB, if any	No
	3.	Details of public complaint, if any	No
	4.	Compliance of EC by RO-GPCB or MoEFCC-Bhopal	No

Deliberation:

Committee deliberated on the safe distance of Environmental Sensitivities. Committee deliberated in depth about Pollution control Measures and its mitigation measures. Detailed discussion on Green Belt Development, Method of Mining, CER activities etc. was done by Committee. It is noted that proposed lease area is in dry river bed and does not include in stream mining.

After scoping for the aforementioned proposal, committee decided to consider the proposal under B1 category & Hon'ble National Green Tribunal Order dated 13 September 2018 in view. It was decided to recommend TOR approved by SEIAA on 07/03/2019 for **river bed sand mining** for conducting the EIA study to be done for cluster situation evaluating cumulative impact of the mining leases in cluster considering 10 Km radius from the periphery of the mine lease area including public hearing including project**specific TOR as per Annexure – I.**

8. RIVERBED SAND AND GRAVEL MINING, DIST: AMRELI

Application No	Name of Project	S.No	Village	Taluka	Dist	Lease Area	Validity of lease	ROM	Nearest Human Habitation	End Use	Investment in Rs	Date of Application Received

												by SEAC
SIA/GJ/MIN/56636/2020	ShriDineshbhaiAtulbhaiNakum	Govt. Land & Survey No-238, 239 & 240 Dhatarwadi NadiPattPaiki (Block C) New Project	Vad	Rajula	Amreli	2.00.00 Ha	LoI issued on 10.01.2020 for 5 years	18400 MTPA	Vad – 755 m	Construction	50 Lakh	04.11.2020

The project falls under B1 Category – 1(a), i.e. Mining of Minerals as per the provision of EIA Notification, 2006. Project Proponent has applied to obtain Terms of Reference (TOR) for mining of Riverbed Sand& Gravel.

A. Basic Information of the Project:

1.	Name of Project as per Form I	**Shri Dineshbhai Atulbhai Nakum**
2.	Address of the lease	Village: Vad, Taluka: Rajula, District: Amreli, State: Gujarat
3.	Name of lease holder	**Shri Dineshbhai Atulbhai Nakum**
4.	Lease area (Ha)	2.00.00
5.	Cluster Details	CLUSTER ID - 13
	a. Total no. of leases in the cluster	10
	b. No. of TOR granted in cluster	Nil
	c. No. of EC granted in cluster	Nil
	d. Total area of the cluster	18.54.00
	e. Maximum individual lease area	02.20.00
	f. Minimum individual lease area	1.45.00
6.	Validity of lease with the date of expiry	5 year from the date of agreement
7.	Rate of Mining (MT/Annum)	18,400 MTPA
8.	Details of EC obtained (for expansion projects), if any	Nil
9.	Name of River Bed	Dhatarwadi River Bed
10.	Is the river perennial / non-	non-perennial

<table>
<tr><td></td><td>perennial?</td><td></td></tr>
<tr><td>11.</td><td>Lease area (submerged / in stream / on dry river bed)</td><td>On dry riverbed</td></tr>
<tr><td>12.</td><td>All coordinates of the lease area as per Approved Mining Plan</td><td>
<table>
<tr><th>Pillars</th><th>Latitude</th><th>Longitude</th></tr>
<tr><td>1</td><td>20°59'19.6197"N</td><td>71°26'06.5573"E</td></tr>
<tr><td>2</td><td>20°59'16.6312"N</td><td>71°26'08.9016"E</td></tr>
<tr><td>3</td><td>20°59'12.5781"N</td><td>71°26'10.9304"E</td></tr>
<tr><td>4</td><td>20°59'11.9875"N</td><td>71°26'08.3952"E</td></tr>
<tr><td>5</td><td>20°59'17.0362"N</td><td>71°26'05.3596"E</td></tr>
<tr><td>6</td><td>20°59'18.9136"N</td><td>71°26'03.4632"E</td></tr>
</table>
</td></tr>
<tr><td>13.</td><td>Manpower requirement</td><td>10</td></tr>
<tr><td>14.</td><td>Applicability of CRZ Notification</td><td>Not applicable</td></tr>
<tr><td>15.</td><td>Minimum Setback distance proposed to be maintained from River Bed (m)</td><td>24 meters</td></tr>
<tr><td>16.</td><td>Minimum buffer distance from bridge piers / water intake wells / irrigation structures</td><td>State highway 6 bridge -2.14 Km</td></tr>
<tr><td>17.</td><td>Maximum depth of sand removal (3 m or water depth whichever is less)</td><td>0.6 m</td></tr>
<tr><td>18.</td><td>Width of Riverbed (m)</td><td>124 m</td></tr>
<tr><td>19.</td><td>Average depth of water at lease area (m)</td><td>7-10 m</td></tr>
<tr><td>20.</td><td>Depth of mining (m)</td><td>0.6 m Per Annum</td></tr>
<tr><td>21.</td><td>Ground Water Table in meter BGL</td><td>7-10m</td></tr>
<tr><td>22.</td><td>Does ground water interfere approach road exit? (Yes / No)
If yes, status report of CGWA</td><td>No</td></tr>
<tr><td>23.</td><td>Distance between lease and main road</td><td>915 Km</td></tr>
<tr><td>24.</td><td>Length of kaccha road (m)</td><td>915 m</td></tr>
<tr><td>25.</td><td>Length of pacca road (m)</td><td>0 km</td></tr>
<tr><td>26.</td><td>Plan for making pacca road</td><td>No</td></tr>
<tr><td>27.</td><td>Source of fresh water</td><td>Drinking water will be Purchase from nearby water suppliers. And for the dust suppression and plantation will be Purchase from nearby tanker suppliers</td></tr>
<tr><td>28.</td><td>Water requirement (KLPD)</td><td>Total – 3.2 KLD</td></tr>
<tr><td></td><td>a. Domestic</td><td>0.8 KLD</td></tr>
<tr><td></td><td>b. Dust suppression</td><td>0.8 KLD</td></tr>
</table>

	c. Gardening / Green belt development	1.6 KLD
	d. others	-
29.	Whether the Undertaking is submitted for identical information provided in Form I, Approved Mining Plan, Project Details validated by District Geologist, Pre-Feasibility Report, Lease Document, Environment Management Plan and other documents	No

B. Environmental Sensitivities:

Sr NO	Mining Type	Actual distance	Minimum Distance	Locations
1	Residential	Vad 755 M (Vad population- 1025 As per 2011 Census)	100M (When Blasting is not involved)	As per order of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020
	Public buildings	Primary School in Vad = 910 m		As per order of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020
	Inhabited sites	Nil		
2.	A. Major Bridge	Nil	1 km	On both sides of the lease (as per Sustainable Sand Mine Guideline of MOEF&CC)
		OR		
3	B. Highway ridge(Span of Bridge as X)	State highway 6 bridge -2.14 Km	5X in upstream or 250 m. 10X in downstream or 500 m	As per Sustainable Sand Mine Guideline of MOEF&CC
4	Public Structure including water intake wells	Nil	n upstream or 250 m. b. 10X in downstream or 500 m	
5	Depth of working	0.6 meter Ground water table at lease area 7m -10 meter	1 M or water level whichever is early	As per order of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020)
6	Set Back Distance to prevent river bank erosion	24 meter	10 M or 1/4th of width of river	As per order of Honorable SC dtd 27.02.2020 and

				Sustainable Sand Mine Guideline of MOEF&CC
7	Mineable Material per Hectare area for actual mining shall not exceed maximum production	18,400 MTPA	60,000 MTPA Per Hectare	As per Sustainable Sand Mine Guideline of MOEF&CC
8	Water supply Scheme/Irrigation structure	Dhatarwadi dam - 4.43 km	200 M	
9	Railway Line/National Highway/ State Highway	SH-107 – 2.21 M SH-6 – 908 M Railway line- 3.80 Km	100 M	
10.	Reservoir / Canal	Dhatarwadi dam - 4.43 km	50 M	
11.	Other Road	Public Road- 915 m	10 M	
12	Eco-Sensitive Zone (if notified)	Not Applicable	>1 km / outside the notified Eco-Sensitive Zone	Vide directives of MOEF&CC dtd 16.07.2020
13.	Eco-Sensitive Zone (if not notified)	Distance of Mityala Wild-Life Sanctuary is about 26.36 Km	>1 km and <10 km = Prior Clearance from NBWL is required	
14.	Distance of Coastal line from the site	9.56 Km	>500 M from HTL	Amended CRZ Notification 2011

C. Details of Mining:

1.	Method of Mining (Manual / Semi-mechanized / Mechanized).	Semi-mechanized
2.	Equipment's to be used for Mining bulldozers, hydraulic excavators, JCB, scrapers, loaders, Diesel Pump, etc.)	Hydraulic excavators, JCB, loaders
3.	Whether it includes blasting?	Not Applicable
4.	Details of Authorized Blasting Agency with date of validity certificate	Not Applicable
5.	Procedure / SOP (in brief)	Not Applicable
6.	Details of Blasting Parameters in brief	Not Applicable
7.	Frequency of blasting	Not Applicable
8.	Impact of blasting	Not Applicable
9.	Outcome of Vibration study	Not Applicable

10.	Blasting Activity Management Plan	Not Applicable
11.	Use of any Chemical with quantity	Not Applicable
12.	Precautions taken for Human Safety in brief	Not Applicable
13.	Crusher provided? If Yes, Measures taken for Air Pollution Control	Not Applicable
14.	Compliance of DGMS Guidelines for Blasting	Not Applicable
15.	Compliance of Sustainable Sand Mine Guidelines published by MoEFCC in 2016	Not Applicable
16.	WhetherReplenishment Rate Study is approved by District Geologist? If yes, conclude in brief	No (It will be submitted with the EIA)

D. Details of Green Belt Development:

1.	a. Green belt developmentbudget	80,000 Rs.
	b. Green belt area / location	Along river coarse and at approach road
	c. No. of trees to be planted	200
	d. Types of trees to be planted	Indigenous

E. Details of Environment Management Plan:

1.	**Details of EMP**	**Impact**	**Mitigation Measures**
	a. Land Environment	By the extraction of mineral from the lease area impacts to change the land pattern	The mining lease area granted in Dhatarwadi river bed, which is Govt land. Due to mining the land pattern will be change for some time but will be come up in its pre stage after monsoon.
	b. Water Environment	Pollution of surface run off. Depletion of ground water table. Change in river coarse	❖ Depth of excavation /mining shall be restricted to 0.6 m or water level at site, whichever is less. ❖ No In stream mining will be done. No effluent will be generated due to mining activities.
	c. Air Environment	1.Gaseous emission from vehicles and machineries used 2. Dust Pollution	❖ Proponent will Spend Rs 54,080 per year for sprinkling to internal road, loading point all transfer points. ❖ Proponent will develop green belt around the lease area with Rs 50,000 and will spend Rs 6,000 per year for the maintenance and replenishment of the plants. ❖ Attached road shall be sprinkle with water daily to prevent fugitive emission

				during vehicular. Speed of vehicle will only restrict to the 20 km/hour on Kutcha road. ❖ Vehicles used in mines and transportation shall be maintained well to mitigate the fugitive emission.
		d. Noise Environment	Noise due to working through heavy machinery.	❖ Ear muffs will be used during high noise activity. Regular maintenance of machineries shall be done
		e. Biological Environment	Nil	Nil
		f. Human Environment		❖ Suitable and properly maintained first-aid outfit should be kept at the mine for use in case of accident ❖ Safety equipment's like dust masks and ear muffs etc. ❖ Health camps shall be arranged for local villagers and workers.
		g. Others		
	2.	Occupational health & safety measures as per DGMS	Nil	
	3.	Safety measures proposed		
		a. Is First Aid facility provided by PP?	yes	
		b. Details of PPEs	Safety helmet, Hand gloves Shoes etc.	
		c. Whether Registration of Workers underBuilding and other Construction Workers' (regulation of Employment & Conditions of Service) Act, 1996 and as Beneficiaries with the Gujarat Building and other Construction Workers Welfare Boards is obtained or not?	Will be done after the agreement of the lease.	
		d. Insurance of Workers	Nil	

	e. Health checkup plan of workers	Every six-monthly plan for Health management.

F. Transportation:

1.	No. of vehicles per day carrying Minerals	10
2.	Fugitive dust emission control measures	Attached road with lease shall be sprinkle with water daily to prevent fugitive emission during vehicular. Speed of vehicle will only restrict to the 20 km/hour on Kutcha road
3.	Route plan in brief	Approach road is about 915 m connected with state Highway– 6

G. Financial details of the Project:

1.	Total cost of the project (Lakh)	1.35 Cr
	a. Upfront cost (Lakh)	2.78 Lakh
	b. Performance Security (Lakh)	2.78 Lakh
	c. Total Royalty (Lakh)	36.80 lakh
	d. Weigh Bridge Cost (Lakh)	8.0 lakh
	e. Labor cost equipment (Lakh)	71.50 lakh
	f. Environment protection and implementation cost (Lakh)	8.70 lakh
	g. Green Belt Development & maintenance cost (Lakh)	0.80 lakh
	h. Cost of EMP (Lakh)	---------
	i. Cost of Safety measures (Lakh)	3.75 lakh (Safety Helmet– 200 Rs, Hand Gloves - 150 Rs, Safety shoos- 650Rs)
	j. Cost of Post-Closure Mine Plan (Lakh)	Not applicable
2.	Budget allocated for CER (Lakh)	2.70 lakh
3.	Is need based survey for CER carried out? (Yes / No) If yes, give details of activities along with Budgetary Outlay	NO

H. Restoration / Reclamation Plan:

1.	Restoration / Reclamation Details	The lease site was refilled during one monsoonal phase.
2.	Post mining closure plan	Not Applicable
3.	Backfilling material and its quantity	Not Applicable
4.	Size of void for Rain Water Harvesting after backfilling	Not Applicable
5.	Post Closure Liability / Safety aspects and Measures to be taken to avoid wild life and human accidents/ causalities	Not Applicable
6.	Display of Caution Boards at strategic locations on the periphery of the pit area	Not Applicable
7.	Final Use of reservoir/ reclaimed land	Not Applicable

I.	Details of Legal Action / Court Case:		
	1.	Details of Pending Court matter / Public Litigation Cases in any court of Law	No
	2.	Details of Action taken by GPCB, if any	No
	3.	Details of public complaint, if any	No
	4.	Compliance of EC by RO-GPCB or MoEFCC-Bhopal	No

Deliberation:

Committee deliberated on Environmental Management Plan, adverse impact on Environment and its mitigation measures. Distance of the lease from Environmental Sensitivities was discussed. CER, EMP, Green Belt Development was discussed. Method of mining was discussed. Committee raised the concern of dusting during the mining.

After scoping for the aforementioned proposal, committee decided to consider the proposal under B1 category & Hon'ble National Green Tribunal Order dated 13 September 2018 in view. It was decided to recommend TOR approved by SEIAA on 07/03/2019 for **river bed sand mining** for conducting the EIA study to be done for cluster situation evaluating cumulative impact of the mining leases in cluster considering 10 Km radius from the periphery of the mine lease area including public hearing including project **specific TOR as below and Annexure – I:**

- PP has to take measures to control the issue of Dust Suppression.

9. BUILDING LIMESTONE MINING, DIST: JAMNAGAR

Application No	Name of Project	S. No.	Village	Taluka	Dist	Lease Area	Validity of lease	ROM	Nearest Human Habitation	End Use	Investment in Rs	Date of Application Received by SEAC

SIA/GJ/MIN/57071/2020	ShriJeevabhaiNathabhaiKhunti	Survey No-465 (Part) QL No-11774 New Project	Amarapar	Jam Jodhpur	Jamnagar	2.50.00 Ha	LoI issued on 31.03.2017 for 10 years	83520 MTPA	Amarapar – 1.71 km	Cement Industry	50 Lakh	04.11.2020

The project falls under B1 Category – 1(a), i.e. Mining of Minerals as per the provision of EIA Notification, 2006. Project Proponent has applied to obtain Terms of Reference (TOR) for mining of Building Limestone.

A. Basic Information of the Project:

1.	Name of Project as per Form I	**Shri Jeevabhai Nathabhai Khunti**
2.	Address of the lease	Village: Amarapar Taluka: Jam Jodhpur District: Jamnagar State: Gujarat
3.	Name of lease holder	**Shri Jeevabhai Nathabhai Khunti**
4.	Lease area (Ha)	2.50.00 Ha.
5.	Cluster Details	**Cluster ID – CLUSTER JAM 29**
	a. Total no. of leases in the cluster	19
	b. No. of TOR granted in cluster	Nil
	c. No. of EC granted in cluster	Nil
	d. Total area of the cluster	35.55.98 Ha.
	e. Maximum individual lease area	2.82.27 Ha.
	f. Minimum individual lease area	1.00.00 Ha.
6.	Validity of lease with the date of expiry	10 Years
7.	Rate of Mining (MT/Annum)	83,520 MTPA
8.	Details of EC obtained (for expansion projects), if any	Nil

9.	Name of River Bed	Not applicable
10.	Is the river perennial / non-perennial?	Not applicable
11.	Lease area (submerged / in stream / on dry river bed)	Not applicable
12.	All coordinates of the lease area as per Approved Mining Plan	<table><tr><th>Pillars</th><th>Latitude</th><th>Longitude</th></tr><tr><td>1</td><td>21°44'6.70"N</td><td>70° 2'16.13"E</td></tr><tr><td>2</td><td>21°44'3.88"N</td><td>70° 2'18.44"E</td></tr><tr><td>3</td><td>21°44'8.75"N</td><td>70° 2'25.09"E</td></tr><tr><td>4</td><td>21°44'11.43"N</td><td>70° 2'23.68"E</td></tr></table>
13.	Manpower requirement	15
14.	Applicability of CRZ Notification	Not applicable
15.	Minimum Setback distance proposed to be maintained from River Bed (m)	Not applicable
16.	Minimum buffer distance from bridge piers / water intake wells / irrigation structures	NH – 8B bridge 11.18 Km
17.	Maximum depth of sand removal (3 m or water depth whichever is less)	Not Applicable
18.	Width of Riverbed (m)	Not Applicable
19.	Average depth of water at lease area (m)	35-40 m
20.	Depth of mining (m)	20 m
21.	Ground Water Table in meter BGL	35-40 bgl
22.	Does ground water interfere approach road exit? (Yes / No) If yes, status report of CGWA	No
23.	Distance between lease and main road	1.12 km
24.	Length of kaccha road (m)	1.12 km
25.	Length of pacca road (m)	No
26.	Plan for making pacca road	No
27.	Source of fresh water	Drinking water will be Purchase from nearby water suppliers. And for the dust suppression and plantation will be Purchase from nearby tanker suppliers
28.	Water requirement (KLPD)	Total – 5.90 KLD
	a. Domestic	1.0 KLD
	b. Dust suppression	2.9 KLD
	c. Gardening / Green belt development	2.0 KLD
	d. others	-
29.	Whether the Undertaking is submitted for identical information provided in Form I, Approved Mining Plan, Project Details validated by District Geologist, Pre-Feasibility Report, Lease Document, Environment Management Plan and other documents	No

B. Environmental Sensitivities:

Sr No.	Environmental Sensitivities	Actual Distance	Minimum Distance	Reference
1.	Residential	Amrapar village- 1.71 km (population- 2100 As per 2011 Census)	100 m (Blasting is not involved)	As per CPCB Distance Criteria And order of of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020
	Public buildings	Amrapar Primary School = 1.78 Km		
	Inhabited sites	Nil		
	Protected monuments,	Kirti mandir - 46.48 km		
	Heritage sites	Dhank jain Caves Archological Site– 10 km		
	National / State Highway	SH-32= 11.57 km NH-8B = 10.25 Km		
	District roads	6.22 km		
	Public roads	1.12 Km		
2.	Railway line / area	Railway Track 18.30 Km		
	Ropeway or Ropeway trestle or station	Vansjaliya Railway station- 18.41 Km		
	Bridges	NH – 8B bridge 11.18 Km		
	Dams	Saran Dam Sindhpur - 6.29 Km		
	Reservoirs	Water Reservoirs – 1.36 Km		
	River	Seasonal River Stream 1.00 km		
	Canal	Nil		
	Lakes	lake 7.75 km in W		
	Tanks	Nil		
3.	Eco-Sensitive Zone (if notified)	Distance of Khiijadiya eco sensitive zone- 83.96 km	>1 km / outside the notified Eco-Sensitive Zone	Vide directives of MOEF&CC dtd 16.07.2020

4.	Eco-Sensitive Zone (if not notified)	Not Applicable	>1 km and <10 km = Prior Clearance from NBWL is required	Vide directives of MOEF&CC dtd 16.07.2020
5.	Distance of Coastal line from the site	41 Km	>500 M from HTL	Amended CRZ Notification 2011

C. Details of Mining:

1.	Method of Mining (Manual / Semi-mechanized / Mechanized).	Semi-mechanized
2.	Equipment's to be used for Mining bulldozers, hydraulic excavators, JCB, scrapers, loaders, Diesel Pump, etc.)	Hydraulic excavators, Hydraulic breaker loaders
3.	Whether it includes blasting?	Not Applicable
4.	Details of Authorized Blasting Agency with date of validity certificate	Not Applicable
5.	Procedure / SOP (in brief)	Not Applicable
6.	Details of Blasting Parameters in brief	Not Applicable
7.	Frequency of blasting	Not Applicable
8.	Impact of blasting	Not Applicable
9.	Outcome of Vibration study	Not Applicable
10.	Blasting Activity Management Plan	Not Applicable
11.	Use of any Chemical with quantity	Not Applicable
12.	Precautions taken for Human Safety in brief	Not Applicable
13.	Crusher provided? If Yes, Measures taken for Air Pollution Control	Not Applicable
14.	Compliance of DGMS Guidelines for Blasting	Not Applicable
15.	Compliance of Sustainable Sand Mine Guidelines published by MoEFCC in 2016	Not Applicable
16.	Whether Replenishment Rate Study is approved by District Geologist? If yes, conclude in brief	No

D. Details of Green Belt Development:

1.	a. Green belt development budget	1.02 lac
	b. Green belt area / location	Alng the statuary barrier and at approach road
	c. No. of trees to be planted	250
	d. Types of trees to be planted	Indigenous, Charu, Khakhara

E. Details of Environment Management Plan:

1.	**Details of EMP**	**Impact**	**Mitigation Measures**

		a. Land Environment	By the extraction of mineral from the lease area impacts to change the land pattern	Restoration of land environment will be done by developing as a Grass land and remaining pit area will be developed as water reservoir by maintaining a slope of 45 degree and fencing around the water reservoir area. .
		b. Water Environment	Pollution of surface run off. Depletion of ground water table.	❖ Ground water table is about 35-40-meter. ❖ Mining will be done till depth of 20 meters from general ground level. ❖ Mining shall not intersect ground table. Domestic wastewater shall be disposed of through septic tank- soak pit
		c. Air Environment	1.Gaseous emission from vehicles and machineries used 2. Dust Pollution	❖ Proponent will Spend Rs 1,68,000 per year for sprinkling to internal road, loading point all transfer points. ❖ Proponent will develop green belt around the lease area with Rs 62,500 and will spend Rs 8,000 per year for the maintenance and replenishment of the plants. ❖ Attached road shall be sprinkle with water daily to prevent fugitive emission during vehicular. Speed of vehicle will only restrict to the 20 km/hour on Kutcha road. ❖ Vehicles used in mines and transportation shall be maintained well to mitigate the fugitive emission.
		d. Noise Environment	Noise due to working through heavy machinery.	❖ Ear muffs will be used during high noise activity. Regular maintenance of machineries shall be done
		e. Biological Environment	Nil	Nil
		f. Human Environment		❖ Suitable and properly maintained first-aid outfit

			should be kept at the mine for use in case of accident ❖ Safety equipment's like dust masks and ear muffs etc. ❖ Health camps shall be arranged for local villagers and workers.
	g. Others		
2.	Occupational health & safety measures as per DGMS	Nil	
3.	Safety measures proposed		
	a. Is First Aid facility provided by PP?	yes	
	b. Details of PPEs	Safety helmet, Hand gloves Shoes etc.	
	c. Whether Registration of Workers under Building and other Construction Workers' (regulation of Employment & Conditions of Service) Act, 1996 and as Beneficiaries with the Gujarat Building and other Construction Workers Welfare Boards is obtained or not?	Will be done after the agreement of the lease.	
	d. Insurance of Workers	Nil	
	e. Health checkup plan of workers	Every six-monthly plan for Health management.	

F. Transportation:

1.	No. of vehicles per day carrying Minerals	16
2.	Fugitive dust emission control measures	Attached road with lease shall be sprinkle with water daily to prevent fugitive emission during vehicular. Speed of vehicle will only restrict to the 20 km/hour on Kutcha road
3.	Route plan in brief	Kachha road is 408 M about connected with State Highway- 143.

G. Financial details of the Project:

1.	Total cost of the project (Lakh)	3.09 Cr
	a. Upfront cost (Lakh)	Nil
	b. Performance Security (Lakh)	Nil
	c. Total Royalty (Lakh)	146.91 Lakh
	d. Weigh Bridge Cost (Lakh)	8.0 Lakh

	e. Labor cost equipment (Lakh)	Labor cost- 58..0 lakh Equipment- 70.00 lac
	f. Environment protection and implementation cost (Lakh)	14.40 lakh
	g. Green Belt Development & maintenance cost (Lakh)	1.02 lakh
	h. Cost of EMP (Lakh)	----
	i. Cost of Safety measures (Lakh)	3.75 lakh
	j. Cost of Post-Closure Mine Plan (Lakh)	7.50 Lakh
2.	Budget allocated for CER (Lakh)	6.98 lakh
3.	Is need based survey for CER carried out? (Yes / No) If yes, give details of activities along with Budgetary Outlay	NO

H. Restoration / Reclamation Plan:

1.	Restoration / Reclamation Details	Restoration of land environment will be done in such a manner that flora fauna and plantation will flourish and also the area can be used for water harvesting and agriculture purposes.
2.	Post mining closure plan	• As per approved mining plan recovery of mineral is 100 %. • At the end Lessee will Develop Green belt in the statuary barrier area .and back filled area with the Desi Bavad, Imli, Ashoka, Gulmohar. • At the end of mine about 4 feet high boundary/Peripheral wall with barbed will be fenced around the water reservoir area. Water Reservoir will be used for water harvesting and agriculture purpose
3.	Backfilling material and its quantity	No Overburden generated from mine.
4.	Size of void for Rain Water Harvesting after backfilling	2.08.80 Ha.
5.	Post Closure Liability / Safety aspects and Measures to be taken to avoid wild life and human accidents/ causalities	I. Will be fenced around the water reservoir area. II. 7.5-meter-thick green belt will be developed around the statuary barrier. Slop of 45 degree will be maintained in the pit.
6.	Display of Caution Boards at strategic locations on the periphery of the pit area	yes
7.	Final Use of reservoir/ reclaimed land	Water Harvesting

I. Details of Legal Action / Court Case:

1.	Details of Pending Court matter / Public Litigation Cases in any court of Law	No

2.	Details of Action taken by GPCB, if any	No
3.	Details of public complaint, if any	No
4.	Compliance of EC by RO-GPCB or MoEFCC-Bhopal	No

Deliberation:

The committee noticed that SEAC is in receipt of complaint letter dated 21.12.2020 from Shri Dharmeshbhai Nathabhai Odedara, Pransala, Upleata and Shri Bhikhabhai Devabhai Pata, Parvada, Jamjodhpur, Jamnagar. The complaint letter is also sent to the Geologist, Jamnagar. The committee perused the complaint letter and found that

1. the applicant has aggrieved against the process of obtaining TOR application for the proposal of Shri Jeevabhai Nathabhai Khunti, Jamnagar, lease area 02.00.00 Ha located at Survey No. 465 (Part) QL No. 11774, Amrapar village, Jmjodhpur, Jamnagar.
2. Also a legal matter vide SCA No. 21468 of 2019 related to the land ownership is pending before the Hon. High Court of Gujarat.

Therefore, the committee unanimously decided to write a letter to CGM requesting to verify the ownership of the land and the lease area allocated to the lease holder Shri Jeevabhai Nathabhai Khunti and send the factual report to SEAC for further processing of application for TOR.

And in accordance to the above, the Committee asked the PP to approach before the Committee with proposal along with Hon. High Court Judgment in one of the upcoming meetings for appropriate consideration for TOR. It is further decided to keep the proposal delisted.

10. BLACK TRAP MINING, DIST: KUTCH

Application No	Name of Project	S. No.	Village	Taluka	Dist	Lease Area	Validity of lease	ROM	Nearest Human Habitation	End Use	Investment in Rs	Date of Application Received by SEAC

SIA/GJ/MIN/56591/2020	ShriJaysukhbhaiMuljibhaiGorani	639 Paiki& QL No-13401 New Project	Kera	Bhuj	Kutch	2.70.26 Ha	LoI issued on 06.02.2017 for 10 years	133334 MTPA	Baladia–740 m	Construction	50 Lakh	04.11.2020

The project falls under B1 Category – 1(a), i.e. Mining of Minerals as per the provision of EIA Notification, 2006. Project Proponent has applied to obtain Terms of Reference (TOR) for mining of Black Trap.

A. Basic Information of the Project:

1.	Name of Project as per Form I	**Shri Jaysukhbhai Muljibhai Gorani**
2.	Address of the lease	Village: Kera Taluka: Bhuj District: Kutch State: Gujarat
3.	Name of lease holder	**Shri Jaysukhbhai Muljibhai Gorani**
4.	Lease area (Ha)	2.70.26 Hect.
5.	Cluster Details	Cluster ID-10
	a. Total no. of leases in the cluster	18
	b. No. of TOR granted in cluster	Nil
	c. No. of EC granted in cluster	Nil
	d. Total area of the cluster	66.96.86
	e. Maximum individual lease area	9.90.00
	f. Minimum individual lease area	1.50.00
6.	Validity of lease with the date of expiry	10 year from the date of LOI issued.
7.	Rate of Mining (MT/Annum)	1,33,334MTPA
8.	Details of EC obtained (for expansion projects), if any	Nil
9.	Name of River Bed	Not Applicable
10.	Is the river perennial / non-perennial	Not Applicable
11.	Lease area (submerged / in stream / on dry river bed)	Not Applicable

12.	All coordinates of the lease area as per Approved Mining Plan	Pillar | GPS -COORDINATE 1. 564106.3928 E 2552887.0049 N 2. 564281.1929 E 2552801.4529 N 3. 564313.6003 E 2552699.9743 N 4. 564290.6793 E 2552669.9766 N 5. 564169.0296 E 2552697.0287 N 6. 564113.6719 E 2552807.9196 N 7. 564083.3974 E 2552814.7799 N
13.	Manpower requirement	12
14.	Applicability of CRZ Notification	Not applicable
15.	Minimum Setback distance proposed to be maintained from River Bed (m)	Not applicable
16.	Minimum buffer distance from bridge piers / water intake wells / irrigation structures	State Highway Small Bridge- 6.92 km from lease area.
17.	Maximum depth of sand removal (3 m or water depth whichever is less)	Not Applicable
18.	Width of Riverbed (m)	Not Applicable
19.	Average depth of water at lease area (m)	Not Applicable
20.	Depth of mining (m)	18 m
21.	Ground Water Table in meter BGL	30-35 bgl
22.	Does ground water interfere approach road exit? (Yes / No) If yes, status report of CGWA	No
23.	Distance between lease and main road	615 m
24.	Length of kaccha road (m)	248 m
25.	Length of pacca road (m)	Nil
26.	Plan for making pacca road	No
27.	Source of fresh water	Drinking water will be Purchase from nearby water suppliers. And for the dust suppression and plantation will be Purchase from nearby tanker suppliers
28.	Water requirement (KLPD)	Total –3.53 KLD
	a. Domestic	0.56 KLD
	b. Dust suppression	0.81 KLD
	c. Gardening / Green belt development	2.16 KLD
	d. others	-
29.	Whether the Undertaking is submitted for identical information provided in Form I, Approved Mining Plan, Project Details validated by District Geologist, Pre-Feasibility Report, Lease Document, Environment Management Plan and other documents	No

B. Environmental Sensitivities:

Sr No.	Environmental Sensitivities	Actual Distance	Minimum Distance	Reference

1.	Residential	Kera = 2.41 Km, Baladia- 740 M (Baladia population- 5470 As per 2011 Census)	200 m (When Blasting is involved)	As per CPCB Distance Criteria And order of of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020
	Public buildings	Primary Hospital at Bhuj = 2.18 km		
	Inhabited sites	Nil		
	Protected monuments,	Lakheshwar Shiva Temple- 3.33 Km		
	Heritage sites	Sharad Baug Palace – 19.14 Km		
	National / State Highway	SH-48 = 7.21 km SH-47 = 7.96 km		
	District roads	610 M		
	Public roads	225 M		
	Railway line / area	Railway Track – 14.26 Km		
	Ropeway or Ropeway trestle or station	Bhuj Railway station- 22.98 Km		
	Bridges	SH 48 - Small Bridge- 6.92 Km		
	Dams	Dam = 9.71 Km		
	Reservoirs	Gajod Reservoir = 9.50 km		
	River	River Stream = 2.61 Km		
	Canal	Nil		
	Lakes	Babiya lake – 7.31 km		
	Tanks	Nil		
2	Eco-Sensitive Zone (if notified)	Distance of Eco sensitive zone of Kutch Desert wildlife Sanctuary is About 40.29 Km	>1 km / outside the notified Eco-Sensitive Zone	Vide directives of MOEF&CC dtd 16.07.2020
3	Eco-Sensitive Zone (if not notified)	Not Applicable	>1 km and <10 km = Prior Clearance from NBWL is required	Vide directives of MOEF&CC dtd 16.07.2020
4	Distance of Coastal line from the site	32.98 Km	>500 M from HTL	Amended CRZ Notification 2011

C. Details of Mining:

1.	Method of Mining (Manual / Semi-mechanized / Mechanized).	Semi-mechanized
2.	Equipment's to be used for Mining bulldozers, hydraulic excavators, JCB, scrapers, loaders,	Hydraulic excavators, JCB, loaders

	Diesel Pump, etc.)	
3.	Whether it includes blasting?	Yes
4.	Details of Authorized Blasting Agency with date of validity certificate	Not Applicable
5.	Procedure / SOP (in brief)	Drilling- 3-6 meter Planting of Blasting Material- Geleting and Connecting in a circuit with detonator Blasting
6.	Details of Blasting Parameters in brief	❖The diameter of holes used in all the blasts will be 100 mm. ❖The depth of blast holes generally will be 6 m. ❖The total number of holes in a blasting round will be varying from 5 to 50. ❖Burden and spacing values in all the blasts will be depend on depth and diameter of holes. ❖The ground Vibration recorded in all the blasts near the residential/domestic and industrial structures were within safe limit as per DGMS circular 7 of 1997. ❖No fly rock will be observed in any controlled blasting. The throws of the blasted materials will be also control and restrict within the blasting areas only. ❖Before blasting the upper surface of the bench shall be cleaned off any stones lying above. ❖The control of fly rock will achieve through proper blast design patterns along with their proper implementation and supervision of the total blasting operations. Blasting shall be done by using short delay detonator to reduce ground vibration and control blasting shall be practiced only in Day time
7.	Frequency of blasting	Once in a weak
8.	Impact of blasting	• Fire and Explosion and dust generation • Noise generation
9.	Outcome of Vibration study	We will be submitted with EIA report
10.	Blasting Activity Management Plan	❖ Blasting to be performed strictly as per the guidelines specified under MMR,1961; ❖ Proper design of blast with correct spacing, burden and optimum

<table>
<tr><td></td><td></td><td>charge/delay;
❖ Supervision of drilling and blasting operations to ensure blast design geometry as per planning;
❖ Sub-drilling will be kept adequate to eliminate toe formation;
❖ Blasting operations will be carried out only during day time as per DGMS guidelines;
❖ Proper warning signals will be used;
❖ Adequate safe distance from habitation as per standards from center of blasting be maintained;
❖ Drilling parameters like burden, depth, diameter and spacing will be properly designed to ensure proper blast;
Effective stemming of the explosives be done in the drill holes</td></tr>
<tr><td>11.</td><td>Use of any Chemical with quantity</td><td>1.A.N.F.O (A.N. 95%, F.O6%)
2.Special Gelatine</td></tr>
<tr><td>12.</td><td>Precautions taken for Human Safety in brief</td><td>❖ Suitable and properly maintained first-aid outfit should be kept at the mine for use in case of accident
❖ Safety equipment’s like dust masks and ear muffs etc.
❖ Safety helmet where falling objects may create a hazard shall be provided.
❖ Health camps shall be arranged for local villagers and workers.</td></tr>
<tr><td>13.</td><td>Crusher provided? If Yes, Measures taken for Air Pollution Control</td><td>Nil</td></tr>
<tr><td>14.</td><td>Compliance of DGMS Guidelines for Blasting</td><td>
<table>
<tr><th>S. No.</th><th>DGMS Guideline for Blasting (As per MMR 1961)</th><th>Compliance</th></tr>
<tr><td>1</td><td>Blasting should be done only by the authorized blaster</td><td>Blasting will be done by the authorized blaster.</td></tr>
<tr><td>2</td><td>Blasting will be done in noon time</td><td>Blasting always done in noon time, when there will be no local farmer working in</td></tr>
</table>
</td></tr>
</table>

					their fields.	
			3	Horn or whistle should be kept at side to blow before blasting	Horn will be equipped at the mining site, will blow ½ hour before blasting	
			4	Blasting material like Nitrate mixture and gelatin should be kept separate and safely for security.	Mine holder will not store any type of blasting material or equipment ,blaster will take care of that.	
			5	Noise level should not exceed 145 DB at time of blasting at 4 meter distance from the point of bursting.	Only control blasting and wet drilling will be done .Which will comply this condition.	
			6.	A distance of 15 meters surrounding the magazine or store house shall be kept clear of dried grass or bash or flammable materials	Blaster will comply this.	
			7.	Where in any mine or part it is proposed to work by a system of deep-hole blasting and/or with the help of heavy machinery for its digging, excavation and removal in such manner as would not permit of compliance with the requirement of sub-regulation (1) the owner, agent or manager shall, not less than 60 days before starting such work, give notice in writing of the method	Will be comply	

				of working to the Chief Inspector and the Regional Inspector; and no such work shall be commenced to carried out except in accordance with accordance with such conditions as the Chief Inspector may specify by an order in writing. Every such notice shall be in duplicate, and shall give the details of the method of working including the precautions that are proposed to be taken against the anger from falls of sides and material. (Rule no. 106(2)(B)		
			8	Every magazine, or store or premises, where explosives are stored shall be inchargeofacompetent personwho shall be responsible for the proper receipt, storage an issue of explosives. **Rule no. 156 (1)**	Not any explosives and magazines will store at mining site.	
			9	Explosives shall be issued only to competent persons upon written requisition signed by the blaster or by a official authorized for thepurpose, and only against their signature or thumb impression. Such requisitionshall be preserved by the person in charge of the magazine or store or premises. **(Rule no.**	Authorized Blaster will take care .	

				156 (3)		
			10	The person in charge of the magazine or store or premises shall maintain, in a bound paged book kept for the purpose, a clear and accurate record of explosives issued to each competent person and a similar record of explosives returned to the magazine or store or premises. **Rule no. 156 (4)**	No Blasting material will store at the mining site.	
			11	The preparation of charges an the charging and stemming of holes shall be carried out by or under the personal supervision of a competent person, in these regulations referred to as a 'blaster'. The blaster shall fire the shots himself. **Rule no. 160 (1)**	Will be comply	
			12	No person shall be appointed to be a blaster unless he is the holder of Manager's, Foreman's Mate's or Blaster's certificate. **Rule no. 160 (2)**	Lease owner will appoint a mining mate	
			13	Provided further that if the shortest distance from the place of firing to any part of such building or structure is less than 50 meters irrespective of the amount of the charge, no blasting shall be done except with the	Not any permanent residential or commercial infrastructure building is falling under 200 meter radius of the lease area.	

				permission in writing of the Chief Inspector or the Regional Inspector and subject to such conditions as he may specify therein. **Rule no. (164 (1-B)(a)**	
15.	Compliance of Sustainable Sand Mine Guidelines published by Mo EFCC in 2016	Not Applicable			
16.	Whether Replenishment Rate Study is approved by District Geologist? If yes, conclude in brief	Not applicable			

D. Details of Green Belt Development:

1.	a. Green belt development budget	67,500 Rs
	b. Green belt area / location	At statuary barrier and approach road
	c. No. of trees to be planted	270
	d. Types of trees to be planted	Indigenous

E. Details of Environment Management Plan:

1.	**Details of EMP**	**Impact**	**Mitigation Measures**
	a. Land Environment	By the extraction of mineral from the lease area impacts to change the land pattern	Restoration of land environment will be done in such a manner that flora fauna and plantation will flourish and also the area can be used for water harvesting and agriculture purposes
	b. Water Environment	During rains water will precipitate within the Lease mine and in the vicinity. Water flows in its normal course. There will be no hindrance or sudden rush of water due to mining activities, which may lead to erosion of water At the 'conceptual stage' as area of a part of the Lease area will be converted into water reservoir which will serve as recharge	**Surface Water Management** (i). Proper imitative measures will be taken up to control the pollutants within prescribed standards and limiting the emissions to site only. (ii). Garland drains will be provided to prevent the entry of rainwater into the mining pit. **Ground Water Management** (i). Mining shall not intersect the ground water table of the area. (ii). Natural pits will be used for rainwater conservation and harvesting. (iii). Rain water harvesting practices shall be done

			pits. Besides, there will be no toxic element in the mined out material, which may contaminate ground/ surface water. It is, therefore apparent that there will be negligible impact of mining on the surface water regime. **Impact on Ground Water** The water table in this region is at a depth of 60-65 m below general ground level. Mining will be carried out above the ground water table. No chemical having toxic elements will be used for carrying out mining activity. Also, neither Building Stone nor overburden contains any kind of toxic element which can contaminate the water. Rainwater expected to be accumulated in the pit will be pumped out and will be discharged into storm water drains provided for the purpose which will join the natural surface water drains existing in the area.	which will lead to ground water recharge. (iv). At the end of the life of mine artificial water reservoir shall be prepared. **Water Conservation** The project does not consume any process water except for drinking, dust suppression and plantation. Plantation is proposed, which will increase the water holding capacity and help in recharging of ground water. Artificial rainwater harvesting is proposed for the present project	

			The mining pits will create water harvesting that will increase the water table.	
		c. Air Environment	1.Gaseous emission from vehicles and machineries used 2. Dust Pollution	❖ Proponent will Spend Rs 63,180 per year for sprinkling to internal road, loading point all transfer points. ❖ Proponent will develop green belt around the lease area with Rs 67,500 and will spend Rs 6,500 per year for the maintenance and replenishment of the plants. ❖ Attached road shall be sprinkle with water daily to prevent fugitive emission during vehicular. Speed of vehicle will only restrict to the 20 km/hour on Kutcha road. ❖ Vehicles used in mines and transportation shall be maintained well to mitigate the fugitive emission.
		d. Noise Environment	Noise due to working through heavy machinery.	❖ Ear muffs will be used during high noise activity. Regular maintenance of machineries shall be done
		e. Biological Environment	Nil	Nil
		f. Human Environment		❖ Suitable and properly maintained first-aid outfit should be kept at the mine for use in case of accident ❖ Safety equipment's like dust masks and ear muffs etc. ❖ Health camps shall be arranged for local villagers and workers.
		g. Others		
	2.	Occupational health & safety measures as per DGMS	Nil	
	3.	Safety measures proposed		
		a. Is First Aid facility provided by PP?	yes	
		b. Details of PPEs	Safety helmet, Hand gloves Shoes etc.	
		c. Whether Registration of Workers under Building and other Construction Workers'	Will be done after the agreement of the lease.	

	(regulation of Employment & Conditions of Service) Act, 1996 and as Beneficiaries with the Gujarat Building and other Construction Workers Welfare Boards is obtained or not?	
	d. Insurance of Workers	Nil
	e. Health checkup plan of workers	Every six-monthly plan for Health management.

F. Transportation:

4.	No. of vehicles per day carrying Minerals	3-4 No of Truck
5.	Fugitive dust emission control measures	Attached road with lease shall be sprinkle with water daily to prevent fugitive emission during vehicular. Speed of vehicle will only restrict to the 20 km/hour on Kutcha road
6.	Route plan in brief	Kachha road is about 248 m connected with local MDR Road, local MDR Road connected with SH-48

G. Financial details of the Project:

1.	Total cost of the project (Lakh)	6.59 Cr.
	a. Upfront cost (Lakh)	
	b. Performance Security (Lakh)	
	c. Total Royalty (Lakh)	2.81 Cr
	d. Weigh Bridge Cost (Lakh)	Nil
	e. Labor cost equipment (Lakh)	Labor cost – 46.80 lac Equipment (Hitachi & Dumper)- 80 lac Drilling & blasting = 2.49 Cr
	f. Environment protection and implementation cost (Lakh)	8.15 lakh
	g. Green Belt Development & maintenance cost (Lakh)	1.0 lakh
	h. Cost of EMP (Lakh)	Nil
	i. Cost of Safety measures (Lakh)	Safety Cost = 3,00,000 Rs Fencing cost + LPS = 0.95
	j. Cost of Post-Closure Mine Plan (Lakh)	9.50 lac
2.	Budget allocated for CER (Lakh)	7.98 lac
3.	Is need based survey for CER carried out? (Yes / No) If yes, give details of activities along with Budgetary Outlay	No

H. Restoration / Reclamation Plan:

	1.	Restoration / Reclamation Details	❖ Restoration of land environment will be done in such a manner that flora fauna and plantation will flourish and also the area can be used for water harvesting and agriculture purposes.
	2.	Post mining closure plan	• As per approved mining plan recovery of mineral is 90 % and 10 % waste will generate so about 62,449 MT will be generated throughout the mining which will be used for back filling in the lease area • At the end Lessee will Develop Green belt in the statuary barrier area .and back filled area with the Desi Bavad, Imli, Ashoka, Gulmohar. • At the end of mine about 4 feet high boundary/Peripheral wall with barbed will be fenced around the water reservoir area. Water Reservoir will be used for water harvesting and agriculture purpose
	3.	Backfilling material and its quantity	Waste or sub-grade generated from mine. 62,449 MT
	4.	Size of void for Rain Water Harvesting after backfilling	1.48.96 Hect
	5.	Post Closure Liability / Safety aspects and Measures to be taken to avoid wild life and human accidents/ causalities	III. Will be fenced around the water reservoir area. IV. 7.5-meter-thick green belt will be developed around the statuary barrier. V. Slop of 45 degree will be maintained in the pit.
	6.	Display of Caution Boards at strategic locations on the periphery of the pit area	yes
	7.	Final Use of reservoir/ reclaimed land	Water Harvesting
I.	**Details of Legal Action / Court Case:**		
	1.	Details of Pending Court matter / Public Litigation Cases in any court of Law	No
	2.	Details of Action taken by GPCB, if any	No
	3.	Details of public complaint, if any	No
	4.	Compliance of EC by RO-GPCB or MoEFCC-Bhopal	No

Deliberation:

Committee deliberated on the method of mining, blasting frequency, no. of working days and hours etc. Distance of Environmental Sensitivities from the lease area was discussed. CER, EMP, Green Belt area was also discussed.

After screening and scoping for the aforementioned proposal, committee decided to consider the proposal under B1 category & Hon'ble National Green Tribunal Order dated 13 September 2018 in view. It was decided to recommend TOR approved by SEIAA on 07/03/2019 for **Non Sand Mining with Blasting** for conducting the EIA study to be done for cluster situation evaluating cumulative impact of the mining leases in cluster considering 10 Km radius from the periphery of the mine lease area including public hearing including project specific TOR as per **Annexure II.**

11. BUILDING LIMESTONE MINING, DIST: PORBANDAR

Application No	Name of Project	S. No.	Village	Taluka	Dist	Lease Area	Validity of lease	ROM	Nearest Human Habitation	End Use	Investment in Rs	Date of Application Received by SEAC
SIA/GJ/MIN/55908/2020	Shri. KishorbhaiDevshibhaiBhutiya	Survey No.-52/4/1 Paiki New Project	Balej	Porbandar	Porbandar	1.00.00 Ha	LoI issued on 16.01.2019 for 6.55 years	6028 MTPA	Untada – 1.63 km	Cement Industry	50 Lakh	04.11.2020

The project falls under B1 Category – 1(a), i.e. Mining of Minerals as per the provision of EIA Notification, 2006. Project Proponent has applied to obtain Terms of Reference (TOR) for mining of Building Limestone.

A. Basic Information of the Project:

1.	Name of Project as per Form I	**Kishorbhai Devshibhai Bhutiya**
2.	Address of the lease	Village: Balej Taluka: Porbandar, District: Porbandar State: Gujarat
3.	Name of lease holder	**Kishorbhai Devshibhai Bhutiya**
4.	Lease area (Ha)	1.00.00 Ha.
5.	Cluster Details	**Cluster ID – CLUSTER POR - 6**
	a. Total no. of leases in the cluster	62
	b. No. of TOR granted in cluster	Nil
	c. No. of EC granted in cluster	Nil
	d. Total area of the cluster	50.25.41 Ha.
	e. Maximum individual lease area	0.29.00 Ha.
	f. Minimum individual lease area	1.61.88 Ha.
6.	Validity of lease with the date of expiry	5 Years
7.	Rate of Mining (MT/Annum)	6,028
8.	Details of EC obtained (for expansion projects), if any	Nil
9.	Name of River Bed	Not applicable
10.	Is the river perennial / non-perennial?	Not applicable
11.	Lease area (submerged / in stream / on dry river bed)	Not applicable
12.	All coordinates of the lease area as per Approved Mining Plan	Pillars / Latitude / Longitude 1 / 21°21’40.37"N / 69°52’56.86"E 2 / 21°21’34.90"N / 69°52’57.68"E 3 / 21°21’34.27"N / 69°52’56.43"E 4 / 21°21’37.13"N / 69°52’55.66"E 5 / 21°21’38.43"N / 69°52’53.42"E
13.	Manpower requirement	15
14.	Applicability of CRZ Notification	Not applicable
15.	Minimum Setback distance proposed to be maintained from River Bed (m)	Not applicable
16.	Minimum buffer distance from bridge piers / water intake wells / irrigation structures	Canal - 9.16 km
17.	Maximum depth of sand removal (3 m or water depth whichever is less)	Not Applicable
18.	Width of Riverbed (m)	Not Applicable
19.	Average depth of water at lease area (m)	30-35 m
20.	Depth of mining (m)	3 m
21.	Ground Water Table in meter BGL	30-35 bgl
22.	Does ground water interfere approach road exit? (Yes / No) If yes, status report of CGWA	No

23.	Distance between lease and main road	660 m
24.	Length of kaccha road (m)	660 m
25.	Length of pacca road (m)	No
26.	Plan for making pacca road	No
27.	Source of fresh water	Drinking water will be Purchase from nearby water suppliers. And for the dust suppression and plantation will be Purchase from nearby tanker suppliers
28.	Water requirement (KLPD)	Total – 3.15 KLD
	a. Domestic	0.45 KLD
	b. Dust suppression	1.9 KLD
	c. Gardening / Green belt development	0.8 KLD
	d. others	-
29.	Whether the Undertaking is submitted for identical information provided in Form I, Approved Mining Plan, Project Details validated by District Geologist, Pre-Feasibility Report, Lease Document, Environment Management Plan and other documents	No

B. Environmental Sensitivities:

Sr No.	Environmental Sensitivities	Actual Distance	Minimum Distance	Reference
1.	Residential	Balej village- 1.88 km (population- 6392 As per 2011 Census)	100 m (Blasting is not involved)	As per CPCB Distance Criteria And order of of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020
	Public buildings	Primary School at Untada = 1.94 Km		
	Inhabited sites	Habitation- 709 m		
	Protected monuments,	108 Jain Temple – 2.12 km		
	Heritage sites	Gandhiji's Birth Place – 42.53 km		
	National / State Highway	SH- 6 = 591 m NH-8B = 29.75 Km		
	District roads	591 m		
	Public roads	591 m		
2.	Railway line / area	Railway Track 38.60 Km		

	Ropeway or Ropeway trestle or station	Keshod Railway station- 38.60 Km		
	Bridges	Bhadar bridge (Porbandar Veraval Highway) 13.32 Km		
	Dams	Amipur Dam- 9.14 Km		
	Reservoirs	Water Reservoirs – 9.12 Km		
	River	Bhadar River 13.36 km		
	Canal	9.16 km		
	Lakes	Miti Village lake 14.34 km		
	Tanks	Nil		
3.	Eco-Sensitive Zone (if notified)	Distance of Eco sensitive Zone of Barda wildlife Sanctuary - 37.68 km	>1 km / outside the notified Eco-Sensitive Zone	Vide directives of MOEF&CC dtd 16.07.2020
4.	Eco-Sensitive Zone (if not notified)	Not Applicable	>1 km and <10 km = Prior Clearance from NBWL is required	Vide directives of MOEF&CC dtd 16.07.2020
5.	Distance of Coastal line from the site	1.42 Km	>500 M from HTL	Amended CRZ Notification 2011

C. Details of Mining:

1.	Method of Mining (Manual / Semi-mechanized / Mechanized).	Semi-mechanized
2.	Equipment's to be used for Mining bulldozers, hydraulic excavators, JCB, scrapers, loaders, Diesel Pump, etc.)	Hydraulic excavators, Hydraulic breaker loaders
3.	Whether it includes blasting?	Not Applicable
4.	Details of Authorized Blasting Agency with date of validity certificate	Not Applicable
5.	Procedure / SOP (in brief)	Not Applicable
6.	Details of Blasting Parameters in brief	Not Applicable
7.	Frequency of blasting	Not Applicable
8.	Impact of blasting	Not Applicable
9.	Outcome of Vibration study	Not Applicable

10.	Blasting Activity Management Plan	Not Applicable
11.	Use of any Chemical with quantity	Not Applicable
12.	Precautions taken for Human Safety in brief	Not Applicable
13.	Crusher provided? If Yes, Measures taken for Air Pollution Control	Not Applicable
14.	Compliance of DGMS Guidelines for Blasting	Not Applicable
15.	Compliance of Sustainable Sand Mine Guidelines published by MoEFCC in 2016	Not Applicable
16.	Whether Replenishment Rate Study is approved by District Geologist? If yes, conclude in brief	No

Details of Green Belt Development:

1.	a. Green belt development budget	47,500
	b. Green belt area / location	Along the statuary barrier and at approach road
	c. No. of trees to be planted	100
	d. Types of trees to be planted	Indigenous, Charu, Khakhara

D. Details of Environment Management Plan:

1.	**Details of EMP**	**Impact**	**Mitigation Measures**
	a. Land Environment	By the extraction of mineral from the lease area impacts to change the land pattern	Restoration of land environment will be done by developing as a Grass land and remaining pit area will be developed as water reservoir by maintaining a slope of 45 degree and fencing around the water reservoir area. .
	b. Water Environment	Pollution of surface run off. Depletion of ground water table.	❖ Ground water table is about 30-35-meter. ❖ Mining will be done till depth of 3 meters from general ground level. ❖ Mining shall not intersect ground table. Domestic wastewater shall be disposed of through septic tank- soak pit
	c. Air Environment	1.Gaseous emission from vehicles and machineries used 2. Dust Pollution	❖ Proponent will Spend Rs 1,02,960 per year for sprinkling to internal road, loading point all transfer points. ❖ Proponent will develop green belt around the lease area with Rs 25,000 and will spend Rs 4,500 per year for the maintenance and

				replenishment of the plants. ❖ Attached road shall be sprinkle with water daily to prevent fugitive emission during vehicular. Speed of vehicle will only restrict to the 20 km/hour on Kutcha road. ❖ Vehicles used in mines and transportation shall be maintained well to mitigate the fugitive emission.
		d. Noise Environment	Noise due to working through heavy machinery.	❖ Ear muffs will be used during high noise activity. Regular maintenance of machineries shall be done
		e. Biological Environment	Nil	Nil
		f. Human Environment		❖ Suitable and properly maintained first-aid outfit should be kept at the mine for use in case of accident ❖ Safety equipment's like dust masks and ear muffs etc. ❖ Health camps shall be arranged for local villagers and workers.
		g. Others		
	2.	Occupational health & safety measures as per DGMS	Nil	
	3.	Safety measures proposed		
		a. Is First Aid facility provided by PP?	yes	
		b. Details of PPEs	Safety helmet, Hand gloves Shoes etc.	
		c. Whether Registration of Workers under Building and other Construction Workers' (regulation of Employment & Conditions of Service) Act, 1996 and as Beneficiaries with the Gujarat Building and other Construction	Will be done after the agreement of the lease.	

	Workers Welfare Boards is obtained or not?	
	d. Insurance of Workers	Nil
	e. Health checkup plan of workers	Every six-monthly plan for Health management.

E. Transportation:

1.	No. of vehicles per day carrying Minerals	15
2.	Fugitive dust emission control measures	Attached road with lease shall be sprinkle with water daily to prevent fugitive emission during vehicular. Speed of vehicle will only restrict to the 20 km/hour on Kutcha road
3.	Route plan in brief	Kachha road is 660 M about connected with State Highway- 6.

F. Financial details of the Project:

1.	Total cost of the project (Lakh)	2.03 Cr
	a. Upfront cost (Lakh)	Nil
	b. Performance Security (Lakh)	Nil
	c. Total Royalty (Lakh)	15.07 Lakh
	d. Weigh Bridge Cost (Lakh)	Nil
	e. Labor cost equipment (Lakh)	Labor cost- 45.00 lakh Equipment- 98 Lakh
	f. Environment protection and implementation cost (Lakh)	11.14 lakh
	g. Green Belt Development & maintenance cost (Lakh)	0.60 lakh
	h. Cost of EMP (Lakh)	----
	i. Cost of Safety measures (Lakh) + Cost of fencing + LPS	4.55 lakh
	j. Cost of Post-Closure Mine Plan (Lakh)	7.00 Lakh
2.	Budget allocated for CER (Lakh)	4.07 lakh
3.	Is need based survey for CER carried out? (Yes / No) If yes, give details of activities along with Budgetary Outlay	NO

G. Restoration / Reclamation Plan:

1.	Restoration / Reclamation Details	Restoration of land environment will be done in such a manner that flora fauna and plantation will flourish and also the area can be used for water harvesting and agriculture purposes.
2.	Post mining closure plan	• As per approved mining plan recovery of mineral is 10 % Reject will generate so about 3,350 MT will be generated throughout the mining which will be used for back filling in the bench space. • At the end Lessee will Develop Green

			belt in the statuary barrier area .and back filled area with the Desi Bavad, Imli, Ashoka, Gulmohar. • At the end of mine about 4 feet high boundary/Peripheral wall with barbed will be fenced around the water reservoir area. Water Reservoir will be used for water harvesting and agriculture purpose
	3.	Backfilling material and its quantity	Reject generated from mine. 3,350 MT
	4.	Size of void for Rain Water Harvesting after backfilling	0.49.80 Ha.
	5.	Post Closure Liability / Safety aspects and Measures to be taken to avoid wild life and human accidents/ causalities	VI. Will be fenced around the water reservoir area. VII. 7.5-meter-thick green belt will be developed around the statuary barrier. Slop of 45 degree will be maintained in the pit.
	6.	Display of Caution Boards at strategic locations on the periphery of the pit area	yes
	7.	Final Use of reservoir/ reclaimed land	Water Harvesting
H.	**Details of Legal Action / Court Case:**		
	1.	Details of Pending Court matter / Public Litigation Cases in any court of Law	No
	2.	Details of Action taken by GPCB, if any	No
	3.	Details of public complaint, if any	No
	4.	Compliance of EC by RO-GPCB or MoEFCC-Bhopal	No

Deliberation:

Committee deliberated on CER, Green Belt, Adverse impacts on Environment and its mitigation measures etc. Safe distance of Environmental Sensitivities from the lease area was verified. PP informed the Committee that the lease is 1.42 km away from the HTL and showed the Superimposed Map.

After scoping for the aforementioned proposal, committee decided to consider the proposal under B1 category keeping cluster situation & Hon'ble National Green Tribunal Order dated 13 September 2018 in view, It was decided to recommend TOR approved by SEIAA on 07/03/2019 for **Non sand mining without blasting** for conducting the EIA study to be done for the proposals in cluster considering 10 Km radius from the periphery of the mine lease area including public hearing including additional TOR to SEIAA as per **Annexure – III**.

12. RIVERBED SAND & GRAVEL MINING, DIST: KUTCH

Application No	Name of Project	S.No.	Village	Taluka	Dist	Lease Area	Validity of lease	ROM	Nearest Human Habitation	End Use	Investment in Rs	Date of Application Received by SEAC
SIA/GJ/MIN/56813/2020	ShriZalaKuldipsinhRavindrasinh	Bhukhi River Bed Paiki opp. to survey No-459, & 459/P43. (Block-D) New Project	Patri	Mundra	Kutch	2.20.00 Ha	LoI issued on 03.09.2020 for 5 years	25775 MTPA	Patri – 930 m	Construction	30 Lakh	28.10.2020

The project falls under B1 Category – 1(a), i.e. Mining of Minerals as per the provision of EIA Notification, 2006. Project Proponent has applied to obtain Terms of Reference (TOR) for mining of Riverbed Sand& Gravel.

A. Basic Information of the Project:

1.	Name of Project as per Form I	**Shri Zala Kuldeepsinh Ravindrasinh**
2.	Address of the lease	Village: Patri Taluka: Mundra, District: Kutch State: Gujarat
3.	Name of lease holder	**Shri Zala Kuldeepsinh Ravindrasinh**
4.	Lease area (Ha)	2.20.00
5.	Cluster Details	
	a. Total no. of leases in the cluster	4
	b. No. of TOR granted in cluster	0
	c. No. of EC granted in cluster	0
	d. Total area of the cluster	8.80.00
	e. Maximum individual lease area	2.20.00
	f. Minimum individual lease area	2.20.00
6.	Validity of lease with the date of expiry	5 year from LOI issued.
7.	Rate of Mining (MT/Annum)	25,775 MTPA
8.	Details of EC obtained (for expansion projects), if any	Nil
9.	Name of River Bed	Bhukhi River Bed
10.	Is the river perennial / non-perennial?	non-perennial
11.	Lease area (submerged / in stream / on dry river bed)	On dry river bed
12.	All coordinates of the lease area as per Approved Mining Plan	
13.	Manpower requirement	9
14.	Applicability of CRZ Notification	Not applicable
15.	Minimum Setback distance proposed to be maintained from River Bed (m)	14 m
16.	Minimum buffer distance from bridge piers / water intake wells / irrigation structures	State highway bridge – 6.29 Km in SW
17.	Maximum depth of sand removal (3 m or water depth whichever is less)	2.26 m

Pillars	Latitude	Longitude
1	22° 57' 56.4066" N	69° 43' 13.0298" E
2	22° 57' 54.0181" N	69° 43' 14.6847" E
3	22° 57' 53.8217" N	69° 43' 15.4571" E
4	22° 57' 50.1164" N	69° 43' 16.7031" E
5	22° 57' 49.3844" N	69° 43' 15.6590" E
6	22° 57' 50.0801" N	69° 43' 14.0001" E
7	22° 57' 53.9022" N	69° 43' 09.0969" E

18.	Width of Riverbed (m)	658 m
19.	Average depth of water at lease area (m)	7m -10 m
20.	Depth of mining (m)	2.26 m
21.	Ground Water Table in meter BGL	7 m-10 bgl
22.	Does ground water interfere approach road exit? (Yes / No) If yes, status report of CGWA	No
23.	Distance between lease and main road	347m
24.	Length of kaccha road (m)	418 m
25.	Length of pacca road (m)	0 km
26.	Plan for making pacca road	No
27.	Source of fresh water	Drinking water will be Purchase from nearby water suppliers. And for the dust suppression and plantation will be Purchase from nearby tanker suppliers
28.	Water requirement (KLPD)	Total – 3.46 KLD
	a. Domestic	0.45 KLD
	b. Dust suppression	1.25 KLD
	c. Gardening / Green belt development	1.76 KLD
	d. others	-
29.	Whether the Undertaking is submitted for identical information provided in Form I, Approved Mining Plan, Project Details validated by District Geologist, Pre-Feasibility Report, Lease Document, Environment Management Plan and other documents	No

B. Environmental Sensitivities:

Sr NO	**Mining Type**	**Actual distance**	**Minimum Distance**	**Locations**
1	A, When Blasting is not involved	Patri 930 M (Patri population - 2592 As per 2011 Census)	100M from Residential/Public buildings, inhabited sites to be considered by States	As per order of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020
2.	A. Major Bridge	Nil	1 km	On both sides of the lease (as per Sustainable Sand Mine Guideline of MOEF&CC)
		OR		
	B. Highway	Village road bridge –	5X in upstream or	As per Sustainable

	ridge(Span of Bridge as X)	3.01 Km in NW State Highway Bridge- 6.29 Km in SW	250 m. 10X in downstream or 500 m	Sand Mine Guideline of MOEF&CC
	Public Structure including water intake wells	Nil	n upstream or 250 m. . 10X in down stream or 500 m	
	Depth of working	2.26 meter Ground water table at lease area 7m -10 meter	1 M or water level whichever is early	As per order of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020)
	Set Back Distance to prevent river bank erosion	14 meters	10 M or 1/4th of width of river	As per order of Honorable SC dtd 27.02.2020 and Sustainable Sand Mine Guideline of MOEF&CC
6	Mineable Material per Hectare area for actual mining shall not exceed maximum production	25775 MTPA	60,000 MTPA Per Hectare	As per Sustainable Sand Mine Guideline of MOEF&CC
7	Water supply Scheme/Irrigation structure	Khengar Sagar Reservoir- 6.27 Km Canal- 7.35 Km	200 M	
8	Railway Line/National Highway/ State Highway	SH 48- 6.49 Km NH 8A/41- 8.01 Km Railway line- 14.67 Km	100 M	
9.	Reservoir / Canal	Canal- 7.35 Km	50 M	
10.	Other Road	MDR road- 626 M in N direction	10 M	
11.	Eco-Sensitive Zone (if notified)	Distance of Kutch Desert Wildlife Sanctuary Eco Sensitive Zone is about 51.08 Km.	>1 km / outside the notified Eco-Sensitive Zone	Vide directives of MOEF&CC dtd 16.07.2020
12.	Eco-Sensitive Zone (if not notified)	Not Applicable	>1 km and <10 km = Prior Clearance from NBWL is required	

13.	Distance of Coastal line from the site	16.27 Km	>500 M from HTL	Amended CRZ Notification 2011

C. Details of Mining:

1.	Method of Mining (Manual / Semi-mechanized / Mechanized).	Semi-mechanized
2.	Equipment's to be used for Mining bulldozers, hydraulic excavators, JCB, scrapers, loaders, Diesel Pump, etc.)	Hydraulic excavators, JCB, loaders
3.	Whether it includes blasting?	Not Applicable
4.	Details of Authorized Blasting Agency with date of validity certificate	Not Applicable
5.	Procedure / SOP (in brief)	Not Applicable
6.	Details of Blasting Parameters in brief	Not Applicable
7.	Frequency of blasting	Not Applicable
8.	Impact of blasting	Not Applicable
9.	Outcome of Vibration study	Not Applicable
10.	Blasting Activity Management Plan	Not Applicable
11.	Use of any Chemical with quantity	Not Applicable
12.	Precautions taken for Human Safety in brief	Not Applicable
13.	Crusher provided? If Yes, Measures taken for Air Pollution Control	Not Applicable
14.	Compliance of DGMS Guidelines for Blasting	Not Applicable
15.	Compliance of Sustainable Sand Mine Guidelines published by MoEFCC in 2016	Not Applicable
16.	Whether Replenishment Rate Study is approved by District Geologist? If yes, conclude in brief	No (It will be submitted with the EIA)

D. Details of Green Belt Development:

1.	a. Green belt development budget	55,000 Rs.
	b. Green belt area / location	Along river coarse and at approach road
	c. No. of trees to be planted	220
	d. Types of trees to be planted	Indigenous

E. Details of Environment Management Plan:

1.	**Details of EMP**	**Impact**	**Mitigation Measures**
	a. Land Environment	By the extraction of mineral from the lease area impacts to change the land pattern	The mining lease area granted in Kayla river bed, which is Govt land. Due to mining the land pattern will be change for some time but will be come up in its pre stage after monsoon.
	b. Water Environment	Pollution of surface run off.	❖ Depth of excavation /mining shall be restricted to 2.26 m or

		Depletion of ground water table. Change in river coarse	water level at site, whichever is less. ❖ No In stream mining will be done. No effluent will be generated due to mining activities.
	c. Air Environment	1.Gaseous emission from vehicles and machineries used 2. Dust Pollution	❖ Proponent will Spend Rs 84,500 per year for sprinkling to internal road, loading point all transfer points. ❖ Proponent will develop green belt around the lease area with Rs 55,000 and will spend Rs 6,000 per year for the maintenance and replenishment of the plants. ❖ Attached road shall be sprinkle with water daily to prevent fugitive emission during vehicular. Speed of vehicle will only restrict to the 20 km/hour on Kutcha road. ❖ Vehicles used in mines and transportation shall be maintained well to mitigate the fugitive emission.
	d. Noise Environment	Noise due to working through heavy machinery.	❖ Ear muffs will be used during high noise activity. Regular maintenance of machineries shall be done
	e. Biological Environment	Nil	Nil
	f. Human Environment		❖ Suitable and properly maintained first-aid outfit should be kept at the mine for use in case of accident ❖ Safety equipment's like dust masks and ear muffs etc. ❖ Health camps shall be arranged for local villagers and workers.
	g. Others		
2.	Occupational health & safety measures as per DGMS	Nil	
3.	Safety measures		

	proposed	
	a. Is First Aid facility provided by PP?	yes
	b. Details of PPEs	Safety helmet, Hand gloves Shoes etc.
	c. Whether Registration of Workers under Building and other Construction Workers' (regulation of Employment & Conditions of Service) Act, 1996 and as Beneficiaries with the Gujarat Building and other Construction Workers Welfare Boards is obtained or not?	Will be done after the agreement of the lease.
	d. Insurance of Workers	Nil
	e. Health checkup plan of workers	Every six-monthly plan for Health management.

F. Transportation:

1.	No. of vehicles per day carrying Minerals	1
2.	Fugitive dust emission control measures	Attached road with lease shall be sprinkle with water daily to prevent fugitive emission during vehicular. Speed of vehicle will only restrict to the 20 km/hour on Kutcha road
3.	Route plan in brief	Approach road is about 520 km connected with local MDR road, local MDR road connected with state Highway-SH – 45

G. Financial details of the Project:

1.	Total cost of the project (Lakh)	1.06 Cr.
	a. Upfront cost (Lakh)	3.09 Lakh
	b. Performance Security (Lakh)	Nil
	c. Total Royalty (Lakh)	51.51 lakh
	d. Weigh Bridge Cost (Lakh)	8.0 lakh
	e. Labor cost equipment (Lakh)	30.42 lakh
	f. Environment protection and implementation cost (Lakh)	9.22 lakh
	g. Green Belt Development & maintenance cost (Lakh)	0.85 lakh
	h. Cost of EMP (Lakh)	---------
	i. Cost of Safety measures (Lakh)	3.0 lakh (Safety Helmet – 200 Rs, Hand Gloves - 150 Rs, Safety shoos- 650Rs)

		j. Cost of Post-Closure Mine Plan (Lakh)	Not applicable
	2.	Budget allocated for CER (Lakh)	1.53 lakh
	3.	Is need based survey for CER carried out? (Yes / No) If yes, give details of activities along with Budgetary Outlay	NO
H.	**Restoration / Reclamation Plan:**		
	1.	Restoration / Reclamation Details	The lease site was refilled during one monsoonal phase.
	2.	Post mining closure plan	Not Applicable
	3.	Backfilling material and its quantity	Not Applicable
	4.	Size of void for Rain Water Harvesting after backfilling	Not Applicable
	5.	Post Closure Liability / Safety aspects and Measures to be taken to avoid wild life and human accidents/ causalities	Not Applicable
	6.	Display of Caution Boards at strategic locations on the periphery of the pit area	Not Applicable
	7.	Final Use of reservoir/ reclaimed land	Not Applicable
I.	**Details of Legal Action / Court Case:**		
	1.	Details of Pending Court matter / Public Litigation Cases in any court of Law	No
	2.	Details of Action taken by GPCB, if any	No
	3.	Details of public complaint, if any	No
	4.	Compliance of EC by RO-GPCB or MoEFCC-Bhopal	No

Deliberation:

Committee deliberated on safe distance of Environmental Sensitivities from the lease area. CER, Green belt, depth of mining, method of mining, adverse environmental impacts and its mitigation measures were discussed. PP showed Google Earth images of the lease area and informed that the lease is not in-stream.

After scoping for the aforementioned proposal, committee decided to consider the proposal under B1 category & Hon'ble National Green Tribunal Order dated 13 September 2018 in view. It was decided to recommend TOR approved by SEIAA on 07/03/2019 for **river bed sand mining** for conducting the EIA study to be done for cluster situation evaluating cumulative impact of the mining leases in cluster considering 10 Km radius from the periphery of the mine lease area including public hearing including project **specific TOR as per Annexure – I.**

13. ORDINARY SAND MINING DIST: VADODARA

Application No	Name of Project	S.No	Village	Taluka	Dist	Lease Area	Validity of lease	ROM	Nearest Human Habitation	End Use	Investment in Rs	Date of Application on Received by SEAC
SIA/GJ/MIN/56807/2020	Jayantibhai Hirabhai Prajapati	Narmada River Bed paiki opp. Sr. no. 6to 8	Deroli	Karjan	Vadodara	06.81.24 Ha	-	2,10,000 MTPA	Deroli village – 0.45 km	-	188.54 Lakh	04.11.2020

The project falls under B1 Category – 1(a), i.e. Mining of Minerals as per the provision of EIA Notification, 2006. Project Proponent has applied to obtain Terms of Reference (TOR) for mining of Ordinary Sand.

A. Basic Information of the Project:

1.	Name of Project as per Form I	Jayantibhai Hirabhai Prajapati
2.	Address of the lease	Survey No.: Narmada Riverbed paiki opp. Sr. no.6 to 8 Village: Deroli Taluka: Karjan District:Vadodara
3.	Name of lease holder	Jayantibhai Hirabhai Prajapati
4.	Lease area (Ha)	06.81.24 Ha
5.	Cluster Details	
	a. Total no. of leases in the cluster	44
	b. No. of TOR granted in cluster	--
	c. No. of EC granted in cluster	--
	d. Total area of the cluster	204.32.34
	e. Maximum individual lease area	10.00.00 Ha
	f. Minimum individual lease area	0.76.32 Ha
6.	Validity of lease with the date of expiry	5 Years
7.	Rate of Mining (MT/Annum)	2,10,000 MTPA
8.	Details of EC obtained (for expansion projects), if any	NA
9.	Name of River Bed	Narmada Riverbed
10.	Is the river perennial / non-perennial?	Proposed project area falls in non-perennial riverbed.

<table>
<tr><td>11.</td><td>Lease area (submerged / in stream / on dry river bed)</td><td>In dry riverbed area</td></tr>
<tr><td>12.</td><td>All coordinates of the lease area as per Approved Mining Plan</td><td>
<table>
<tr><th>Pillar No.</th><th>Latitude</th><th>Longitude</th></tr>
<tr><td>1</td><td>21°55'19.82"N</td><td>73°13'37.38"E</td></tr>
<tr><td>2</td><td>21°55'11.77"N</td><td>73°13'47.36"E</td></tr>
<tr><td>3</td><td>21°55'7.96"N</td><td>73°13'43.00"E</td></tr>
<tr><td>4</td><td>21°55'15.40"N</td><td>73°13'33.87"E</td></tr>
</table>
</td></tr>
<tr><td>13.</td><td>Manpower requirement</td><td>6 Manpower</td></tr>
<tr><td>14.</td><td>Applicability of CRZ Notification</td><td>Na</td></tr>
<tr><td>15.</td><td>Minimum Setback distance proposed to be maintained from River Bed (m)</td><td>200 m</td></tr>
<tr><td>16.</td><td>Minimum buffer distance from bridge piers / water intake wells / irrigation structures</td><td>None within 1 Km</td></tr>
<tr><td>17.</td><td>Maximum depth of sand removal (3 m or water depth whichever is less)</td><td>2 m</td></tr>
<tr><td>18.</td><td>Width of Riverbed (m)</td><td>0.98 Km</td></tr>
<tr><td>19.</td><td>Average depth of water at lease area (m)</td><td>20 to 26 m</td></tr>
<tr><td>20.</td><td>Depth of mining (m)</td><td>2 m</td></tr>
<tr><td>21.</td><td>Ground Water Table in meter BGL</td><td>20 to 26 m</td></tr>
<tr><td>22.</td><td>Does ground water interfere approach road exit? (Yes / No)

If yes, status report of CGWA</td><td>No</td></tr>
<tr><td>23.</td><td>Distance between lease and main road</td><td>1.15 Km</td></tr>
<tr><td>24.</td><td>Length of kaccha road (m)</td><td>0.55 Km</td></tr>
<tr><td>25.</td><td>Length of pacca road (m)</td><td>0.60 Km</td></tr>
<tr><td>26.</td><td>Plan for making pacca road</td><td>Making of approach road from mine to near village road on hired basis.
Cost of making approach road:- Average Rs.90,000/- which is included in capital cost of EMP.</td></tr>
<tr><td>27.</td><td>Source of fresh water</td><td>Through Water Tanker</td></tr>
<tr><td rowspan="5">28.</td><td>Water requirement (kLPD)</td><td>5 KLD</td></tr>
<tr><td>a. Domestic</td><td>1.0 KLD</td></tr>
<tr><td>b. Dust suppression</td><td>3.0 KLD</td></tr>
<tr><td>c. Gardening / Green belt development</td><td>1.0 KLD</td></tr>
<tr><td>d. others</td><td>--</td></tr>
<tr><td>29.</td><td>Whether the Undertaking is submitted for identical information provided in Form I, Approved Mining Plan, Project Details validated by District Geologist, Pre-Feasibility Report, Lease Document, Environment Management Plan and other documents</td><td>Yes</td></tr>
</table>

B. Environmental Sensitivities:

Sr NO	Environmental Sensitivities	Actual Distance	Minimum Distance	Reference
1.	Residential	Deroli Village - 0.45 Km (Population- 581 as per Census 2011)	100 m (When Blasting is not involved)	As per order of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020
	Public buildings	Sidhyog Temple – 0.30 Km Primary School at Simri – 7.60 Km PHC at Simri Village – 8.20 Km		As per order of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020
	Inhabited sites	None within 1 Km		
2.	A. Major Bridge	None within 1 Km	1 km	On both sides of the lease (as per Sustainable Sand Mine Guideline of MOEF&CC)
	B. Highway	None within 1 Km	1 km	On both sides of the lease (as per Sustainable Sand Mine Guideline of MOEF&CC)
OR				
3.	Bridge(Span of Bridge as X)	NA	a. 5X in upstream or 250 m. b. 10X in down stream or 500 m	As per Sustainable Sand Mine Guideline of MOEF&CC
4.	Public Structure including water intake wells	NA	a. 5X in upstream or 250 m. b. 10X in down stream or 500 m	As per Sustainable Sand Mine Guideline of MOEF&CC
5.	Depth of working	2 m	1 M or water level whichever is early	As per order of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020)
6.	Set Back Distance to prevent river bank erosion	200 m	10 M or 1/4th of width of river	As per order of Honorable SC dtd 27.02.2020 and Sustainable Sand Mine Guideline of MOEF&CC
7.	Mineable Material per Hectare area for actual mining shall not exceed maximum production	2,10,000 MTPA	60,000 MTPA Per Hectare	As per Sustainable Sand Mine Guideline of MOEF&CC

8.	Water supply Scheme/Irrigation structure	None within 1 Km	200 M	As per Sustainable Sand Mine Guideline of MOEF&CC
9.	Railway Line	Sagdol Railway Station – 11.70 Km	100 M	As per Sustainable Sand Mine Guideline of MOEF&CC
10.	Reservoir/Canal	Canal- 0.71 Km	100 M	As per CPCB Distance Criteria And order of of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020
11.	Other Road	Village Road – 0.51 Km SH 160 –13.45 Km NH 8 – 29.11 Km	100 M	As per CPCB Distance Criteria And order of of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020
12.	Eco-Sensitive Zone (if notified)	Shoolpaneshwar Wildlife Sanctuary – 26.54 Km	>1 km / outside the notified Eco-Sensitive Zone	Vide directives of MOEF&CC dtd 16.07.2020
13.	Eco-Sensitive Zone (if not notified)	None within the 10 Km	>1 km and <10 km = Prior Clearance from NBWL is required	Vide directives of MOEF&CC dtd 16.07.2020
14.	Distance of Coastal line from the site	NA	>500 M from HTL	Amended CRZ Notification 2011

C. Details of Mining:

1.	Method of Mining (Manual / Semi-mechanized / Mechanized).	Semi-mechanized open cast mining method
2.	Equipments to be used for Mining bulldozers, hydraulic excavators, JCB, scrapers, loaders, Diesel Pump, etc.)	-Hydraulic excavator is used for excavation and loading of sand. -Trucks and dumper is used or transportation of sand.
3.	Whether it includes blasting?	No
4.	Details of Authorized Blasting Agency with date of validity certificate	NA
5.	Procedure / SOP (in brief)	Mining operations will be proposed by Semi-mechanized open cast method with use of Hydraulic excavator for loading of sand into the dumper.
6.	Details of Blasting Parameters in brief	NA
7.	Frequency of blasting	NA
8.	Impact of blasting	NA

9.	Outcome of Vibration study	NA
10.	Blasting Activity Management Plan	NA
11.	Use of any Chemical with quantity	NA
12.	Precautions taken for Human Safety in brief	NA
13.	Crusher provided? If Yes, Measures taken for Air Pollution Control	NA
14.	Compliance of DGMS Guidelines for Blasting	NA
15.	Compliance of Sustainable Sand Mine Guidelines published by MoEFCC in 2016	Compliance of sustainable sand min guidline will be submitted at the time of Final EIA-EMP submission.
16.	Whether Replenishment Rate Study is approved by District Geologist? If yes, conclude in brief	It will be carried out during EIA-EMP study.

D. Details of Green Belt Development:

1.	a. Green belt development budget	Capital Cost:- Rs.54,000/- Recurring Cost:- Rs. 25,000/-
	b. Green belt area / location	Trees will be planted on the both sides of approach road.
	c. No. of trees to be planted	120 trees
	d. Types of trees to be planted	Mainly local species such as Neem, Asopalav, Pipal and Nilgiri will be planted.

E. Details of Environment Management Plan:

1.	**Details of EMP**	**Impact**	**Mitigation Measures**
	a. Land Environment	• The lease area is government land (Riverbed Paiki) and mining will lead to change in land use pattern.	• All the activities shall be restricted within Q.L area. • Plantation activities to be carried out on both sides of approach road. • This is a river sand quarry project the sand will be replenished every year during the rainy season. • The mining activity restricated up to the depth of 3 m from riverbed.
	b. Water Environment	• Waste water generated from mine office • No waste during the course of mining operation	• Waste water generated from office building will be diverted to septic tank followed by soak pit

		c. Air Environment	•The sources of air pollution are dust generated due to excavation, loading and unloading of material, movement of dumpers. It may cause pollution in environment. • Impact on health due to fugitive dust emissions.	• Sprinkling of water will be done on roads as well as stockpile • Proper maintenance of vehicles to minimize the pollutants. • The trucks will be covered while moving the material. • Development of green belt/plantation nearby road.	
		d. Noise Environment	• Movement of trucks • Operation of machineries	• Ear plugs / earmuffs will be provided to workers. The workers will not be allowed to work more than one hour in noise prone area. • Plantation will be carried out along mining lease boundary green belt minimizes propagation of noise. • Proper maintenance of vehicles will be done, Mine operations will be limited to day time i.e. 9AM to 6PM. • Power horns will not be allowed in trucks.	
		e. Biological Environment	• As it is Sand mining project, activities will be confined to core zone only. Thus no direct impact is foreseen on the flora & fauna of the surrounding area whereas activities related to mining as transportation of minerals and passage of workers to and from mining area will have an adverse impact.	• Mining activities will be restricted to day time so that fauna will not disturb at night. • Tar road will be used for transportation to minimize fugitive emissions. • Material will be covered during transportation. • Water sprinkling will be done on haul roads to control fugitive emissions.	
		f. Human Environment	• Fugitive dust emission could have potential impact on human health	• Persons working in dusty area to be provided with protective gears such as helmets, dust	

			masks, ear muff etc.; • Regular water sprinkling at dust generating areas, haul roads. • Occupational health checkup of all workers working in mine and pulmonary function test for workers working in dusty areas.
	g. Others	--	--
2.	Occupational health & safety measures as per DGMS	• Workers continuously exposed to higher noise levels will be provided ear muffs/ear plugs. • Regular health checkup of all the workers working in mine.	
3.	Safety measures proposed		
	a. Is First Aid facility provided by PP?	Yes	
	b. Details of PPEs	Helmet, Safety Shoes , Hand Gloves , Dust Mask , Ear Plugs	
	c. Whether Registration of Workers under Building and other Construction Workers' (regulation of Employment & Conditions of Service) Act, 1996 and as Beneficiaries with the Gujarat Building and other Construction Workers Welfare Boards is obtained or not?	No	
	d. Insurance of Workers	NA	
	e. Health checkup plan of workers	Health check-up for workers once in year.	

F. Transportation:

1.	No. of vehicles per day carrying Minerals	50
2.	Fugitive dust emission control measures	Sprinkling of water twice in a day
3.	Route plan in brief	Lease Area – Approach Road –Village Road – State Highway

G. Financial details of the Project:

1.	Total cost of the project (Lakh)	Rs. 188.54 Lakh
	a. Upfront cost (Lakh)	NA
	b. Performance Security (Lakh)	NA
	c. Total Royalty (Lakh)	Rs. 1,68,00,000/-
	d. Weigh Bridge Cost (Lakh)	Rs. 5,00,000/-
	e. Labor cost equipment (Lakh)	Rs. 4,00,000/-

	f. Equipment protection and implementation cost (Lakh)	Rs. 7,00,000/-
	g. Green Belt Development & maintenance cost (Lakh)	Capital Cost – Rs. 54,000/- Recurring Cost – Rs. 25,000/-
	h. Cost of EMP (Lakh)	Capital Cost – Rs. 5,96,000/- Recurring Cost – Rs. 1,96,000/-
	i. Cost of Safety measures (Lakh)	Recurring Cost:- Rs. 36,000/-
	j. Cost of Post-Closure Mine Plan (Lakh)	Rs. 7,00,000/-
2.	Budget allocated for CER (Lakh)	Rs. 3,80,000/-
3.	Is need based survey for CER carried out? (Yes / No) If yes, give details of activities along with Budgetary Outlay	No Need based Year wise fund allocation for proposed activities will be given after EIA study.

H. Restoration / Reclamation Plan:

1.	Restoration / Reclamation Details	The mined out area (06.81.24 hectares) will be refilled with sand during monsoon every season.
2.	Post mining closure plan	As per the provisions of GMMCR, 2017 the post clouser mine plan will be prepared at the end of life of mine.
3.	Backfilling material and its quantity	NA
4.	Size of void for Rain Water Harvesting after backfilling	NA
5.	Post Closure Liability / Safety aspects and Measures to be taken to avoid wild life and human accidents/ causalities	Financial assurance will be given as a part of final mine closure plan.
6.	Display of Caution Boards at strategic locations on the periphery of the pit area	Provisions of GMMCR, 2017 will be complied as a part of lease deed condition.
7.	Final Use of reservoir/ reclaimed land	NA

I. Details of Legal Action / Court Case:

1.	Details of Pending Court matter / Public Litigation Cases in any court of Law	NA
2.	Details of Action taken by GPCB, if any	NA
3.	Details of public complaint , if any	NA
4.	Compliance of EC by RO-GPCB or MoEFCC-Bhopal	NA

Deliberation:

Committee deliberated on the Google Earth Images shown by the PP and noted that the coordinates of the lease are submerged in the river. Hence, Committee asked PP to submit Google Earth images of the lease area for last 5 years for all seasons (except

monsoon season) with date and time so as to verify the status of submergence of the lease area during these seasons. Hence, Committee unanimously decided to consider the proposal after submission of afore-stated details in upcoming SEAC meeting.

14. ORDINARY SAND MINING , DIST: VADODARA

Application No	Name of Project	S.No	Village	Taluka	Dist	Lease Area	Validity of lease	ROM	River	Nearest Human Habitation	End Use	Investment in Rs	Date of Application on Received by SEAC
SIA/GJ/MIN/56798/2020	JigneshbhaiJayantibhaiPrajapati	Narmada Riverbed paiki opp. Sr. No. 280 to 302 New Project	Delvada	Karjan	Vadodara	9.49.46 Ha		275000 MTPA	Narmada	Somaj – 0.72 km	Construction	246.38 Lakh	04.11.2020

The project falls under B1 Category – 1(a), i.e. Mining of Minerals as per the provision of EIA Notification, 2006. Project Proponent has applied to obtain Terms of Reference (TOR) for mining of Ordinary Sand.

A. Basic Information of the Project:

1.	Name of Project as per Form I	Jigneshbhai Jayantibhai Prajapati
2.	Address of the lease	Survey No.: Narmada Riverbed paiki opp. Sr. no.280 to 302 Village: Delvada Taluka: Karjan District:Vadodara
3.	Name of lease holder	Jigneshbhai Jayantibhai Prajapati

<table>
<tr><td>4.</td><td>Lease area (Ha)</td><td>09.49.46 Ha</td></tr>
<tr><td>5.</td><td>Cluster Details</td><td></td></tr>
<tr><td></td><td>a. Total no. of leases in the cluster</td><td>36</td></tr>
<tr><td></td><td>b. No. of TOR granted in cluster</td><td>--</td></tr>
<tr><td></td><td>c. No. of EC granted in cluster</td><td>--</td></tr>
<tr><td></td><td>d. Total area of the cluster</td><td>209.36.32 Ha</td></tr>
<tr><td></td><td>e. Maximum individual lease area</td><td>09.49.46 Ha</td></tr>
<tr><td></td><td>f. Minimum individual lease area</td><td>0.66.28 Ha</td></tr>
<tr><td>6.</td><td>Validity of lease with the date of expiry</td><td>5 Years</td></tr>
<tr><td>7.</td><td>Rate of Mining (MT/Annum)</td><td>2,75,000 MTPA</td></tr>
<tr><td>8.</td><td>Details of EC obtained (for expansion projects), if any</td><td>NA</td></tr>
<tr><td>9.</td><td>Name of River Bed</td><td>Narmada Riverbed</td></tr>
<tr><td>10.</td><td>Is the river perennial / non-perennial?</td><td>Proposed project area falls in non-perennial riverbed.</td></tr>
<tr><td>11.</td><td>Lease area (submerged / in stream / on dry river bed)</td><td>In dry riverbed area</td></tr>
<tr><td>12.</td><td>All coordinates of the lease area as per Approved Mining Plan</td><td>
<table>
<tr><th>Pillar No.</th><th>Latitude</th><th>Longitude</th></tr>
<tr><td>1</td><td>21°51'47.85"N</td><td>73°8'45.96"E</td></tr>
<tr><td>2</td><td>21°51'45.56"N</td><td>73°8'55.05"E</td></tr>
<tr><td>3</td><td>21°51'31.16"N</td><td>73°8'51.23"E</td></tr>
<tr><td>4</td><td>21°51'33.88"N</td><td>73°8'45.18"E</td></tr>
</table>
</td></tr>
<tr><td>13.</td><td>Manpower requirement</td><td>6 Manpower</td></tr>
<tr><td>14.</td><td>Applicability of CRZ Notification</td><td>Na</td></tr>
<tr><td>15.</td><td>Minimum Setback distance proposed to be maintained from River Bed (m)</td><td>270 m</td></tr>
<tr><td>16.</td><td>Minimum buffer distance from bridge piers / water intake wells / irrigation structures</td><td>None within 1 Km</td></tr>
<tr><td>17.</td><td>Maximum depth of sand removal (3 m or water depth whichever is less)</td><td>1.5 m</td></tr>
<tr><td>18.</td><td>Width of Riverbed (m)</td><td>1.55 Km</td></tr>
<tr><td>19.</td><td>Average depth of water at lease area (m)</td><td>20 to 26 m</td></tr>
<tr><td>20.</td><td>Depth of mining (m)</td><td>1.5 m</td></tr>
<tr><td>21.</td><td>Ground Water Table in meter BGL</td><td>20 to 26 m</td></tr>
<tr><td>22.</td><td>Does ground water interfere approach road exit? (Yes / No)

If yes, status report of CGWA</td><td>No</td></tr>
<tr><td>23.</td><td>Distance between lease and main road</td><td>1.33 Km</td></tr>
<tr><td>24.</td><td>Length of kaccha road (m)</td><td>0.33 Km</td></tr>
<tr><td>25.</td><td>Length of pacca road (m)</td><td>1.00 Km</td></tr>
<tr><td>26.</td><td>Plan for making pacca road</td><td>Making of approach road from mine to near village road on hired basis.
Cost of making approach road:- Average Rs.50,000/-</td></tr>
</table>

		which is included in capital cost of EMP.
27.	Source of fresh water	Through Water Tanker
28.	Water requirement (kLPD)	5 KLD
	a. Domestic	1.0 KLD
	b. Dust suppression	3.0 KLD
	c. Gardening / Green belt development	1.0 KLD
	d. others	--
29.	Whether the Undertaking is submitted for identical information provided in Form I, Approved Mining Plan, Project Details validated by District Geologist, Pre-Feasibility Report, Lease Document, Environment Management Plan and other documents	Yes

B. Environmental Sensitivities:

Sr NO	**Environmental Sensitivities**	**Actual Distance**	**Minimum Distance**	**Reference**
1.	Residential	Somaj Village - 0.72 Km (Population- 230 as per Census 2011)	100 m (When Blasting is not involved)	As per order of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020
	Public buildings	Karkateshwar Mahadev – 0.90 Km Primary School at Delvada – 5.25 Km PHC at Delvada Village – 6.40 Km		As per order of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020
	Inhabited sites	None within 1 Km		
2.	A. Major Bridge	None within 1 Km	1 km	On both sides of the lease (as per Sustainable Sand Mine Guideline of MOEF&CC)
	B. Highway	None within 1 Km	1 km	On both sides of the lease (as per Sustainable Sand Mine Guideline of MOEF&CC)
		OR		
3.	Bridge(Span of Bridge as X)	NA	c. 5X in upstream or 250 m. d. 10X in down stream or 500 m	As per Sustainable Sand Mine Guideline of MOEF&CC
4.	Public Structure including water intake wells	NA	c. 5X in upstream or 250 m. d. 10X in down stream or 500 m	As per Sustainable Sand Mine Guideline of MOEF&CC
5.	Depth of working	1.5 m	1 M or water level	As per order of NGT

			whichever is early	before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020)
6.	Set Back Distance to prevent river bank erosion	270 m	10 M or 1/4th of width of river	As per order of Honorable SC dtd 27.02.2020 and Sustainable Sand Mine Guideline of MOEF&CC
7.	Mineable Material per Hectare area for actual mining shall not exceed maximum production	2,75,000 MTPA	60,000 MTPA Per Hectare	As per Sustainable Sand Mine Guideline of MOEF&CC
8.	Water supply Scheme/Irrigation structure	None within 1 Km	200 M	As per Sustainable Sand Mine Guideline of MOEF&CC
9.	Railway Line	Sagdol Railway Station – 11.05 Km	100 M	As per Sustainable Sand Mine Guideline of MOEF&CC
10.	Reservoir/Canal	Canal- 2.26 Km	100 M	As per CPCB Distance Criteria And order of of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020
11.	Other Road	Village Road – 1.42 Km SH 164 –7.28 Km NH 8 – 17.73 Km	100 M	As per CPCB Distance Criteria And order of of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020
12.	Eco-Sensitive Zone (if notified)	Shoolpaneshwar Wildlife Sanctuary – 32.73 Km	>1 km / outside the notified Eco-Sensitive Zone	Vide directives of MOEF&CC dtd 16.07.2020
13.	Eco-Sensitive Zone (if not notified)	None within the 10 Km	>1 km and <10 km = Prior Clearance from NBWL is required	Vide directives of MOEF&CC dtd 16.07.2020
14.	Distance of Coastal line from the site	NA	>500 M from HTL	Amended CRZ Notification 2011

C. Details of Mining:

1.	Method of Mining (Manual / Semi-mechanized / Mechanized).	Semi-mechanized open cast mining method

2.	Equipments to be used for Mining bulldozers, hydraulic excavators, JCB, scrapers, loaders, Diesel Pump, etc.)	-Hydraulic excavator is used for excavation and loading of sand. -Trucks and dumper is used or transportation of sand.
3.	Whether it includes blasting?	No
4.	Details of Authorized Blasting Agency with date of validity certificate	NA
5.	Procedure / SOP (in brief)	Mining operations will be proposed by Semi-mechanized open cast method with use of Hydraulic excavator for loading of sand into the dumper.
6.	Details of Blasting Parameters in brief	NA
7.	Frequency of blasting	NA
8.	Impact of blasting	NA
9.	Outcome of Vibration study	NA
10.	Blasting Activity Management Plan	NA
11.	Use of any Chemical with quantity	NA
12.	Precautions taken for Human Safety in brief	NA
13.	Crusher provided? If Yes, Measures taken for Air Pollution Control	NA
14.	Compliance of DGMS Guidelines for Blasting	NA
15.	Compliance of Sustainable Sand Mine Guidelines published by MoEFCC in 2016	Compliance of sustainable sand min guidline will be submitted at the time of Final EIA-EMP submission.
16.	Whether Replenishment Rate Study is approved by District Geologist? If yes, conclude in brief	It will be carried out during EIA-EMP study.

D. Details of Green Belt Development:

1.	a. Green belt development budget	Capital Cost:- Rs.32,000/- Recurring Cost:- Rs. 20,000/-
	b. Green belt area / location	Trees will be planted on the both sides of approach road.
	c. No. of trees to be planted	70 trees
	d. Types of trees to be planted	Mainly local species such as Neem, Asopalav, Pipal and Nilgiri will be planted.

E. Details of Environment Management Plan:

1.	**Details of EMP**	**Impact**	**Mitigation Measures**
	a. Land Environment	• The lease area is government land (Riverbed Paiki) and mining will lead to change in land use pattern.	• All the activities shall be restricted within Q.L area. • Plantation activities to be carried out on both sides of approach road.

				• This is a river sand quarry project the sand will be replenished every year during the rainy season. • The mining activity restricated up to the depth of 3 m from riverbed.	
		b. Water Environment	• Waste water generated from mine office • No waste during the course of mining operation	• Waste water generated from office building will be diverted to septic tank followed by soak pit	
		c. Air Environment	•The sources of air pollution are dust generated due to excavation, loading and unloading of material, movement of dumpers. It may cause pollution in environment. • Impact on health due to fugitive dust emissions.	• Sprinkling of water will be done on roads as well as stockpile • Proper maintenance of vehicles to minimize the pollutants. • The trucks will be covered while moving the material. • Development of green belt/plantation nearby road.	
		d. Noise Environment	• Movement of trucks • Operation of machineries	• Ear plugs / earmuffs will be provided to workers. The workers will not be allowed to work more than one hour in noise prone area. • Plantation will be carried out along mining lease boundary green belt minimizes propagation of noise. • Proper maintenance of vehicles will be done,Mine operations will be limited to day time i.e. 9AM to 6PM. • Power horns will not be allowed in trucks.	
		e. Biological Environment	• As it is Sand mining project, activities will be confined to core zone only. Thus no direct	• Mining activities will be restricted to day time so that fauna will not disturb at night.	

		impact is foreseen on the flora & fauna of the surrounding area whereas activities related to mining as transportation of minerals and passage of workers to and from mining area will have an adverse impact.	• Tar road will be used for transportation to minimize fugitive emissions. • Material will be covered during transportation. • Water sprinkling will be done on haul roads to control fugitive emissions.
	f. Human Environment	• Fugitive dust emission could have potential impact on human health	• Persons working in dusty area to be provided with protective gears such as helmets, dust masks, ear muff etc.; • Regular water sprinkling at dust generating areas, haul roads. • Occupational health checkup of all workers working in mine and pulmonary function test for workers working in dusty areas.
	g. Others	--	--
2.	Occupational health & safety measures as per DGMS	• Workers continuously exposed to higher noise levels will be provided ear muffs/ear plugs. • Regular health checkup of all the workers working in mine.	
3.	Safety measures proposed		
	a. Is First Aid facility provided by PP?	Yes	
	b. Details of PPEs	Helmet, Safety Shoes , Hand Gloves , Dust Mask , Ear Plugs	
	c. Whether Registration of Workers under Building and other Construction Workers' (regulation of Employment & Conditions of Service) Act, 1996 and as Beneficiaries with the Gujarat Building and other Construction Workers Welfare Boards is obtained or not?	No	
	d. Insurance of Workers	NA	
	e. Health checkup plan of workers	Health check-up for workers once in year.	

F. Transportation:

1.	No. of vehicles per day carrying Minerals	60
2.	Fugitive dust emission control measures	Sprinkling of water twice in a day
3.	Route plan in brief	Lease Area – Approach Road –Village Road – State Highway

G. Financial details of the Project:

1.	Total cost of the project (Lakh)	Rs. 246.38 Lakh
	a. Upfront cost (Lakh)	NA
	b. Performance Security (Lakh)	NA
	c. Total Royalty (Lakh)	Rs. 2,20,00,000/-
	d. Weigh Bridge Cost (Lakh)	Rs 5,00,000/-
	e. Labor cost equipment (Lakh)	Rs.5,00,000/-
	f. Equipment protection and implementation cost (Lakh)	Rs. 8,40,000/-
	g. Green Belt Development & maintenance cost (Lakh)	Capital Cost – Rs. 32,000/- Recurring Cost – Rs. 20,000/-
	h. Cost of EMP (Lakh)	Capital Cost – Rs. 6,59,000/- Recurring Cost – Rs. 1,91,000/-
	i. Cost of Safety measures (Lakh)	Recurring Cost:- Rs. 36,000/-
	j. Cost of Post-Closure Mine Plan (Lakh)	Rs. 10,00,000/-
2.	Budget allocated for CER (Lakh)	Rs. 5,00,000/-
3.	Is need based survey for CER carried out? (Yes / No) If yes, give details of activities along with Budgetary Outlay	No Need based Year wise fund allocation for proposed activities will be given after EIA study.

H. Restoration / Reclamation Plan:

1.	Restoration / Reclamation Details	The mined out area (09.49.46 hectares) will be refilled with sand during monsoon every season.
2.	Post mining closure plan	As per the provisions of GMMCR, 2017 the post clouser mine plan will be prepared at the end of life of mine.
3.	Backfilling material and its quantity	NA
4.	Size of void for Rain Water Harvesting after backfilling	NA
5.	Post Closure Liability / Safety aspects and Measures to be taken to avoid wild life and human accidents/ causalities	Financial assurance will be given as a part of final mine closure plan.
6.	Display of Caution Boards at strategic locations on the periphery of the pit area	Provisions of GMMCR, 2017 will be complied as a part of lease deed condition.
7.	Final Use of reservoir/ reclaimed land	NA

I. Details of Legal Action / Court Case:

1.	Details of Pending Court matter / Public Litigation Cases in any court of Law	NA
2.	Details of Action taken by GPCB, if any	NA
3.	Details of public complaint , if any	NA
4.	Compliance of EC by RO-GPCB or MoEFCC-Bhopal	NA

Deliberation:

Committee deliberated on the Google Earth Images shown by the PP and noted that the coordinates of the lease are submerged in the river. Hence, Committee asked PP to submit Google Earth images of the lease area for last 5 years for all seasons (except monsoon season) with date and time so as to verify the status of submergence of the lease area during these seasons. Hence, Committee unanimously decided to consider the proposal after submission of afore-stated details in upcoming SEAC meeting.

15. ORDINARY SAND MINING, DIST: VADODARA

Application No	Name of Project	S.No	Village	Taluka	Dist	Lease Area	Validity of lease	ROM	River	Nearest Human Habitation	End Use	Investment in Rs	Date of Application on Received by SEAC
SIA/GJ/MIN/56794/2020	JigneshbhaiJayantibhaiPrajapati	NarmadaRiverbedpaikiopp. Sr. No. 167 & 168	Ranapur	Karjan	Vadodara	3.72.04 Ha		120000 MTPA	Narmada	Ranapur – 0.61 km	Construction	109.45 Lakh	04.11.2020

The project falls under B1 Category – 1(a), i.e. Mining of Minerals as per the provision of EIA Notification, 2006. Project Proponent has applied to obtain Terms of Reference (TOR) for mining of Ordinary Sand.

A. Basic Information of the Project:

1.	Name of Project as per Form I	Jigneshbhai Jayantibhai Prajapati

<table>
<tr><td>2.</td><td>Address of the lease</td><td>Survey No.: Narmada Riverbed paiki opp. Sr. no.167 & 168
Village: Ranapur
Taluka: Karjan
District:Vadodara</td></tr>
<tr><td>3.</td><td>Name of lease holder</td><td>Jigneshbhai Jayantibhai Prajapati</td></tr>
<tr><td>4.</td><td>Lease area (Ha)</td><td>03.72.04 Ha</td></tr>
<tr><td>5.</td><td>Cluster Details</td><td></td></tr>
<tr><td></td><td>a. Total no. of leases in the cluster</td><td>44</td></tr>
<tr><td></td><td>b. No. of TOR granted in cluster</td><td>--</td></tr>
<tr><td></td><td>c. No. of EC granted in cluster</td><td>--</td></tr>
<tr><td></td><td>d. Total area of the cluster</td><td>204.32.34 Ha</td></tr>
<tr><td></td><td>e. Maximum individual lease area</td><td>10.00.00 Ha</td></tr>
<tr><td></td><td>f. Minimum individual lease area</td><td>0.76.32 Ha</td></tr>
<tr><td>6.</td><td>Validity of lease with the date of expiry</td><td>5 Years</td></tr>
<tr><td>7.</td><td>Rate of Mining (MT/Annum)</td><td>1,20,000 MTPA</td></tr>
<tr><td>8.</td><td>Details of EC obtained (for expansion projects), if any</td><td>NA</td></tr>
<tr><td>9.</td><td>Name of River Bed</td><td>Narmada Riverbed</td></tr>
<tr><td>10.</td><td>Is the river perennial / non-perennial?</td><td>Proposed project area falls in non-perennial riverbed.</td></tr>
<tr><td>11.</td><td>Lease area (submerged / in stream / on dry river bed)</td><td>In dry riverbed area</td></tr>
<tr><td>12.</td><td>All coordinates of the lease area as per Approved Mining Plan</td><td>
<table>
<tr><th>Pillar No.</th><th>Latitude</th><th>Longitude</th></tr>
<tr><td>1</td><td>21°55'55.6400"N</td><td>73°15'03.6801"E</td></tr>
<tr><td>2</td><td>21°55'57.5676"N</td><td>73°15'14.1899"E</td></tr>
<tr><td>3</td><td>21°55'52.7632"N</td><td>73°15'15.2036"E</td></tr>
<tr><td>4</td><td>21°55'52.6965"N</td><td>73°15'04.3006" E</td></tr>
</table>
</td></tr>
<tr><td>13.</td><td>Manpower requirement</td><td>6 Manpower</td></tr>
<tr><td>14.</td><td>Applicability of CRZ Notification</td><td>Na</td></tr>
<tr><td>15.</td><td>Minimum Setback distance proposed to be maintained from River Bed (m)</td><td>470 m</td></tr>
<tr><td>16.</td><td>Minimum buffer distance from bridge piers / water intake wells / irrigation structures</td><td>None within 1 Km</td></tr>
<tr><td>17.</td><td>Maximum depth of sand removal (3 m or water depth whichever is less)</td><td>3 m</td></tr>
<tr><td>18.</td><td>Width of Riverbed (m)</td><td>1.10 Km</td></tr>
<tr><td>19.</td><td>Average depth of water at lease area (m)</td><td>20 to 26 m</td></tr>
<tr><td>20.</td><td>Depth of mining (m)</td><td>3 m</td></tr>
<tr><td>21.</td><td>Ground Water Table in meter BGL</td><td>20 to 26 m</td></tr>
<tr><td>22.</td><td>Does ground water interfere approach road exit? (Yes / No)

If yes, status report of CGWA</td><td>No</td></tr>
</table>

23.	Distance between lease and main road	0.98 Km
24.	Length of kaccha road (m)	0.48 Km
25.	Length of pacca road (m)	0.50 Km
26.	Plan for making pacca road	Making of approach road from mine to near village road on hired basis. Cost of making approach road:- Average Rs.75,000/- which is included in capital cost of EMP.
27.	Source of fresh water	Through Water Tanker
28.	Water requirement (kLPD)	5 KLD
	a. Domestic	1.0 KLD
	b. Dust suppression	3.0 KLD
	c. Gardening / Green belt development	1.0 KLD
	d. others	--
29.	Whether the Undertaking is submitted for identical information provided in Form I, Approved Mining Plan, Project Details validated by District Geologist, Pre-Feasibility Report, Lease Document, Environment Management Plan and other documents	Yes

B. Environmental Sensitivities:

Sr NO	**Environmental Sensitivities**	**Actual Distance**	**Minimum Distance**	**Reference**
1.	Residential	Ranapur Village - 0.61 Km (Population- 1166 as per Census 2011)	100 m (When Blasting is not involved)	As per order of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020
	Public buildings	Ranapur Post Office – 0.70 Km Primary School at Simri – 7.23 Km PHC at Simri Village – 9.30 Km		As per order of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020
	Inhabited sites	None within 1 Km		
2.	A. Major Bridge	None within 1 Km	1 km	On both sides of the lease (as per Sustainable Sand Mine Guideline of MOEF&CC)
	B. Highway	None within 1 Km	1 km	On both sides of the lease (as per Sustainable Sand Mine Guideline of MOEF&CC)
OR				
3.	Bridge(Span of Bridge as X)	NA	e.5X in upstream or 250 m. f. 10X in down	As per Sustainable Sand Mine Guideline of MOEF&CC

			stream or 500 m	
4.	Public Structure including water intake wells	NA	e.5X in upstream or 250 m. f. 10X in down stream or 500 m	As per Sustainable Sand Mine Guideline of MOEF&CC
5.	Depth of working	3 m	1 M or water level whichever is early	As per order of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020)
6.	Set Back Distance to prevent river bank erosion	470 m	10 M or 1/4th of width of river	As per order of Honorable SC dtd 27.02.2020 and Sustainable Sand Mine Guideline of MOEF&CC
7.	Mineable Material per Hectare area for actual mining shall not exceed maximum production	1,20,000 MTPA	60,000 MTPA Per Hectare	As per Sustainable Sand Mine Guideline of MOEF&CC
8.	Water supply Scheme/Irrigation structure	None within 1 Km	200 M	As per Sustainable Sand Mine Guideline of MOEF&CC
9.	Railway Line	Malsar- Karjan Railway Line – 6.0 Km	100 M	As per Sustainable Sand Mine Guideline of MOEF&CC
10.	Reservoir/Canal	Canal- 1.28 Km	100 M	As per CPCB Distance Criteria And order of of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020
11.	Other Road	Village Road – 0.68 Km SH 160 – 4.14 Km NH 8 – 19.16 Km	100 M	As per CPCB Distance Criteria And order of of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020
12.	Eco-Sensitive Zone (if notified)	Shoolpaneshwar Wildlife Sanctuary – 25.30 Km	>1 km / outside the notified Eco-Sensitive Zone	Vide directives of MOEF&CC dtd 16.07.2020
13.	Eco-Sensitive Zone (if not notified)	None within the 10 Km	>1 km and <10 km = Prior Clearance from NBWL is required	Vide directives of MOEF&CC dtd 16.07.2020
14.	Distance of Coastal line from the site	NA	>500 M from HTL	Amended CRZ Notification 2011

C. Details of Mining:

1.	Method of Mining (Manual / Semi-mechanized / Mechanized).	Semi-mechanized open cast mining method
2.	Equipments to be used for Mining bulldozers, hydraulic excavators, JCB, scrapers, loaders, Diesel Pump, etc.)	-Hydraulic excavator is used for excavation and loading of sand. -Trucks and dumper is used or transportation of sand.
3.	Whether it includes blasting?	No
4.	Details of Authorized Blasting Agency with date of validity certificate	NA
5.	Procedure / SOP (in brief)	Mining operations will be proposed by Semi-mechanized open cast method with use of Hydraulic excavator for loading of sand into the dumper.
6.	Details of Blasting Parameters in brief	NA
7.	Frequency of blasting	NA
8.	Impact of blasting	NA
9.	Outcome of Vibration study	NA
10.	Blasting Activity Management Plan	NA
11.	Use of any Chemical with quantity	NA
12.	Precautions taken for Human Safety in brief	NA
13.	Crusher provided? If Yes, Measures taken for Air Pollution Control	NA
14.	Compliance of DGMS Guidelines for Blasting	NA
15.	Compliance of Sustainable Sand Mine Guidelines published by MoEFCC in 2016	Compliance of sustainable sand min guidline will be submitted at the time of Final EIA-EMP submission.
16.	Whether Replenishment Rate Study is approved by District Geologist? If yes, conclude in brief	It will be carried out during EIA-EMP study.

D. Details of Green Belt Development:

1.	a. Green belt development budget	Capital Cost:- Rs.45,000/- Recurring Cost:- Rs. 25,000/-
	b. Green belt area / location	Trees will be planted on the both sides of approach road.
	c. No. of trees to be planted	100 trees
	d. Types of trees to be planted	Mainly local species such as Neem, Asopalav, Pipal and Nilgiri will be planted.

E. Details of Environment Management Plan:

1.	**Details of EMP**	**Impact**	**Mitigation Measures**

		a. Land Environment	• The lease area is government land (Riverbed Paiki) and mining will lead to change in land use pattern.	• All the activities shall be restricted within Q.L area. • Plantation activities to be carried out on both sides of approach road. • This is a river sand quarry project the sand will be replenished every year during the rainy season. • The mining activity restricated up to the depth of 3 m from riverbed.	
		b. Water Environment	• Waste water generated from mine office • No waste during the course of mining operation	• Waste water generated from office building will be diverted to septic tank followed by soak pit	
		c. Air Environment	•The sources of air pollution are dust generated due to excavation, loading and unloading of material, movement of dumpers. It may cause pollution in environment. • Impact on health due to fugitive dust emissions.	• Sprinkling of water will be done on roads as well as stockpile • Proper maintenance of vehicles to minimize the pollutants. • The trucks will be covered while moving the material. • Development of green belt/plantation nearby road.	
		d. Noise Environment	• Movement of trucks • Operation of machineries	• Ear plugs / earmuffs will be provided to workers. The workers will not be allowed to work more than one hour in noise prone area. • Plantation will be carried out along mining lease boundary green belt minimizes propagation of noise. • Proper maintenance of vehicles will be done, Mine operations will be limited to day time i.e. 9AM to 6PM.	

				• Power horns will not be allowed in trucks.
		e. Biological Environment	• As it is Sand mining project, activities will be confined to core zone only. Thus no direct impact is foreseen on the flora & fauna of the surrounding area whereas activities related to mining as transportation of minerals and passage of workers to and from mining area will have an adverse impact.	• Mining activities will be restricted to day time so that fauna will not disturb at night. • Tar road will be used for transportation to minimize fugitive emissions. • Material will be covered during transportation. • Water sprinkling will be done on haul roads to control fugitive emissions.
		f. Human Environment	• Fugitive dust emission could have potential impact on human health	• Persons working in dusty area to be provided with protective gears such as helmets, dust masks, ear muff etc.; • Regular water sprinkling at dust generating areas, haul roads. • Occupational health checkup of all workers working in mine and pulmonary function test for workers working in dusty areas.
		g. Others	--	--
	2.	Occupational health & safety measures as per DGMS	• Workers continuously exposed to higher noise levels will be provided ear muffs/ear plugs. • Regular health checkup of all the workers working in mine.	
	3.	Safety measures proposed		
		a. Is First Aid facility provided by PP?	Yes	
		b. Details of PPEs	Helmet, Safety Shoes , Hand Gloves , Dust Mask , Ear Plugs	
		c. Whether Registration of Workers under Building and other Construction Workers' (regulation of Employment & Conditions of Service) Act, 1996 and as Beneficiaries with the Gujarat Building and other Construction Workers Welfare	No	

	Boards is obtained or not?	
	d. Insurance of Workers	NA
	e. Health checkup plan of workers	Health check-up for workers once in year.

F. Transportation:

1.	No. of vehicles per day carrying Minerals	16
2.	Fugitive dust emission control measures	Sprinkling of water twice in a day
3.	Route plan in brief	Lease Area – Approach Road –Village Road – State Highway

G. Financial details of the Project:

1.	Total cost of the project (Lakh)	Rs. 109.45 Lakh
	a. Upfront cost (Lakh)	NA
	b. Performance Security (Lakh)	NA
	c. Total Royalty (Lakh)	Rs. 96,00,000/-
	d. Weigh Bridge Cost (Lakh)	Rs. 5,00,000/-
	e. Labor cost equipment (Lakh)	Rs. 3,00,000/-
	f. Equipment protection and implementation cost (Lakh)	Rs. 4,20,000/-
	g. Green Belt Development & maintenance cost (Lakh)	Capital Cost – Rs. 45,000/- Recurring Cost – Rs. 25,000/-
	h. Cost of EMP (Lakh)	Capital Cost – Rs. 4,07,000/- Recurring Cost – Rs. 1,96,000/-
	i. Cost of Safety measures (Lakh)	Recurring Cost:- Rs. 36,000/-
	j. Cost of Post-Closure Mine Plan (Lakh)	Rs. 4,00,000/-
2.	Budget allocated for CER (Lakh)	Rs. 2,20,000/-
3.	Is need based survey for CER carried out? (Yes / No) If yes, give details of activities along with Budgetary Outlay	No Need based Year wise fund allocation for proposed activities will be given after EIA study.

H. Restoration / Reclamation Plan:

1.	Restoration / Reclamation Details	The mined out area (03.72.04 hectares) will be refilled with sand during monsoon every season.
2.	Post mining closure plan	As per the provisions of GMMCR, 2017 the post clouser mine plan will be prepared at the end of life of mine.
3.	Backfilling material and its quantity	NA
4.	Size of void for Rain Water Harvesting after backfilling	NA
5.	Post Closure Liability / Safety aspects and Measures to be taken to avoid wild life and	Financial assurance will be given as a part of final mine closure plan.

	human accidents/ causalities	
6.	Display of Caution Boards at strategic locations on the periphery of the pit area	Provisions of GMMCR, 2017 will be complied as a part of lease deed condition.
7.	Final Use of reservoir/ reclaimed land	NA

I. Details of Legal Action / Court Case:

1.	Details of Pending Court matter / Public Litigation Cases in any court of Law	NA
2.	Details of Action taken by GPCB, if any	NA
3.	Details of public complaint , if any	NA
4.	Compliance of EC by RO-GPCB or MoEFCC-Bhopal	NA

Deliberation:

Committee deliberated on the Google Earth Images shown by the PP and noted that the coordinates of the lease are submerged in the river. Hence, Committee asked PP to submit Google Earth images of the lease area for last 5 years for all seasons (except monsoon season) with date and time so as to verify the status of submergence of the lease area during these seasons. Hence, Committee unanimously decided to consider the proposal after submission of afore-stated details in upcoming SEAC meeting.

ADDITIONAL AGENDA

1. BUILDING LIMESTONE MINING, DIST: JUNAGADH

Application No	Name of Project	S.No	Village	Taluka	Dist	Lease Area	Validity of lease	ROM	Nearest Human Habitation	End Use	Investment in Rs	Date of Application Received by SEAC
SIA/GJ/MIN/45486/2019	M/s Sangavada Building Limestone Block – B Quarry	28 paiki Block – B	Sangavada	Mangrol	Junagadh	3.24.00 Ha	LoI valid up to 2049	54950 MTPA	Shil – 0.73 km	construction	151 Lacs	02.03.2020

	Lease											

During SEAC meeting dated **27.03.2020**, PP was asked to submit following details:

a. Looking to HTL and location of proposed lease area, committee unanimously decided to ask project proponent to submit opinion of Gujarat Coastal Zone Management Authority (GCZMA) regarding applicability of the CRZ Notification.

On **18.12.2020**, PP has submitted reply as follows:

a. PP has submitted the approvedCoastal Zone Map in the public domain in accordance with the CRZ Notification 2011 approved by GCZMA. PP has informed that the project boundary is superimposed over the geo-referenced Coastal Zone Management Plan Sheet No. F 42 Q 4/NW and it is learnt that from the Arabian sea side, the project is located at a distance of 755 Meters and from the river side the project is located at a distance of 130 meters. The distance of the project from the No Development Zone is 40-45 meters.

Deliberation:

During the meeting, Committee noted that the lease is located at the distance of 755 m from the HTL and 130 m away from the river side.

After scoping for the aforementioned proposal, committee decided to consider the proposal under B1 category keeping cluster situation & Hon'ble National Green Tribunal Order dated 13 September 2018 in view, It was decided to recommend TOR approved by SEIAA on 07/03/2019 for **Non sand mining without blasting** for conducting the EIA study to be done for the proposals in cluster considering 10 Km radius from the periphery of the mine lease area including public hearing including additional TOR to SEIAA as per **Annexure – III**.

2. QUARTZ MINE, DIST: MAHISAGAR

Application No	Name of Project	S.No	Village	Taluka	Dist	Lease Area	Validity of lease	ROM	Nearest Human Habitation	End Use	Investment in Rs	Date of Application Received by SEAC
PMIN/336	Debhari Quartz Mine	261/P	Debhari	Virpur	Mahisagar	02.62.00 Ha.	New Lease Lease granted vide Order	38,397 MTPA	Umariya 0.160 km	For Glass, Refractory Industrial	40 lakh	08.10.2020

							No. MCR-102008 – ML-90(7)-CHH1 dated 21.01.2009 for 30 years			purpose		

During SEAC meeting dated **27.11.2020**, PP was asked to submit following details:

a. PP was asked to justify the measures to control the fugitive emission due to silica during working and submit the preparedness to control the fugitive emission along with SOP and free silica getting air borne during working to prevent the impact on human health.
b. PP was asked to submit the Revised CER

On **17.12.2020**, PP has submitted reply as follows:

a. PP has submittedSafe Standard Operating Procedure (SOP) for Reducing risks for Silicosis at Debhari Quartz Mine:

- Workers, supervisor shall wear Dust Masks all the time in the mine area.
- Only authorized person shall be present in the mine area.
- Water to be sprayed at regular interval on haul roads for the dust suppression.
- Material loaded in Dumpers shall be properly covered while moving from one place to another.
- Periodically maintenance of all diesel operated machine shall be done.
- Periodically complete oiling and grease to all vehicle shall be done.
- Green belt around the lease area shall be developed.
- Detailed medical check-ups of all the mine employees will be done once in a year.
- Thoroughly washing hands before eating or drinking in dusty areas.
- Shower and change into clean clothes before leaving work.

b. PP has submitted revised CER as follows:

SN	**Activity**	**Budget (Rs in Lakh)**				
		1st year	2nd year	3rd year	4th year	5th year

1	Health Camp in the nearest village (consisting of free consultation with Doctor)	2.5	2.5	-	-	-
2	Development Program: Plantation along the roads of village	1.25	1.25	-	-	-

Deliberation:

The Committee perused the reply and found that the details submitted by the PP are not satisfactory. Therefore, the Committee asked the PP to obtain the Standard Operating Procedures/Guidelines issued by the Industries and Mines Department regarding the occupational and health aspects of workers working in free silica prone mines and submit the point wise compliance / implementation plan thereof in context with their proposal.

3. BAUXITE MINING, DIST: PORBANDAR

Application No	Name of Project	S. No.	Village	Taluka	Dist	Lease Area	Validity of lease	ROM	Nearest Human Habitation	End Use	Investment in Rs	Date of Application Received by SEAC
SIA/GJ/MIN/21621/2020	Indulal C.Vora	271 paiki (Govt)	Palakhada	Porbandar	Porbandar	4.89.78 Ha		53072 TPA	Gamun – 4.5 km	Cement factories	109 lakh	08.09.2020

During SEAC meeting dated **23.10.2020**, PP was asked to submit the following details:

a. Committee asked PP to submit detailed production since grant of lease validated by the district geologist representing month wise production taken for the each year till the current month

On **17.12.2020**, PP has submitted year-wise production details validated by District Geologist, Porbandar as below:

Sr. No.	Year	Production (MT)
1.	1985	0
2.	1986	0
3.	1987	57
4.	1988	97
5.	1989	80
6.	1990	60
7.	1991	60
8.	1992	70
9.	1993	90
10.	1994	42
11.	1995	38
12.	1996	38
13.	1997	38
14.	1998	35
15.	1999	35
16.	2000	36
17.	2001	434
18.	2002	7840
19.	2003	3030
20.	2003-04	13460
21.	2004-05	15550
22.	2005-06	30430
23.	2006-07	114746.755
24.	2007-08	63250.175
25.	2008-09	138700
26.	2009-10	48700
27.	2010-11	21579.445
28.	2011-12	5550
29.	2012-13	29850
30.	2013-14	37900
31.	2014-15	18900
32.	2015-16	9300
33.	2016-17	41880
34.	2017-18	42168.15
35.	2018-19	81500
36.	2019-20	61692.78

Deliberation:

Committee found the reply satisfactory.

Considering above and referring Clause-9 of OM dtd. 09.09.2019, Committee unanimously decided to recommend ToR-Violation as per **Annexure IV.**

The draft EIA report also covering the above TOR-Violation shall be prepared and submitted to the GPCB for conducting the public hearing / consultation process as per the provisions of the EIA Notification.

4. RIVERBED SAND MINING, DIST: JAMNAGAR

Application Number	Name of Project	S.No	Village	Taluka	Dist	Lease Area	Validity of lease	River	ROM	Nearest Human Habitation	End Use	Investment in Rs	Date of Application Received by SEAC
SIA/GJ/MIN/53077/2020	Rana Pushparaj	Block No.14, Adjoining Sr.no. 70 4 Und NadiPatt paiky	Bhadra	Jodiya	Jamnagar	01.50.00 Ha	LoI dated 13.11.2019 for 5 years.	Und	22680 MTPA	Majoth – 0.73 km	For road and building contruction	44.38 Lakh	21.05.2020

During SEAC meeting dated **09.06.2020**, PP was asked to submit the following details:

a. Re-verify shortest aerial distance between proposed lease boundary and bridge piers validated by District Geologist.

On **16.12.2020**, PP has submitted the letter of R&B Department, Jamnagar stating that, No State Highway or Bridge, Coz-way or Structure is located within 500 m from the lease area.

Deliberation:

Committee found the reply satisfactory.
After scoping for the aforementioned proposal, committee decided to consider the proposal under B1 category & Hon'ble National Green Tribunal Order dated 13 September 2018 in view. It was decided to recommend TOR approved by SEIAA on 07/03/2019 for **river bed sand mining** for conducting the EIA study to be done for cluster situation evaluating cumulative impact of the mining leases in cluster considering 10 Km radius from the periphery of the mine lease area including public hearing including project**specific TOR as per Annexure – I.**

5. CHINA CLAY MINING, DIST: KUTCH

Application No	Name of Project	S.No.	Village	Taluka	Dist	Lease Area	Validity of lease	ROM	Nearest Human Habitation	End Use	Investment in Rs	Date of Application Received by SEAC
SIA/GJ/MIN/39152/2020	Raghabhai Ratabhai Dangar	Private sr. no. 453/2 & 454 paiki	Nadapa	Bhuj	Kutch	04.01.00 ha	LoI issued on 22.07.2011 for 30 years	235284 MTPA	Nadapa – 2.77 km	Ceramic industries	211.90 lakh	17.08.2020

During SEAC meeting dated **16.10.2020**, PP was asked to submit the following details:

a. PP was asked to submit approved mine plan with corrected co-ordinates as mentioned in uploaded documents in application.

On **01.12.2020**, PP has submitted Modified Mining Plan approved by District Geologist, Kutch with identical information of coordinates.
Deliberation:

Committee found the reply submitted by PP satisfactory.

After scoping for the aforementioned proposal, committee decided to consider the proposal under B1 category keeping cluster situation & Hon'ble National Green Tribunal Order dated 13 September 2018 in view, It was decided to recommend TOR approved by SEIAA on 07/03/2019 for **Non sand mining without blasting** for conducting the EIA study to be done for the proposals in cluster considering 10 Km radius from the periphery of the mine lease area including public hearing including additional TOR to SEIAA as per **Annexure – III**.

6. RIVER BED SAND MINING, DIST: NAVSARI

Application No.	Name of Project	S.No.	Village	Taluka	Dist	Lease Area	Validity of lease	ROM	River	Nearest Human Habitation	End Use	Investment in Rs	Date of Application Received by SEAC
PMIN - 160	M/s. Shri Shantaben Ramanlal Barot	Sr.No. 684 ni same AmbicaNa diPatt (Gov. Land)	Devsar	Gandevi	Navsari	0.44.00 Ha	Extendable upto 2022 as validate by District geologist in Project Details	15,320 MTPA	Ambica	Devsar – 0.6 km	Construction	50 Lacs	18.03.2020

During SEAC Meeting held on 17.06.2020, the proposal was considered. After the detailed discussion, committee asked the PP to submit following details:

i. To get the study report for replenishment rate validated by the office of Commissioner, Geology and Mine and resubmit the same
ii. Compliance of Sustainable Sand Mining Guideline of MoEFCC
iii. Revised EMP with budgetary provision including break up of each activity

On 16.09.2020, PP has submitted the reply:

i. PP has submitted the replenishment rate study report validated by District Geologist, Navsari mentioning that, "replenishment is more than planned annual production over the period of three years"

ii. PP has submitted Compliance of Sustainable Sand Mining Guideline of MoEFCC

iii. PP has submitted break up of EMP for each activity:

Sr. No.	**Measures**	**Capital Cost (in Rs.)**	**Recurring cost (in Rs.)**
1.	Pollution monitoring – Air, Water, Noise and Soil (every six monthly)	Nil	50,000
Expenses for Air pollution mitigation			
2.	Dust Suppression	On hiring basis	67,600
3.	Plantation including maintenance	30 plants *250/- = 7,500	9,000
4.	Budget allocated for CER	80,000	--
	Total	**87,500/-**	**1,26,600/-**

Then after, on **12.10.2020**, the proposal was scheduled, however the Committee couldn't find the result of Replenishment Study Report submitted satisfactory as it mentioned that the replenishment is more than planned annual production over the period of three years.

On **26.11.2020**, the PP has submitted revised Mining plan approved by the District Geologist, Navsari by reducing the production at the rate of 8000 MTPA instead of 15320 MTPA.

Deliberation:

Committee found the reply satisfactory.

Considering the anticipated impacts of mining, mitigation measures proposed by the lease holder, committee unanimously decided to recommend the above proposal for grant of environmental clearance to SEIAA, subject to the strict implementation of conditions mentioned for Sand Mining Project approved by SEAC on 09/08/2017 and by SEIAA on 16/09/2017 with following **specific condition as per Annexure – V.**

7. ORDINARY SAND MINING, DISTRICT : NAVSARI

Application No	Name of Project	S.No	Village	Taluka	Dist	Lease Area	Lease validity	ROM	River	Nearest Human Habitation	End Use	Investment in Rs	Date of Application Received by SEAC
PMIN/330	Shri Jagdishbhai Babubhai Patel	55,56, 57,58/ 60, 45 ni *same*	Devdha	Gandevi	Navsari	02.46.00 Ha	No. AGAN /QL/Sand/211/1201 dated 22.04.2015 As per GMMC (Amendment) Rules-2018 Rule 12 (ii)(b) lease is extended upto 2022	66,420 MTPA	Ambika	Devdha 0.572 km	For construction purpose	Rs. 77,35,500	01.10.2020

During SEAC meeting dated **27.11.2020**, PP was asked to submit the following details:

a. PP was asked to submit Replenishment Rate Study Report.

On **23.12.2020**, PP has submitted Modified Mining Plan approved by District geologist, Navsaristating that the extracted quantity is automatically get replenished by rainfall in the monsoon season by the river / nallah itself on the accounts of its flow and velocity.

Deliberation:

Committee found the reply satisfactory.

Considering the anticipated impacts of mining, mitigation measures proposed by the lease holder, committee unanimously decided to recommend the above proposal for grant of environmental clearance to SEIAA, subject to the strict implementation of conditions mentioned for Sand Mining Project approved by SEAC on 09/08/2017 and by SEIAA on 16/09/2017 with following **specific condition as per Annexure – V.**

8. ORDINARY SAND MINE, DIST:RAJKOT

Application No	Name of Project	S.No	Village	Taluka	Dist	Lease Area	Validity of lease	ROM	Nearest Human Habitation	End Use	Investment in Rs	Date of Application Received by SEAC
SIA/GJ/MIN/55885/2020	Shri Omdevsinh Prabhatsinh Jadeja	24/1, 24/3, 25/1 Bhadar River Bed (Block-A). Govt. Land	Chhadvavadar	Dhoraji	Rajkot	3.60.00 Ha	LOI Letter No. CGM/ Lease/ Auction / Minor/ Ordinary Sand/ Rajkot/2019/964 Date-06/03/2019	19,224 MTPA	Dumiyani 1.6 km	For construction purpose	135.72 Crore	09.09.2020

During SEAC meeting dated **29.10.2020**, PP was asked to submit the following details:

a. PP was asked to submit the revised approved mine plan, project details validated by the district geologist, Prefeasibility report having identical information

On **17.12.2020**, PP has submitted revised approved mine plan, project details validated by the district geologist, Prefeasibility report having identical information.

Deliberation:

The agenda for ADS for the proposal was considered in the meeting dated 06.01.2021. However, the PP couldn't present the reply before the Committee.

Hence, Committee unanimously decided to delist the proposal as the considerable time is lapsed.

9. ORDINARY SAND MINING, DISTRICT : KHEDA

Application No	Name of Project	S.No	Village	Taluka	Dist	Lease Area	Lease validity	ROM	River	Nearest Human Habitation	End Use	Investment in Rs	Date of Application Received by SEAC
PMIN/331	Shri Jasubhai K Talapada	96, 68 Vatrak nadi Patt Lagu	Kheda	Kheda	Kheda	02.60.00 Ha	Letter No. QL/1223/Renew/1605/3522 dated 01.08.2009 Revision order No. Ravaz/102012/85/R-28/Kheda/Appeal on dated 06.01.2016. As per GMMC (Amendment) Rules-2018 Rule	67,075 MTPA	Vatrak	Kheda 0.520 km	For construction purpose	Rs. 78,20,500	01.10.2020

							12 (ii)(b) lease is extended upto 2022						

During SEAC meeting dated **27.11.2020**, PP was asked to submit the following details:

a. PP was asked to submit Replenishment Rate Study Report.

On **17.12.2020**, PP has submitted Replenishment Rate Study Report stating that the Replenishment is more than the planned annual production.

Deliberation:

Committee found the reply satisfactory.

Considering the anticipated impacts of mining, mitigation measures proposed by the lease holder, committee unanimously decided to recommend the above proposal for grant of environmental clearance to SEIAA, subject to the strict implementation of conditions mentioned for Sand Mining Project approved by SEAC on 09/08/2017 and by SEIAA on 16/09/2017 with following **specific condition as per Annexure – V.**

10. GRANITE MINING, DIST:MEHSANA

Application No	Name of Project	S. No.	Village	Taluka	Dist	Lease Area	Validity of lease	ROM	Nearest Human Habitation	End Use	Investment in Rs	Date of Application Received by SEAC
SIA/GJ/MIN/55011/2020	Devangna A Patel	374 paiki (old sr no. 19	Bhatvas	Satlasana	Mehsana	4.62.00 Ha	LoI granted on 10.08.2018 for 10 years	10000 MTPA	Bhatvas - 0.97 Km	For road and Building construction	289.50 lakhs	17.08.2020 Deferred on 23.09.20

		5 paiki) (block no. 4)										

During SEAC meeting dated **13.11.2020**, PP was asked to submit the following details:

a. PP was asked to submit the revisedapproved mine plan, project details and prefeasibility report having uniform details.

On **04.01.2021**, PP has submitted revisedapproved mine plan, project details and prefeasibility report having uniform details.

Deliberation:

Committee found the reply satisfactory.

After scoping for the aforementioned proposal, committee decided to consider the proposal under B1 category keeping cluster situation & Hon'ble National Green Tribunal Order dated 13 September 2018 in view, It was decided to recommend TOR approved by SEIAA on 07/03/2019 for **Non sand mining without blasting** for conducting the EIA study to be done for the proposals in cluster considering 10 Km radius from the periphery of the mine lease area including public hearing including additional TOR to SEIAA as per **Annexure – III**.

FOLLOWING PROPOSALS WERE CONSIDERED DURING VARIOUS SEAC MEETING AND ADDITONAL DETAILS WERE SOUGH.AS THE CONSIDERABLE TIME IS LAPSED AND REPLY IS NOT SUBMITTED BY THE PROJECT PROPOENRT, IT IS DECIDED TO DELIST THE FOLLOWING PROPOSALS.

1. **RIVERBED SAND MINING, DIST: PORBANDAR**

Application No.	Name of Project	S.No	Village	Taluka	Dist	Lease Area	ROM	River	Nearest Human Habitat	End Use	Investment in Rs	Date of Application Receiv

									ion			ed by SEAC
PMIN - 104	Mayurbhai Viramb hai Karava dar a	385 ne lagu Nart u Nadi Pa ttPai ki	Fata na	Porban dar	Porban dar	1.00. 00 Ha	700 00 MT PA	Nar tu Na di	Fatan a – 790 m	Constru ction	50.23 Lakh	24.10.2 019 ADS on 07.01.2 0 and 27.11.2 0

2. RIVERBED SAND MINING, DIST: PORBANDAR

Applica tion No.	Nam e of Proje ct	S.No	Villa ge	Taluka	Dist	Leas e Area	ROM	River	Neare st Huma n Habita tion	End Use	Invest ment in Rs	Date of Applica ti on Receiv ed by SEAC
PMIN - 110	Modh av adiya Vanr ajb haiLa kh ansib hai	Sora thi Nadi Patt Paiki	Adva na	Porban dar	Porban dar	3.00. 00 Ha	2,20, 000 MTP A	Sora thi Nadi	Adva na – 970 m	Construc tions	129.50 Lakh	24.10.2 019 ADS on 07.01.2 0 and 27.11.2 0

3. FIRE CLAY MINING, DIST: SURENDRANAGAR

Applica tion No	Name of Projec t	S. No	Villag e	Talu ka	Dist	Leas e Area	Validity of lease	RO M	Neare st Huma n Habita tion	End Use	Invest ment in Rs	Date of Applica tion Receiv ed by SEAC
PMIN/3 32	M/s Ramji bhai Chunil al Kanza ria	17 1 Pai ki	Song adh	Chot ila	Surendra nagar	00.66 .76 Ha.	Lease Renew al Applica tion has been done	26,0 00 MTP A	Songa dh 0.43 km	For Decorativ e and Utensil Manufact uring	------.	01.10.2 020

4. CHALK MINING PROJECT, DIST: PORBANDAR

Application No	Name of Project	S. No.	Village	Taluka	Dist	Lease Area	Validity of lease	ROM	Nearest Human Habitation	End Use	Investment in Rs	Date of Application Received by SEAC
SIA/GJ/MIN 43723/2020	Rasiklal Dahyabhai Patel	Pvt. Land sr. no. 79/1, 79/3 & 98/1 (P)	Adityana	Ranavav	Porbandar	3.24.76 Ha	Operating since 23.04.2011 valid up to 31.03.2035	3596 MTPA	Adityana – 0.76 km	Paint, rubber, putty industries	165.78 Lacs	01.09.2020

Meeting was concluded with thanks from Chair.

Minutes Approved By:

1	Shri A.K.Saxena, Chairman	
2	Dr. S. C. Pant , Vice Chairman, SEAC	
3	Dr. M. N. Patel, Member, SEAC	
4	Shri D. C. Chaudhari, Member, SEAC	
5	Shri J. K. Vyas, Member, SEAC	
6	Shri Anand Zinzala, Member, SEAC	
7	Shri B. M. Tailor, Member, SEAC	
8	Shri G.H.Trivedi, Secretary, SEAC	

Annexure – I
(Specific TOR for proposals of Ordinary Sand Mining)

1. Authentication of ground water level data through concerned agency in order to prevent ground water intersection due to working of mine shall be addressed in detail in EIA report.
2. Community Health Centre for the entire cluster shall be facilitated on permanent basis through a corpus of cluster members.
3. PP shall submit replenishment rate study report prepared by department of Geology and Mining justifying rate of proposed mining is in accordance to rate of replenishment keeping guideline addressed in Sustainable Sand Mining 2016 and its amendment from time to time issued by MOEF&CC.
4. To form a corpus among the lease holders in cluster to identify need of the villages and commitments made by the project proponent to address concerns raised during the public consultation with inclusion of all the activities proposed by the PP or prescribed by SEAC as the case may be to be part of EMP. A mechanism to monitor implementation of these activities shall be framed by the members making a body among cluster.
5. To implement all safety measures regarding protection of lighting in mine as per the guidance manual of DGMS vide circular No: DGMS(Tech) Circular No: 10 of 2020 dtd. 23 June 2020.
6. To address all the concerns raised during the public consultation and to propose need-based activities preferably covering environmental aspects by the PP and shall be part of EMP vide OM dtd 30.09.2020.
7. To conduct survey for the approach road for the entire cluster and making a pacca road/s to be used by the concerned lease holders to be used by vehicles carrying mineral up to main road.
8. Vide letter of MOEF&CC dtd 07.07.2020, EIA,EMPsubmitted shall have Plagiarism report complying all the conditions mentioned therein.
9. Environmental Management Plan with details of capital and recurring cost including following details shall be included in EIA:

a. *Measures after post closure/working of mine, measures to be adopted as per OM of MOEF&CC dated 16/01/2020 addressing that after ceasing mining operations, PP shall undertake re-grassing of the mining area and any other area which have been disturbed due to mining activities and restore the land to a condition which is for the growth of fodder, flora and fauna.*
b. *Details of Dust mitigation measures due to mining, handling of mineral, loading, unloading, transportation and other allied activities similar to the applicable measures guided in Notification issued by MOEF&CC dated 25/01/2018 vide GSR 94(E).*

Annexure – II
(Specific TOR for proposals of Non Sand Mining with Blasting)

1. To prepare SOP for blasting including details measures to be taken to warn trespassers/public in vicinity for blasting and address in EIA.

2. Authentication of ground water level data through concerned agency in order to prevent ground water intersection due to working of mine shall be addressed in detail in EIA.

3. A progressive fencing to be put up surrounding to the mine pit under progress is to be facilitated to prevent casualty during work.

4. Community Health Centre for the entire cluster shall be facilitated on permanent basis through a corpus of cluster members.

5. To carry out activities under CER as mentioned in OM of MOEF&CC dtd 01.05.2018, betterment of Great Bustard sanctuary in consultation with DFO shall be explored and implemented along with its upkeep.

6. To conduct survey for the approach road for the entire cluster and making a pacca road/s to be used by the concerned lease holders to be used by vehicles carrying mineral upto main road.

7. A cumulative environmental impact assessment study shall be carried out considering existing and proposed crushing units in study area.

8. To address all safety measures as per the guideline of DGMS including following:

Sr.No.	Rules	Details
1	Metalliferous Mines Regulations, 1961 Rule 106 (2) (B)	Where in any mine or part it is proposed to work by a system of deep-hole blasting and/or with the help of heavy machinery for its digging, excavation and removal in such manner as would not permit of compliance with the requirement of sub-regulation (1) the owner, agent or manager shall, not less than 60 days before starting such work, give notice in writing of the method of working to the Chief Inspector and the Regional Inspector; and no such work shall be commenced to carried out except in accordance with such conditions as the Chief Inspector may specify by an order in writing.

		Every such notice shall be in duplicate, and shall give the details of the method of working including the precautions that are proposed to be taken against the anger from falls of sides and material.
2	Rule 164 (1-B) (a)	Provided further that if the shortest distance from the place of firing to any part of such building or structure is less than 50 meters irrespective of the amount of the charge, no blasting shall be done except with the permission in writing of the Chief Inspector or the Regional Inspector and subject to such conditions as he may specify therein.
3	Rule 156 (1)	Every magazine, or store or premises, where explosives are stored shall be in charge of a competent person who shall be responsible for the proper receipt, storage an issue of explosives.
4	Rule 156 (3)	Explosives shall be issued only to competent persons upon written requisition signed by the blaster or by a official authorized for the purpose, and only against their signature or thumb impression. Such requisition shall be preserved by the person in charge of the magazine or store or premises.
5	Rule 156 (4)	The person in charge of the magazine or store or premises shall maintain, in a bound paged book kept for the purpose, a clear and accurate record of explosives issued to each competent person and a similar record of explosives returned to the magazine or store or premises.
6	Rule 160 (1)	The preparation of charges an the charging and stemming of holes shall be carried out by or under the personal supervision of a competent person, in these regulations referred to as a 'blaster'. The blaster shall fire the shots himself.
7	Rule 160 (2)	No person shall be appointed to be a blaster unless he is the holder of Manager's, Foreman's Mate's or Blaster's certificate.

9. To implement all safety measures regarding protection of lighting in mine as per the guidance manual of DGMS vide circular No: DGMS(Tech) Circular No: 10 of 2020 dtd. 23 June 2020.

10. Carry out need based survey for CER and give details of budgetary provision for five years for effective utilization of the same.
11. Vide letter of MOEF&CC dtd 07.07.2020, EIA,EMP submitted shall have Plagiarism report complying all the conditions mentioned therein.
12. Environmental Management Plan with details of capital and recurring cost including following details shall be included in EIA:

a. *Measures after post closure/working of mine, measures to be adopted as per OM of MOEF&CC dated 16/01/2020 addressing that after ceasing mining operations, PP shall undertake re-grassing of the mining area and any other area which have been disturbed due to mining activities and restore the land to a condition which is for the growth of fodder, flora and fauna.*

b. *Details of Dust mitigation measures due to mining, handling of mineral, loading, unloading, transportation and other allied activities similar to the applicable measures guided in Notification issued by MOEF&CC dated 25/01/2018 vide GSR 94(E).*

Annexure – III
(Specific TOR for proposals of Non Sand Mining without Blasting)

1. Authentication of ground water level data through concerned agency in order to prevent ground water intersection due to working of mine shall be addressed in detail in EIA.
2. A progressive fencing to be put up surrounding to the mine pit under progress is to be facilitated to prevent casualty during work.
3. Community Health Centre for the entire cluster shall be facilitated on permanent basis through a corpus of cluster members.
4. To form a corpus among the lease holders in cluster to identify need of the villages in vicinity and use fund under CER for effective utilization in consultation with local gram-panchayat /local body for the activities mentioned in OM of MOEF&CC for CER dtd 01.05.2018.
5. To implement all safety measures including protection of lighting in mine as per the guidance manual of DGMS vide circular No: DGMS(Tech) Circular No: 10 of 2020 dtd. 23 June 2020.
6. To conduct survey for the approach road for the entire cluster and making a pacca road/s to be used by the concerned lease holders to be used by vehicles carrying mineral up to main road.
7. To address all safety measures as per the guideline of DGMS including Following:

Sr. No.	Rules	Details
1	Metalliferous Mines Regulations, 1961 Rule 106 (2) (B)	Where in any mine or part it is proposed to work by a system of deep-hole blasting and/or with the help of heavy machinery for its digging, excavation and removal in such manner as would not permit of compliance with the requirement of sub-regulation (1) the owner, agent or manager shall, not less than 60 days before starting such work, give notice in writing of the method of working to the Chief Inspector and the Regional Inspector; and no such work shall be commenced to carried out except in accordance with such conditions as the Chief Inspector may specify by an order in writing. Every such notice shall be in duplicate, and shall give the details of the method of working including the precautions that are proposed to be taken against the anger from falls of sides and material.

2	Rule 164 (1-B) (a)	Provided further that if the shortest distance from the place of firing to any part of such building or structure is less than 50 meters irrespective of the amount of the charge, no blasting shall be done except with the permission in writing of the Chief Inspector or the Regional Inspector and subject to such conditions as he may specify therein.
3	Rule 156 (1)	Every magazine, or store or premises, where explosives are stored shall be in charge of a competent person who shall be responsible for the proper receipt, storage an issue of explosives.
4	Rule 156 (3)	Explosives shall be issued only to competent persons upon written requisition signed by the blaster or by a official authorized for the purpose, and only against their signature or thumb impression. Such requisition shall be preserved by the person in charge of the magazine or store or premises.
5	Rule 156 (4)	The person in charge of the magazine or store or premises shall maintain, in a bound paged book kept for the purpose, a clear and accurate record of explosives issued to each competent person and a similar record of explosives returned to the magazine or store or premises.
6	Rule 160 (1)	The preparation of charges an the charging and stemming of holes shall be carried out by or under the personal supervision of a competent person, in these regulations referred to as a 'blaster'. The blaster shall fire the shots himself.
7	Rule 160 (2)	No person shall be appointed to be a blaster unless he is the holder of Manager's, Foreman's Mate's or Blaster's certificate.

8. Vide letter of MOEF&CC dtd 07.07.2020, EIA,EMP submitted shall have Plagiarism report complying all the conditions mentioned therein.
9. Environmental Management Plan with details of capital and recurring cost including following details shall be included in EIA:

Annexure – IV

TERMS OF REFERENCE FOR THE PROJECTS FALLING UNDER CATEGORY 1 (a), (MINING SECTOR) INCLUDING PROJECT SPECIFIC TOR FOR VIOLATION OF EIA NOTIFICATION 2006

1. Year-wise production details since 1994 should be given, clearly stating the highest production achieved in any one year prior to 1994. It may also be categorically informed whether there had been any increase in production after the EIA Notification 1994 came into force, w.r.t. the highest production achieved prior to 1994.
2. A copy of the document in support of the fact that the Proponent is the rightful lessee of the mine should be given.
3. All documents including approved mine plan, EIA and Public Hearing should be compatible with one another in terms of the mine lease area, production levels, waste generation and its management, mining technology etc. and should be in the name of the lessee.
4. All corner coordinates of the mine lease area, superimposed on a High Resolution Imagery/ toposheet, topographic sheet, geomorphology and geology of the area should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone).
5. Information should be provided in Survey of India Toposheet in 1:50,000 scale indicating geological map of the area, geomorphology of land forms of the area, existing minerals and mining history of the area, important water bodies, streams and rivers and soil characteristics.
6. Details about the land proposed for mining activities should be given with information as to whether mining conforms to the land use policy of the State; land diversion for mining should have approval from State land use board or the concerned authority.
7. It should be clearly stated whether the proponent Company has a well laid down Environment Policy approved by its Board of Directors? If so, it may be spelt out in the EIA Report with description of the prescribed operating process/procedures to bring into focus any infringement/deviation/ violation of the environmental or forest norms/ conditions? The hierarchical system or administrative order of the Company to deal with the environmental issues and for ensuring compliance with the EC conditions may also be given. The system of reporting of non-compliances / violations of environmental norms to the Board of Directors of the Company and/or shareholders or stakeholders at large,may also be detailed in the EIA Report.
8. Issues relating to Mine Safety, including subsidence study in case of underground mining and slope study in case of open cast mining, blasting study etc. should be detailed. The proposed safeguard measures in each case should also be provided.
9. The study area will comprise of 10 km zone around the mine lease from lease periphery and the data contained in the EIA such as waste generation etc. should be for the life of the mine / lease period.
10. Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies, human

settlements and other ecological features should be indicated. Land use plan of the mine lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.

11. Details of the land for any Over Burden Dumps outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be given.
12. A Certificate from the Competent Authority in the State Forest Department should be provided, confirming the involvement of forest land, if any, in the project area. In the event of any contrary claim by the Project Proponent regarding the status of forests, the site may be inspected by the State Forest Department along with the Regional Office of the Ministry to ascertain the status of forests, based on which, the Certificate in this regard as mentioned above be issued. In all such cases, it would be desirable for representative of the State Forest Department to assist the Expert Appraisal Committees.
13. Status of forestry clearance for the broken up area and virgin forestland involved in the Project including deposition of net present value (NPV) and compensatory afforestation (CA) should be indicated. A copy of the forestry clearance should also be furnished.
14. Implementation status of recognition of forest rights under the Scheduled Tribes and other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 should be indicated.
15. The vegetation in the RF / PF areas in the study area, with necessary details, should be given.
16. A study shall be got done to ascertain the impact of the Mining Project on wildlife of the study area and details furnished. Impact of the project on the wildlife in the surrounding and any other protected area and accordingly, detailed mitigative measures required, should be worked out with cost implications and submitted.
17. Location of National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, Ramsar site Tiger/ Elephant Reserves/(existing as well as proposed), if any, within 10 km of the mine lease should be clearly indicated, supported by a location map duly authenticated by Chief Wildlife Warden. Necessary clearance, as may be applicable to such projects due to proximity of the ecologically sensitive areas as mentioned above, should be obtained from the Standing Committee of National Board of Wildlife and copy furnished.
18. A detailed biological study of the study area [core zone and buffer zone (10 km radius of the periphery of the mine lease)] shall be carried out. Details of flora and fauna, endangered, endemic and RET Species duly authenticated, separately for core and buffer zone should be furnished based on such primary field survey, clearly indicating the Schedule of the fauna present. In case of any scheduled-I fauna found in the study area, the necessary plan alongwith budgetary provisions for their conservation should be prepared in consultation with State Forest and Wildlife Department and details furnished. Necessary allocation of funds for implementing the same should be made as part of the project cost.

19. Proximity to Areas declared as 'Critically Polluted' or the Project areas likely to come under the 'Aravali Range', (attracting court restrictions for mining operations), should also be indicated and where so required, clearance certifications from the prescribed Authorities, such as the SPCB or State Mining Department should be secured and furnished to the effect that the proposed mining activities could be considered.
20. Similarly, for coastal Projects, A CRZ map duly authenticated by one of the authorized agencies demarcating LTL. HTL, CRZ area, location of the mine lease w.r.t CRZ, coastal features such as mangroves, if any, should be furnished. (Note: The Mining Projects falling under CRZ would also need to obtain approval of the concerned Coastal Zone Management Authority).
21. R&R Plan/compensation details for the Project Affected People (PAP) should be furnished. While preparing the R&R Plan, the relevant State/National Rehabilitation & Resettlement Policy should be kept in view. In respect of SCs /STs and other weaker sections of the society in the study area, a need based sample survey, family-wise, should be undertaken to assess their requirements, and action programmes prepared and submitted accordingly, integrating the sectoral programmes of line departments of the State Government. It may be clearly brought out whether the village(s) located in the mine lease area will be shifted or not. The issues relating to shifting of village(s) including their R&R and socio-economic aspects should be discussed in the Report.
22. One season (non-monsoon) [i.e. March-May (Summer Season); October-December (post monsoon season) ; December-February (winter season) primary baseline data on ambient air quality as per CPCB Notification of 2009, water quality, noise level, soil and flora and fauna shall be collected and the AAQ and other data so compiled presented date-wise in the EIA and EMP Report. Site-specific meteorological data should also be collected. The location of the monitoring stations should be such as to represent whole of the study area and justified keeping in view the pre-dominant downwind direction and location of sensitive receptors. There should be at least one monitoring station within 500 m of the mine lease in the pre-dominant downwind direction. The mineralogical composition of PM10, particularly for free silica, should be given.
23. Air quality modeling should be carried out for prediction of impact of the project on the air quality of the area. It should also take into account the impact of movement of vehicles for transportation of mineral. The details of the model used and input parameters used for modeling should be provided. The air quality contours may be shown on a location map clearly indicating the location of the site, location of sensitive receptors, if any, and the habitation. The wind roses showing pre-dominant wind direction may also be indicated on the map.
24. The water requirement for the Project, its availability and source should be furnished. A detailed water balance should also be provided. Fresh water requirement for the Project should be indicated.
25. Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the Project should be provided.
26. Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided.

27. Impact of the Project on the water quality, both surface and groundwater, should be assessed and necessary safeguard measures, if any required, should be provided.
28. Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided. In case the working will intersect groundwater table, a detailed Hydro Geological Study should be undertaken and Report furnished. The Report inter-alia, shall include details of the aquifers present and impact of mining activities on these aquifers. Necessary permission from Central Ground Water Authority for working below ground water and for pumping of ground water should also be obtained and copy furnished.
29. Details of any stream, seasonal or otherwise, passing through the lease area and modification / diversion proposed, if any, and the impact of the same on the hydrology should be brought out.
30. Information on site elevation, working depth, groundwater table etc. Should be provided both in AMSL and bgl. A schematic diagram may also be provided for the same.
31. A time bound Progressive Greenbelt Development Plan shall be prepared in a tabular form (indicating the linear and quantitative coverage, plant species and time frame) and submitted, keeping in mind, the same will have to be executed up front on commencement of the Project. Phase-wise plan of plantation and compensatory afforestation should be charted clearly indicating the area to be covered under plantation and the species to be planted. The details of plantation already done should be given.The plant species selected for green belt should have greater ecological value and should be of good utility value to the local population with emphasis on local and native species and the species which are tolerant to pollution.
32. Impact on local transport infrastructure due to the Project should be indicated. Projected increase in truck traffic as a result of the Project in the present road network (including those outside the Project area) should be worked out, indicating whether it is capable of handling the incremental load. Arrangement for improving the infrastructure, if contemplated (including action to be taken by other agencies such as State Government) should be covered. Project Proponent shall conduct Impact of Transportation study as per Indian Road Congress Guidelines.
33. Details of the onsite shelter and facilities to be provided to the mine workers should be included in the EIA Report.
34. Conceptual post mining land use and Reclamation and Restoration of mined out areas (with plans and with adequate number of sections) should be given in the EIA report.
35. Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed.
36. Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocations.

37. Measures of socio economic significance and influence to the local community proposed to be provided by the Project Proponent should be indicated. As far as possible, quantitative dimensions may be given with time frames for implementation.
38. Detailed environmental management plan (EMP) to mitigate the environmental impacts which,should inter-alia include the impacts of change of land use, loss of agricultural and grazing land, if any, occupational health impacts besides other impacts specific to the proposed Project.
39. Public Hearing points raised and commitment of the Project Proponent on the same along with time bound Action Plan with budgetary provisions to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project.
40. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
41. The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of EMP should be clearly spelt out.
42. A Disaster management Plan shall be prepared and included in the EIA/EMP Report.
43. Benefits of the Project if the Project is implemented should be spelt out. The benefits of the Project shall clearly indicate environmental, social, economic, employment potential, etc.
44. Besides the above, the below mentioned general points are also to be followed:-
    1. Executive Summary of the EIA/EMP Report
    2. All documents to be properly referenced with index and continuous page numbering.
    3. Where data are presented in the Report especially in Tables, the period in which the data were collected and the sources should be indicated.
    4. Project Proponent shall enclose all the analysis/testing reports of water, air, soil, noise etc. using the MoEF&CC/NABL accredited laboratories. All the original analysis/testing reports should be available during appraisal of the Project.
    5. Where the documents provided are in a language other than English, an English translation should be provided.
    6. The Questionnaire for environmental appraisal of mining projects as devised earlier by the Ministry shall also be filled and submitted.
    7. While preparing the EIA report, the instructions for the Proponents and instructions for the Consultants issued by MoEF&CC vide O.M. No. J-11013/41/2006-IA.II(I)dated 4th August, 2009, which are available on the website of this Ministry, should be followed.
    8. Changes, if any made in the basic scope and project parameters (as submitted in Form-I and the PFR for securing the TOR) should be brought to the attention of MoEF&CC with reasons for such changes and permission should be sought, as the TOR may also have to be altered. Post Public Hearing changes in structure and content of the draft EIA/EMP (other than modifications arising out of the P.H. process) will entail conducting the PH again with the revised documentation.
    9. As per the circular no. J-11011/618/2010-IA.II(I) dated 30.5.2012, certified report of the status of compliance of the conditions stipulated in the environment clearance for the existing operations of the project, should be obtained from the Regional Office of Ministry of Environment, Forest and Climate Change, as may be applicable.
    10. The EIA report should also include (i) surface plan of the area indicating contours of main topographic features, drainage and mining area, (ii) geological maps and sections and (iii) sections of the mine pit and external dumps, if any, clearly showing the land features of the adjoining area.

Beside above standard TOR, following additional TORs are recommended:

1. Project site specific details such as distance of the project site from nearest (1) Village (2) Water Body : River / Creek / Nallah / Lake / Pond / Reservoir / Canal (3) National Highway (4) State Highway (5) Railway line (6) Heritage site (7) National Park / Wild Life Sanctuary /Reserve Forest / Protected Forest shall be included in the rapid EIA report to be prepared covering one season (other than monsoon) data. A map indicating the aerial distance of the lease area from these entities.

2. Distance of nearby mining lease areas from the periphery of the proposed project including a map covering distance of 1 Km from the periphery of the proposed project. In case of no mining lease areas are existing within 500 meter periphery of the proposed project, certificate of the concerned geologist in this regard.

3. Copies of all requisite permissions including permissions from District Collector, Commissioner of Geology & Mining, Indian Bureau of Mines, GPCB, current lease renewal status from Industries and Mine department, Government of Gujarat with opinion of the district geologist regarding compliance of all the conditions in lease deed and copy of renewed lease (if any) etc. to be incorporated.

4. Approved mining plan including progressive mine closure plan shall be provided with EIA report. Letter of approval of IBM shall also be incorporated with compliance of all the recommendations mentioned in approved mining plan.

5. Specific Terms of Reference for the project on assessment of ecological damage, remediation plan and natural and community resource augmentation plan.

1. Ecological damage shall be assessed with respect to air, water, land and other project & location specific environment attributes. The collection and analysis of data shall be done by an environment laboratory duly notified under Environment (Protection) Act, 1986, or an environment laboratory accredited by NABL, or a laboratory of a council of Scientific and Industrial Research (CSIR) institution working in the field of environment.
2. The Environment Management Plan shall be prepared which shall comprise of the remediation plan and community & natural resource augmentation plan corresponding to the ecological damage assessed and economic benefits derived due to violation. The remediation plan and the natural & community resource augmentation plan prepared shall be included as an independent chapter in the EIA report.
3. The project proponent shall be required to submit a bank guarantee considering 4% of the project cost (i.e.*double than the highest percentage mentioned in CER vide OM of MOEF&CC dated 01/05/2018) or amount comes from the an indicative guideline after assessing the environmental damage as mentioned in Annexure A whichever is higher* with the GPCB prior to the grant of Environmental Clearance. The quantum shall be recommended by the SEAC and finalized by the regulatory authority. The bank guarantee shall be released after successful implementation of the remediation plan and Natural and Community Resource Augmentation Plan, and after recommendation by regional office of the Ministry followed by recommendations of the SEAC and approval of the regulatory authority.

4. Gujarat Pollution Control Board shall initiate credible legal action against the project proponent under the provisions of the Environment (Protection) Act, 1986, and further no consent to operate to be issued till the project is granted Environmental Clearance.
5. A notarized undertaking stating that (1).Any such violation shall not be repeated in future, (2). All the statutory requirements shall be fully complied with and (3). A status quo shall be maintained at the project site and remaining activity shall be carried out only after obtaining Environmental Clearance from SEIAA.
6. Applicability of CRZ Notification, 2011 shall be verified for the project and if found applicable, due procedure shall be followed as per the CRZ Notification,2011.

6. Project Specific Conditions:

Honorable supreme court vide judgment dated 2nd August 2017 with writ petition (Civil) No 114 of 2014 in the matter of common cause versus union of India and others has passed order interpreting section 21(5) of the MMDR Act and directed payment of 100% Penalty for illegal mining operation with reference to the relevant statues, which inter alia include Environment (Protection) Act 1986, the Water(Prevention and Control of Pollution)Act 1974 and Air(Prevention and Control of pollution)Act 1981,The Forest(Conservation)Act 1980 and the Mines and Minerals(Development &Regulation)Act 1957. In this context In order to additionally comply with the direction of Hon'ble Supreme Court dated 02/08/2017 vide writ petition (Civil) NO 114 of 2014 Following additional conditions in TOR are required to address and comply.

1. The project proponent shall give an undertaking by way of affidavit to comply with all the statutory requirements and judgment of Hon'ble Supreme Court dated 2nd August 2017 in Writ Petition (Civil) No: 114 of 2014 in the matter of common cause versus Union of India and others before grant of TOR/EC. The undertaking inter alia include commitment of PP not to repeat any such violation in future.

2. In case of violation of above undertaking, the TOR/EC shall be liable to be terminated forthwith.

3. The Environmental Clearance will not be operational till such time the project proponent complies with all the statutory requirements and judgment of Hon'ble Supreme Court dated 2nd August 2017 in Writ Petition (Civil) No 114 of 2014 in the matter of Common Cause versus Union of India and others.

4. State government concerned shall ensure that mining operation shall not commence till entire compensation levies, if any, for illegal mining paid by the Project proponent through Their respective department of Mining and Geology in strict compliance of judgment of of Hon'ble Supreme Court dated 2nd August 2017 in Writ Petition (Civil) No 114 of 2014 in the matter of Common Cause versus Union of India and others.

7. Validity of ToR:

- The ToR prescribed for the project will be valid for a period of four years for submission of EIA & EMP report vide amended EIA Notification 2006, S.O. 751(E) dtd 17.02.2020. 751(E)

The above-mentioned project specific TORs/additional TORs and the model TORs available in the MoEFCC's sector specific EIA Manual for Mining Projects shall be considered as generic TORs for preparation of the EIA report in addition to all the relevant information as per the generic structure of EIA given in Appendix III in the EIA Notification, 2006. The project shall be appraised on receipt of the final EIA report.

Annexure A

An indicative guideline for assessing the amount of remediation plan and natural and community resource augmentation plan is as under :

EMP Sub-Components									
AP	**WP**	**SHW**	**TP**	**NV**	**GB**	**HG**	**RH/OHS**	**SC**	**CSR/SE**
Air Pollution	**Water Pollution**	**Solid &Haz. Waste**	**Trabnsportation**	**Noise & Vibration**	**Greenbelt**	**Hydro-Geology**	**Risk Hazards/ Occupational Health & Safety**	**Soil Conservation**	**Corporate Social Responsibility**

Following model calculation shall be used to conclude cost in RS per Day.

Attributes	**Cost Estimation**	**Rs. Per day**
AP	• Water requirement per day for sprinkling of water to curb fugitive emission =	
	• Cost of 1 KL water for sprinkling =	
	Total cost of AP per day	
WP	• Major water pollution envisioned 1. Explore possibility of ground water table intersection. 2. Run off water outside the lease and estimate damage caused considering period of violation in RS.Per day	
SHW	**When there is an overburden** 1. For 1 Ha Lease area equivalent to 10,000 M2 (1 Ha land area)* overburden bed height* Sp Gr of mineral = Tonnage of OB 2. Over burden Tonnage per day: Tonnage of OB/No of working days in a year = MTPD. 3. Over Burden * Rs ABC Per Ton handling charge= Rs Per Day assuming fresh-first year mining	
	When there is no Overburden, only mining waste handling charges are to be considered. 1. Annual Rate of Mining * Avg Percentage of Mining waste per	

	MT * Handling charge in Rs per MT /Nos of days in a year assuming fresh-first year mining	
TP	• Nos. of covered truck plying from the mine lease to main road carrying minerals per day. • Water sprinkling required (KLPD)to curb fugitive emission due to vehicle movement • Cost of Water sprinkling in Rs. Per day:	
	• Compensatory tree plantation to encounter vehicular emission in Nos of tree for five year. • Cost of Tree plantation in Rs per Day.	
NV	• Existence of properties/env. entities within 500 meter of blasting site and if damaged due to blasting. • Nos of such properties/env. Entities. • Buiilt up area of each property/env. Entities • Cost of reconstruction of properties (total) considering current construction cost say Rs 20,000 per Sq. Meter.	
GB	• Green Belt developed in 10% of leased area : Graan belt area in M2. • Presume 1 plant per 4 m2 is to be planted. • Cost of single plant: RS ABC for 5 years. • Lease Area *10% GB = M2 of Green Belt. • M2 of gren belt/4 M2 : Nos of trees/plants. • Cost of Green belt= Rs per tree * NOs of trees / 5 * 300=	
HG	• No major HG issues envisioned, considering ground water is not intercepted	
	• If intersection of ground water is made, cost of one time remediation plan after estimating extent of contamination of ground water	
RH/OHS	• For 1 Ha mine lease = Nos of worker required. • Annual cost of health check for the workers • Cost of health check per day:	

	• Cost of PPE per worker= Rs ABC • Total cost of PPE = Nos of workers * Rs. ABC	
	• Total cost of PPE = health check up + PPE = RS XYZ • Cost of OHS per day =XYZ/300 (days) =	
SC	Cost of preservation, Handling and reuse of Top soil : Rs Per day	
CSR/SE	2% of the project cost per annum (Project cost) * 0.02 / 300 (Days) =	
	Total	**Rs PQR**

Considering above following details shall be furnished.

(A). Cost incurred due to EMP = Rs ( ) * 300 (Nos. of days) = ( ).

(B) Benefits earned due to violation= Production per annum under violation x Sale price announced x % of profit due to violation = BBB.

(C) Cost of Environmental Damage = (A) + (B)

Based on the affected attributes and considering environmental damage, natural resource and Community resource augmentation plan shall be prepared keeping activities mentioned in CER vide OM of MOEF&CC dated 01/05/2018 in view.

Annexure – V

(Specific Conditions for Environmental Clearance of Ordinary Sand Mining Proposals)

1. The Licensee must use minimum number of poclains and it should not be more than two in the project site.
2. The District Administration should assess the site for Environmental impact at the end of first year to permit the continuation of the operation.
3. The Annual replenishment report certified by the authorized agency must be submitted to the prescribed authority. In case, the replenishment is low, the mining activity/production levels shall accordingly be decreased/stopped.
4. The ultimate working depth shall be 1 m from the present natural river bed level and the thickness of the sand available shall be more than 3 m in the proposed quarry site.
5. The sand quarrying shall not be carried out below the ground water table under any circumstances. In case, the ground water table occurs within the permitted depth at 1 meter, quarrying operation shall be stopped immediately.
6. The sand mining should not disturb in any way the turbidity, velocity and flow pattern of the river water.
7. The mining activity shall be monitored by the Taluk level Force once in a month by conducting physical verification.
8. After closure of the mining, the licensee shall immediately remove all the sheds put up in the quarry and all the equipments used for operation of sand quarry. The roads/pathways shall be leveled to let the river resume its normal course without any artificial obstruction to the extent possible.
9. The mined out pits to be backfilled where warranted and area should be suitably landscaped to prevent environmental degradation.
10. The project proponent shall obtain registration of the establishment under the Building and other Construction Workers' (regulation of Employment & Conditions of Service) Act, 1996 and shall comply with the provisions of the Act for the Safety, Health and Welfare of Mining Workers
11. The project proponent shall obtain registration of the Mining Workers as Beneficiaries with the Gujarat Building and other Construction Workers Welfare Boards.
12. PP shall implement all safety measures including protection of lighting in mine as per the guidance manual of DGMS vide circular No: DGMS(Tech) Circular No: 10 of 2020 dtd. 23 June 2020
13. All measures proposed in sustainable sand mining guide line MOEF&CC and EMP shall be complied with in letter and spirit.

14. Transportation route for vehicles carrying mineral shall have lease minimum pass near human habitation.
15. No ground water extraction shall be done from within the lease/permit area
16. PP shall construct a pacca approach road connecting lease area to the main road with periodic regular maintenance to prevent fugitive dust emission.
17. Pillars mentioning boundary of the lease area shall be provided as per the provision of mining rules/Acts to identify the lease area.
18. PP shall carry out CER activities after identifying need based activities in consultation with village gram panchayat.
19. Validity of the EC shall be coterminous with validity of lease/Permit or thirty years whichever is early.

Minutes of the 200th meeting of the State Level Expert Appraisal Committee held on 05.05.2021 through Video Conference (VC) on National Informatics Centre (NIC).

In the wake of recent crisis of COVID-19, the agenda of the present meeting was mailed to expert Committee in advance and the 200th meeting of the State Level Expert Appraisal Committee (SEAC) was held online by Video Conferencing on NIC was organized on 05.05.2021 at 01.30 pm.

Following members attended the meeting.

1	Shri A.K. Saxena, Chairman
2	Dr. S.C. Pant, Vice Chairman
3	Dr. M. N. Patel, Member, SEAC
4	Shri D. C. Chaudhari, Member, SEAC
5	Shri J. K. Vyas, Member, SEAC
6	Shri Anand Zinzala, Member, SEAC
7	Shri B. M. Tailor, Member, SEAC
8	Shri A. V. Shah, Secretary, SEAC

Committee considered Form-1, PFR, project details validated by the District Geologist, approved mining plan and other relevant details submitted by project proponent. Details of proposals appraised are as below:

1. SAND STONE MINING, DIST: KUTCH

Application No	Name of Project	S.No.	Village	Taluka	Dist	Lease Area	Validity of lease	ROM	Nearest Human Habitation	End Use	Investment in Rs	Date of Application Received by SEAC
SIA/GJ/MIN/60233/2021	Ramsangji Meghrajji Jajdeja	Goverment Sr. No. 24 Paiky	Zizu Timbo	Bhuj	Kutch	1.00.00 Ha	Lease granted on 12.10.2010 for 10 years, extendable up to 31.03.	3000 TPA	Sarli – 1.73 km	Construction	33.15 Lakh	05.04.2021 Existing Project since 12.10.2010

							2030					

The project falls under B1 Category – 1(a), i.e. Mining of Minerals as per the provision of EIA Notification, 2006. Project Proponent has applied to obtain Terms of Reference (TOR) for mining of Sand Stone.

A. Basic Information of the Project:

1.	Name of Project as per Form I	Shri Ramsangji Meghrajji Jadeja
2.	Address of the lease	Survey No.:Govt.Sr.No. 24 Paiky Village:Zizu Timbo, Taluka:Bhuj District:Kutchh
3.	Name of lease holder	Shri Ramsangji Meghrajji Jadeja
4.	Lease area (Ha)	01-00-00Ha.
5.	Cluster Details	
	a. Total no. of leases in the cluster	18
	b. No. of TOR granted in cluster	No information
	c. No. of EC granted in cluster	No information
	d. Total area of the cluster	23.87.67
	e. Maximum individual lease area	02.50.00
	f. Minimum individual lease area	00.60.00
6.	Validity of lease with the date of expiry	31/03/2030
7.	Rate of Mining (MT/Annum)	3000 TPA
8.	Details of EC obtained (for expansion projects), if any	N.A.
9.	Name of River Bed	N.A.
10.	Is the river perennial / non-perennial?	N.A.
11.	Lease area (submerged / in stream / on dry river bed)	N.A.
12.	All coordinates of the lease area as per Approved Mining Plan	A 23° 6‘41.17"N 69°29‘44.74"E B 23° 6‘39.62"N 69°29‘45.54"E C 23° 6‘41.31"N 69°29‘52.48"E D 23° 6‘43.28"N 69°29‘52.34"E E 23° 6‘42.06"N 69°29‘49.22"E F 23° 6‘40.90"N 69°29‘45.40"E
13.	Manpower requirement	10
14.	Applicability of CRZ Notification	CRZ notification is not applicable.
15.	Minimum Setback distance proposed to be maintained from River Bed (m)	N.A.
16.	Minimum buffer distance from bridge piers / water intake wells / irrigation structures	N.A.
17.	Maximum depth of sand removal (3 m or water depth whichever is less)	N.A.
18.	Width of Riverbed (m)	N.A.
19.	Average depth of water at lease area (m)	N.A.
20.	Depth of mining (m)	6.5mtr.
21.	Ground Water Table in meter BGL	50-55 mtr.
22.	Does ground water interfere approach road exit? (Yes / No)	No interfere of ground water during mining. Approach road exist having length of 2.73 meter from pucca road.

	If yes, status report of CGWA	
23.	Distance between lease and main road	State Highway No. 47 – 2.96(Km)
24.	Length ofkaccha road (m)	2.73(km)
25.	Length of pacca road (m)	2.96 km
26.	Plan for making pacca road	-
27.	Source of freshwater	Source of fresh Water is well nearby agricultural firm.
28.	Water requirement (kLPD)	05
	a. Domestic	1.0
	b. Dust suppression	3.0
	c. Gardening / Green belt development	1.0
	d. others	-
29.	Whether the Undertaking is submitted for identical information provided in Form I, Approved Mining Plan, Project Details validated by District Geologist, Pre-Feasibility Report, Lease Document, Environment Management Plan and other documents	Submitted.

B. Environmental Sensitivities:

Sr. No.	Environmental Sensitivities	Actual Distance	Minimum Distance	Reference
1	Residential	Sarli-1.73 km	100 m (When Blasting is not involved)	As per CPCB Distance Criteria And order of of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020
	Public buildings	Sarli-1.73 km		
	Inhabited sites	Sarli-1.73 km		
	Protected Monuments	Ram Kund -22.71km		
	Heritage Sites	Aina Mahel-23.61km		
	National / State Highway	S.H. 47- 2.96 Km N.H.8A-29.92 Km		
	District Roads	2.96 Km		
	Public Roads	2.73Km		
	Railway Line / Area	8.09 km		
	Ropeway or Ropeway trestle or station	Junagadh Ropeway – 204.92 km		
	Bridges	Bridge near Rampur Vekra-4.82 km		
	Dams	Check Dam Zizu Timbo– 0.96Km		
	Reservoirs	Lake near Dahisara - 2.41 Km		
	River	Local river -0.30 km		
	Canal	No Canal near lease area		
	Lakes	Chadva Lake- 4.61 Km		
	Tanks	Near Sarli – 2.00 Km		
2	Eco-Sensitive Zone (if notified)	No Eco-Sensitive zone within 10 km. boundary of lease.	>1 km / outside the notified Eco-Sensitive Zone	Vide directives of MOEF&CCdtd 16.07.2020
3	Eco-Sensitive Zone (if not notified)	No Eco-Sensitive zone within 10 km.	>1 km and <10 km =	Vide directives of MOEF&CCdtd

		boundary of lease.	Prior Clearance from NBWL is required	16.07.2020
4	Distance of Coastal line from the site	No Coastal line within 10 km boundary of lease.	>500 M from HTL	Amended CRZ Notification 2011

C. Details of Mining:

1.	Method of Mining (Manual / Semi-mechanized / Mechanized).	Open Cast Semi-mechanized mining method is adopted.
2.	Equipment's to be used for Mining bulldozers, hydraulic excavators, JCB, scrapers, loaders, Diesel Pump, etc.)	Cutter Machine, Hydraulic Excavator, JCB & Loaders are equipment in use for mining activities.
3.	Whether it includes blasting?	Blasting is Not proposed in approved mining plan.
4.	Details of Authorized Blasting Agencywith date of validity certificate	N.A.
5.	Procedure / SOP (in brief)	N.A.
6.	Details of Blasting Parameters in brief	N.A.
7.	Frequency of blasting	N.A.
8.	Impact of blasting	N.A.
9.	Outcome of Vibration study	N.A.
10.	Blasting Activity Management Plan	N.A.
11.	Use of any Chemical with quantity	N.A.
12.	Precautions taken for Human Safety in brief	N.A.
13.	Crusher provided? If Yes, Measures taken for Air Pollution Control	N.A.
14.	Compliance of DGMS Guidelines for Blasting	N.A.
15.	Compliance of Sustainable Sand Mine Guidelines published by MoEFCC in 2016	N.A.
16.	Whether Replenishment Rate Study is approved by District Geologist? If yes, conclude in brief	N.A.

D. Details of Green Belt Development:

1.	a. Green belt development budget	1.00 Lakh
	b. Green belt area / location	SBZ area
	c. No. of trees to be planted	125 trees
	d. Types of trees to be planted	**Azadirachtaindica** –Dust,Air& Noise pollutant tollerance **FicusReligiosa**– Air & Noise pollutant tollerance **Local Trees**–Dust & noise pollutant tollerance

E. Details of Environment Management Plan:

1.	**Details of EMP**	**Impact**	**Mitigation Measures**
	a. Land Environment	Since mining is essentiallyan excavation of mineral ore the land environment is greatly affected by	Adopting suitable, site-specific mitigation measures can reduce the degree of impact of mining on land. Some of the land-related

		it, especially in the case of opencast mines: (a) The topsoil in the active mining area gets adversely affected. (b) The soil quality of the surrounding area are also likely to get affected due to siltation and run off from waste dumps. (c) The mine drainage, if it is acidic and containing toxic constituents, not adequately treated when discharged to nearby land would affect the soil quality adversely; when discharged untreated into streams effects the quality of water and make in unfit for agricultural use. (d) Agriculture is also directly linked to soil. If soil quality deteriorates, the agricultural productivity of the land decreases.	mitigation measures are as follows: (a) Topsoil is should be kept in a designated area and should be given minimum storage time to prevent nutrient loss. (b) Garland drains, ditches, catchpits in different combinations should be provided to prevent run off affecting the surrounding agricultural land. These are to be designed looking into the locational site features. (c) Mine drainage is to be treated adequately before discharge to stream outside the boundary of the project area. (d) Non-mineral zones and open areas should be planted with trees. (e) Siltation of agricultural land should be prevented.
	b. Water Environment	Mining and its associated activities not only use a lot of water but also likely to affect the hydrological regime of the area : (a) The major impact of deep and large mines is of natural groundwater table. (b) Lowering of water table may result in reduced groundwater availability (c) Extraction of different minerals is known to lead to water pollution due to heavy metal, acid discharges and increased suspended solids. However, the impact of mining project on groundwater hydrology and surface water regime are site specific and depends upon the characteristics of the mineral, hydrogeology and requirement of groundwater for other uses.	The following mitigation measures are suggested for water management and water pollution control. However, priority relevance depends on the location and type of mining and minerals: (a)The overall drainage planning should be done in such a manner that the existing pre-miningdrainage conditions should be maintained to the extent possible so that run off distribution is not affected. (b)drainage conditions should be maintained to the extent possible so that run off distribution is not affected ©The surplus treated mine water should be discharged into local ponds and agricultural fields which should act like a constant source of recharge to improve the groundwater level in the area (d)Rainwater harvesting by constructing check dams on natural nallah and developing water bodies should be planned for recharging groundwater. (e) (i)Stone barriers across the drain should be constructed to check the water current and arrest solids. (ii)Stone pitching should be made at suitable location to regulate water flow and

			prevent soil erosion. (iii) Settling pits and drains should be periodically desilted.
	c. Air Environment	Mining operation and associated activities are potentially air polluting and the major air pollutant is the suspended particulate matter. (a)Most of the air pollution problems are due to fugitive dust emission, which is more prominent in open cast mines (b)The intensity of dust generation in the mining is influenced by factors such as hardness of rock, mining technology and material handling etc.	Mitigation measures at various dust generating activities are discussed below: **(A)Paved surfaces**: Paved surfaces have less dust generation potential. Dust pick-up by wind depends on the wind speed and is usually significant at wind speeds above 5 meters per second. However slight speed of vehicle can cause higher dust generation. Dust emissions from paved surfaces can be minimized by adopting following measures: Prevent spillages of materials on the paved surfaces during materials transportation. (a) Minimize mud and dust track-out from unpaved areas by the use of wheel wash facilities. (b)Regular cleaning of paved surfaces, using mobile vacuum sweeper or a water flushing system. (c)Speed controls on vehicle movements. (d)Wind reduction control by plantation. **(B)Unpaved Surfaces :** Dust emissions from unpaved surfaces are caused than from paved surfaces are usually much greater. Dust emissions can be controlled by using the following methods: (a) Water sprinkling on unpaved areas during dry wind periods, using a water tanker/or fixed sprinklers. (b)Chemical stabilization can also be used in association with wet suppression. (c) Surface improvements may be done with concrete or asphalt ortheadditionofgravel orchemicaldustsuppressiontothesurface forstabilization. (d) Speedcontrolsonvehiclemovementstolimitspeeds. (e)Windreductioncontrolbyplantation. (f)Wetsuppressionofunpavedareascanachievedustemissionreductionsofabout70per centormore,andthiscansometimesbeing creasedbyupto95%throughtheuseofchemical stabilization. (g)Treescanactasefficientbiologicalfilters.The systematicandplannedgreenbelt development notonly

			reducesthefugitivedustbutalsochecksrunoffandimprovestheaestheticbeautyofan area
	d. Noise Environment	Noiselevelincrease duetominingactivitiessuchasexcavation,drilling,blasting,handlingand transportationof ore and overburden andoperationof processing equipment: (a)Noise Pollution due to drilling & Blasting if applicable. (b) Noise Pollution due to use of heavy machineries.	Thefollowingmitigationmeasurescanbeadoptedtocontrolnoise: (a)Selectionofnewlow-noiseequipmentfromthemanufacturesfailingwhichuseofadditional retrofitsifavailable. (b)Modifications of the older equipment or method by incorporating minor design changes. (c)Implementationofan effectiveplannedpreventivemaintenancewhich reducesnoiselevel bymorethan 50%. (d)When allcontrolsfailtoreducethelevelofnoiseenteringtheear,byuseofpersonalhearingprotectiondevices.
	e. Biological Environment	*AnticipatedImpact(FloraandFauna):* • Impactonforestresources,economicallyimportantplants,medicinalplantsandthreatto rare,endemicandendangeredspecies • Impactonterrestrialandaquaticbiodiversity • Impactonwildlifeincludeingavi-fauna • Impactonwildlifehabitatandmigratorycorridors • Impactonfloraandfaunaduetoairemissions,noise,vibration,illumination,vehicular movement,wastewaterdischarges,changesinlanduse, townshipetc.	Measurestocompensatethelossofforestcoverage: ➢ Regenerationofrareandendangered plantsofeconomicimportanceincludingmedicinal plants. ➢ Measuresforprotectionandconservationofwildlifespecies ➢ Greenbeltanditsraisingschedule ➢ Progressiveafforestationinoverburden,reclaimedminedoutareas.
	f. Human Environment	Mining activityinanareahaslongtermirreversibleimpacton Human Environment like local,sociological,culturaland economicsituation. (a) Peoplearedirectlyaffecteddueto pollution. (b) Health issues and spread of mining related dieses	Following mitigation measures are suggested: • A welfare plan with funding from the project proponent should be prepared to provide assistance to affected people. • The infrastructure facility (Educational Institute, Water Supply, Health Care etc.) developed by the project should also be extended to people without any cost or minimal cost. • Medical aid and regular check up.

			• Various compensatory packages to be formulated for the improvement of socio-economic condition of people. They are: (i)Monetarycompensation. (ii) Compensationinkind (iii)Training to locals to develop skill should be promoted by the project.
	g. Others	None	None
2.	Occupational health & safety measures as per DGMS	The guidelines declared by DGMS for Health & safety time to time are followed strictly and being complied.	
3.	Safety measures proposed	No drilling & Blasting is required for the mining of Building Limestone mineral, however require safety measures like compulsory use of PPE's on operation place, regular check up of labors for health issues and free medicine to labor's.	
	a. Is First Aid facility provided by PP?	Yes, First Aid facility is 24 hours available at site of operation of mining.	
	b. Details of PPEs	Mineworkers require specific Personal Protection Equipment (PPE) to protect the entire body from any harm or injury in the mining environment are: (1) **Head and face protection**:This comprises of a hard hat, safety glasses, ear plugs and half-face or full-face masks. (2) Feet and leg protection:The standard footwear for optimal foot and leg protection are heavy-duty boots.	
	c. Whether Registration of Workers underBuilding and other Construction Workers' (regulation of Employment & Conditions of Service) Act, 1996 and as Beneficiaries with the Gujarat Building and other Construction Workers Welfare Boards is obtained or not?	Project is on contract base.	
	d. Insurance of Workers	Workers are insured with accident policy.	
	e. Health checkup plan of workers	Health plan of workers is adopted and it is being carried out twice in every month regularly.	

F. Transportation:

1.	No. of vehicles per day carrying Minerals	1trucks
2.	Fugitive dust emission control measures	Water sprinkling
3.	Route plan in brief	2.73(m)

G. Financial details of the Project:

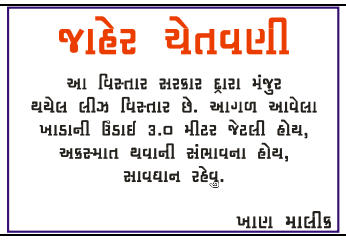
1.	Total cost of the project (Lakh)	33.15
	a. Upfront cost (Lakh)	-
	b. Performance Security (Lakh)	1.00
	c. Total Royalty (Lakh)	2.25
	d. Weigh Bridge Cost (Lakh)	2.50
	e. Labor cost equipment (Lakh)	0.75
	f. Equipment protection and implementation cost (Lakh)	12.0
	g. Green Belt Development & maintenance cost (Lakh)	1.0
	h. Cost of EMP (Lakh)	8.0
	i. Cost of Safety measures (Lakh)	0.50
	j. Cost of Post-Closure Mine Plan (Lakh)	-
2.	Budget allocated for CER (Lakh)	0.66
3.	Is need based survey for CER carried out? (Yes / No) If yes, give details of activities along with Budgetary Outlay	

SN	Activity	Budget
		1st year 2nd year 3rd year 4th year 5th year
1	Provide drinking water facility : (1) In surrounding villages and schools by hand pump/water tank. (2) Water cooler with RO purifier at village school / Panchayat Building. (3) Donation for Overhead Tank in slum area of village.	20,000/-
2	Health camps : (1) Free Doctor Consultation	13,000/-

			(2) Free medicine (3) Arrangements of Blood Donation Camps.	
		3	Educational support to poor students of the village specially girls : (1) Scholarship, School Dress, Books etc. to poor students. (2)Arrangement of different competitions with Awards in school (3) Donation for Sports instruments & developments of sports grounds in school. (4)Donation for school building requirements.	20,000/-
		4	Development Programme : 1) Donation for Toilet facility in slum area of village. 2) Plantation including Maintenance around School &Panchayat Building inner roads of Villages.	13,000/-

H. Restoration / Reclamation Plan:

1.	Restoration / Reclamation Details	00.10.38 ha.Area will be reclaimed by refilling area.
2.	Post mining closure plan	Mine closure will be in two step (1) Progressive mine closure and (2) Final

		mine closure. As per approved plan at end of mine the 00-31-53 ha. SBZ & , 00.10.38 ha. area will be reclaimed by refilling area will be developed with plantation of dust & Noise tolerance species of vegetation and rest 00.58.09ha. will be converted as water reservoir with parapet fencing to avoid accident.
3.	Backfilling material and its quantity	Back filling is proposed in approved mining plan.
4.	Size of void for Rain Water Harvesting after backfilling	-
5.	Post Closure Liability / Safety aspects and Measures to be taken to avoid wild life and human accidents/ causalities	In Post Closure Liability / Safety aspects and Measures to be taken like proposal of wired fencing and buffer plantation on SBZ area around lease boundary to avoid illegal entry and stone parapet having 4 feet high around mined out area or Pit to avoid accident or causalities to domestic animal and human life.
6.	Display of Caution Boards at strategic locations on the periphery of the pit area	
7.	Final Use of reservoir/ reclaimed land	Reclaimed land will be developed as Green belt and pit will be used as water reservoir till it will reclaimed and at the end the total area will be reclaimed as grazing land.

I. Details of Legal Action / Court Case:

1.	Details of Pending Court matter / Public Litigation Cases in any court of Law	No any matter against project is pending in any court of law.
2.	Details of Action taken by GPCB, if any	None
3.	Details of public complaint , if any	None
4.	Compliance of EC by RO-GPCB or MoEFCC-Bhopal	-

Deliberation:

Shri Bhanjibhai Solanki from M/s. P & M Solution remained present in the meeting on behalf of PP and he has submitted the Authorization letter for same. Committee deliberated on method of mining, rate of mining, no. of working hours and workers etc. Committee also deliberated on the location of the lease w.r.t. Environmental Sensitivities and found as per the criteria prescribed by CPCB. Committee noted that the mining does not involve blasting. During the presentation, Environmental Management Plan, Restoration / reclamation plan, CER activities and its budget, green belt development etc. was discussed. Committee noted that it is an existing lease and

the consultant presented production details validated by District Geologist, Kutch vide letter no. Gkk/QL/13059, dated 16.02.2021 as below:

S. N.	Year	Production in MTPA
1.	2015-16	3132
2.	2016-17	922
3.	2017-18	239
4.	2018-19	00
5.	2019-20	00

Committee noted that the production was continued after 31.03.2016. Asking upon the earlier TOR/EC application, the Consultant informed the Committee that they have applied to obtain TOR / EC in past. In the late evening on 05.05.2021, the Consultant sent two applications through E-Mail to SEAC, made by PP earlier dated 26.09.2018 and 19.06.2019, i.e. after 13.04.2018. Committee noted that the PP had not applied to obtain TOR / EC in the window period, i.e. before 13.04.2018, as per Hon'ble NGT Order dtd. 13.01.2015 in the O.A. No. 123/2014 and M.A. 419 of 2014, Himmat Singh Shekhawat v/s State of Rajasthan and order of Honorable National Green Tribunal dtd. 04.05.2016 in the O.A.No 34/2016, Naresh Zargar v/s of Madhya Pradesh and order of Honorable National Green Tribunal dtd. 30.06.2020 in the O.A. No. 136/2017, Tamil Nadu Small Mine Owners Federation v/s Ministry of Environment Forest and Climate Change Government of India and the fact was not known to the Committee by the Consultant.

Committee took a serious note on it and noted that proposal falls under violation to EIA Notification 2006. Hence, in view of the above and MoEFCC OM dated 09.09.2019, Committee unanimously decided to delist the proposal and recommend SEIAA to initiate credible legal action against the project proponent under Section 19 of the E.P. Act 1986 for violation of the provisions of the EIA Notification, 2006 through Gujarat Pollution Control Board under intimation to the SEAC & SEIAA in this regard.

2. BUILDING LIMESTONE MINING, DIST: JAMNAGAR

Application No	Name of Project	S. No.	Village	Taluka	Dist	Lease Area	Validity of lease	ROM	Nearest Human Habitation	End Use	Investment in Rs	Date of Application Received by SEAC
SIA/GJ/MIN/60579/2021	MALAVADA BUILDING LIMESTO	Govt. La	Malavada	Jamjodhpur	Jamnagar	1.00.00 Ha	LoI issued on 11.0	7836 MTP	Malavada – 0.60	Construction	Rs.5 Lakh	24.03.2021

	NE QUARRY (VASANTI BEN BIPINBHA INAKRANI)	nd - 35 /3 P					9.20 17 for 10 years	A	km			

The project falls under B1 Category – 1(a), i.e. Mining of Minerals as per the provision of EIA Notification, 2006. Project Proponent has applied to obtain Terms of Reference (TOR) for mining of Building Limestone.

A. Basic Information of the Project:

1.	Name of Project as per Form I	MALAVADA BUILDING LIMESTONE QUARRY Village Malavada, Taluka Jamjodhpur, District: Jamnagar in the state of Gujarat. (Area= 1 ha) (Survey No. 35/3 P)
2.	Address of the lease	Survey No.: 35/3 P Village: Malavada Taluka: Jamjodhpur District: Jamnagar
3.	Name of lease holder	Smt. VasantibenBipinbhaiNakrani
4.	Lease area (Ha)	1.00 Ha
5.	Cluster Details	
	a. Total no. of leases in the cluster	8
	b. No. of TOR granted in cluster	1
	c. No. of EC granted in cluster	1
	d. Total area of the cluster	8.00 Ha
	e. Maximum individual lease area	1.00 Ha
	f. Minimum individual lease area	1.00 Ha
6.	Validity of lease with the date of expiry	10 year from the date of LOI issued.
7.	Rate of Mining (MT/Annum)	7836 MTPA
8.	Details of EC obtained (for expansion projects), if any	NIL
9.	Name of River Bed	Not applicable
10.	Is the river perennial / non-perennial?	Not applicable
11.	Lease area (submerged / in stream / on dry river bed)	Not applicable
12.	All coordinates of the lease area as per Approved Mining Plan	Sr. No / Latitude / Longitude A. 21°49’13.60” N 70°04’08.57” E B. 21°49’13.64” N 70°04’11.53” E C. 21°49’09.74” N 70°04’11.64” E D. 21°49’09.69” N 70°04’08.68” E
13.	Manpower requirement	19
14.	Applicability of CRZ Notification	Not applicable

15.	Minimum Setback distance proposed to be maintained from River Bed (m)	Not applicable
16.	Minimum buffer distance from bridge piers / water intake wells / irrigation structures	Dam – 4 km
17.	Maximum depth of sand removal (3 m or water depth whichever is less)	-
18.	Width of Riverbed (m)	Not applicable
19.	Average depth of water at lease area (m)	35 mbgl
20.	Depth of mining (m)	6m (upto 156 mRL) Maximum
21.	Ground Water Table in meter BGL	30 m – 35 m
22.	Does ground water interfere approach road exit? (Yes / No) If yes, status report of CGWA	No
23.	Distance between lease and main road	SH-97 at a distance of 7km
24.	Length of kaccha road (m)	870 m
25.	Length of pacca road (m)	14 km
26.	Plan for making pacca road	No
27.	Source of fresh water	The water demand shall be met from the existing open well situated outside the lease area and through tanker supply.
28.	Water requirement (kLPD)	5 KLPD
	a. Domestic	2.0 KLPD
	b. Dust suppression	2.5 KLPD
	c. Gardening / Green belt development	0.5 KLPD
	d. others	Nil
29.	Whether the Undertaking is submitted for identical information provided in Form I, Approved Mining Plan, Project Details validated by District Geologist, Pre-Feasibility Report, Lease Document, Environment Management Plan and other documents	Yes

B. Environmental Sensitivities:

Sr No.	Environmental Sensitivities	Actual Distance	Minimum Distance	Reference
1.	Residential	600m	100 m (When Blasting is not involved) **Or** 200 m (When Blasting is involved)	As per CPCB Distance Criteria And order of of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020
	Public buildings	600m		
	Inhabited sites	600m		
	Protected monuments,	NA		
	Heritage sites	NA		
	National / State Highway	SH 97- 7 km		

	District roads	600m		
	Public roads	150m		
	Railway line / area	Jamjodhpur Railway station 9.76Km (Aerial)		
	Ropeway or Ropeway trestle or station	NA		
	Bridges	NA		
	Dams	4 km		
	Reservoirs	4 km		
	River	--		
	Canal	8km		
	Lakes	--		
	Tanks	--		
2.	Eco-Sensitive Zone (if notified)	--	>1 km / outside the notified Eco-Sensitive Zone	Vide directives of MOEF&CC dtd 16.07.2020
3.	Eco-Sensitive Zone (if not notified)	--	>1 km and <10 km = Prior Clearance from NBWL is required	Vide directives of MOEF&CC dtd 16.07.2020
4.	Distance of Coastal line from the site	--	>500 M from HTL	Amended CRZ Notification 2011

C. Details of Mining:

1.	Method of Mining (Manual / Semi-mechanized / Mechanized).	Semi-mechanized opencast.
2.	Equipments to be used for Mining bulldozers, hydraulic excavators, JCB, scrapers, loaders, Diesel Pump, etc.)	Excavator-1 Dumper- 1 Drill machinery- 1
3.	Whether it includes blasting?	No
4.	Details of Authorized Blasting Agency with date of validity certificate	NIL
5.	Procedure / SOP (in brief)	NIL
6.	Details of Blasting Parameters in brief	NIL
7.	Frequency of blasting	NIL
8.	Impact of blasting	NIL

9.	Outcome of Vibration study	NIL
10.	Blasting Activity Management Plan	NIL
11.	Use of any Chemical with quantity	NIL
12.	Precautions taken for Human Safety in brief	The risks of accident are envisaged due to the operation of equipment, failure of mine pit etc. No loose stone or debris is allowed to remain near the edges of excavation and along the sides of haul road. However, good safety practices shall be applied at the project site. All precautionary measures will be adopted and use of protective equipment will be mandatory. However, to deal the minor incidences and accidents, first aid measures at site will be provided.
13.	Crusher provided? If Yes, Measures taken for Air Pollution Control	No
14.	Compliance of DGMS Guidelines for Blasting	NIL
15.	Compliance of Sustainable Sand Mine Guidelines published by MoEFCC in 2016	NIL
16.	Whether Replenishment Rate Study is approved by District Geologist? If yes, conclude in brief	No

D. Details of Green Belt Development:

1.	a. Green belt development budget	Rs. 10,000/-
	b. Green belt area / location	Along the periphery of the mine lease area.
	c. No. of trees to be planted	90
	d. Types of trees to be planted	Indigenous species in consultation with local authority.

E. Details of Environment Management Plan:

1.	Details of EMP	Impact	Mitigation Measures
	a. Land Environment	Mining is essentially an excavation of mineral. The land environment is greatly affected by it. Specially, in case of mining which is being carried out by semi-mechanized, it is expected to affect the land environment essentially.	· Access roads from public roads will be aligned in such a way that it would cause least damage. · Vegetation development is proposed along the lease area as restoration work. · Plantation is proposed along the road sides, civicamenities in consultation with local/ govt. authorities. While

				selecting the plant species, preference will be given for planting native species of the area.	
		b. Water Environment	Because of the open Cast & semi mechanization method in the mining activity, the impact of mining operations on water quality is also expected to be insignificant. There would be no impact on the quality/quantity of ground water as existing ground water level in study area is deep. Surface water is also not diverted or disturbed. Therefore, there would not be any impact on surface water and ground water quality.	• The domestic sewage from the canteen and toilets will be routed to septic tanks. • Regular monitoring of water levels and quality in the existing open wells and bore wells in the vicinity will be carried out. If found necessary, additional observation wells will be sunk for monitoring the water levels and quality around the mine representing both upstream and downstream conditions.	
		c. Air Environment	Dust due to excavation of material and transportation of excavated material from the project site to dumping sites area.	· Use of Personal Protection Equipment's (PPE) like dust masks, ear plugs etc. by the mine workers. · Ambient Air Quality Monitoring will be conducted on regularly basis to assess the quality of ambient air. · Regular water sprinkling on haul roads & loading points will be carried out. · Development of green belt/plantation around the lease boundary, roads,	

				dumps etc.	
		d. Noise Environment	Noise will only be generated due evacuation, transportation activities.	· Proper maintenance, oiling and greasing of transport vehicles at regular intervals will be done to reduce the generation of noise. · Adequate silencers will be provided in all the diesel engines. · Plantation along the sides of approach roads, around office building and mine area will be done to minimize the propagation of noise.	
		e. Biological Environment	There is no national park/wild life sanctuary/eco sensitive area/biosphere reserve/ tiger reserve/elephant reserve in the lease area and buffer zone (10.0 km radius of the Mine area) hence there shall be no impact on wildlife sanctuary due to mining activities.	· Prior to mining, short awareness program will be conducted for labors to make them aware for way of working. · No tree cutting, chopping, lumbering, uprooting of shrubs and herbs will be allowed. · No track or new road for movement of labors or vehicles be laid in adjoining area, this will prevent fragmentation, encroachment and human – animal encounter.	
		f. Human Environment	The impact of mining activity in the area is positive on the socio-economic environment of the region. The proposed mine will be providing employment to local population and it will be give preference to the local people whenever there is	· Training of employees for use of safety appliances and first aid in vocational	

			requirement of man power.	training center. · Regular maintenance and testing of all equipment as per manufacturers' guidelines.
		g. Others	--	--
	2.	Occupational health & safety measures as per DGMS	Occupational safety and health is very closely related to productivity and good employer-employee relationship. The factors of occupational health in mining project are mainly dust and land degradation. Safety of employees during operation and maintenance etc. shall be as per Mines rules and regulations. To avoid any adverse effect on the health of workers due to various pollutants, sufficient measures relating to safety and health will also be practiced: • Provision of rest shelters for mine workers with amenities like drinking water etc. • All safety measures like use of safety appliances, such as dust masks, helmets, shoes, safety awareness programs, awards, posters, slogans related to safety etc. • Periodical Medical Examination (PME) of all workers by a Medical Officer • First Aid facility is provided at the mine site. • Close surveillance of the factors in working environment and work practices which may affect environment and worker's health. • Working of mine as per approved mining plan and environmental plans.	
	3.	Safety measures proposed	· All safety precautions and provisions of Mine Act 1951, Metalliferous Mines Regulations 1961 and Mines Rules,1955 will be strictly followed during all mining operations; · Entry of unauthorized persons will be prohibited; · Firefighting and first-aid provisions in the mines office complex and mining area; · Provisions of all the safety appliances such as safety boot, helmets, goggles etc. will be made available to the employees and regular check for their use;	
		a. Is First Aid facility provided by PP?	Yes	
		b. Details of PPEs	All the safety equipment's such as helmets, shoes, goggles, dust mask etc.	
		c. Whether Registration of Workers under Building and other	Registration of Workers shall be done of the lease.	

	Construction Workers' (regulation of Employment & Conditions of Service) Act, 1996 and as Beneficiaries with the Gujarat Building and other Construction Workers Welfare Boards is obtained or not?	
	d. Insurance of Workers	Insurance of Workers shall be done of the lease
	e. Health checkup plan of workers	Health check of all villagers in the immediate vicinity of the mine shall be carried out periodically. In case any person or a group of persons is found to be suffering from any ailment, directly related to mining, their medical treatment will be carried on an urgent basis.

F. Transportation:

1.	No. of vehicles per day carrying Minerals	3-4
2.	Fugitive dust emission control measures	· Use of Personal Protection Equipment's (PPE) like dust masks, ear plugs etc. by the mine workers. · Ambient Air Quality Monitoring will be conducted on regularly basis to assess the quality of ambient air. · Regular water sprinkling on haul roads & loading points will be carried out. · Development of green belt/plantation around the lease boundary, roads, dumps etc.
3.	Route plan in brief	The excavated material loaded manually in tipper for transported up to consumer by following the pacca road linked with project site. This pacca road is further connected with SH-7.

G. Financial details of the Project:

1.	Total cost of the project (Lakh)	5.0
	a. Upfront cost (Lakh)	
	b. Performance Security (Lakh)	Rs. 36,73,125/-
	c. Total Royalty (Lakh)	Rs. 3,52,620/-
	d. Weigh Bridge Cost (Lakh)	
	e. Labor cost equipment (Lakh)	
	f. Equipment protection and implementation cost (Lakh)	
	g. Green Belt Development & maintenance cost (Lakh)	0.10

	h. Cost of EMP (Lakh)	0.50
	i. Cost of Safety measures (Lakh)	0.15
	j. Cost of Post-Closure Mine Plan (Lakh)	
2.	Budget allocated for CER (Lakh)	
3.	Is need based survey for CER carried out? (Yes / No) If yes, give details of activities along with Budgetary Outlay	

S. No.	**Activities**	**Allocation of Fund (Rs. Lacs)**
1	Health Camps	**1.0**
2	Up gradation of toilets of government school in nearby villages	**0.5**
3	Repair and Painting of School Building in the project village	**0.5**
	Total	**2.0**

H. Restoration / Reclamation Plan:

1.	Restoration / Reclamation Details	The proposals to be implemented for reclamation and rehabilitation of mined-out land including the manner in which the actual site of the pit will be restored for future use.
2.	Post mining closure plan	The mined-out area (0.4902 ha.) will be developed as water collection pond to store rain water. The unmined land of non-mineable area shall be used for plantation.
3.	Backfilling material and its quantity	Location of proposed dumping ground within the quarry area weather proved for presence or absence of mineral and be outside the UPL unless simultaneous backfilling as proposed orpurely temporary dumping for a short period is proposed in mineralized area with technicalconstraints & justification.
4.	Size of void for Rain Water Harvesting after backfilling	0.4902 Ha
5.	Post Closure Liability / Safety aspects and Measures to be taken to avoid wild life and human accidents/ causalities	Fencing will done all along the project area
6.	Display of Caution Boards at strategic locations on the periphery of the pit area	Display of Caution Boards at strategic locations on the periphery of the pit area will be done
7.	Final Use of reservoir/ reclaimed land	The mined-out area (0.4902 ha.) will be developed as water collection pond to store ran water. The unmined land of non-mineable area shall be used for

		plantation.

I. Details of Legal Action / Court Case:

1.	Details of Pending Court matter / Public Litigation Cases in any court of Law	Not applicable
2.	Details of Action taken by GPCB, if any	Not applicable
3.	Details of public complaint , if any	Not applicable
4.	Compliance of EC by RO-GPCB or MoEFCC-Bhopal	Not applicable

Deliberation:

Shri Rishabh Sehgal remained present in the meeting on behalf of PP and he has sent an Authorization email for same. Committee deliberated on method of mining, rate of mining, no. of working hours and workers, no. of leases in the cluster and its lease area etc. Committee also deliberated on the location of the lease w.r.t. Environmental Sensitivities and found as per the criteria prescribed by CPCB. Committee noted that the mining does not involve blasting and it is a Semi-mechanized open cast mining. During the presentation, Environmental Management Plan, Restoration / reclamation plan, CER activities and its budget, green belt development etc. was discussed.

After scoping for the aforementioned proposal, committee decided to consider the proposal under B1 category keeping cluster situation & Hon'ble National Green Tribunal Order dated 13 September 2018 in view, It was decided to recommend TOR approved by SEIAA on 07/03/2019 for **Non sand mining without blasting** for conducting the EIA study to be done for the proposals in cluster considering 10 Km radius from the periphery of the mine lease area including public hearing including additional TOR to SEIAA as per **Annexure – I**.

3. BUILDING LIMESTONE MINING, DIST: JAMNAGAR

Application No	Name of Project	S. No.	Village	Taluka	Dist	Lease Area	Validity of lease	ROM	Nearest Human Habitation	End Use	Investment in Rs	Date of Application Received by SEAC
SIA/GJ/MIN/60606/2021	MALAVADA BUILDING LIMESTONE QUARRY	Govt. Land - 35/3	Malavada	Jamjodhpur	Jamnagar	1.00.00 Ha	LoI issued on 11.09.2017 for 10 years	7836 MTPA	Malavada – 0.60 km	Construction	Rs.5 Lakh	24.03.2021

	(BHARAT M JOSHI)	P										

The project falls under B1 Category – 1(a), i.e. Mining of Minerals as per the provision of EIA Notification, 2006. Project Proponent has applied to obtain Terms of Reference (TOR) for mining of Building Limestone.

A. Basic Information of the Project:

1.	Name of Project as per Form I	MALAVADA BUILDING LIMESTONE QUARRY Village Malavada, Taluka Jamjodhpur, District: Jamnagar in the state of Gujarat. (Area= 1 ha) (Survey No. 35/3 P)
2.	Address of the lease	Survey No.: 35/3 P Village: Malavada Taluka: Jamjodhpur District: Jamnagar
3.	Name of lease holder	Shri Bharat M Joshi
4.	Lease area (Ha)	1.00 Ha
5.	Cluster Details	
	a. Total no. of leases in the cluster	8
	b. No. of TOR granted in cluster	1
	c. No. of EC granted in cluster	1
	d. Total area of the cluster	8.00 Ha
	e. Maximum individual lease area	1.00 Ha
	f. Minimum individual lease area	1.00 Ha
6.	Validity of lease with the date of expiry	10 year from the date of LOI issued.
7.	Rate of Mining (MT/Annum)	7836 MTPA
8.	Details of EC obtained (for expansion projects), if any	NIL
9.	Name of River Bed	Not applicable
10.	Is the river perennial / non-perennial?	Not applicable
11.	Lease area (submerged / in stream / on dry river bed)	Not applicable
12.	All coordinates of the lease area as per Approved Mining Plan	**Sr. No** / **Latitude** / **Longitude** A. / 21°49’13.64”N / 70°04’11.53” E B. / 21°49’13.78”N / 70°04’15.99” E C. / 21°49’11.24”N / 70°04’16.08” E D. / 21°49’11.14”N / 70°04’11.58” E
13.	Manpower requirement	19
14.	Applicability of CRZ Notification	Not applicable
15.	Minimum Setback distance proposed to be maintained from River Bed (m)	Not applicable
16.	Minimum buffer distance from bridge piers / water intake wells / irrigation structures	Dam – 4 km

17.	Maximum depth of sand removal (3 m or water depth whichever is less)	-
18.	Width of Riverbed (m)	Not applicable
19.	Average depth of water at lease area (m)	35 mbgl
20.	Depth of mining (m)	6m (upto 156 mRL) Maximum
21.	Ground Water Table in meter BGL	30 m – 35 m
22.	Does ground water interfere approach road exit? (Yes / No) If yes, status report of CGWA	No
23.	Distance between lease and main road	SH-97 at a distance of 7km
24.	Length of kaccha road (m)	870 m
25.	Length of pacca road (m)	14 km
26.	Plan for making pacca road	No
27.	Source of fresh water	The water demand shall be met from the existing open well situated outside the lease area and through tanker supply.
28.	Water requirement (kLPD)	5 KLPD
	a. Domestic	2.0 KLPD
	b. Dust suppression	2.5 KLPD
	c. Gardening / Green belt development	0.5 KLPD
	d. others	Nil
29.	Whether the Undertaking is submitted for identical information provided in Form I, Approved Mining Plan, Project Details validated by District Geologist, Pre-Feasibility Report, Lease Document, Environment Management Plan and other documents	Yes

B. Environmental Sensitivities:

Sr No.	Environmental Sensitivities	Actual Distance	Minimum Distance	Reference
1.	Residential	600m	100 m (When Blasting is not involved) **Or** 200 m (When Blasting is involved)	As per CPCB Distance Criteria And order of of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020
	Public buildings	600m		
	Inhabited sites	600m		
	Protected monuments,	NA		
	Heritage sites	NA		
	National / State Highway	SH 97- 7 km		
	District roads	600m		
	Public roads	150m		

	Railway line / area	Jamjodhpur Railway station 9.76Km (Aerial)		
	Ropeway or Ropeway trestle or station	NA		
	Bridges	NA		
	Dams	4 km		
	Reservoirs	4 km		
	River	--		
	Canal	8km		
	Lakes	--		
	Tanks	--		
2.	Eco-Sensitive Zone (if notified)	--	>1 km / outside the notified Eco-Sensitive Zone	Vide directives of MOEF&CC dtd 16.07.2020
3.	Eco-Sensitive Zone (if not notified)	--	>1 km and <10 km = Prior Clearance from NBWL is required	Vide directives of MOEF&CC dtd 16.07.2020
4.	Distance of Coastal line from the site	--	>500 M from HTL	Amended CRZ Notification 2011

C. Details of Mining:

1.	Method of Mining (Manual / Semi-mechanized / Mechanized).	Semi-mechanized opencast.
2.	Equipments to be used for Mining bulldozers, hydraulic excavators, JCB, scrapers, loaders, Diesel Pump, etc.)	Excavator-1 Dumper- 1 Drill machinery- 1
3.	Whether it includes blasting?	No
4.	Details of Authorized Blasting Agency with date of validity certificate	NIL
5.	Procedure / SOP (in brief)	NIL
6.	Details of Blasting Parameters in brief	NIL
7.	Frequency of blasting	NIL
8.	Impact of blasting	NIL
9.	Outcome of Vibration study	NIL
10.	Blasting Activity Management Plan	NIL
11.	Use of any Chemical with quantity	NIL
12.	Precautions taken for Human Safety in brief	The risks of accident are envisaged due to

		the operation of equipment, failure of mine pit etc. No loose stone or debris is allowed to remain near the edges of excavation and along the sides of haul road. However, good safety practices shall be applied at the project site. All precautionary measures will be adopted and use of protective equipment will be mandatory. However, to deal the minor incidences and accidents, first aid measures at site will be provided.
13.	Crusher provided? If Yes, Measures taken for Air Pollution Control	No
14.	Compliance of DGMS Guidelines for Blasting	NIL
15.	Compliance of Sustainable Sand Mine Guidelines published by MoEFCC in 2016	NIL
16.	Whether Replenishment Rate Study is approved by District Geologist? If yes, conclude in brief	No

D. Details of Green Belt Development:

1.	a. Green belt development budget	Rs. 10,000/-
	b. Green belt area / location	Along the periphery of the mine lease area.
	c. No. of trees to be planted	70
	d. Types of trees to be planted	Indigenous species in consultation with local authority.

E. Details of Environment Management Plan:

1.	**Details of EMP**	**Impact**	**Mitigation Measures**
	a. Land Environment	Mining is essentially an excavation of mineral. The land environment is greatly affected by it. Specially, in case of mining which is being carried out by semi-mechanized, it is expected to affect the land environment essentially.	· Access roads from public roads will be aligned in such a way that it would cause least damage. · Vegetation development is proposed along the lease area as restoration work. · Plantation is proposed along the road sides, civicamenities in consultation with local/ govt. authorities. While selecting the plant species, preference will be given for planting native

				species of the area.	
		b. Water Environment	Because of the open Cast & semi mechanization method in the mining activity, the impact of mining operations on water quality is also expected to be insignificant. There would be no impact on the quality/quantity of ground water as existing ground water level in study area is deep. Surface water is also not diverted or disturbed. Therefore, there would not be any impact on surface water and ground water quality.	• The domestic sewage from the canteen and toilets will be routed to septic tanks. • Regular monitoring of water levels and quality in the existing open wells and bore wells in the vicinity will be carried out. If found necessary, additional observation wells will be sunk for monitoring the water levels and quality around the mine representing both upstream and downstream conditions.	
		c. Air Environment	Dust due to excavation of material and transportation of excavated material from the project site to dumping sites area.	· Use of Personal Protection Equipment's (PPE) like dust masks, ear plugs etc. by the mine workers. · Ambient Air Quality Monitoring will be conducted on regularly basis to assess the quality of ambient air. · Regular water sprinkling on haul roads & loading points will be carried out. · Development of green belt/plantation around the lease boundary, roads, dumps etc.	
		d. Noise Environment	Noise will only be generated due evacuation, transportation activities.	· Proper maintenance, oiling and	

				greasing of transport vehicles at regular intervals will be done to reduce the generation of noise. · Adequate silencers will be provided in all the diesel engines. · Plantation along the sides of approach roads, around office building and mine area will be done to minimize the propagation of noise.	
		e. Biological Environment	There is no national park/wild life sanctuary/eco sensitive area/biosphere reserve/ tiger reserve/elephant reserve in the lease area and buffer zone (10.0 km radius of the Mine area) hence there shall be no impact on wildlife sanctuary due to mining activities.	· Prior to mining, short awareness program will be conducted for labors to make them aware for way of working. · No tree cutting, chopping, lumbering, uprooting of shrubs and herbs will be allowed. · No track or new road for movement of labors or vehicles be laid in adjoining area, this will prevent fragmentation, encroachment and human – animal encounter.	
		f. Human Environment	The impact of mining activity in the area is positive on the socio-economic environment of the region. The proposed mine will be providing employment to local population and it will be give preference to the local people whenever there is requirement of man power.	· Training of employees for use of safety appliances and first aid in vocational training center. · Regular maintenance and testing of all	

			equipment as per manufacturers' guidelines.
	g. Others	--	--
2.	Occupational health & safety measures as per DGMS	Occupational safety and health is very closely related to productivity and good employer-employee relationship. The factors of occupational health in mining project are mainly dust and land degradation. Safety of employees during operation and maintenance etc. shall be as per Mines rules and regulations. To avoid any adverse effect on the health of workers due to various pollutants, sufficient measures relating to safety and health will also be practiced: • Provision of rest shelters for mine workers with amenities like drinking water etc. • All safety measures like use of safety appliances, such as dust masks, helmets, shoes, safety awareness programs, awards, posters, slogans related to safety etc. • Periodical Medical Examination (PME) of all workers by a Medical Officer • First Aid facility is provided at the mine site. • Close surveillance of the factors in working environment and work practices which may affect environment and worker's health. • Working of mine as per approved mining plan and environmental plans.	
3.	Safety measures proposed	· All safety precautions and provisions of Mine Act 1951, Metalliferous Mines Regulations 1961 and Mines Rules,1955 will be strictly followed during all mining operations; · Entry of unauthorized persons will be prohibited; · Firefighting and first-aid provisions in the mines office complex and mining area; · Provisions of all the safety appliances such as safety boot, helmets, goggles etc. will be made available to the employees and regular check for their use;	
	a. Is First Aid facility provided by PP?	Yes	
	b. Details of PPEs	All the safety equipment's such as helmets, shoes, goggles, dust mask etc.	
	c. Whether Registration of Workers under Building and other Construction Workers' (regulation of Employment &	Registration of Workers shall be done of the lease.	

	Conditions of Service) Act, 1996 and as Beneficiaries with the Gujarat Building and other Construction Workers Welfare Boards is obtained or not?	
	d. Insurance of Workers	Insurance of Workers shall be done of the lease
	e. Health checkup plan of workers	Health check of all villagers in the immediate vicinity of the mine shall be carried out periodically. In case any person or a group of persons is found to be suffering from any ailment, directly related to mining, their medical treatment will be carried on an urgent basis.

F. Transportation:

1.	No. of vehicles per day carrying Minerals	3-4
2.	Fugitive dust emission control measures	· Use of Personal Protection Equipment's (PPE) like dust masks, ear plugs etc. by the mine workers. · Ambient Air Quality Monitoring will be conducted on regularly basis to assess the quality of ambient air. · Regular water sprinkling on haul roads & loading points will be carried out. · Development of green belt/plantation around the lease boundary, roads, dumps etc.
3.	Route plan in brief	The excavated material loaded manually in tipper for transported up to consumer by following the pacca road linked with project site. This pacca road is further connected with SH-7.

G. Financial details of the Project:

1.	Total cost of the project (Lakh)	5.0
	a. Upfront cost (Lakh)	
	b. Performance Security (Lakh)	
	c. Total Royalty (Lakh)	
	d. Weigh Bridge Cost (Lakh)	
	e. Labor cost equipment (Lakh)	
	f. Equipment protection and implementation cost (Lakh)	
	g. Green Belt Development & maintenance cost (Lakh)	0.10
	h. Cost of EMP (Lakh)	0.50
	i. Cost of Safety measures (Lakh)	0.15
	j. Cost of Post-Closure Mine Plan (Lakh)	
2.	Budget allocated for CER (Lakh)	

3.	Is need based survey for CER carried out? (Yes / No) If yes, give details of activities along with Budgetary Outlay		**S. No.**	**Activities**	**Allocation of Fund (Rs. Lacs)**
			1	Health Camps	**1.0**
			2	Up gradation of toilets of government school in nearby villages	**0.5**
			3	Repair and Painting of School Building in the project village	**0.5**
				Total	**2.0**

H. Restoration / Reclamation Plan:

1.	Restoration / Reclamation Details	The proposals to be implemented for reclamation and rehabilitation of mined-out land including the manner in which the actual site of the pit will be restored for future use.
2.	Post mining closure plan	The mined-out area (0.4902 ha.) will be developed as water collection pond to store rain water. The unmined land of non-mineable area shall be used for plantation.
3.	Backfilling material and its quantity	Location of proposed dumping ground within the quarry area weather proved for presence or absence of mineral and be outside the UPL unless simultaneous backfilling as proposed orpurely temporary dumping for a short period is proposed in mineralized area with technicalconstraints & justification.
4.	Size of void for Rain Water Harvesting after backfilling	0.4902 Ha
5.	Post Closure Liability / Safety aspects and Measures to be taken to avoid wild life and human accidents/ causalities	Fencing will done all along the project area
6.	Display of Caution Boards at strategic locations on the periphery of the pit area	Display of Caution Boards at strategic locations on the periphery of the pit area will be done
7.	Final Use of reservoir/ reclaimed land	The mined-out area (0.4902 ha.) will be developed as water collection pond to store ran water. The unmined land of non-mineable area shall be used for plantation.

I. Details of Legal Action / Court Case:

1.	Details of Pending Court matter / Public	Not applicable

		Litigation Cases in any court of Law	
	2.	Details of Action taken by GPCB, if any	Not applicable
	3.	Details of public complaint , if any	Not applicable
	4.	Compliance of EC by RO-GPCB or MoEFCC-Bhopal	Not applicable

Deliberation:

Shri Rishabh Sehgal remained present in the meeting on behalf of PP and he has sent an Authorization email for same. Committee deliberated on method of mining, rate of mining, no. of working hours and workers, no. of leases in the cluster and its lease area etc. Committee also deliberated on the location of the lease w.r.t. Environmental Sensitivities and found as per the criteria prescribed by CPCB. Committee noted that the mining does not involve blasting and it is a Semi-mechanized open cast mining. During the presentation, Environmental Management Plan, Restoration / reclamation plan, CER activities and its budget, green belt development etc. was discussed.

After scoping for the aforementioned proposal, committee decided to consider the proposal under B1 category keeping cluster situation & Hon'ble National Green Tribunal Order dated 13 September 2018 in view, It was decided to recommend TOR approved by SEIAA on 07/03/2019 for **Non sand mining without blasting** for conducting the EIA study to be done for the proposals in cluster considering 10 Km radius from the periphery of the mine lease area including public hearing including additional TOR to SEIAA as per **Annexure – I**.

4. BUILDING LIMESTONE MINING , DIST: JAMNAGAR

Application No	Name of Project	S.No.	Village	Taluka	Dist	Lease Area	Validity of lease	ROM	Nearest Human Habitation	End Use	Investment in Rs	Date of Application Received by SEAC
SIA/GJ/MIN/60570/2021	Malavada Building Limestone Quarry (Shri Mahesh Kumar Sapariya)	Govt. Land - 35/3P	Malavada	Jamjodhpur	Jamnagar	1.00.00 Ha	LoI issued on 11.09.2017 for 10 years	7836 MTPA	Malavada – 0.60 km	Construction	Rs. 5 Lakh	24.03.2021

The project falls under B1 Category – 1(a), i.e. Mining of Minerals as per the provision of EIA Notification, 2006. Project Proponent has applied to obtain Terms of Reference (TOR) for mining of Building Limestone.

A. Basic Information of the Project:

<table>
<tr><td>1.</td><td>Name of Project as per Form I</td><td>Malavada Building Limestone Quarry Area</td></tr>
<tr><td>2.</td><td>Address of the lease</td><td>Survey No.:35/3 P
Village:Malavada
Taluka:Jamjodhpur
District: Jamnagar</td></tr>
<tr><td>3.</td><td>Name of lease holder</td><td>Shri MaheshkumarJivanbhaiSapariya</td></tr>
<tr><td>4.</td><td>Lease area (Ha)</td><td>1.0</td></tr>
<tr><td rowspan="6">5.</td><td>Cluster Details</td><td></td></tr>
<tr><td>a. Total no. of leases in the cluster</td><td>8</td></tr>
<tr><td>b. No. of TOR granted in cluster</td><td>1</td></tr>
<tr><td>c. No. of EC granted in cluster</td><td>1</td></tr>
<tr><td>d. Total area of the cluster</td><td>8.0 Ha</td></tr>
<tr><td>e. Maximum individual lease area
f. Minimum individual lease area</td><td>1.0 Ha
1.0 Ha</td></tr>
<tr><td>6.</td><td>Validity of lease with the date of expiry</td><td>Validity of lease is 10 years, Date of expiry is 11.09.2027</td></tr>
<tr><td>7.</td><td>Rate of Mining (MT/Annum)</td><td>7,836</td></tr>
<tr><td>8.</td><td>Details of EC obtained (for expansion projects), if any</td><td>Not applicable</td></tr>
<tr><td>9.</td><td>Name of River Bed</td><td>Not applicable</td></tr>
<tr><td>10.</td><td>Is the river perennial / non-perennial?</td><td>Not applicable</td></tr>
<tr><td>11.</td><td>Lease area (submerged / in stream / on dry river bed)</td><td>Not applicable</td></tr>
<tr><td>12.</td><td>All coordinates of the lease area as per Approved Mining Plan</td><td>
<table>
<tr><th>S.No.</th><th>Latitude</th><th>Longitude</th></tr>
<tr><td>1</td><td>21°49’15.45”N</td><td>70°04’08.51” E</td></tr>
<tr><td>2</td><td>21°49’15.61”N</td><td>70°04’14.75” E</td></tr>
<tr><td>3</td><td>21°49’13.75”N</td><td>70°04’14.81” E</td></tr>
<tr><td>4</td><td>21°49’13.60”N</td><td>70°04’08.57” E</td></tr>
</table>
</td></tr>
<tr><td>13.</td><td>Manpower requirement</td><td>19</td></tr>
<tr><td>14.</td><td>Applicability of CRZ Notification</td><td>Not applicable</td></tr>
<tr><td>15.</td><td>Minimum Setback distance proposed to be maintained from River Bed (m)</td><td>Not applicable</td></tr>
<tr><td>16.</td><td>Minimum buffer distance from bridge piers / water intake wells / irrigation structures</td><td>Dam – 4 km</td></tr>
<tr><td>17.</td><td>Maximum depth of sand removal (3 m or water depth whichever is less)</td><td>-</td></tr>
<tr><td>18.</td><td>Width of Riverbed (m)</td><td>Not applicable</td></tr>
<tr><td>19.</td><td>Average depth of water at lease area (m)</td><td>32 mbgl</td></tr>
<tr><td>20.</td><td>Depth of mining (m)</td><td>6m (upto161mRL)</td></tr>
<tr><td>21.</td><td>Ground Water Table in meter BGL</td><td>Maximum 35 mbgl</td></tr>
<tr><td>22.</td><td>Does ground water interfere approach road exit? (Yes / No)

If yes, status report of CGWA</td><td>No</td></tr>
<tr><td>23.</td><td>Distance between lease and main road</td><td>SH-97 at a distance of 7km</td></tr>
<tr><td>24.</td><td>Length of kaccha road (m)</td><td>870 m</td></tr>
<tr><td>25.</td><td>Length of pacca road (m)</td><td>14 km</td></tr>
</table>

26.	Plan for making pacca road	Pacca road will be prepared before the start of proposed project
27.	Source of fresh water	The water demand shall be met from the existing open well situated outside the lease area and through tanker supply.
28.	Water requirement (KLPD)	5.0 KLPD
	a. Domestic	2.0 KLPD
	b. Dust suppression	2.5 KLPD
	c. Gardening / Green belt development	0.5 KLPD
	d. others	Nil
29.	Whether the Undertaking is submitted for identical information provided in Form I, Approved Mining Plan, Project Details validated by District Geologist, Pre-Feasibility Report, Lease Document, Environment Management Plan and other documents	Yes

B. Environmental Sensitivities:

Sr No.	Environmental Sensitivities	Actual Distance	Minimum Distance	Reference
1.	Residential	600m	100 m (When Blasting is not involved) **Or** 200 m (When Blasting is involved)	As per CPCB Distance Criteria And order of of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020
	Public buildings	600m		
	Inhabited sites	600m		
	Protected monuments,	NA		
	Heritage sites	NA		
	National / State Highway	SH 97- 7 km		
	District roads	600m		
	Public roads	150m		
	Railway line / area	Jamjodhpur Railway station 9.76Km (Aerial)		
	Ropeway or Ropeway trestle or station	NA		
	Bridges	NA		
	Dams	4 km		

	Reservoirs	4 km		
	River	--		
	Canal	8km		
	Lakes	--		
	Tanks	--		
2.	Eco-Sensitive Zone (if notified)	--	>1 km / outside the notified Eco-Sensitive Zone	Vide directives of MOEF&CC dtd 16.07.2020
3.	Eco-Sensitive Zone (if not notified)	--	>1 km and <10 km = Prior Clearance from NBWL is required	Vide directives of MOEF&CC dtd 16.07.2020
4.	Distance of Coastal line from the site	--	>500 M from HTL	Amended CRZ Notification 2011

C. Details of Mining:

1.	Method of Mining (Manual / Semi-mechanized / Mechanized).	Semi Mechanized
2.	Equipments to be used for Mining bulldozers, hydraulic excavators, JCB, scrapers, loaders, Diesel Pump, etc.)	Excavator 01 Tipper 01 Drill machinery 01
3.	Whether it includes blasting?	No
4.	Details of Authorized Blasting Agency with date of validity certificate	NA
5.	Procedure / SOP (in brief)	NA
6.	Details of Blasting Parameters in brief	NA
7.	Frequency of blasting	NA
8.	Impact of blasting	NA
9.	Outcome of Vibration study	NA
10.	Blasting Activity Management Plan	NA
11.	Use of any Chemical with quantity	NA
12.	Precautions taken for Human Safety in brief	The risks of accident are envisaged due to the operation of equipment, failure of mine pit etc. No loose stone or debris is allowed to remain near the edges of excavation and along the sides of haul road. However, good safety practices shall be applied at the project site. All precautionary measures will be adopted and use of protective equipment will be mandatory. However, to deal the minor incidences and accidents, first aid measures at site will be provided.
13.	Crusher provided? If Yes, Measures taken for Air Pollution Control	NA

14.	Compliance of DGMS Guidelines for Blasting	NA
15.	Compliance of Sustainable Sand Mine Guidelines published by MoEFCC in 2016	NA
16.	Whether Replenishment Rate Study is approved by District Geologist? If yes, conclude in brief	No

D. Details of Green Belt Development:

1.	a. Green belt development budget	Rs. 10,000.00
	b. Green belt area / location	Along the periphery of the mine lease area
	c. No. of trees to be planted	110
	d. Types of trees to be planted	Indigenous species in consultation with the local authorities

E. Details of Environment Management Plan:

1.	**Details of EMP**	**Impact**	**Mitigation Measures**
	a. Land Environment	Mining is essentially an excavation of mineral. The land environment is greatly affected by it. Specially, in case of mining which is being carried out by semi-mechanized, it is expected to affect the land environment essentially.	· Access roads from public roads will be aligned in such a way that it would cause least damage. · Vegetation development is proposed along the lease area as restoration work. · Plantation is proposed along the road sides, civic amenities in consultation with local/ govt. authorities. While selecting the plant species, preference will be given for planting native species of the area.
	b. Water Environment	Because of the open Cast & semi mechanization method in the mining activity, the impact of mining operations on water quality is also expected to be insignificant. There would be no impact on the quality/quantity of ground water as existing ground water level in study area is deep. Surface water is also not diverted or disturbed. Therefore, there would not be any impact on surface water and ground water quality.	• The domestic sewage from the canteen and toilets will be routed to septic tanks. • Regular monitoring of water levels and quality in the existing open wells and bore wells in the vicinity will be carried out. If found necessary, additional observation wells will be sunk for monitoring the water levels and quality around the mine representing both upstream and downstream conditions.
	c. Air Environment	Dust due to excavation of material and transportation of excavated material from the project site to dumping sites area.	· Use of Personal Protection Equipment's (PPE) like dust masks, ear plugs etc. by the mine workers. · Ambient Air Quality Monitoring

				will be conducted on regularly basis to assess the quality of ambient air. · Regular water sprinkling on haul roads & loading points will be carried out. · Development of green belt/plantation around the lease boundary, roads, dumps etc.	
		d. Noise Environment	Noise will only be generated due evacuation, transportation activities.	· Proper maintenance, oiling and greasing of transport vehicles at regular intervals will be done to reduce the generation of noise. · Adequate silencers will be provided in all the diesel engines. · Plantation along the sides of approach roads, around office building and mine area will be done to minimize the propagation of noise.	
		e. Biological Environment	There is no national park/wild life sanctuary/eco sensitive area/biosphere reserve/ tiger reserve/elephant reserve in the lease area and buffer zone (10.0 km radius of the Mine area) hence there shall be no impact on wildlife sanctuary due to mining activities.	· Prior to mining, short awareness program will be conducted for labors to make them aware for way of working. · No tree cutting, chopping, lumbering, uprooting of shrubs and herbs will be allowed. · No track or new road for movement of labors or vehicles be laid in adjoining area, this will prevent fragmentation, encroachment and human – animal encounter.	
		f. Human Environment	The impact of mining activity in the area is positive on the socio-economic environment of the region. The proposed mine will be providing employment to local population and it will be give preference to the local people whenever there is requirement of man power.	· Training of employees for use of safety appliances and first aid in vocational training center. · Regular maintenance and testing of all equipment as per manufacturers' guidelines.	
		g. Others	-	-	
	2.	Occupational health & safety measures as per DGMS	Occupational safety and health is very closely related to productivity and good employer-employee relationship. The factors of occupational health in mining project are mainly dust and land degradation. Safety of employees during operation and maintenance etc. shall be as per Mines rules and regulations.		

			To avoid any adverse effect on the health of workers due to various pollutants, sufficient measures relating to safety and health will also be practiced: • Provision of rest shelters for mine workers with amenities like drinking water etc. • All safety measures like use of safety appliances, such as dust masks, helmets, shoes, safety awareness programs, awards, posters, slogans related to safety etc. • Periodical Medical Examination (PME) of all workers by a Medical Officer • First Aid facility is provided at the mine site. • Close surveillance of the factors in working environment and work practices which may affect environment and worker's health. • Working of mine as per approved mining plan and environmental plans.
	3.	Safety measures proposed	· All safety precautions and provisions of Mine Act 1951, Metalliferous Mines Regulations 1961 and Mines Rules,1955 will be strictly followed during all mining operations; · Entry of unauthorized persons will be prohibited; · Firefighting and first-aid provisions in the mines office complex and mining area; · Provisions of all the safety appliances such as safety boot, helmets, goggles etc. will be made available to the employees and regular check for their use;
		a. Is First Aid facility provided by PP?	Yes
		b. Details of PPEs	Helmets, Gloves, Shoes, dust masks, ear plugs etc.
		c. Whether Registration of Workers under Building and other Construction Workers' (regulation of Employment & Conditions of Service) Act, 1996 and as Beneficiaries with the Gujarat Building and other Construction Workers Welfare Boards is obtained or not?	Not yet obtained
		d. Insurance of Workers	Will be done before commencement of mining operations

	e. Health checkup plan of workers	Health check of all villagers in the immediate vicinity of the mine shall be carried out periodically. In case any person or a group of persons is found to be suffering from any ailment, directly related to mining, their medical treatment will be carried on an urgent basis.

F. Transportation:

1.	No. of vehicles per day carrying Minerals	02
2.	Fugitive dust emission control measures	· Use of Personal Protection Equipment's (PPE) like dust masks, ear plugs etc. by the mine workers. · Ambient Air Quality Monitoring will be conducted on regularly basis to assess the quality of ambient air. · Regular water sprinkling on haul roads & loading points will be carried out. · Development of green belt/plantation around the lease boundary, roads, dumps etc.
3.	Route plan in brief	The excavated material loaded manually in tipper for transported up to consumer by following the pucca road linked with project site. This pucca road is further connected with SH-7.

G. Financial details of the Project:

1.	Total cost of the project (Lakh)	5.0
	a. Upfront cost (Lakh)	
	b. Performance Security (Lakh)	0.10
	c. Total Royalty (Lakh)	3.5
	d. Weigh Bridge Cost (Lakh)	0.15
	e. Labor cost equipment (Lakh)	0.10
	f. Equipment protection and implementation cost (Lakh)	0.40
	g. Green Belt Development & maintenance cost (Lakh)	0.10
	h. Cost of EMP (Lakh)	0.50
	i. Cost of Safety measures (Lakh)	0.15
	j. Cost of Post-Closure Mine Plan (Lakh)	--
2.	Budget allocated for CER (Lakh)	

3.	Is need based survey for CER carried out? (Yes / No) If yes, give details of activities along with Budgetary Outlay	

S. No.	Activities	Allocation of Fund (Rs. Lacs)
1	Health Camps	**1.0**
2	Up gradation of toilets of government school in nearby villages	**0.5**
3	Repair and Painting of School Building in the project village	**0.5**
	Total	**2.0**

H. Restoration / Reclamation Plan:

1.	Restoration / Reclamation Details	The proposals to be implemented for reclamation and rehabilitation of mined-out land including the manner in which the actual site of the pit will be restored for future use.
2.	Post mining closure plan	The mined-out area (0.4902 ha.) will be developed as water collection pond to store rain water. The unmined land of non-mineable area shall be used for plantation.
3.	Backfilling material and its quantity	Location of proposed dumping ground within the quarry area weather proved for presence or absence of mineral and be outside the UPL unless simultaneous backfilling as proposed orpurely temporary dumping for a short period is proposed in mineralized area with technicalconstraints & justification.
4.	Size of void for Rain Water Harvesting after backfilling	0.4902 ha
5.	Post Closure Liability / Safety aspects and Measures to be taken to avoid wild life and human accidents/ causalities	Fencing will done all along the project area
6.	Display of Caution Boards at strategic locations on the periphery of the pit area	Display of Caution Boards at strategic locations on the periphery of the pit area will be done
7.	Final Use of reservoir/ reclaimed land	The mined-out area (0.4902 ha.) will be developed as water collection pond to store ran water. The unmined land of non-mineable area shall be used for plantation.

I. Details of Legal Action / Court Case:

1.	Details of Pending Court matter / Public	Not applicable

		Litigation Cases in any court of Law	
	2.	Details of Action taken by GPCB, if any	Not applicable
	3.	Details of public complaint , if any	Not applicable
	4.	Compliance of EC by RO-GPCB or MoEFCC-Bhopal	Not applicable

Deliberation:

Shri Rishabh Sehgal remained present in the meeting on behalf of PP and he has sent an Authorization email for same. Committee deliberated on method of mining, rate of mining, no. of working hours and workers, no. of leases in the cluster and its lease area etc. Committee also deliberated on the location of the lease w.r.t. Environmental Sensitivities and found as per the criteria prescribed by CPCB. Committee noted that the mining does not involve blasting and it is a Semi-mechanized mining. During the presentation, Environmental Management Plan, Restoration / reclamation plan, CER activities and its budget, green belt development etc. was discussed.

After scoping for the aforementioned proposal, committee decided to consider the proposal under B1 category keeping cluster situation & Hon'ble National Green Tribunal Order dated 13 September 2018 in view, It was decided to recommend TOR approved by SEIAA on 07/03/2019 for **Non sand mining without blasting** for conducting the EIA study to be done for the proposals in cluster considering 10 Km radius from the periphery of the mine lease area including public hearing including additional TOR to SEIAA as per **Annexure – I**.

5. BUILDING LIMESTONE MINING, DIST: JAMNAGAR

Application No	Name of Project	S. No.	Village	Taluka	Dist	Lease Area	Validity of lease	ROM	Nearest Human Habitation	End Use	Investment in Rs	Date of Application Received by SEAC
SIA/GJ/MIN/60617/2021	Malavada Building Limestone Quarry (Bipinbhai Parsottambhai Nakrani)	Govt. Land 35/3 P	Malavada	Jamjodhpur	Jamnagar	1.00.00 ha	LoI issued on 11.09.2017 for 10 years	7836 MTPA	Malavada – 0.60 km	Constructions	Rs.5 Lakh	25.03.2021

The project falls under B1 Category – 1(a), i.e. Mining of Minerals as per the provision of EIA Notification, 2006. Project Proponent has applied to obtain Terms of Reference (TOR) for mining of Building Limestone.

A. Basic Information of the Project:

1.	Name of Project as per Form I	Malavada Building Limestone Quarry
2.	Address of the lease	Survey No.:35/3 P Village:Malavada Taluka:Jamjodhpur District: Jamnagar
3.	Name of lease holder	BipinbhaiParsottambhaiNakrani
4.	Lease area (Ha)	1.0
5.	Cluster Details	
	a. Total no. of leases in the cluster	8
	b. No. of TOR granted in cluster	1
	c. No. of EC granted in cluster	1
	d. Total area of the cluster	8.0 Ha
	e. Maximum individual lease area	1.0 Ha
	f. Minimum individual lease area	1.0 Ha
6.	Validity of lease with the date of expiry	10 Years, DOE: 10.09.2027
7.	Rate of Mining (MT/Annum)	7,836
8.	Details of EC obtained (for expansion projects), if any	NA
9.	Name of River Bed	NA
10.	Is the river perennial / non-perennial?	NA
11.	Lease area (submerged / in stream / on dry river bed)	NA
12.	All coordinates of the lease area as per Approved Mining Plan	21° 49' 07.71" N 70° 04' 33.92" E 21° 49' 07.51" N 70° 04' 40.18" E 21° 49' 05.69" N 70° 04' 40.10" E 21° 49' 05.89" N 70° 04' 33.83" E
13.	Manpower requirement	19
14.	Applicability of CRZ Notification	NA
15.	Minimum Setback distance proposed to be maintained from River Bed (m)	NA
16.	Minimum buffer distance from bridge piers / water intake wells / irrigation structures	Dam – 4 km
17.	Maximum depth of sand removal (3 m or water depth whichever is less)	-
18.	Width of Riverbed (m)	NA
19.	Average depth of water at lease area (m)	NA
20.	Depth of mining (m)	6m (upto 146 mRL)
21.	Ground Water Table in meter BGL	30-35
22.	Does ground water interfere approach road exit? (Yes / No) If yes, status report of CGWA	No
23.	Distance between lease and main road	7 km
24.	Length of kaccha road (m)	870 m
25.	Length of pacca road (m)	14 km
26.	Plan for making pacca road	Pacca road will be prepared before the start of proposed project

27.	Source of fresh water	The domestic water demand shall be met from the existing open well situated outside the lease area and through tanker supply. Water stored in the pit during the rainy season will be used for plantation and dust suppression.
28.	Water requirement (kLPD)	5.0 KLPD
	a. Domestic	2.0 KLPD
	b. Dust suppression	2.5 KLPD
	c. Gardening / Green belt development	0.5 KLPD
	d. others	Nil
29.	Whether the Undertaking is submitted for identical information provided in Form I, Approved Mining Plan, Project Details validated by District Geologist, Pre-Feasibility Report, Lease Document, Environment Management Plan and other documents	Yes

B. Environmental Sensitivities:

Sr No.	**Environmental Sensitivities**	**Actual Distance**	**Minimum Distance**	**Reference**
1.	Residential	600 m	100 m (When Blasting is not involved) **Or** 200 m (When Blasting is involved)	As per CPCB Distance Criteria And order of of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020
	Public buildings	600 m		
	Inhabited sites	600 m		
	Protected monuments,	NA		
	Heritage sites	NA		
	National / State Highway	SH-97.7 km		
	District roads	600 m		
	Public roads	150 m		
	Railway line / area	Jamjodhpur Railway station 9.76 km (Aerial)		
	Ropeway or Ropeway trestle or station	NA		
	Bridges	NA		
	Dams	4 km		
	Reservoirs	4 km		

	River	--		
	Canal	8 km		
	Lakes	--		
	Tanks	--		
2.	Eco-Sensitive Zone (if notified)	--	>1 km / outside the notified Eco-Sensitive Zone	Vide directives of MOEF&CC dtd 16.07.2020
3.	Eco-Sensitive Zone (if not notified)	--	>1 km and <10 km = Prior Clearance from NBWL is required	Vide directives of MOEF&CC dtd 16.07.2020
4.	Distance of Coastal line from the site	--	>500 M from HTL	Amended CRZ Notification 2011

C. Details of Mining:

1.	Method of Mining (Manual / Semi-mechanized / Mechanized).	Semi Mechanized
2.	Equipments to be used for Mining bulldozers, hydraulic excavators, JCB, scrapers, loaders, Diesel Pump, etc.)	Excavator 01 Tipper 01 Drill machinery 01
3.	Whether it includes blasting?	No
4.	Details of Authorized Blasting Agency with date of validity certificate	NA
5.	Procedure / SOP (in brief)	NA
6.	Details of Blasting Parameters in brief	NA
7.	Frequency of blasting	NA
8.	Impact of blasting	NA
9.	Outcome of Vibration study	NA
10.	Blasting Activity Management Plan	NA
11.	Use of any Chemical with quantity	NA
12.	Precautions taken for Human Safety in brief	The risks of accident are envisaged due to the operation of equipment, failure of mine pit etc. No loose stone or debris is allowed to remain near the edges of excavation and along the sides of haul road. However, good safety practices shall be applied at the project site. All precautionary measures will be adopted and use of protective equipment will be mandatory. However, to deal the minor incidences and accidents, first aid measures at site will be provided.
13.	Crusher provided? If Yes, Measures taken for Air Pollution Control	NA
14.	Compliance of DGMS Guidelines for Blasting	NA
15.	Compliance of Sustainable Sand Mine	NA

	Guidelines published by MoEFCC in 2016	
16.	Whether Replenishment Rate Study is approved by District Geologist? If yes, conclude in brief	No

D. Details of Green Belt Development:

1.	a. Green belt development budget	Rs. 10,000.00
	b. Green belt area / location	Along the periphery of the mine lease area
	c. No. of trees to be planted	75
	d. Types of trees to be planted	Indigenous species in consultation with the local authorities

E. Details of Environment Management Plan:

1.	**Details of EMP**	**Impact**	**Mitigation Measures**
	a. Land Environment	Mining is essentially an excavation of mineral. The land environment is greatly affected by it. Specially, in case of mining which is being carried out by semi-mechanized, it is expected to affect the land environment essentially.	· Access roads from public roads will be aligned in such a way that it would cause least damage. · Vegetation development is proposed along the lease area as restoration work. · Plantation is proposed along the road sides, civic amenities in consultation with local/ govt. authorities. While selecting the plant species, preference will be given for planting native species of the area.
	b. Water Environment	Because of the open Cast & semi mechanization method in the mining activity, the impact of mining operations on water quality is also expected to be insignificant. There would be no impact on the quality/quantity of ground water as existing ground water level in study area is deep. Surface water is also not diverted or disturbed. Therefore, there would not be any impact on surface water and ground water quality.	• The domestic sewage from the canteen and toilets will be routed to septic tanks. • Regular monitoring of water levels and quality in the existing open wells and bore wells in the vicinity will be carried out. If found necessary, additional observation wells will be sunk for monitoring the water levels and quality around the mine representing both upstream and downstream conditions.
	c. Air Environment	Dust due to excavation of material and transportation of excavated material from the project site to dumping sites area.	· Use of Personal Protection Equipment's (PPE) like dust masks, ear plugs etc. by the mine workers. · Ambient Air Quality Monitoring will be conducted on regularly basis to assess the quality of

				ambient air. · Regular water sprinkling on haul roads & loading points will be carried out. · Development of green belt/plantation around the lease boundary, roads, dumps etc.	
		d. Noise Environment	Noise will only be generated due evacuation, transportation activities.	· Proper maintenance, oiling and greasing of transport vehicles at regular intervals will be done to reduce the generation of noise. · Adequate silencers will be provided in all the diesel engines. · Plantation along the sides of approach roads, around office building and mine area will be done to minimize the propagation of noise.	
		e. Biological Environment	There is no national park/wild life sanctuary/eco sensitive area/biosphere reserve/ tiger reserve/elephant reserve in the lease area and buffer zone (10.0 km radius of the Mine area) hence there shall be no impact on wildlife sanctuary due to mining activities.	· Prior to mining, short awareness program will be conducted for labors to make them aware for way of working. · No tree cutting, chopping, lumbering, uprooting of shrubs and herbs will be allowed. · No track or new road for movement of labors or vehicles be laid in adjoining area, this will prevent fragmentation, encroachment and human – animal encounter.	
		f. Human Environment	The impact of mining activity in the area is positive on the socio-economic environment of the region. The proposed mine will be providing employment to local population and it will be give preference to the local people whenever there is requirement of man power.	· Training of employees for use of safety appliances and first aid in vocational training center. · Regular maintenance and testing of all equipment as per manufacturers' guidelines.	
		g. Others	-	-	
	2.	Occupational health & safety measures as per DGMS	Occupational safety and health is very closely related to productivity and good employer-employee relationship. The factors of occupational health in mining project are mainly dust and land degradation. Safety of employees during operation and maintenance etc. shall be as per Mines rules and regulations. To avoid any adverse effect on the health of workers due to		

			various pollutants, sufficient measures relating to safety and health will also be practiced: • Provision of rest shelters for mine workers with amenities like drinking water etc. • All safety measures like use of safety appliances, such as dust masks, helmets, shoes, safety awareness programs, awards, posters, slogans related to safety etc. • Periodical Medical Examination (PME) of all workers by a Medical Officer • First Aid facility is provided at the mine site. • Close surveillance of the factors in working environment and work practices which may affect environment and worker's health. • Working of mine as per approved mining plan and environmental plans.	
	3.	Safety measures proposed	· All safety precautions and provisions of Mine Act 1951, Metalliferous Mines Regulations 1961 and Mines Rules,1955 will be strictly followed during all mining operations; · Entry of unauthorized persons will be prohibited; · Firefighting and first-aid provisions in the mines office complex and mining area; · Provisions of all the safety appliances such as safety boot, helmets, goggles etc. will be made available to the employees and regular check for their use;	
		a. Is First Aid facility provided by PP?	Yes	
		b. Details of PPEs	Helmets, Gloves, Shoes, dust masks, ear plugs etc.	
		c. Whether Registration of Workers under Building and other Construction Workers' (regulation of Employment & Conditions of Service) Act, 1996 and as Beneficiaries with the Gujarat Building and other Construction Workers Welfare Boards is obtained or not?	Not yet obtained	
		d. Insurance of Workers	Will be done before commencement of mining operations	
		e. Health checkup plan of workers	Health check of all villagers in the immediate vicinity of the mine shall be carried out periodically. In case any person or a group of persons is found to be suffering from any ailment, directly related to mining, their medical treatment will be carried on an urgent	

		basis.

F. Transportation:

1.	No. of vehicles per day carrying Minerals	02
2.	Fugitive dust emission control measures	· Use of Personal Protection Equipment's (PPE) like dust masks, ear plugs etc. by the mine workers. · Ambient Air Quality Monitoring will be conducted on regularly basis to assess the quality of ambient air. · Regular water sprinkling on haul roads & loading points will be carried out. · Development of green belt/plantation around the lease boundary, roads, dumps etc.
3.	Route plan in brief	The excavated material loaded manually in tipper for transported up to consumer by following the pucca road linked with project site. This pucca road is further connected with SH-7.

G. Financial details of the Project:

1.	Total cost of the project (Lakh)	5.0
	a. Upfront cost (Lakh)	
	b. Performance Security (Lakh)	0.10
	c. Total Royalty (Lakh)	3.5
	d. Weigh Bridge Cost (Lakh)	0.15
	e. Labor cost equipment (Lakh)	0.10
	f. Equipment protection and implementation cost (Lakh)	0.40
	g. Green Belt Development & maintenance cost (Lakh)	0.10
	h. Cost of EMP (Lakh)	0.50
	i. Cost of Safety measures (Lakh)	0.15
	j. Cost of Post-Closure Mine Plan (Lakh)	--
2.	Budget allocated for CER (Lakh)	
3.	Is need based survey for CER carried out? (Yes / No) If yes, give details of activities along with Budgetary Outlay	

S. No.	**Activities**	**Allocation of Fund (Rs. Lacs)**
1	Health Camps	**1.0**
2	Up gradation of toilets of government school in nearby villages	**0.5**
3	Repair and Painting of School Building in the project village	**0.5**
	Total	**2.0**

H. Restoration / Reclamation Plan:

1.	Restoration / Reclamation Details	The proposals to be implemented for reclamation and rehabilitation of mined-out land including the manner in which the actual site of the pit will be restored for future use.
2.	Post mining closure plan	The mined-out area (0.4902 ha.) will be developed as water collection pond to store rain water. The unmined land of non-mineable area shall be used for plantation.
3.	Backfilling material and its quantity	Location of proposed dumping ground within the quarry area weather proved for presence or absence of mineral and be outside the UPL unless simultaneous backfilling as proposed or purely temporary dumping for a short period is proposed in mineralized area with technical constraints & justification.
4.	Size of void for Rain Water Harvesting after backfilling	0.4902 ha
5.	Post Closure Liability / Safety aspects and Measures to be taken to avoid wild life and human accidents/ causalities	Fencing will done all along the project area
6.	Display of Caution Boards at strategic locations on the periphery of the pit area	Display of Caution Boards at strategic locations on the periphery of the pit area will be done
7.	Final Use of reservoir/ reclaimed land	The mined-out area (0.4902 ha.) will be developed as water collection pond to store ran water. The unmined land of non-mineable area shall be used for plantation.

I. Details of Legal Action / Court Case:

1.	Details of Pending Court matter / Public Litigation Cases in any court of Law	Not Applicable
2.	Details of Action taken by GPCB, if any	Not Applicable
3.	Details of public complaint , if any	Not Applicable
4.	Compliance of EC by RO-GPCB or MoEFCC-Bhopal	Not Applicable

Deliberation:

Shri Rishabh Sehgal remained present in the meeting on behalf of PP and he has sent an Authorization email for same. Committee deliberated on method of mining, rate of mining, no. of working hours and workers, no. of leases in the cluster and its lease area etc. Committee also deliberated on the location of the lease w.r.t. Environmental Sensitivities and found as per the criteria prescribed by CPCB. Committee noted that the mining does not involve blasting and it is a Semi-mechanized mining. During the presentation, Environmental Management Plan, Restoration / reclamation plan, CER activities and its budget, green belt development etc. was discussed.

After scoping for the aforementioned proposal, committee decided to consider the proposal under B1 category keeping cluster situation & Hon'ble National Green Tribunal Order dated 13 September 2018 in view, It was decided to recommend TOR approved

by SEIAA on 07/03/2019 for **Non sand mining without blasting** for conducting the EIA study to be done for the proposals in cluster considering 10 Km radius from the periphery of the mine lease area including public hearing including additional TOR to SEIAA as per **Annexure – I**.

6. ORDINARY SAND MINING, DIST: SABARKANTHA

Application No	Name of Project	S.No.	Village	Taluka	Dist	Lease Area	Validity of lease	River	ROM	Nearest Human Habitation	End Use	Investment in Rs	Date of Application Received by SEAC
SIA/GJ/MIN/61011/2021	M/s. Shivshakti Transport, proprietor Smt. Nitaben Rameshbhai Patel	Sabarmati River Bed	Jorapur	Himmatnagar	Sabarkantha	3.30.00 Ha	LoI issued on 07.08.2019 for 5 years	Sabarmati	53064 MTPA	Jorapur village – 1.49 km	Construction	Rs.76,66,014/-	05.04.2021 New Project

The project falls under B1 Category – 1(a), i.e. Mining of Minerals as per the provision of EIA Notification, 2006. Project Proponent has applied to obtain Terms of Reference (TOR) for mining of Ordinary Sand.

A. Basic Information of the Project:

1.	Name of Project as per Form I	Mining of River bed ordinary sand from JORAPUR BLOCK – 4on the Sabarmati River, near Village: -Jorapur, Taluka: - Himatnagar, District: - Sabarkantha, State: - Gujarat
2.	Address of the lease	Survey No.: Sabarmati Riverbed Village: Jorapur Taluka: Himatmnagar District: Sabarkantha
3.	Name of lease holder	M/s Shiv Shakti Transport, proprietor Nitaben Patel
4.	Lease area (Ha)	3.30.00 Ha
5.	Cluster Details	
	a. Total no. of leases in the cluster	70
	b. No. of TOR granted in cluster	26
	c. No. of EC granted in cluster	26

<table>
<tr><td></td><td>d. Total area of the cluster</td><td>166.69.61 Ha</td></tr>
<tr><td></td><td>e. Maximum individual lease area</td><td>6.30.00 Ha</td></tr>
<tr><td></td><td>f. Minimum individual lease area</td><td>0.25.29Ha</td></tr>
<tr><td>6.</td><td>Validity of lease with the date of expiry</td><td>5 years (01-01-2024)</td></tr>
<tr><td>7.</td><td>Rate of Mining (MT/Annum)</td><td>53064 MTPA</td></tr>
<tr><td>8.</td><td>Details of EC obtained (for expansion projects), if any</td><td>NA</td></tr>
<tr><td>9.</td><td>Name of River Bed</td><td>Sabarmati River Bed</td></tr>
<tr><td>10.</td><td>Is the river perennial / non-perennial?</td><td>Non - Perennial</td></tr>
<tr><td>11.</td><td>Lease area (submerged / in stream / on dry river bed)</td><td>3.30.00 Ha</td></tr>
<tr><td>12.</td><td>All coordinates of the lease area as per Approved Mining Plan</td><td>
<table>
<tr><td>A</td><td>23°37'0.91"N</td><td>72°49'58.41"E</td></tr>
<tr><td>B</td><td>23°37'3.45"N</td><td>72°49'56.64"E</td></tr>
<tr><td>C</td><td>23°37'5.96"N</td><td>72°50'10.67"E</td></tr>
<tr><td>D</td><td>23°37'8.14"N</td><td>72°50'8.64"E</td></tr>
</table>
</td></tr>
<tr><td>13.</td><td>Manpower requirement</td><td>10-15</td></tr>
<tr><td>14.</td><td>Applicability of CRZ Notification</td><td>NA</td></tr>
<tr><td>15.</td><td>Minimum Setback distance proposed to be maintained from River Bed (m)</td><td>Minimum Setback distance from riverbank is maintained up to 10m.</td></tr>
<tr><td>16.</td><td>Minimum buffer distance from bridge piers / water intake wells / irrigation structures</td><td>As per mining rules the minimum buffer distance to be maintained is 500 m from the bridge piers/water intake wells/ irrigation structures. All the above said structures are more than 500 m away from lease area</td></tr>
<tr><td>17.</td><td>Maximum depth of sand removal (3 m or water depth whichever is less)</td><td>Maximum Depth of sand removal is 0.6 m * 5 Year = 3 m</td></tr>
<tr><td>18.</td><td>Width of Riverbed (m)</td><td>335 m</td></tr>
<tr><td>19.</td><td>Average depth of water at lease area (m)</td><td>In the Summer season water is not available in the mining area. In the monsoon season 3-4 m water is available in this area.</td></tr>
<tr><td>20.</td><td>Depth of mining (m)</td><td>1 m</td></tr>
<tr><td>21.</td><td>Ground Water Table in meter BGL</td><td>35m</td></tr>
<tr><td>22.</td><td>Does ground water interfere approach road exit? (Yes / No)

If yes, status report of CGWA</td><td>No</td></tr>
<tr><td>23.</td><td>Distance between lease and main road</td><td>3.73km</td></tr>
<tr><td>24.</td><td>Length of kaccha road (m)</td><td>1.52 km</td></tr>
<tr><td>25.</td><td>Length of pacca road (m)</td><td>3.73 km</td></tr>
<tr><td>26.</td><td>Plan for making pacca road</td><td>No</td></tr>
<tr><td>27.</td><td>Source of fresh water</td><td>Water Tankers</td></tr>
<tr><td>28.</td><td>Water requirement (kLPD)</td><td></td></tr>
<tr><td></td><td>a. Domestic</td><td>1 KLD</td></tr>
<tr><td></td><td>b. Dust suppression</td><td>2 KLD</td></tr>
<tr><td></td><td>c. Gardening / Green belt</td><td>1 KLD</td></tr>
</table>

	development	
	d. others	-
29.	Whether the Undertaking is submitted for identical information provided in Form I, Approved Mining Plan, Project Details validated by District Geologist, Pre-Feasibility Report, Lease Document, Environment Management Plan and other documents	Yes

B. Environmental Sensitivities:

Sr NO	**Environmental Sensitivities**	**Actual Distance**	**Minimum Distance**	**Reference**
1.	Residential	JorapurVillage – 1.49 km, North-east	100 m (When Blasting is not involved)	As per order of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020
	Public buildings	Aglod Jain Tirth Temple – 2.94 km, North-west		As per order of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd30.09.2020
	Inhabited sites	Not in 10 km of study area		
2.	A. Major Bridge	Not in 10 km of study area	1 km	On both sides of the lease (as per Sustainable Sand Mine Guideline of MOEF&CC)
	B. Highway	State Highway 55 – 3.73 km, South	1 km	On both sides of the lease (as per Sustainable Sand Mine Guideline of MOEF&CC)
OR				
3.	Bridge(Span of Bridge as X)	Not in 10 km of project study area	a. 5X in upstream or 250 m. b. 10X in down stream or 500 m	As per Sustainable Sand Mine Guideline of MOEF&CC
4.	Public Structure including water	Not in 10 km of project	a. 5X in upstream	As per Sustainable Sand Mine Guideline of MOEF&CC

	intake wells	study area	or 250 m. b. 10X in down stream or 500 m	
5.	Depth of working	1 m	1 M or water level whichever is early	As per order of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020)
6.	Set Back Distance to prevent river bank erosion	10 m	10 M or 1/4th of width of river	As per order of Honorable SC dtd 27.02.2020 and Sustainable Sand Mine Guideline of MOEF&CC
7.	Mineable Material per Hectare area for actual mining shall not exceed maximum production	53064MTPA	60,000 MTPA Per Hectare	As per Sustainable Sand Mine Guideline of MOEF&CC
8.	Water supply Scheme/Irrigation structure	Not applicable	200 M	As per Sustainable Sand Mine Guideline of MOEF&CC
9.	Railway Line	VijapurRailway Station – 11.26 km, South-west	100 M	As per Sustainable Sand Mine Guideline of MOEF&CC
10.	Reservoir/Canal	NA	100 M	As per CPCB Distance Criteria And order of of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020
11.	Other Road	Vijapur – valasana Road – 8.8 km, North-west	100 M	As per CPCB Distance Criteria And order of of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020
12.	Eco-Sensitive Zone (if notified)	Not in 10 km of project area	>1 km / outside the notified Eco-Sensitive	Vide directives of MOEF&CC dtd 16.07.2020

			Zone	
13.	Eco-Sensitive Zone (if not notified)	Not in 10 km of project area	>1 km and <10 km = Prior Clearance from NBWL is required	Vide directives of MOEF&CC dtd 16.07.2020
14.	Distance of Coastal line from the site	NA	>500 M from HTL	Amended CRZ Notification 2011

C. Details of Mining:

1.	Method of Mining (Manual / Semi-mechanized / Mechanized).	Open cast, Semi-mechanized
2.	Equipments to be used for Mining bulldozers, hydraulic excavators, JCB, scrapers, loaders, Diesel Pump, etc.)	Hydraulic excavator will be used for excavation and loading of sand. Trucks and dumper will be used for transportation.
3.	Whether it includes blasting?	No Blasting will be done, because Ordinary Sand is in Soft Nature.
4.	Details of Authorized Blasting Agency with date of validity certificate	NA
5.	Procedure / SOP (in brief)	NA
6.	Details of Blasting Parameters in brief	NA
7.	Frequency of blasting	NA
8.	Impact of blasting	NA
9.	Outcome of Vibration study	NA
10.	Blasting Activity Management Plan	NA
11.	Use of any Chemical with quantity	NA
12.	Precautions taken for Human Safety in brief	NA
13.	Crusher provided? If Yes, Measures taken for Air Pollution Control	NA
14.	Compliance of DGMS Guidelines for Blasting	NA
15.	Compliance of Sustainable Sand Mine Guidelines published by MoEFCC in 2016	YES
16.	Whether Replenishment Rate Study is approved by District Geologist? If yes, conclude in brief	YES

D. Details of Green Belt Development:

1.	a. Green belt development budget	1,00,000
	b. Green belt area / location	Green belt will be developed along river bank, haul road and nearby villages
	c. No. of trees to be planted	1,000 @ Rs.100/- per sample in year (Total amount Rs.1,00,000/).
	d. Types of trees to be planted	Plantation of species as per EC conditions

		Peepal, Mango, Bel, Amla, Amaltas, Banyan, Neem , Bahada, Acacia etc. and others as suggested by SPCB/Forest Department

E. Details of Environment Management Plan:

1.	Details of EMP	Impact	Mitigation Measures
	a. Land Environment	Temporary changes in the land use due to excavation	Mining will be done by Opencast Semi Mechanized method. There will be temporary changes in land use due to excavation process; however the area will be naturally reclaimed monsoon seasons
	b. Water Environment	There are no competing users. The total water requirement will be 4 KLD for dust suppression (2 KLD), domestic (1 KLD) and plantation (1 KLD), which will be sourced from water tanker.	Sewage water will be passed into soak pit of septic tanks. Discharge of sewage or other effluents to water or the land is not expected.
	c. Air Environment	Dust emission during excavation and transportation, vehicular movement	Water sprinkling will be done on the roads regularly Care will be taken to prevent spillage by covering the carrying vehicles with tarpaulin and sprinkling of water, if in dry form Proper tuning of Engine of vehicles will be ensured to keep the gas emissions from the vehicles within the prescribed norms. Plantation of trees along the roads will be done to attenuate the impact of dust in the nearby villages /surrounding area.
	d. Noise Environment	Noise generated from extraction, exploration of minerals & from vehicles (dumpers, trucks and excavation etc.)	Regular maintenance of machinery will keep the generated noise level below the minimum prescribed limits Minimum use of Horns at the village area Timely maintenance of vehicles and their silencers to minimize vibration and sound

				Phasing out of old and worn out trucks. Awareness will be imparted prior to mining operations to all the operators & other persons concerned, so that they must be aware of detrimental effects of noise pollution
		e. Biological Environment	Minimum disturbance to local flora and fauna due to mining activity.	Green belt plantation will be done along the haul roads
		f. Human Environment	Employment generation	Occupational health check-up for the workers shall be carried out Safety training from time to time to all staff Providing Helmet, Safety Shoes & Hand Gloves Various amenities like drinking water, rest shelter & toilet will be provided to workers.
		g. Others		
	2.	Occupational health & safety measures as per DGMS	Occupational health safety measures will be taken as per DGMS	
	3.	Safety measures proposed		
		a. Is First Aid facility provided by PP?	First aid facility will be provided by the project proponent	
		b. Details of PPEs	Providing Helmet, Safety Shoes & Hand Gloves	
		c. Whether Registration of Workers under Building and other Construction Workers' (regulation of Employment & Conditions of Service) Act, 1996 and as Beneficiaries with the Gujarat Building and other Construction Workers Welfare Boards is obtained or not?	yes	
		d. Insurance of Workers	Occupational health check-up for the workers shall be carried out and insurance will be done	
		e. Health checkup plan of workers	Occupational health check-up for the workers shall be carried out	

F. Transportation:

1.	No. of vehicles per day carrying Minerals	18 vehicles per day
2.	Fugitive dust emission control measures	Regular control of fugitive dust emissions from the source. Water spraying on haul roads, loading and at transfer points. Truck mounted water tanker to be used from dust suppression during mining and transportation
3.	Route plan in brief	Mined out ordinary sand will be transported through the pucca road

G. Financial details of the Project:

1.	Total cost of the project (Lakh)	Rs. 76,66,014/-
	a. Upfront cost (Lakh)	Rs. 1,93,492/-
	b. Performance Security (Lakh)	Rs. 9,67,462/-
	c. Total Royalty (Lakh)	Rs. 21,22,560/-
	d. Weigh Bridge Cost (Lakh)	Rs. 4,50,000/-
	e. Labor cost equipment (Lakh)	Rs. 14,62,500/-
	f. Equipment protection and implementation cost (Lakh)	Rs. 17,50,000/-
	g. Green Belt Development & maintenance cost (Lakh)	Rs.1,00,000/- capital cost Rs.20,000/- recurring cost
	h. Cost of EMP (Lakh)	Rs.3,00,000/-
	i. Cost of Safety measures (Lakh)	Rs.3,00,000/-
	j. Cost of Post-Closure Mine Plan (Lakh)	-
2.	Budget allocated for CER (Lakh)	Rs.3,00,000/- (Three Lakh) as principal amount and 50,000/- (Fifty thousand) as recurring amount has been allotted for Environmental management plan. It is proposing to invest ~Rs.3,00,000/- for social environmental development over a period of next 3 years, to be considered for implementing the activities in the context of the local scenario of the area as a part of EMP. Proposed Heads are as below.
3.	Is need based survey for CER carried out? (Yes / No) If yes, give details of activities along with Budgetary Outlay	

SN	Activity	Budget		
		1st year	2nd year	3rd year
	Plantation of Trees in Nearby Area	40,000	30,000	30,000
	Drinking water in villages	20.000	20,000	20,000
	Health checkup	50,000	50,000	40,000

			twice year (in winter & summer) & supply of medicine			
			total	1,10,000	1,00,000	90,000

H. Restoration / Reclamation Plan:

1.	Restoration / Reclamation Details	The area will get naturally reclaimed due the Replenishment of sand in the monsoon seasons.
2.	Post mining closure plan	At the end of current Five Years mining plan maximum depth of pit will be 2.5 m. The excavated pits will be replenished by the sand transported by river flow every year in monsoon. The river bed will remain as river bed only. So there is no need for reclamation or progressive closure of mine of the stage.
3.	Backfilling material and its quantity	The area will get naturally reclaimed due the Replenishment of sand in the monsoon seasons.
4.	Size of void for Rain Water Harvesting after backfilling	-
5.	Post Closure Liability / Safety aspects and Measures to be taken to avoid wild life and human accidents/ causalities	-
6.	Display of Caution Boards at strategic locations on the periphery of the pit area	-
7.	Final Use of reservoir/ reclaimed land	-

I. Details of Legal Action / Court Case:

1.	Details of Pending Court matter / Public Litigation Cases in any court of Law	NA
2.	Details of Action taken by GPCB, if any	NA
3.	Details of public complaint , if any	NA
4.	Compliance of EC by RO-GPCB or MoEFCC-Bhopal	NA

Deliberation:

Shri Arun Kumar from M/s. Ultratech Environmental Consultancy and Laboratory remained present in the meeting on behalf of PP and he has sent an Authorization email for same. Committee deliberated on method of mining, rate of mining, no. of working hours and workers, no. of leases in the cluster and its lease area, set back distance, depth of mining etc. Committee also deliberated on the location of the lease w.r.t. Environmental Sensitivities and found as per the criteria prescribed by CPCB. Committee noted that it is a Semi-mechanized open cast mining. During the

presentation, Environmental Management Plan, Restoration / reclamation plan, CER activities and its budget, green belt development etc. was discussed. It is noted that proposed lease area is in dry river bed and does not include in stream mining.

After scoping for the aforementioned proposal, committee decided to consider the proposal under B1 category & Hon'ble National Green Tribunal Order dated 13 September 2018 in view. It was decided to recommend TOR approved by SEIAA on 07/03/2019 for **river bed sand mining** for conducting the EIA study to be done for cluster situation evaluating cumulative impact of the mining leases in cluster considering 10 Km radius from the periphery of the mine lease area including public hearing including project **specific TOR as Annexure – II.**

7. ORDINARY SAND MINING, DIST: SABARKANTHA

Application No	Name of Project	S.No.	Village	Taluka	Dist	Lease Area	Validity of lease	River	ROM	Nearest Human Habitation	End Use	Investment in Rs	Date of Application Received by SEAC
SIA/GJ/MIN/61017/2021	M/s. P.B. Patel & Co. proprietor Shri Pankajbhai Becharbhai Patel	Sabarmati riverbed	Jorapur	Himmatnagar	Sabarkantha	3.30.00 Ha	LoI issued on 07.08.2019 for 5 years	Sabarmati	53064 MTPA	Jorapur village – 1.45 km	Construction	Rs.72,20,981/-	05.04.2021

The project falls under B1 Category – 1(a), i.e. Mining of Minerals as per the provision of EIA Notification, 2006. Project Proponent has applied to obtain Terms of Reference (TOR) for mining of Ordinary Sand.

A. Basic Information of the Project:

1.	Name of Project as per Form I	Mining of River bed ordinary sand from JORAPUR BLOCK – 5 on the Sabarmati River, near Village: -Jorapur, Taluka: - Himatnagar, District: - Sabarkantha, State: - Gujarat

<table>
<tr><td>2.</td><td>Address of the lease</td><td>Survey No.: Sabarmati Riverbed
Village: Jorapur
Taluka: Himatmnagar
District: Sabarkantha</td></tr>
<tr><td>3.</td><td>Name of lease holder</td><td>M/s P. B. Patel & Co. Proprietor Sh. PankajbhaiBecharbhai Patel</td></tr>
<tr><td>4.</td><td>Lease area (Ha)</td><td>3.30.00 Ha</td></tr>
<tr><td rowspan="6">5.</td><td>Cluster Details</td><td></td></tr>
<tr><td>a. Total no. of leases in the cluster</td><td>70</td></tr>
<tr><td>b. No. of TOR granted in cluster</td><td>26</td></tr>
<tr><td>c. No. of EC granted in cluster</td><td>26</td></tr>
<tr><td>d. Total area of the cluster</td><td>166.69.61 Ha</td></tr>
<tr><td>e. Maximum individual lease area</td><td>6.30.00 Ha</td></tr>
<tr><td></td><td>f. Minimum individual lease area</td><td>0.25.29Ha</td></tr>
<tr><td>6.</td><td>Validity of lease with the date of expiry</td><td>5 years (01-01-2024)</td></tr>
<tr><td>7.</td><td>Rate of Mining (MT/Annum)</td><td>53064 MTPA</td></tr>
<tr><td>8.</td><td>Details of EC obtained (for expansion projects), if any</td><td>NA</td></tr>
<tr><td>9.</td><td>Name of River Bed</td><td>Sabarmati River Bed</td></tr>
<tr><td>10.</td><td>Is the river perennial / non-perennial?</td><td>Non - Perennial</td></tr>
<tr><td>11.</td><td>Lease area (submerged / in stream / on dry river bed)</td><td>3.30.00 Ha</td></tr>
<tr><td>12.</td><td>All coordinates of the lease area as per Approved Mining Plan</td><td>
<table>
<tr><th>Point</th><th>Latitude</th><th>Longitude</th></tr>
<tr><td>A</td><td>23°37'3.45"N</td><td>72°49'56.64E</td></tr>
<tr><td>B</td><td>23°37'6.06"N</td><td>72°49'54.79"E</td></tr>
<tr><td>C</td><td>23°37'8.14"N</td><td>72°50'8.64"E</td></tr>
<tr><td>D</td><td>23°37'10.39"N</td><td>72°50'6.54"E</td></tr>
</table>
</td></tr>
<tr><td>13.</td><td>Manpower requirement</td><td>10-15</td></tr>
<tr><td>14.</td><td>Applicability of CRZ Notification</td><td>NA</td></tr>
<tr><td>15.</td><td>Minimum Setback distance proposed to be maintained from River Bed (m)</td><td>Minimum Setback distance from riverbank is maintained up to 10m.</td></tr>
<tr><td>16.</td><td>Minimum buffer distance from bridge piers / water intake wells / irrigation structures</td><td>As per mining rules the minimum buffer distance to be maintained is 500 m from the bridge piers/water intake wells/ irrigation structures. All the above said structures are more than 500 m away from lease area</td></tr>
<tr><td>17.</td><td>Maximum depth of sand removal (3 m or water depth whichever is less)</td><td>Maximum Depth of sand removal is 0.6 m * 5 Year = 3 m</td></tr>
<tr><td>18.</td><td>Width of Riverbed (m)</td><td>695 m</td></tr>
<tr><td>19.</td><td>Average depth of water at lease area (m)</td><td>In the Summer season water is not available in the mining area. In the monsoon season 3-4 m water is available in this area.</td></tr>
<tr><td>20.</td><td>Depth of mining (m)</td><td>1 m</td></tr>
</table>

21.	Ground Water Table in meter BGL	25m
22.	Does ground water interfere approach road exit? (Yes / No) If yes, status report of CGWA	No
23.	Distance between lease and main road	3.77km
24.	Length of kaccha road (m)	1.52 km
25.	Length of pacca road (m)	3.75 km
26.	Plan for making pacca road	No
27.	Source of fresh water	Water Tankers
28.	Water requirement (kLPD)	
	a. Domestic	1 KLD
	b. Dust suppression	2 KLD
	c. Gardening / Green belt development	1 KLD
	d. others	-
29.	Whether the Undertaking is submitted for identical information provided in Form I, Approved Mining Plan, Project Details validated by District Geologist, Pre-Feasibility Report, Lease Document, Environment Management Plan and other documents	Yes

B. Environmental Sensitivities:

Sr NO	Environmental Sensitivities	Actual Distance	Minimum Distance	Reference
1.	Residential	JorapurVillage – 1.45 km, North-east	100 m (When Blasting is not involved)	As per order of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020
	Public buildings	Aglod Jain Tirth Temple – 2.80 km, North-west		As per order of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd30.09.2020
	Inhabited sites	Not in 10 km of study area		
2.	A. Major Bridge	Not in 10 km of study area	1 km	On both sides of the lease (as per Sustainable Sand Mine Guideline of MOEF&CC)
	B. Highway	State Highway 55 – 3.73 km, South	1 km	On both sides of the lease (as per Sustainable Sand Mine Guideline of

				MOEF&CC)
OR				
3.	Bridge(Span of Bridge as X)	Not in 10 km of project study area	c. 5X in upstream or 250 m. d. 10X in down stream or 500 m	As per Sustainable Sand Mine Guideline of MOEF&CC
4.	Public Structure including water intake wells	Not in 10 km of project study area	c. 5X in upstream or 250 m. d. 10X in down stream or 500 m	As per Sustainable Sand Mine Guideline of MOEF&CC
5.	Depth of working	1 m	1 M or water level whichever is early	As per order of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020)
6.	Set Back Distance to prevent river bank erosion	10 m	10 M or $1/4^{th}$ of width of river	As per order of Honorable SC dtd 27.02.2020 and Sustainable Sand Mine Guideline of MOEF&CC
7.	Mineable Material per Hectare area for actual mining shall not exceed maximum production	53064MTPA	60,000 MTPA Per Hectare	As per Sustainable Sand Mine Guideline of MOEF&CC
8.	Water supply Scheme/Irrigation structure	Not applicable	200 M	As per Sustainable Sand Mine Guideline of MOEF&CC
9.	Railway Line	VijapurRailway Station – 11.18 km, South-west	100 M	As per Sustainable Sand Mine Guideline of MOEF&CC
10.	Reservoir/Canal	NA	100 M	As per CPCB Distance Criteria And order of of NGT before Principal

				Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020
11.	Other Road	Vijapur – valasana Road – 9.30 km, North-west	100 M	As per CPCB Distance Criteria And order of of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020
12.	Eco-Sensitive Zone (if notified)	Not in 10 km of project area	>1 km / outside the notified Eco-Sensitive Zone	Vide directives of MOEF&CC dtd 16.07.2020
13.	Eco-Sensitive Zone (if not notified)	Not in 10 km of project area	>1 km and <10 km = Prior Clearance from NBWL is required	Vide directives of MOEF&CC dtd 16.07.2020
14.	Distance of Coastal line from the site	NA	>500 M from HTL	Amended CRZ Notification 2011

C. Details of Mining:

1.	Method of Mining (Manual / Semi-mechanized / Mechanized).	Open cast, Semi-mechanized
2.	Equipments to be used for Mining bulldozers, hydraulic excavators, JCB, scrapers, loaders, Diesel Pump, etc.)	Hydraulic excavator will be used for excavation and loading of sand. Trucks and dumper will be used for transportation.
3.	Whether it includes blasting?	No Blasting will be done, because Ordinary Sand is in Soft Nature.
4.	Details of Authorized Blasting Agency with date of validity certificate	NA
5.	Procedure / SOP (in brief)	NA
6.	Details of Blasting Parameters in brief	NA
7.	Frequency of blasting	NA
8.	Impact of blasting	NA
9.	Outcome of Vibration study	NA
10.	Blasting Activity Management Plan	NA
11.	Use of any Chemical with quantity	NA
12.	Precautions taken for Human Safety in brief	NA
13.	Crusher provided? If Yes, Measures taken for Air Pollution Control	NA
14.	Compliance of DGMS Guidelines for Blasting	NA
15.	Compliance of Sustainable Sand Mine	YES

	Guidelines published by MoEFCC in 2016	
16.	Whether Replenishment Rate Study is approved by District Geologist? If yes, conclude in brief	YES

D. Details of Green Belt Development:

1.	a. Green belt development budget	1,00,000
	b. Green belt area / location	Green belt will be developed along river bank, haul road and nearby villages
	c. No. of trees to be planted	1,000 @ Rs.100/- per sample in year (Total amount Rs.1,00,000/).
	d. Types of trees to be planted	Plantation of species as per EC conditions Peepal, Mango, Bel, Amla, Amaltas, Banyan, Neem , Bahada, Acacia etc. and others as suggested by SPCB/Forest Department

E. Details of Environment Management Plan:

1.	**Details of EMP**	**Impact**	**Mitigation Measures**
	a. Land Environment	Temporary changes in the land use due to excavation	Mining will be done by Opencast Semi Mechanized method. There will be temporary changes in land use due to excavation process; however the area will be naturally reclaimed monsoon seasons
	b. Water Environment	There are no competing users. The total water requirement will be 4 KLD for dust suppression (2 KLD), domestic (1 KLD) and plantation (1 KLD), which will be sourced from water tanker.	Sewage water will be passed into soak pit of septic tanks. Discharge of sewage or other effluents to water or the land is not expected.
	c. Air Environment	Dust emission during excavation and transportation, vehicular movement	Water sprinkling will be done on the roads regularly Care will be taken to prevent spillage by covering the carrying vehicles with tarpaulin and sprinkling of water, if in dry form Proper tuning of Engine of vehicles will be

				ensured to keep the gas emissions from the vehicles within the prescribed norms. Plantation of trees along the roads will be done to attenuate the impact of dust in the nearby villages /surrounding area.	
		d. Noise Environment	Noise generated from extraction, exploration of minerals & from vehicles (dumpers, trucks and excavation etc.)	Regular maintenance of machinery will keep the generated noise level below the minimum prescribed limits Minimum use of Horns at the village area Timely maintenance of vehicles and their silencers to minimize vibration and sound Phasing out of old and worn out trucks. Awareness will be imparted prior to mining operations to all the operators & other persons concerned, so that they must be aware of detrimental effects of noise pollution	
		e. Biological Environment	Minimum disturbance to local flora and fauna due to mining activity.	Green belt plantation will be done along the haul roads	
		f. Human Environment	Employment generation	Occupational health check-up for the workers shall be carried out Safety training from time to time to all staff Providing Helmet, Safety Shoes & Hand Gloves Various amenities like drinking water, rest shelter & toilet will be provided to workers.	

	g. Others		
2.	Occupational health & safety measures as per DGMS	Occupational health safety measures will be taken as per DGMS	
3.	Safety measures proposed		
	a. Is First Aid facility provided by PP?	First aid facility will be provided by the project proponent	
	b. Details of PPEs	Providing Helmet, Safety Shoes & Hand Gloves	
	c. Whether Registration of Workers under Building and other Construction Workers' (regulation of Employment & Conditions of Service) Act, 1996 and as Beneficiaries with the Gujarat Building and other Construction Workers Welfare Boards is obtained or not?	yes	
	d. Insurance of Workers	Occupational health check-up for the workers shall be carried out and insurance will be done	
	e. Health checkup plan of workers	Occupational health check-up for the workers shall be carried out	

F. Transportation:

1.	No. of vehicles per day carrying Minerals	18 vehicles per day
2.	Fugitive dust emission control measures	Regular control of fugitive dust emissions from the source. Water spraying on haul roads, loading and at transfer points. Truck mounted water tanker to be used from dust suppression during mining and transportation
3.	Route plan in brief	Mined out ordinary sand will be transported through the pucca road

G. Financial details of the Project:

1.	Total cost of the project (Lakh)	Rs. 72,20,981/-
	a. Upfront cost (Lakh)	Rs. 1,94,320/-
	b. Performance Security (Lakh)	Rs. 9,71,601/-
	c. Total Royalty (Lakh)	Rs. 21,22,560/-
	d. Weigh Bridge Cost (Lakh)	Rs. 4,50,000/-
	e. Labor cost equipment (Lakh)	Rs. 14,62,500/-
	f. Equipment protection and implementation cost (Lakh)	Rs. 17,50,000/-
	g. Green Belt Development & maintenance cost (Lakh)	Rs.1,00,000/- capital cost Rs.20,000/- recurring cost
	h. Cost of EMP (Lakh)	Rs.3,00,000/-
	i. Cost of Safety measures (Lakh)	Rs.3,00,000/-
	j. Cost of Post-Closure Mine Plan (Lakh)	-
2.	Budget allocated for CER (Lakh)	Rs.3,00,000/- (Three Lakh) as principal amount and 50,000/- (Fifty thousand) as recurring amount has been allotted for Environmental management

<table>
<tr><td></td><td></td><td>plan.
It is proposing to invest ~Rs.3,00,000/- for social environmental development over a period of next 3 years, to be considered for implementing the activities in the context of the local scenario of the area as a part of EMP. Proposed Heads are as below.</td></tr>
<tr><td>3.</td><td>Is need based survey for CER carried out? (Yes / No)

If yes, give details of activities along with Budgetary Outlay</td><td>
<table>
<tr><td rowspan="2">SN</td><td rowspan="2">Activity</td><td colspan="3">Budget</td></tr>
<tr><td>1st year</td><td>2nd year</td><td>3rd year</td></tr>
<tr><td></td><td>Plantation of Trees in Nearby Area</td><td>40,000</td><td>30,000</td><td>30,000</td></tr>
<tr><td></td><td>Drinking water in villages</td><td>20.000</td><td>20,000</td><td>20,000</td></tr>
<tr><td></td><td>Health checkup twice year (in winter & summer) & supply of medicine</td><td>50,000</td><td>50,000</td><td>40,000</td></tr>
<tr><td></td><td>total</td><td>1,10,000</td><td>1,00,000</td><td>90,000</td></tr>
</table>
</td></tr>
</table>

H. Restoration / Reclamation Plan:

1.	Restoration / Reclamation Details	The area will get naturally reclaimed due the Replenishment of sand in the monsoon seasons.
2.	Post mining closure plan	At the end of current Five Years mining plan maximum depth of pit will be 2.5 m. The excavated pits will be replenished by the sand transported by river flow every year in monsoon. The river bed will remain as river bed only. So there is no need for reclamation or progressive closure of mine of the stage.
3.	Backfilling material and its quantity	The area will get naturally reclaimed due the Replenishment of sand in the monsoon seasons.
4.	Size of void for Rain Water Harvesting after backfilling	-
5.	Post Closure Liability / Safety aspects and Measures to be taken to avoid wild life and human accidents/ causalities	-
6.	Display of Caution Boards at strategic locations on the periphery of the pit area	-

7.	Final Use of reservoir/ reclaimed land	-

I. Details of Legal Action / Court Case:

1.	Details of Pending Court matter / Public Litigation Cases in any court of Law	NA
2.	Details of Action taken by GPCB, if any	NA
3.	Details of public complaint , if any	NA
4.	Compliance of EC by RO-GPCB or MoEFCC-Bhopal	NA

Deliberation:

Shri Arun Kumar from M/s. Ultratech Environmental Consultancy and Laboratory remained present in the meeting on behalf of PP and he has sent an Authorization email for same. Committee deliberated on method of mining, rate of mining, no. of working hours and workers, no. of leases in the cluster and its lease area, set back distance, depth of mining etc. Committee also deliberated on the location of the lease w.r.t. Environmental Sensitivities and found as per the criteria prescribed by CPCB. Committee noted that it is a Semi-mechanized open cast mining. During the presentation, Environmental Management Plan, Restoration / reclamation plan, CER activities and its budget, green belt development etc. was discussed. It is noted that proposed lease area is in dry river bed and does not include in stream mining.

After scoping for the aforementioned proposal, committee decided to consider the proposal under B1 category & Hon'ble National Green Tribunal Order dated 13 September 2018 in view. It was decided to recommend TOR approved by SEIAA on 07/03/2019 for **river bed sand mining** for conducting the EIA study to be done for cluster situation evaluating cumulative impact of the mining leases in cluster considering 10 Km radius from the periphery of the mine lease area including public hearing including project **specific TOR as Annexure – II.**

8. ORDINARY SAND MINING, DIST : AHMEDABAD

Application No	Name of Project	S.No.	Village	Taluka	Dist	Lease Area	Validity of lease	River	ROM	Nearest Human Habitation	End Use	Investment in Rs	Date of Application Received by SEAC
SIA/GJ/MIN/61330/2021	Brijesh Enterprise	Adj. to 34 & 271 Sabarmati Riverb	Gayspur	Ahmedabad	ahmedabad	1.94.00 Ha	LoI issued on 15.02.2020 for 5	Sabarmati	31661 MTPA	Gayspur village – 0.95 km	Construction	Rs.76,45,716.80/-	06.04.2021 New project

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The project falls under B1 Category – 1(a), i.e. Mining of Minerals as per the provision of EIA Notification, 2006. Project Proponent has applied to obtain Terms of Reference (TOR) for mining of Ordinary Sand.

A. Basic Information of the Project:

1.	Name of Project as per Form I	Mining of River bed ordinary sand from GYASPUR BLOCK – 3on the Sabarmati River, near Village: -Gyaspur, Taluka: - Ahmedabad City, District: - Ahmedabad, State: - Gujarat
2.	Address of the lease	Survey No.:Adj to 34 & 271Sabarmati Riverbedpaiki Village: Gyaspur Taluka: Ahmedabad City District: Ahmedabad
3.	Name of lease holder	Brijesh Enterprise
4.	Lease area (Ha)	1.94.00 Ha
5.	Cluster Details	
	a. Total no. of leases in the cluster	11
	b. No. of TOR granted in cluster	9
	c. No. of EC granted in cluster	9
	d. Total area of the cluster	72.77.93 Ha
	e. Maximum individual lease area	10.00.00 Ha
	f. Minimum individual lease area	1.80.00 Ha
6.	Validity of lease with the date of expiry	5 years (01-01-2025)
7.	Rate of Mining (MT/Annum)	31661 MTPA
8.	Details of EC obtained (for expansion projects), if any	NA
9.	Name of River Bed	Sabarmati River Bed
10.	Is the river perennial / non-perennial?	Non - Perennial
11.	Lease area (submerged / in stream / on dry river bed)	1.94.00 Ha
12.	All coordinates of the lease area as per Approved Mining Plan	A 22°58'26.7169"N 72°31'46.6636"E B 22°58'27.8229"N 72°31'.50.4155"E C 22°58'23.5342"N 72°31'.51.9541"E D 22°58'21.4996"N 72°31'.47.0388"E
13.	Manpower requirement	10-15
14.	Applicability of CRZ Notification	NA
15.	Minimum Setback distance proposed to be maintained from River Bed (m)	Minimum Setback distance from riverbank is maintained up to 10m.
16.	Minimum buffer distance from bridge piers / water intake wells / irrigation structures	As per mining rules the minimum buffer distance to be maintained is 500 m from the bridge piers/water intake wells/ irrigation structures. All the above said structures are more than 500 m away from lease area
17.	Maximum depth of sand removal (3 m or water depth whichever is less)	Maximum Depth of sand removal 1m

18.	Width of Riverbed (m)	692.47 m
19.	Average depth of water at lease area (m)	In the Summer season water is not available in the mining area. In the monsoon season 3-4 m water is available in this area.
20.	Depth of mining (m)	1 m
21.	Ground Water Table in meter BGL	7-10m
22.	Does ground water interfere approach road exit? (Yes / No) If yes, status report of CGWA	No
23.	Distance between lease and main road	1.58km
24.	Length of kaccha road (m)	0.85 km
25.	Length of pacca road (m)	1.58 km
26.	Plan for making pacca road	No
27.	Source of fresh water	Water Tankers
28.	Water requirement (kLPD)	
	a. Domestic	1 KLD
	b. Dust suppression	2 KLD
	c. Gardening / Green belt development	1 KLD
	d. others	-
29.	Whether the Undertaking is submitted for identical information provided in Form I, Approved Mining Plan, Project Details validated by District Geologist, Pre-Feasibility Report, Lease Document, Environment Management Plan and other documents	Yes

B. Environmental Sensitivities:

Sr NO	**Environmental Sensitivities**	**Actual Distance**	**Minimum Distance**	**Reference**
1.	Residential	GyaspurVillage – 0.95 km, South-east	100 m (When Blasting is not involved)	As per order of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020
	Public buildings	SarkhejRoja – 3.29 km, North-west		As per order of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020
	Inhabited sites	Not in 10 km of study area		
2.	A. Major Bridge	Not in 10 km of study area	1 km	On both sides of the lease (as per Sustainable Sand Mine Guideline of MOEF&CC)

	B. Highway	National Highway 8A – 1.58 km, North-east	1 km	On both sides of the lease (as per Sustainable Sand Mine Guideline of MOEF&CC)
OR				
3.	Bridge(Span of Bridge as X)	Not in 10 km of project study area	e. 5X in upstream or 250 m. f. 10X in down stream or 500 m	As per Sustainable Sand Mine Guideline of MOEF&CC
4.	Public Structure including water intake wells	Not in 10 km of project study area	e. 5X in upstream or 250 m. f. 10X in down stream or 500 m	As per Sustainable Sand Mine Guideline of MOEF&CC
5.	Depth of working	1 m	1 M or water level whichever is early	As per order of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020)
6.	Set Back Distance to prevent river bank erosion	10 m	10 M or 1/4th of width of river	As per order of Honorable SC dtd 27.02.2020 and Sustainable Sand Mine Guideline of MOEF&CC
7.	Mineable Material per Hectare area for actual mining shall not exceed maximum production	31661MTPA	60,000 MTPA Per Hectare	As per Sustainable Sand Mine Guideline of MOEF&CC
8.	Water supply Scheme/Irrigation structure	Not applicable	200 M	As per Sustainable Sand Mine Guideline of MOEF&CC
9.	Railway Line	SarkhejRailway Station – 3.44	100 M	As per Sustainable Sand Mine Guideline

		km, North-west		of MOEF&CC
10.	Reservoir/Canal	NA	100 M	As per CPCB Distance Criteria And order of of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020
11.	Other Road	State Highway 142 – 2.98 km, East	100 M	As per CPCB Distance Criteria And order of of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020
12.	Eco-Sensitive Zone (if notified)	Not in 10 km of project area	>1 km / outside the notified Eco-Sensitive Zone	Vide directives of MOEF&CC dtd 16.07.2020
13.	Eco-Sensitive Zone (if not notified)	Not in 10 km of project area	>1 km and <10 km = Prior Clearance from NBWL is required	Vide directives of MOEF&CC dtd 16.07.2020
14.	Distance of Coastal line from the site	NA	>500 M from HTL	Amended CRZ Notification 2011

C. Details of Mining:

1.	Method of Mining (Manual / Semi-mechanized / Mechanized).	Open cast, Semi-mechanized
2.	Equipments to be used for Mining bulldozers, hydraulic excavators, JCB, scrapers, loaders, Diesel Pump, etc.)	Hydraulic excavator will be used for excavation and loading of sand. Trucks and dumper will be used for transportation.
3.	Whether it includes blasting?	No Blasting will be done, because Ordinary Sand is in Soft Nature.
4.	Details of Authorized Blasting Agency with date of validity certificate	NA
5.	Procedure / SOP (in brief)	NA
6.	Details of Blasting Parameters in brief	NA
7.	Frequency of blasting	NA
8.	Impact of blasting	NA
9.	Outcome of Vibration study	NA
10.	Blasting Activity Management Plan	NA
11.	Use of any Chemical with quantity	NA

12.	Precautions taken for Human Safety in brief	NA
13.	Crusher provided? If Yes, Measures taken for Air Pollution Control	NA
14.	Compliance of DGMS Guidelines for Blasting	NA
15.	Compliance of Sustainable Sand Mine Guidelines published by MoEFCC in 2016	YES
16.	Whether Replenishment Rate Study is approved by District Geologist? If yes, conclude in brief	YES

D. Details of Green Belt Development:

1.	a. Green belt development budget	1,00,000
	b. Green belt area / location	Green belt will be developed along river bank, haul road and nearby villages
	c. No. of trees to be planted	1,000 @ Rs.100/- per sample in year (Total amount Rs.1,00,000/).
	d. Types of trees to be planted	Plantation of species as per EC conditions Peepal, Mango, Bel, Amla, Amaltas, Banyan, Neem , Bahada, Acacia etc. and others as suggested by SPCB/Forest Department

E. Details of Environment Management Plan:

1.	**Details of EMP**	**Impact**	**Mitigation Measures**
	a. Land Environment	Temporary changes in the land use due to excavation	Mining will be done by Opencast Semi Mechanized method. There will be temporary changes in land use due to excavation process; however the area will be naturally reclaimed monsoon seasons
	b. Water Environment	There are no competing users. The total water requirement will be 4 KLD for dust suppression (2 KLD), domestic (1 KLD) and plantation (1 KLD), which will be sourced from water tanker.	Sewage water will be passed into soak pit of septic tanks. Discharge of sewage or other effluents to water or the land is not expected.
	c. Air Environment	Dust emission during excavation and transportation, vehicular movement	Water sprinkling will be done on the roads regularly Care will be taken to prevent spillage by covering the carrying vehicles with tarpaulin and sprinkling of water, if in dry form Proper tuning of Engine of vehicles will be ensured to keep the gas emissions from the vehicles within the prescribed norms.

				Plantation of trees along the roads will be done to attenuate the impact of dust in the nearby villages /surrounding area.
		d. Noise Environment	Noise generated from extraction, exploration of minerals & from vehicles (dumpers, trucks and excavation etc.)	Regular maintenance of machinery will keep the generated noise level below the minimum prescribed limits Minimum use of Horns at the village area Timely maintenance of vehicles and their silencers to minimize vibration and sound Phasing out of old and worn out trucks. Awareness will be imparted prior to mining operations to all the operators & other persons concerned, so that they must be aware of detrimental effects of noise pollution
		e. Biological Environment	Minimum disturbance to local flora and fauna due to mining activity.	Green belt plantation will be done along the haul roads
		f. Human Environment	Employment generation	Occupational health check-up for the workers shall be carried out Safety training from time to time to all staff Providing Helmet, Safety Shoes & Hand Gloves Various amenities like drinking water, rest shelter & toilet will be provided to workers.
		g. Others		
	2.	Occupational health & safety measures as per DGMS	Occupational health safety measures will be taken as per DGMS	
	3.	Safety measures proposed		
		a. Is First Aid facility provided by PP?	First aid facility will be provided by the project proponent	
		b. Details of PPEs	Providing Helmet, Safety Shoes & Hand Gloves	
		c. Whether	yes	

	Registration of Workers under Building and other Construction Workers' (regulation of Employment & Conditions of Service) Act, 1996 and as Beneficiaries with the Gujarat Building and other Construction Workers Welfare Boards is obtained or not?	
	d. Insurance of Workers	Occupational health check-up for the workers shall be carried out and insurance will be done
	e. Health checkup plan of workers	Occupational health check-up for the workers shall be carried out

F. Transportation:

1.	No. of vehicles per day carrying Minerals	18 vehicles per day
2.	Fugitive dust emission control measures	Regular control of fugitive dust emissions from the source. Water spraying on haul roads, loading and at transfer points. Truck mounted water tanker to be used from dust suppression during mining and transportation
3.	Route plan in brief	Mined out ordinary sand will be transported through the pucca road

G. Financial details of the Project:

1.	Total cost of the project (Lakh)	Rs. 76,45,716.80/-
	a. Upfront cost (Lakh)	Rs. 83,837.80/-
	b. Performance Security (Lakh)	Rs. 4,19,189/-
	c. Total Royalty (Lakh)	Rs. 12,66,440/-
	d. Weigh Bridge Cost (Lakh)	To be installed in Gyaspur Block 2
	e. Labor cost equipment (Lakh)	Rs. 25,31,250/-
	f. Equipment protection and implementation cost (Lakh)	Rs. 26,25,000/-
	g. Green Belt Development & maintenance cost (Lakh)	Rs.1,00,000/- capital cost Rs.20,000/- recurring cost
	h. Cost of EMP (Lakh)	Rs.3,00,000/-
	i. Cost of Safety measures (Lakh)	Rs.3,00,000/-
	j. Cost of Post-Closure Mine Plan (Lakh)	-
2.	Budget allocated for CER (Lakh)	Rs.3,00,000/- (Three Lakh) as principal amount and 50,000/- (Fifty thousand) as recurring amount has been allotted for Environmental management plan. It is proposing to invest ~Rs.3,00,000/- for social

<table>
<tr><td></td><td></td><td>environmental development over a period of next 3 years, to be considered for implementing the activities in the context of the local scenario of the area as a part of EMP. Proposed Heads are as below.</td></tr>
<tr><td>3.</td><td>Is need based survey for CER carried out? (Yes / No)

If yes, give details of activities along with Budgetary Outlay</td><td>
<table>
<tr><td rowspan="2">SN</td><td rowspan="2">Activity</td><td colspan="3">Budget</td></tr>
<tr><td>1st year</td><td>2nd year</td><td>3rd year</td></tr>
<tr><td></td><td>Plantation of Trees in Nearby Area</td><td>40,000</td><td>30,000</td><td>30,000</td></tr>
<tr><td></td><td>Drinking water in villages</td><td>20.000</td><td>20,000</td><td>20,000</td></tr>
<tr><td></td><td>Health checkup twice year (in winter & summer) & supply of medicine</td><td>50,000</td><td>50,000</td><td>40,000</td></tr>
<tr><td></td><td>total</td><td>1,10,000</td><td>1,00,000</td><td>90,000</td></tr>
</table>
</td></tr>
</table>

H. Restoration / Reclamation Plan:

1.	Restoration / Reclamation Details	The area will get naturally reclaimed due the Replenishment of sand in the monsoon seasons.
2.	Post mining closure plan	At the end of current Five Years mining plan maximum depth of pit will be 2.5 m. The excavated pits will be replenished by the sand transported by river flow every year in monsoon. The river bed will remain as river bed only. So there is no need for reclamation or progressive closure of mine of the stage.
3.	Backfilling material and its quantity	The area will get naturally reclaimed due the Replenishment of sand in the monsoon seasons.
4.	Size of void for Rain Water Harvesting after backfilling	-
5.	Post Closure Liability / Safety aspects and Measures to be taken to avoid wild life and human accidents/ causalities	-
6.	Display of Caution Boards at strategic locations on the periphery of the pit area	-
7.	Final Use of reservoir/ reclaimed land	-

I. Details of Legal Action / Court Case:

1.	Details of Pending Court matter / Public Litigation Cases in any court of Law	NA
2.	Details of Action taken by GPCB, if any	NA
3.	Details of public complaint , if any	NA
4.	Compliance of EC by RO-GPCB or MoEFCC-Bhopal	NA

Deliberation:

Shri Arun Kumar from M/s. Ultratech Environmental Consultancy and Laboratory remained present in the meeting on behalf of PP and he has sent an Authorization email for same. Committee deliberated on method of mining, rate of mining, no. of working hours and workers, no. of leases in the cluster and its lease area, set back distance, depth of mining etc. Committee also deliberated on the location of the lease w.r.t. Environmental Sensitivities and found as per the criteria prescribed by CPCB. Committee noted that it is a Semi-mechanized open cast mining. During the presentation, Environmental Management Plan, Restoration / reclamation plan, CER activities and its budget, green belt development etc. was discussed. It is noted that proposed lease area is in dry river bed and does not include in stream mining.

After scoping for the aforementioned proposal, committee decided to consider the proposal under B1 category & Hon'ble National Green Tribunal Order dated 13 September 2018 in view. It was decided to recommend TOR approved by SEIAA on 07/03/2019 for **river bed sand mining** for conducting the EIA study to be done for cluster situation evaluating cumulative impact of the mining leases in cluster considering 10 Km radius from the periphery of the mine lease area including public hearing including project **specific TOR as Annexure – II.**

9. ORDINARY SAND MINING, DIST : AHMEDABAD

Application No	Name of Project	S.No.	Village	Taluka	Dist	Lease Area	Validity of lease	River	ROM	Nearest Human Habitation	End Use	Investment in Rs	Date of Application Received by SEAC
SIA/GJ/MIN/61339/2021	Brijesh Enterprise	Opp. 34, 271& 278Sabarmati Riverbedpaik	Gayspur	Ahmedabad	Ahmedabad	2.95.00 Ha	LoI issued on 17.02.2020 for 5 years	Sabarmati	48144 MTPA	Gayspur village – 1.10 km	Construction	Rs.90,56,785.20/-	06.04.2021 New project

		i											

The project falls under B1 Category – 1(a), i.e. Mining of Minerals as per the provision of EIA Notification, 2006. Project Proponent has applied to obtain Terms of Reference (TOR) for mining of Ordinary Sand.

A. Basic Information of the Project:

1.	Name of Project as per Form I	Mining of River bed ordinary sand from GYASPUR BLOCK – 2on the Sabarmati River, near Village: -Gyaspur, Taluka: - Ahmedabad City, District: - Ahmedabad, State: - Gujarat
2.	Address of the lease	Survey No.:Opp. 34, 271, & 278 Sabarmati Riverbedpaiki Village: Gyaspur Taluka: Ahmedabad City District: Ahmedabad
3.	Name of lease holder	Brijesh Enterprise
4.	Lease area (Ha)	2.95.00 Ha
5.	Cluster Details	
	a. Total no. of leases in the cluster	11
	b. No. of TOR granted in cluster	9
	c. No. of EC granted in cluster	9
	d. Total area of the cluster	72.77.93 Ha
	e. Maximum individual lease area	10.00.00 Ha
	f. Minimum individual lease area	1.80.00 Ha
6.	Validity of lease with the date of expiry	5 years (01-01-2025)
7.	Rate of Mining (MT/Annum)	48144 MTPA
8.	Details of EC obtained (for expansion projects), if any	NA
9.	Name of River Bed	Sabarmati River Bed
10.	Is the river perennial / non-perennial?	Non - Perennial
11.	Lease area (submerged / in stream / on dry river bed)	2.95.00 Ha
12.	All coordinates of the lease area as per Approved Mining Plan	A 22°58'30.5730"N 72°31'46.3863"E B 22°58'34.6833"N 72°31'.57.0796"E C 22°58'32.4304"N 72°31'.57.9721"E D 22°58'28.5406"N 72°31'.49.8183"E E 22°58'27.6836"N 72°31'.46.5941"E
13.	Manpower requirement	10-15
14.	Applicability of CRZ Notification	NA
15.	Minimum Setback distance proposed to be maintained from River Bed (m)	Minimum Setback distance from riverbank is maintained up to 10m.
16.	Minimum buffer distance from bridge piers / water intake wells / irrigation structures	As per mining rules the minimum buffer distance to be maintained is 500 m from the bridge piers/water intake wells/ irrigation structures. All the above said structures are more

		than 500 m away from lease area
17.	Maximum depth of sand removal (3 m or water depth whichever is less)	Maximum Depth of sand removal is 1m.
18.	Width of Riverbed (m)	713.30
19.	Average depth of water at lease area (m)	In the Summer season water is not available in the mining area. In the monsoon season 3-4 m water is available in this area.
20.	Depth of mining (m)	1 m
21.	Ground Water Table in meter BGL	7-10m
22.	Does ground water interfere approach road exit? (Yes / No) If yes, status report of CGWA	No
23.	Distance between lease and main road	1.26km
24.	Length of kaccha road (m)	0.32 km
25.	Length of pacca road (m)	1.26 km
26.	Plan for making pacca road	No
27.	Source of fresh water	Water Tankers
28.	Water requirement (kLPD)	
	a. Domestic	1 KLD
	b. Dust suppression	2 KLD
	c. Gardening / Green belt development	1 KLD
	d. others	-
29.	Whether the Undertaking is submitted for identical information provided in Form I, Approved Mining Plan, Project Details validated by District Geologist, Pre-Feasibility Report, Lease Document, Environment Management Plan and other documents	Yes

B. Environmental Sensitivities:

Sr NO	**Environmental Sensitivities**	**Actual Distance**	**Minimum Distance**	**Reference**
1.	Residential	GyaspurVillage – 1.10 km, South-east	100 m (When Blasting is not involved)	As per order of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020
	Public buildings	SarkhejRoja – 3.21 km, North-west		As per order of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020
	Inhabited sites	Not in 10 km of study area		
2.	A. Major Bridge	Not in 10 km of study area	1 km	On both sides of the lease (as per Sustainable Sand Mine Guideline of MOEF&CC)

	B. Highway	National Highway 8A – 1.26 km, North-east	1 km	On both sides of the lease (as per Sustainable Sand Mine Guideline of MOEF&CC)
OR				
3.	Bridge(Span of Bridge as X)	Not in 10 km of project study area	a. 5X in upstream or 250 m. b. 10X in down stream or 500 m	As per Sustainable Sand Mine Guideline of MOEF&CC
4.	Public Structure including water intake wells	Not in 10 km of project study area	a. 5X in upstream or 250 m. b. 10X in down stream or 500 m	As per Sustainable Sand Mine Guideline of MOEF&CC
5.	Depth of working	1 m	1 M or water level whichever is early	As per order of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020)
6.	Set Back Distance to prevent river bank erosion	10 m	10 M or $1/4^{th}$ of width of river	As per order of Honorable SC dtd 27.02.2020 and Sustainable Sand Mine Guideline of MOEF&CC
7.	Mineable Material per Hectare area for actual mining shall not exceed maximum production	48144MTPA	60,000 MTPA Per Hectare	As per Sustainable Sand Mine Guideline of MOEF&CC
8.	Water supply Scheme/Irrigation structure	Not applicable	200 M	As per Sustainable Sand Mine Guideline of MOEF&CC
9.	Railway Line	SarkhejRailway Station – 3.38 km, North-west	100 M	As per Sustainable Sand Mine Guideline of MOEF&CC

10.	Reservoir/Canal	NA	100 M	As per CPCB Distance Criteria And order of of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020
11.	Other Road	State Highway 142 – 2.82 km, East	100 M	As per CPCB Distance Criteria And order of of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020
12.	Eco-Sensitive Zone (if notified)	Not in 10 km of project area	>1 km / outside the notified Eco-Sensitive Zone	Vide directives of MOEF&CC dtd 16.07.2020
13.	Eco-Sensitive Zone (if not notified)	Not in 10 km of project area	>1 km and <10 km = Prior Clearance from NBWL is required	Vide directives of MOEF&CC dtd 16.07.2020
14.	Distance of Coastal line from the site	NA	>500 M from HTL	Amended CRZ Notification 2011

C. Details of Mining:

1.	Method of Mining (Manual / Semi-mechanized / Mechanized).	Open cast, Semi-mechanized
2.	Equipments to be used for Mining bulldozers, hydraulic excavators, JCB, scrapers, loaders, Diesel Pump, etc.)	Hydraulic excavator will be used for excavation and loading of sand. Trucks and dumper will be used for transportation.
3.	Whether it includes blasting?	No Blasting will be done, because Ordinary Sand is in Soft Nature.
4.	Details of Authorized Blasting Agency with date of validity certificate	NA
5.	Procedure / SOP (in brief)	NA
6.	Details of Blasting Parameters in brief	NA
7.	Frequency of blasting	NA
8.	Impact of blasting	NA
9.	Outcome of Vibration study	NA
10.	Blasting Activity Management Plan	NA
11.	Use of any Chemical with quantity	NA
12.	Precautions taken for Human Safety in brief	NA
13.	Crusher provided? If Yes, Measures taken for Air Pollution Control	NA
14.	Compliance of DGMS Guidelines for Blasting	NA

15.	Compliance of Sustainable Sand Mine Guidelines published by MoEFCC in 2016	YES
16.	Whether Replenishment Rate Study is approved by District Geologist? If yes, conclude in brief	YES

D. Details of Green Belt Development:

1.	a. Green belt development budget	1,00,000
	b. Green belt area / location	Green belt will be developed along river bank, haul road and nearby villages
	c. No. of trees to be planted	1,000 @ Rs.100/- per sample in year (Total amount Rs.1,00,000/).
	d. Types of trees to be planted	Plantation of species as per EC conditions Peepal, Mango, Bel, Amla, Amaltas, Banyan, Neem , Bahada, Acacia etc. and others as suggested by SPCB/Forest Department

E. Details of Environment Management Plan:

1.	**Details of EMP**	**Impact**	**Mitigation Measures**
	a. Land Environment	Temporary changes in the land use due to excavation	Mining will be done by Opencast Semi Mechanized method. There will be temporary changes in land use due to excavation process; however the area will be naturally reclaimed monsoon seasons
	b. Water Environment	There are no competing users. The total water requirement will be 4 KLD for dust suppression (2 KLD), domestic (1 KLD) and plantation (1 KLD), which will be sourced from water tanker.	Sewage water will be passed into soak pit of septic tanks. Discharge of sewage or other effluents to water or the land is not expected.
	c. Air Environment	Dust emission during excavation and transportation, vehicular movement	Water sprinkling will be done on the roads regularly Care will be taken to prevent spillage by covering the carrying vehicles with tarpaulin and sprinkling of water, if in dry form Proper tuning of Engine of vehicles will be ensured to keep the gas emissions from the vehicles within the prescribed norms. Plantation of trees along the roads will be done to

				attenuate the impact of dust in the nearby villages /surrounding area.	
		d. Noise Environment	Noise generated from extraction, exploration of minerals & from vehicles (dumpers, trucks and excavation etc.)	Regular maintenance of machinery will keep the generated noise level below the minimum prescribed limits Minimum use of Horns at the village area Timely maintenance of vehicles and their silencers to minimize vibration and sound Phasing out of old and worn out trucks. Awareness will be imparted prior to mining operations to all the operators & other persons concerned, so that they must be aware of detrimental effects of noise pollution	
		e. Biological Environment	Minimum disturbance to local flora and fauna due to mining activity.	Green belt plantation will be done along the haul roads	
		f. Human Environment	Employment generation	Occupational health check-up for the workers shall be carried out Safety training from time to time to all staff Providing Helmet, Safety Shoes & Hand Gloves Various amenities like drinking water, rest shelter & toilet will be provided to workers.	
		g. Others			
	2.	Occupational health & safety measures as per DGMS	Occupational health safety measures will be taken as per DGMS		
	3.	Safety measures proposed			
		a. Is First Aid facility provided by PP?	First aid facility will be provided by the project proponent		
		b. Details of PPEs	Providing Helmet, Safety Shoes & Hand Gloves		
		c. Whether Registration of Workers under Building and other Construction	yes		

	Workers' (regulation of Employment & Conditions of Service) Act, 1996 and as Beneficiaries with the Gujarat Building and other Construction Workers Welfare Boards is obtained or not?	
	d. Insurance of Workers	Occupational health check-up for the workers shall be carried out and insurance will be done
	e. Health checkup plan of workers	Occupational health check-up for the workers shall be carried out

F. Transportation:

1.	No. of vehicles per day carrying Minerals	18 vehicles per day
2.	Fugitive dust emission control measures	Regular control of fugitive dust emissions from the source. Water spraying on haul roads, loading and at transfer points. Truck mounted water tanker to be used from dust suppression during mining and transportation
3.	Route plan in brief	Mined out ordinary sand will be transported through the pucca road

G. Financial details of the Project:

1.	Total cost of the project (Lakh)	Rs. 90,56,785.20/-
	a. Upfront cost (Lakh)	Rs. 1,34,129.20/-
	b. Performance Security (Lakh)	Rs. 6,70,646/-
	c. Total Royalty (Lakh)	Rs. 19,25,760/-
	d. Weigh Bridge Cost (Lakh)	Rs. 4,50,000/-
	e. Labor cost equipment (Lakh)	Rs. 25,31,250/-
	f. Equipment protection and implementation cost (Lakh)	Rs. 26,25,000/-
	g. Green Belt Development & maintenance cost (Lakh)	Rs.1,00,000/- capital cost Rs.20,000/- recurring cost
	h. Cost of EMP (Lakh)	Rs.3,00,000/-
	i. Cost of Safety measures (Lakh)	Rs.3,00,000/-
	j. Cost of Post-Closure Mine Plan (Lakh)	-
2.	Budget allocated for CER (Lakh)	Rs.3,00,000/- (Three Lakh) as principal amount and 50,000/- (Fifty thousand) as recurring amount has been allotted for Environmental management plan. It is proposing to invest ~Rs.3,00,000/- for social environmental development over a period of next 3 years, to be considered for implementing the activities in the context of the local scenario of the area as a part of EMP. Proposed Heads are as below.

3.	Is need based survey for CER carried out? (Yes / No) If yes, give details of activities along with Budgetary Outlay	SN	Activity	Budget	
				1st year	2nd year	3rd year
			Plantation of Trees in Nearby Area	40,000	30,000	30,000
			Drinking water in villages	20.000	20,000	20,000
			Health checkup twice year (in winter & summer) & supply of medicine	50,000	50,000	40,000
			total	1,10,000	1,00,000	90,000

H. Restoration / Reclamation Plan:

1.	Restoration / Reclamation Details	The area will get naturally reclaimed due the Replenishment of sand in the monsoon seasons.
2.	Post mining closure plan	At the end of current Five Years mining plan maximum depth of pit will be 2.5 m. The excavated pits will be replenished by the sand transported by river flow every year in monsoon. The river bed will remain as river bed only. So there is no need for reclamation or progressive closure of mine of the stage.
3.	Backfilling material and its quantity	The area will get naturally reclaimed due the Replenishment of sand in the monsoon seasons.
4.	Size of void for Rain Water Harvesting after backfilling	-
5.	Post Closure Liability / Safety aspects and Measures to be taken to avoid wild life and human accidents/ causalities	-
6.	Display of Caution Boards at strategic locations on the periphery of the pit area	-
7.	Final Use of reservoir/ reclaimed land	-

I. Details of Legal Action / Court Case:

1.	Details of Pending Court matter / Public Litigation Cases in any court of Law	NA
2.	Details of Action taken by GPCB, if any	NA
3.	Details of public complaint , if any	NA

	4.	Compliance of EC by RO-GPCB or MoEFCC-Bhopal	NA	

Deliberation:

Shri Arun Kumar from M/s. Ultratech Environmental Consultancy and Laboratory remained present in the meeting on behalf of PP and he has sent an Authorization email for same. Committee deliberated on method of mining, rate of mining, no. of working hours and workers, no. of leases in the cluster and its lease area, set back distance, depth of mining etc. Committee also deliberated on the location of the lease w.r.t. Environmental Sensitivities and found as per the criteria prescribed by CPCB. Committee noted that it is a Semi-mechanized open cast mining. During the presentation, Environmental Management Plan, Restoration / reclamation plan, CER activities and its budget, green belt development etc. was discussed. At the time of deliberating on the location of the lease, Committee noted that the lease area is submerged in the riverbed of River Sabarmati. The consultant presented satellite images of the lease area for pre-monsoon as well as post monsoon season, in which the lease was also found submerged in the riverine water of Sabarmati River.

Committee referred order of Hon'ble National Green Tribunal dated 30/05/2017 in the O.A. NO 78/2015 (CZ) and noted clause No 18 of the order as below:

> *"In light of the above the issue as to whether sand mining can be permitted within the 'submergence' area as contented by the Applicant we are of the view that the issue stands answered with the provisions having been on the principal of precautionary approach as well as sustainable development in the guideline of 2016 extract of which quoted hereinabove. Alternatively, since in the order of the Hon'ble High Court dated 21.07.2015 the term used is "Environment issue arising out of carrying our mining activities particularly of sand in 'submerged area' is concerned the Sustainable Sand Mining Guidelines 2016 clearly prohibit any instream mining and further that rivers sand mining can be carried out only upto a depth of 3 meters / till water level is reached whichever is less. Therefore, clearly in accordance with the guidelines which was required to be considered as the guiding factor before EC or consent can be granted* ***no river sand mining can be carried out in any area nowithstanding the same being part of the leased area in case it is 'submerged' or lies within the submerged area."***

Hence, in view of the above, Committee unanimously decided to recommend the proposal for rejection.

10. ORDINARY SAND MINING, DISTRICT : SABARKANTHA

Application No	Name of Project	S.No	Village	Taluka	Dist	Lease Area	Lease validity	ROM	River	Nearest Human Habitation	End Use	Investment in Rs	Date of Application Received by SEAC
SIA/GJ/MIN/61484/2021	Mr. Rathod Hitendrasinh Vijaysinh	925,926,927,928,930,931 & 934 NE LAGU ne lagu Sabarmati River bed paiky	Falafel	Idar	Sabarkantha	2.10.00 Ha	LOI No. GEO/Lease/Auction/OSD/SAB/2020-2021,/003 dated 24/12/2020	56070 MTPA	Sabarmati	Falasan – 1.73 km	Construction	Rs. 83,07,710/-	07.04.2021 New project

The project falls under B1 Category – 1(a), i.e. Mining of Minerals as per the provision of EIA Notification, 2006. Project Proponent has applied to obtain Terms of Reference (TOR) for mining of Ordinary Sand.

A. Basic Information of the Project:

1.	Name of Project as per Form I	Mining of River bed ordinary sand from FALASAN BLOCK – 4on the Sabarmati River, near Village: -Falasan, Taluka: - Idar, District: - Sabarkantha, State: - Gujarat
2.	Address of the lease	Survey No.: 925, 926, 927, 928, 930, 931, & 934ne lagu Sabarmati Riverbed Village: Falasan, Taluka: Idar District: Sabarkantha
3.	Name of lease holder	RathodHitendrasinhVijaysinh
4.	Lease area (Ha)	2.10.00 Ha
5.	Cluster Details	
	a. Total no. of leases in the cluster	8
	b. No. of TOR granted in cluster	3
	c. No. of EC granted in cluster	3
	d. Total area of the cluster	22.87.25 Ha
	e. Maximum individual lease area	9.99.00 Ha

<table>
<tr><td></td><td>f. Minimum individual lease area</td><td>1.00.00 Ha</td></tr>
<tr><td>6.</td><td>Validity of lease with the date of expiry</td><td>5 years (01-01-2025)</td></tr>
<tr><td>7.</td><td>Rate of Mining (MT/Annum)</td><td>56070 MTPA</td></tr>
<tr><td>8.</td><td>Details of EC obtained (for expansion projects), if any</td><td>NA</td></tr>
<tr><td>9.</td><td>Name of River Bed</td><td>Sabarmati River Bed</td></tr>
<tr><td>10.</td><td>Is the river perennial / non-perennial?</td><td>Non - Perennial</td></tr>
<tr><td>11.</td><td>Lease area (submerged / in stream / on dry river bed)</td><td>2.10.00 Ha</td></tr>
<tr><td>12.</td><td>All coordinates of the lease area as per Approved Mining Plan</td><td>
<table>
<tr><td>A</td><td>23°50'36.60"N</td><td>73°47'31.52"E</td></tr>
<tr><td>B</td><td>23°50'32.89"N</td><td>73°47'30.57"E</td></tr>
<tr><td>C</td><td>23°50'29.83"N</td><td>73°47'30.53"E</td></tr>
<tr><td>D</td><td>23°50'22.73"N</td><td>73°47'29.24”E</td></tr>
<tr><td>E</td><td>23°50'23.75"N</td><td>73°47'27.38”E</td></tr>
<tr><td>F</td><td>23°50'27.28"N</td><td>73°47'28.13”E</td></tr>
<tr><td>G</td><td>23°50'36.95"N</td><td>73°47'29.17”E</td></tr>
</table>
</td></tr>
<tr><td>13.</td><td>Manpower requirement</td><td>10-15</td></tr>
<tr><td>14.</td><td>Applicability of CRZ Notification</td><td>NA</td></tr>
<tr><td>15.</td><td>Minimum Setback distance proposed to be maintained from River Bed (m)</td><td>Minimum Setback distance from riverbank is maintained up to 10m.</td></tr>
<tr><td>16.</td><td>Minimum buffer distance from bridge piers / water intake wells / irrigation structures</td><td>As per mining rules the minimum buffer distance to be maintained is 500 m from the bridge piers/water intake wells/ irrigation structures. All the above said structures are more than 500 m away from lease area</td></tr>
<tr><td>17.</td><td>Maximum depth of sand removal (3 m or water depth whichever is less)</td><td>Maximum Depth of sand removal is 0.6 m * 5 Year = 3 m</td></tr>
<tr><td>18.</td><td>Width of Riverbed (m)</td><td>335 m</td></tr>
<tr><td>19.</td><td>Average depth of water at lease area (m)</td><td>In the Summer season water is not available in the mining area. In the monsoon season 3-4 m water is available in this area.</td></tr>
<tr><td>20.</td><td>Depth of mining (m)</td><td>1 m</td></tr>
<tr><td>21.</td><td>Ground Water Table in meter BGL</td><td>7-10 m</td></tr>
<tr><td>22.</td><td>Does ground water interfere approach road exit? (Yes / No)

If yes, status report of CGWA</td><td>No</td></tr>
<tr><td>23.</td><td>Distance between lease and main road</td><td>1.0 km</td></tr>
<tr><td>24.</td><td>Length of kaccha road (m)</td><td>1.47 km</td></tr>
<tr><td>25.</td><td>Length of pacca road (m)</td><td>1.0 km</td></tr>
<tr><td>26.</td><td>Plan for making pacca road</td><td>No</td></tr>
<tr><td>27.</td><td>Source of fresh water</td><td>Water Tankers</td></tr>
<tr><td>28.</td><td>Water requirement (kLPD)</td><td></td></tr>
<tr><td></td><td>a. Domestic</td><td>1 KLD</td></tr>
<tr><td></td><td>b. Dust suppression</td><td>2 KLD</td></tr>
<tr><td></td><td>c. Gardening / Green belt development</td><td>1 KLD</td></tr>
<tr><td></td><td>d. others</td><td>-</td></tr>
<tr><td>29.</td><td>Whether the Undertaking is submitted for identical information provided in Form I, Approved Mining Plan, Project Details validated by District Geologist,</td><td>Yes</td></tr>
</table>

	Pre-Feasibility Report, Lease Document, Environment Management Plan and other documents	

B. Environmental Sensitivities:

Sr NO	Environmental Sensitivities	Actual Distance	Minimum Distance	Reference
1.	Residential	Falasan Village – 1.73 km, North-east	100 m (When Blasting is not involved)	As per order of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020
	Public buildings	S V Girls Junior College – 2.16 km, South-east		
	Inhabited sites	Not in 10 km of study area		As per order of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020
2.	A. Major Bridge	Not in 10 km of study area	1 km	On both sides of the lease (as per Sustainable Sand Mine Guideline of MOEF&CC)
	B. Highway	State Highway 10 – 1.0 km, South	1 km	On both sides of the lease (as per Sustainable Sand Mine Guideline of MOEF&CC)
			OR	
3.	Bridge(Span of Bridge as X)	Not in 10 km of project study area	c. 5X in upstream or 250 m. d. 10X in down stream or 500 m	As per Sustainable Sand Mine Guideline of MOEF&CC
4.	Public Structure including water intake wells	Not in 10 km of project study area	c. 5X in upstream or 250 m. d. 10X in down stream or 500 m	As per Sustainable Sand Mine Guideline of MOEF&CC
5.	Depth of working	1 m	1 M or water level	As per order of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd

			whichever is early	30.09.2020)
6.	Set Back Distance to prevent river bank erosion	10 m	10 M or 1/4th of width of river	As per order of Honorable SC dtd 27.02.2020 and Sustainable Sand Mine Guideline of MOEF&CC
7.	Mineable Material per Hectare area for actual mining shall not exceed maximum production	56070MTPA	60,000 MTPA Per Hectare	As per Sustainable Sand Mine Guideline of MOEF&CC
8.	Water supply Scheme/Irrigation structure	Not applicable	200 M	As per Sustainable Sand Mine Guideline of MOEF&CC
9.	Railway Line	Kheralu Railway Station – 17.29 km, North-west	100 M	As per Sustainable Sand Mine Guideline of MOEF&CC
10.	Reservoir/Canal	NA	100 M	As per CPCB Distance Criteria And order of of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020
11.	Other Road	Vijapur – Valasan Road – 1.97 km, south-west	100 M	As per CPCB Distance Criteria And order of of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020
12.	Eco-Sensitive Zone (if notified)	Not in 10 km of project area	>1 km / outside the notified Eco-Sensitive Zone	Vide directives of MOEF&CC dtd 16.07.2020
13.	Eco-Sensitive Zone (if not notified)	Not in 10 km of project area	>1 km and <10 km = Prior Clearance from NBWL is required	Vide directives of MOEF&CC dtd 16.07.2020

14.	Distance of Coastal line from the site	NA	>500 M from HTL	Amended CRZ Notification 2011

C. Details of Mining:

1.	Method of Mining (Manual / Semi-mechanized / Mechanized).	Open cast, Semi-mechanized
2.	Equipments to be used for Mining bulldozers, hydraulic excavators, JCB, scrapers, loaders, Diesel Pump, etc.)	Hydraulic excavator will be used for excavation and loading of sand. Trucks and dumper will be used for transportation.
3.	Whether it includes blasting?	No Blasting will be done, because Ordinary Sand is in Soft Nature.
4.	Details of Authorized Blasting Agency with date of validity certificate	NA
5.	Procedure / SOP (in brief)	NA
6.	Details of Blasting Parameters in brief	NA
7.	Frequency of blasting	NA
8.	Impact of blasting	NA
9.	Outcome of Vibration study	NA
10.	Blasting Activity Management Plan	NA
11.	Use of any Chemical with quantity	NA
12.	Precautions taken for Human Safety in brief	NA
13.	Crusher provided? If Yes, Measures taken for Air Pollution Control	NA
14.	Compliance of DGMS Guidelines for Blasting	NA
15.	Compliance of Sustainable Sand Mine Guidelines published by MoEFCC in 2016	YES
16.	Whether Replenishment Rate Study is approved by District Geologist? If yes, conclude in brief	YES

D. Details of Green Belt Development:

1.	a. Green belt development budget	1,00,000
	b. Green belt area / location	Green belt will be developed along river bank, haul road and nearby villages
	c. No. of trees to be planted	1,000 @ Rs.100/- per sample in year (Total amount Rs.1,00,000/).
	d. Types of trees to be planted	Plantation of species as per EC conditions Peepal, Mango, Bel, Amla, Amaltas, Banyan, Neem , Bahada, Acacia etc. and others as suggested by SPCB/Forest Department

E. Details of Environment Management Plan:

1.	**Details of EMP**	**Impact**	**Mitigation Measures**
	a. Land Environment	Temporary changes in the land use due to excavation	Mining will be done by Opencast Semi Mechanized

				method. There will be temporary changes in land use due to excavation process; however the area will be naturally reclaimed monsoon seasons	
		b. Water Environment	There are no competing users. The total water requirement will be 4 KLD for dust suppression (2 KLD), domestic (1 KLD) and plantation (1 KLD), which will be sourced from water tanker.	Sewage water will be passed into soak pit of septic tanks. Discharge of sewage or other effluents to water or the land is not expected.	
		c. Air Environment	Dust emission during excavation and transportation, vehicular movement	Water sprinkling will be done on the roads regularly Care will be taken to prevent spillage by covering the carrying vehicles with tarpaulin and sprinkling of water, if in dry form Proper tuning of Engine of vehicles will be ensured to keep the gas emissions from the vehicles within the prescribed norms. Plantation of trees along the roads will be done to attenuate the impact of dust in the nearby villages /surrounding area.	
		d. Noise Environment	Noise generated from extraction, exploration of minerals & from vehicles (dumpers, trucks and excavation etc.)	Regular maintenance of machinery will keep the generated noise level below the minimum prescribed limits Minimum use of Horns at the village area Timely maintenance of vehicles and their silencers to minimize vibration and sound Phasing out of old and worn out trucks. Awareness will be imparted prior to mining operations to all the operators & other persons concerned, so that they must be aware of detrimental effects of noise pollution	
		e. Biological Environment	Minimum disturbance to local flora and fauna due to mining activity.	Green belt plantation will be done along the haul roads	

	f. Human Environment	Employment generation	Occupational health check-up for the workers shall be carried out Safety training from time to time to all staff Providing Helmet, Safety Shoes & Hand Gloves Various amenities like drinking water, rest shelter & toilet will be provided to workers.
	g. Others		
2.	Occupational health & safety measures as per DGMS	Occupational health safety measures will be taken as per DGMS	
3.	Safety measures proposed		
	a. Is First Aid facility provided by PP?	First aid facility will be provided by the project proponent	
	b. Details of PPEs	Providing Helmet, Safety Shoes & Hand Gloves	
	c. Whether Registration of Workers under Building and other Construction Workers' (regulation of Employment & Conditions of Service) Act, 1996 and as Beneficiaries with the Gujarat Building and other Construction Workers Welfare Boards is obtained or not?	yes	
	d. Insurance of Workers	Occupational health check-up for the workers shall be carried out and insurance will be done	
	e. Health checkup plan of workers	Occupational health check-up for the workers shall be carried out	

F. Transportation:

1.	No. of vehicles per day carrying Minerals	18 vehicles per day
2.	Fugitive dust emission control measures	Regular control of fugitive dust emissions from the source. Water spraying on haul roads, loading and at transfer points. Truck mounted water tanker to be used from dust suppression during mining and

		transportation
3.	Route plan in brief	Mined out ordinary sand will be transported through the pucca road

G. Financial details of the Project:

1.	Total cost of the project (Lakh)	Rs. 83,07,710/-
	a. Upfront cost (Lakh)	Rs. 4,03,705/-
	b. Performance Security (Lakh)	Rs. 4,03,705/-
	c. Total Royalty (Lakh)	Rs. 22,42,800/-
	d. Weigh Bridge Cost (Lakh)	Rs. 4,50,000/-
	e. Labor cost equipment (Lakh)	Rs. 16,87,500/-
	f. Equipment protection and implementation cost (Lakh)	Rs. 24,00,000/-
	g. Green Belt Development & maintenance cost (Lakh)	Rs.1,00,000/- capital cost Rs.20,000/- recurring cost
	h. Cost of EMP (Lakh)	Rs.3,00,000/-
	i. Cost of Safety measures (Lakh)	Rs.3,00,000/-
	j. Cost of Post-Closure Mine Plan (Lakh)	-
2.	Budget allocated for CER (Lakh)	Rs.3,00,000/- (Three Lakh) as principal amount and 50,000/- (Fifty thousand) as recurring amount has been allotted for Environmental management plan. It is proposing to invest ~Rs.3,00,000/- for social environmental development over a period of next 3 years, to be considered for implementing the activities in the context of the local scenario of the area as a part of EMP. Proposed Heads are as below.
3.	Is need based survey for CER carried out? (Yes / No) If yes, give details of activities along with Budgetary Outlay	

SN	Activity	Budget		
		1st year	2nd year	3rd year
	Plantation of Trees in Nearby Area	40,000	30,000	30,000
	Drinking water in villages	20.000	20,000	20,000
	Health checkup twice year (in winter & summer) & supply of medicine	50,000	50,000	40,000
	total	1,10,000	1,00,000	90,000

H. Restoration / Reclamation Plan:

1.	Restoration / Reclamation Details	The area will get naturally reclaimed due the Replenishment of sand in the monsoon seasons.
2.	Post mining closure plan	At the end of current Five Years mining plan maximum depth of pit will be 2.5 m. The excavated pits will be replenished by the sand transported by river flow every year in monsoon. The river bed will remain as river bed only. So there is no need for reclamation or progressive closure of mine of the stage.
3.	Backfilling material and its quantity	The area will get naturally reclaimed due the Replenishment of sand in the monsoon seasons.
4.	Size of void for Rain Water Harvesting after backfilling	-
5.	Post Closure Liability / Safety aspects and Measures to be taken to avoid wild life and human accidents/ causalities	-
6.	Display of Caution Boards at strategic locations on the periphery of the pit area	-
7.	Final Use of reservoir/ reclaimed land	-

I. Details of Legal Action / Court Case:

1.	Details of Pending Court matter / Public Litigation Cases in any court of Law	NA
2.	Details of Action taken by GPCB, if any	NA
3.	Details of public complaint , if any	NA
4.	Compliance of EC by RO-GPCB or MoEFCC-Bhopal	NA

Deliberation:

Shri Arun Kumar from M/s. Ultratech Environmental Consultancy and Laboratory remained present in the meeting on behalf of PP and he has sent an Authorization email for same. Committee deliberated on method of mining, rate of mining, no. of working hours and workers, no. of leases in the cluster and its lease area, set back distance, depth of mining etc. Committee also deliberated on the location of the lease w.r.t. Environmental Sensitivities and found as per the criteria prescribed by CPCB. Committee noted that it is a Semi-mechanized open cast mining. During the presentation, Environmental Management Plan, Restoration / reclamation plan, CER activities and its budget, green belt development etc. was discussed. It is noted that proposed lease area is in dry river bed and does not include in stream mining.

After scoping for the aforementioned proposal, committee decided to consider the proposal under B1 category & Hon'ble National Green Tribunal Order dated 13 September 2018 in view. It was decided to recommend TOR approved by SEIAA on 07/03/2019 for **river bed sand mining** for conducting the EIA study to be done for cluster situation evaluating cumulative impact of the mining leases in cluster considering

10 Km radius from the periphery of the mine lease area including public hearing including project **specific TOR as <u>Annexure – II</u>.**

11. ORDINARY SAND MINING, DISTRICT: SABARKANTHA

Application No	Name of Project	S.No	Village	Taluka	Dist	Lease Area	Lease validity	River	ROM	Nearest Human Habitation	End Use	Investment in Rs	Date of Application Received by SEAC
SIA/GJ/MIN/61505/2021	M/s Shainath Infrastructure C/o Harishbhai Solanki	opp to 16ne lagu Sabarmati River bed paiky	Saroli	Himmatnagar	Sabarkantha	1.20.00 Ha	LOI No. GH/QL/Auction/2OL9/ORD/3985 to 3986 dated 05-12-2019 for 5 years	Sabarmati	20,808 MTPA	Saroli – 1.32 km	Construction	Rs. 57,49,169/-	07.04.2021 New project

The project falls under B1 Category – 1(a), i.e. Mining of Minerals as per the provision of EIA Notification, 2006. Project Proponent has applied to obtain Terms of Reference (TOR) for mining of Ordinary Sand.

A. Basic Information of the Project:

1.	Name of Project as per Form I	Mining of River bed ordinary sand from SAROLI BLOCK – 4on the Sabarmati River, near Village: - Saroli, Taluka: - Himatnagar, District: - Sabarkantha, State: - Gujarat
2.	Address of the lease	Survey No.: Opp to 16ne lagu Sabarmati Riverbed Village: Saroli, Taluka: Himatmnagar District: Sabarkantha
3.	Name of lease holder	M/s Shainath Infrastructure C/o HarishbhaiSolanki
4.	Lease area (Ha)	1.20.00 Ha
5.	Cluster Details	
	a. Total no. of leases in the cluster	182
	b. No. of TOR granted in cluster	70
	c. No. of EC granted in cluster	70
	d. Total area of the cluster	506.76.61 Ha

	e. Maximum individual lease area	9.75.00 Ha
	f. Minimum individual lease area	0.34.50 Ha
6.	Validity of lease with the date of expiry	5 years (01-01-2024)
7.	Rate of Mining (MT/Annum)	20808 MTPA
8.	Details of EC obtained (for expansion projects), if any	NA
9.	Name of River Bed	Sabarmati River Bed
10.	Is the river perennial / non-perennial?	Non - Perennial
11.	Lease area (submerged / in stream / on dry river bed)	1.20.00 Ha
12.	All coordinates of the lease area as per Approved Mining Plan	A 23°33'15.0720"N 72°49'18.8904"E B 23°33'13.9668"N 72°49'22.0989"E C 23°33'10.2830"N 72°49'18.5602"E D 23°33'12.0040"N 72°49'16.1797"E
13.	Manpower requirement	10-15
14.	Applicability of CRZ Notification	NA
15.	Minimum Setback distance proposed to be maintained from River Bed (m)	Minimum Setback distance from riverbank is maintained up to 10m.
16.	Minimum buffer distance from bridge piers / water intake wells / irrigation structures	As per mining rules the minimum buffer distance to be maintained is 500 m from the bridge piers/water intake wells/ irrigation structures. All the above said structures are more than 500 m away from lease area
17.	Maximum depth of sand removal (3 m or water depth whichever is less)	Maximum Depth of sand removal is 0.6 m * 5 Year = 3 m
18.	Width of Riverbed (m)	335 m
19.	Average depth of water at lease area (m)	In the Summer season water is not available in the mining area. In the monsoon season 3-4 m water is available in this area.
20.	Depth of mining (m)	1 m
21.	Ground Water Table in meter BGL	7-10 m
22.	Does ground water interfere approach road exit? (Yes / No) If yes, status report of CGWA	No
23.	Distance between lease and main road	2.79km
24.	Length of kaccha road (m)	0.68 km
25.	Length of pacca road (m)	2.79 km
26.	Plan for making pacca road	No
27.	Source of fresh water	Water Tankers
28.	Water requirement (kLPD)	
	a. Domestic	1 KLD
	b. Dust suppression	2 KLD
	c. Gardening / Green belt development	1 KLD
	d. others	-
29.	Whether the Undertaking is submitted for identical information provided in Form I, Approved	Yes

	Mining Plan, Project Details validated by District Geologist, Pre-Feasibility Report, Lease Document, Environment Management Plan and other documents	

B. Environmental Sensitivities:

Sr NO	Environmental Sensitivities	Actual Distance	Minimum Distance	Reference
1.	Residential	SaroliVillage – 1.31 km, North-west	100 m (When Blasting is not involved)	As per order of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020
	Public buildings	Mahudi Temple – 7.82 km, South-west		As per order of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020
	Inhabited sites	Not in 10 km of study area		
2.	A. Major Bridge	Not in 10 km of study area	1 km	On both sides of the lease (as per Sustainable Sand Mine Guideline of MOEF&CC)
	B. Highway	State Highway 55 – 2.79 km, North	1 km	On both sides of the lease (as per Sustainable Sand Mine Guideline of MOEF&CC)
		OR		
3.	Bridge(Span of Bridge as X)	Not in 10 km of project study area	e. 5X in upstream or 250 m. f. 10X in down stream or 500 m	As per Sustainable Sand Mine Guideline of MOEF&CC
4.	Public Structure including water intake wells	Not in 10 km of project study area	e. 5X in upstream or 250 m. f. 10X in down stream	As per Sustainable Sand Mine Guideline of MOEF&CC

			or 500 m	
5.	Depth of working	1 m	1 M or water level whichever is early	As per order of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020)
6.	Set Back Distance to prevent river bank erosion	10 m	10 M or 1/4th of width of river	As per order of Honorable SC dtd 27.02.2020 and Sustainable Sand Mine Guideline of MOEF&CC
7.	Mineable Material per Hectare area for actual mining shall not exceed maximum production	20808MTPA	60,000 MTPA Per Hectare	As per Sustainable Sand Mine Guideline of MOEF&CC
8.	Water supply Scheme/Irrigation structure	Not applicable	200 M	As per Sustainable Sand Mine Guideline of MOEF&CC
9.	Railway Line	VijapurRailway Station – 7.97 km, North-west	100 M	As per Sustainable Sand Mine Guideline of MOEF&CC
10.	Reservoir/Canal	NA	100 M	As per CPCB Distance Criteria And order of of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020
11.	Other Road	Mahudi – Pilvai Road – 7.82 km, south-west	100 M	As per CPCB Distance Criteria And order of of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020
12.	Eco-Sensitive Zone (if notified)	Not in 10 km of project area	>1 km / outside the notified Eco-Sensitive Zone	Vide directives of MOEF&CC dtd 16.07.2020

13.	Eco-Sensitive Zone (if not notified)	Not in 10 km of project area	>1 km and <10 km = Prior Clearance from NBWL is required	Vide directives of MOEF&CC dtd 16.07.2020
14.	Distance of Coastal line from the site	NA	>500 M from HTL	Amended CRZ Notification 2011

C. Details of Mining:

1.	Method of Mining (Manual / Semi-mechanized / Mechanized).	Open cast, Semi-mechanized
2.	Equipments to be used for Mining bulldozers, hydraulic excavators, JCB, scrapers, loaders, Diesel Pump, etc.)	Hydraulic excavator will be used for excavation and loading of sand. Trucks and dumper will be used for transportation.
3.	Whether it includes blasting?	No Blasting will be done, because Ordinary Sand is in Soft Nature.
4.	Details of Authorized Blasting Agency with date of validity certificate	NA
5.	Procedure / SOP (in brief)	NA
6.	Details of Blasting Parameters in brief	NA
7.	Frequency of blasting	NA
8.	Impact of blasting	NA
9.	Outcome of Vibration study	NA
10.	Blasting Activity Management Plan	NA
11.	Use of any Chemical with quantity	NA
12.	Precautions taken for Human Safety in brief	NA
13.	Crusher provided? If Yes, Measures taken for Air Pollution Control	NA
14.	Compliance of DGMS Guidelines for Blasting	NA
15.	Compliance of Sustainable Sand Mine Guidelines published by MoEFCC in 2016	YES
16.	Whether Replenishment Rate Study is approved by District Geologist? If yes, conclude in brief	YES

D. Details of Green Belt Development:

1.	a. Green belt development budget	1,00,000
	b. Green belt area / location	Green belt will be developed along river bank, haul road and nearby villages
	c. No. of trees to be planted	1,000 @ Rs.100/- per sample in year (Total amount Rs.1,00,000/).
	d. Types of trees to be planted	Plantation of species as per EC conditions Peepal, Mango, Bel, Amla, Amaltas, Banyan, Neem , Bahada, Acacia etc. and

		others as suggested by SPCB/Forest Department

E. Details of Environment Management Plan:

1.	Details of EMP	Impact	Mitigation Measures
	a. Land Environment	Temporary changes in the land use due to excavation	Mining will be done by Opencast Semi Mechanized method. There will be temporary changes in land use due to excavation process; however the area will be naturally reclaimed monsoon seasons
	b. Water Environment	There are no competing users. The total water requirement will be 4 KLD for dust suppression (2 KLD), domestic (1 KLD) and plantation (1 KLD), which will be sourced from water tanker.	Sewage water will be passed into soak pit of septic tanks. Discharge of sewage or other effluents to water or the land is not expected.
	c. Air Environment	Dust emission during excavation and transportation, vehicular movement	Water sprinkling will be done on the roads regularly Care will be taken to prevent spillage by covering the carrying vehicles with tarpaulin and sprinkling of water, if in dry form Proper tuning of Engine of vehicles will be ensured to keep the gas emissions from the vehicles within the prescribed norms. Plantation of trees along the roads will be done to attenuate the impact of dust in the nearby villages /surrounding area.
	d. Noise Environment	Noise generated from extraction, exploration of minerals & from vehicles (dumpers, trucks and excavation etc.)	Regular maintenance of machinery will keep the generated noise level below the minimum prescribed limits Minimum use of Horns at the village area Timely maintenance of vehicles and their silencers to minimize vibration and sound Phasing out of old and worn out trucks. Awareness will be imparted prior to mining operations to all the

			operators & other persons concerned, so that they must be aware of detrimental effects of noise pollution
	e. Biological Environment	Minimum disturbance to local flora and fauna due to mining activity.	Green belt plantation will be done along the haul roads
	f. Human Environment	Employment generation	Occupational health check-up for the workers shall be carried out Safety training from time to time to all staff Providing Helmet, Safety Shoes & Hand Gloves Various amenities like drinking water, rest shelter & toilet will be provided to workers.
	g. Others		
2.	Occupational health & safety measures as per DGMS	Occupational health safety measures will be taken as per DGMS	
3.	Safety measures proposed		
	a. Is First Aid facility provided by PP?	First aid facility will be provided by the project proponent	
	b. Details of PPEs	Providing Helmet, Safety Shoes & Hand Gloves	
	c. Whether Registration of Workers under Building and other Construction Workers' (regulation of Employment & Conditions of Service) Act, 1996 and as Beneficiaries with the Gujarat Building and other Construction Workers Welfare Boards is obtained or not?	yes	
	d. Insurance of Workers	Occupational health check-up for the workers shall be carried out and insurance will be done	
	e. Health checkup plan of workers	Occupational health check-up for the workers shall be carried out	

F. Transportation:

1.	No. of vehicles per day carrying Minerals	18 vehicles per day
2.	Fugitive dust emission control measures	Regular control of fugitive dust emissions from the source. Water

		spraying on haul roads, loading and at transfer points. Truck mounted water tanker to be used from dust suppression during mining and transportation
3.	Route plan in brief	Mined out ordinary sand will be transported through the pucca road

G. Financial details of the Project:

1.	Total cost of the project (Lakh)	Rs. 57,49,169/-
	a. Upfront cost (Lakh)	Rs. 89,058/-
	b. Performance Security (Lakh)	Rs. 4,45,291/-
	c. Total Royalty (Lakh)	Rs. 8,32,320/-
	d. Weigh Bridge Cost (Lakh)	Rs. 4,50,000/-
	e. Labor cost equipment (Lakh)	Rs. 14,62,500/-
	f. Equipment protection and implementation cost (Lakh)	Rs. 17,50,000/-
	g. Green Belt Development & maintenance cost (Lakh)	Rs.1,00,000/- capital cost Rs.20,000/- recurring cost
	h. Cost of EMP (Lakh)	Rs.3,00,000/-
	i. Cost of Safety measures (Lakh)	Rs.3,00,000/-
	j. Cost of Post-Closure Mine Plan (Lakh)	-
2.	Budget allocated for CER (Lakh)	Rs.3,00,000/- (Three Lakh) as principal amount and 50,000/- (Fifty thousand) as recurring amount has been allotted for Environmental management plan. It is proposing to invest ~Rs.3,00,000/- for social environmental development over a period of next 3 years, to be considered for implementing the activities in the context of the local scenario of the area as a part of EMP. Proposed Heads are as below.
3.	Is need based survey for CER carried out? (Yes / No) If yes, give details of activities along with Budgetary Outlay	

SN	Activity	Budget		
		1st year	2nd year	3rd year
	Plantation of Trees in Nearby Area	40,000	30,000	30,000
	Drinking water in villages	20.000	20,000	20,000
	Health checkup twice year (in winter & summer) & supply of	50,000	50,000	40,000

			medicine			
			total	1,10,000	1,00,000	90,000

H. Restoration / Reclamation Plan:

1.	Restoration / Reclamation Details	The area will get naturally reclaimed due the Replenishment of sand in the monsoon seasons.
2.	Post mining closure plan	At the end of current Five Years mining plan maximum depth of pit will be 2.5 m. The excavated pits will be replenished by the sand transported by river flow every year in monsoon. The river bed will remain as river bed only. So there is no need for reclamation or progressive closure of mine of the stage.
3.	Backfilling material and its quantity	The area will get naturally reclaimed due the Replenishment of sand in the monsoon seasons.
4.	Size of void for Rain Water Harvesting after backfilling	-
5.	Post Closure Liability / Safety aspects and Measures to be taken to avoid wild life and human accidents/ causalities	-
6.	Display of Caution Boards at strategic locations on the periphery of the pit area	-
7.	Final Use of reservoir/ reclaimed land	-

I. Details of Legal Action / Court Case:

1.	Details of Pending Court matter / Public Litigation Cases in any court of Law	NA
2.	Details of Action taken by GPCB, if any	NA
3.	Details of public complaint , if any	NA
4.	Compliance of EC by RO-GPCB or MoEFCC-Bhopal	NA

Deliberation:

Shri Arun Kumar from M/s. Ultratech Environmental Consultancy and Laboratory remained present in the meeting on behalf of PP and he has sent an Authorization email for same. Committee deliberated on method of mining, rate of mining, no. of working hours and workers, no. of leases in the cluster and its lease area, set back distance, depth of mining etc. Committee also deliberated on the location of the lease w.r.t. Environmental Sensitivities and found as per the criteria prescribed by CPCB. Committee noted that it is a Semi-mechanized open cast mining. During the presentation, Environmental Management Plan, Restoration / reclamation plan, CER

activities and its budget, green belt development etc. was discussed. It is noted that proposed lease area is in dry river bed and does not include in stream mining.

After scoping for the aforementioned proposal, committee decided to consider the proposal under B1 category & Hon'ble National Green Tribunal Order dated 13 September 2018 in view. It was decided to recommend TOR approved by SEIAA on 07/03/2019 for **river bed sand mining** for conducting the EIA study to be done for cluster situation evaluating cumulative impact of the mining leases in cluster considering 10 Km radius from the periphery of the mine lease area including public hearing including project **specific TOR as Annexure – II.**

12. ORDINARY SANDMINING, DIST: ANAND

Application No	Name of Project	S.No.	Village	Taluka	Dist	Lease Area	Validity of lease	River	ROM	Nearest Human Habitation	End Use	Investment in Rs	Date of Application Received by SEAC
SIA/GJ/MIN/60962/2021	Shri Naranbhai Bhavanbhai Patel	403 ne lagu Mahi river bed Block no.- Sundalpura ordinary sand block no.B	Sundalpura	Umreth	Anand	4.16.50 Ha	LoI issued on 16.01.2021 for 5 years	Mahi	66,640 MTPA	Ahima-820 m	Construction	211 Lakh	05.04.2021 New project

The project falls under B1 Category – 1(a), i.e. Mining of Minerals as per the provision of EIA Notification, 2006. Project Proponent has applied to obtain Terms of Reference (TOR) for mining of Ordinary Sand.

A. Basic Information of the Project:

1.	Name of Project as per Form I	**Shri Naranbhai Bhavanbhai Patel**
2.	Address of the lease	Village: Sundalpura Taluka: Umreth District: Anand State: Gujarat
3.	Name of lease holder	**Shri Naranbhai Bhavanbhai Patel**

<table>
<tr><td>4.</td><td>Lease area (Ha)</td><td>4.16.50 Hect</td></tr>
<tr><td>5.</td><td>Cluster Details</td><td>Lease ID – AND 4-3</td></tr>
<tr><td></td><td>a. Total no. of leases in the cluster</td><td>4</td></tr>
<tr><td></td><td>b. No. of TOR granted in cluster</td><td>Nil</td></tr>
<tr><td></td><td>c. No. of EC granted in cluster</td><td>Nil</td></tr>
<tr><td></td><td>d. Total area of the cluster</td><td>14.36.00</td></tr>
<tr><td></td><td>e. Maximum individual lease area</td><td>4.50.00</td></tr>
<tr><td></td><td>f. Minimum individual lease area</td><td>3.00.00</td></tr>
<tr><td>6.</td><td>Validity of lease with the date of expiry</td><td>5 year from the date of agreement</td></tr>
<tr><td>7.</td><td>Rate of Mining (MT/Annum)</td><td>66,640 MTPA</td></tr>
<tr><td>8.</td><td>Details of EC obtained (for expansion projects), if any</td><td>Nil</td></tr>
<tr><td>9.</td><td>Name of River Bed</td><td>Mahi River Bed</td></tr>
<tr><td>10.</td><td>Is the river perennial / non-perennial?</td><td>non-perennial</td></tr>
<tr><td>11.</td><td>Lease area (submerged / in stream / on dry river bed)</td><td>On dry riverbed</td></tr>
<tr><td>12.</td><td>All coordinates of the lease area as per Approved Mining Plan</td><td>
<table>
<tr><th>Pillars</th><th>Latitude</th><th>Longitude</th></tr>
<tr><td>1</td><td>22°35'58.54"N</td><td>73°10'16.44"E</td></tr>
<tr><td>2</td><td>22°36'1.98"N</td><td>73°10'26.19"E</td></tr>
<tr><td>3</td><td>22°35'58.68"N</td><td>73°10'27.56"E</td></tr>
<tr><td>4</td><td>22°35'55.80"N</td><td>73°10'24.47"E</td></tr>
<tr><td>5</td><td>22°35'54.32"N</td><td>73°10'19.30"E</td></tr>
</table>
</td></tr>
<tr><td>13.</td><td>Manpower requirement</td><td>10</td></tr>
<tr><td>14.</td><td>Applicability of CRZ Notification</td><td>Not applicable</td></tr>
<tr><td>15.</td><td>Minimum Setback distance proposed to be maintained from River Bed (m)</td><td>More than 10 meter</td></tr>
<tr><td>16.</td><td>Minimum buffer distance from bridge piers / water intake wells / irrigation structures</td><td>SH-150 bridge - 0.69 Km from lease area</td></tr>
<tr><td>17.</td><td>Maximum depth of sand removal (3 m or water depth whichever is less)</td><td>1 m</td></tr>
<tr><td>18.</td><td>Width of Riverbed (m)</td><td>380 m</td></tr>
<tr><td>19.</td><td>Average depth of water at lease area (m)</td><td>7-10 m</td></tr>
<tr><td>20.</td><td>Depth of mining (m)</td><td>1.0 m Per Annum</td></tr>
<tr><td>21.</td><td>Ground Water Table in meter BGL</td><td>7-10m</td></tr>
<tr><td>22.</td><td>Does ground water interfere approach road exit? (Yes / No)
If yes, status report of CGWA</td><td>No</td></tr>
<tr><td>23.</td><td>Distance between lease and main road</td><td>710 m</td></tr>
<tr><td>24.</td><td>Length of kaccha road (m)</td><td>710 m</td></tr>
<tr><td>25.</td><td>Length of pacca road (m)</td><td>0 km</td></tr>
<tr><td>26.</td><td>Plan for making pacca road</td><td>No</td></tr>
<tr><td>27.</td><td>Source of fresh water</td><td>Drinking water will be Purchase from nearby water suppliers. And for the dust suppression and plantation will be Purchase from nearby tanker suppliers</td></tr>
<tr><td>28.</td><td>Water requirement (KLPD)</td><td>Total – 3.0 KLD</td></tr>
<tr><td></td><td>a. Domestic</td><td>1.0 KLD</td></tr>
<tr><td></td><td>b. Dust suppression</td><td>1.0 KLD</td></tr>
<tr><td></td><td>c. Gardening / Green belt development</td><td>1.0 KLD</td></tr>
<tr><td></td><td>d. others</td><td>-</td></tr>
<tr><td>29.</td><td>Whether the Undertaking is submitted for identical information provided in Form I, Approved Mining Plan, Project Details</td><td>No</td></tr>
</table>

	validated by District Geologist, Pre-Feasibility Report, Lease Document, Environment Management Plan and other documents	

B. Environmental Sensitivities:

Sr NO	Mining Type	Actual distance	Minimum Distance	Locations
1	Residential	Ahima- 820 m (Ahima population- 7,162 As per 2011 Census)	100M (When Blasting is not involved)	As per order of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020
	Public buildings	Jalaram Clinic at Ode = 5.88 km		As per order of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020
	Inhabited sites	Nil		
2.	A. Major Bridge	Nil	1 km	On both sides of the lease (as per Sustainable Sand Mine Guideline of MOEF&CC)
		OR		
3	B. Highway ridge(Span of Bridge as X)	SH-150 bridge - 0.69 Km	5X in upstream or 250 m. 10X in downstream or 500 m	As per Sustainable Sand Mine Guideline of MOEF&CC
4	Public Structure including water intake wells	Nil	n upstream or 250 m. b. 10X in downstream or 500 m	
5	Depth of working	1.0 meter Ground water table at lease area 7m -10 meter	1 M or water level whichever is early	As per order of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020)
6	Set Back Distance to prevent river bank erosion	More than 10 meter	10 M or 1/4th of width of river	As per order of Honorable SC dtd 27.02.2020 and Sustainable Sand Mine Guideline of MOEF&CC
7	Mineable Material per Hectare area for actual mining shall not exceed maximum	66,640 MTPA	60,000 MTPA Per Hectare	As per Sustainable Sand Mine Guideline of MOEF&CC

	production			
8	Water supply Scheme/Irrigation structure	Canal - 2.31 KM	200 M	
9	Railway Line/National Highway/ State Highway	SH-150 – 0.69 Km Ahmedabad- Vadodara Expy About 15.16 Km Railway line- 6.97 km	100 M	
10.	Reservoir / Canal	Canal- 2.31 Km	50 M	
11.	Other Road	Public Road- 0.77 Km	10 M	
12	Eco-Sensitive Zone (if notified)	Distance of Eco-Zone of Jambughoda Wildlife sanctuary – 43.72 km	>1 km / outside the notified Eco-Sensitive Zone	Vide directives of MOEF&CC dtd 16.07.2020
13.	Eco-Sensitive Zone (if not notified)	Not Applicable	>1 km and <10 km = Prior Clearance from NBWL is required	
14.	Distance of Coastal line from the site	60.41 Km	>500 M from HTL	Amended CRZ Notification 2011

C. Details of Mining:

1.	Method of Mining (Manual / Semi-mechanized / Mechanized).	Semi-mechanized
2.	Equipment's to be used for Mining bulldozers, hydraulic excavators, JCB, scrapers, loaders, Diesel Pump, etc.)	Hydraulic excavators, JCB, loaders
3.	Whether it includes blasting?	Not Applicable
4.	Details of Authorized Blasting Agency with date of validity certificate	Not Applicable
5.	Procedure / SOP (in brief)	Not Applicable
6.	Details of Blasting Parameters in brief	Not Applicable
7.	Frequency of blasting	Not Applicable
8.	Impact of blasting	Not Applicable
9.	Outcome of Vibration study	Not Applicable
10.	Blasting Activity Management Plan	Not Applicable
11.	Use of any Chemical with quantity	Not Applicable
12.	Precautions taken for Human Safety in brief	Not Applicable
13.	Crusher provided? If Yes, Measures taken for Air Pollution Control	Not Applicable
14.	Compliance of DGMS Guidelines for Blasting	Not Applicable
15.	Compliance of Sustainable Sand Mine Guidelines published by MoEFCC in 2016	Not Applicable
16.	WhetherReplenishment Rate Study is approved by District Geologist? If yes, conclude in brief	No (It will be submitted with the EIA)

D. Details of Green Belt Development:

1.	a. Green belt developmentbudget	1,04,000 Rs.
	b. Green belt area / location	Along river coarse and at approach road
	c. No. of trees to be planted	416
	d. Types of trees to be planted	Indigenous

E. Details of Environment Management Plan:

1.	**Details of EMP**	**Impact**	**Mitigation Measures**
	a. Land Environment	By the extraction of mineral from thelease area impactsto change the land pattern	The mining lease area granted in Bharajriver bed, which is Govt land. Due to mining the land pattern will be change for some time but will be come up in its pre stage after monsoon.
	b. Water Environment	Pollution of surface run off. Depletion of ground water table. Change in river coarse	❖ Depth of excavation /mining shall be restricted to 1.0 m or water level at site, whichever is less. ❖ No In stream mining will be done. No effluent will be generated due to mining activities.
	c. Air Environment	1.Gaseous emission from vehicles and machineries used 2. Dust Pollution	❖ Proponent will Spend Rs 94,640 year for sprinkling to internal road, loading point all transfer points. ❖ Proponent will develop green belt around the lease area with Rs 1,04,000 and will spend Rs 10,000 per year for the maintenance and replenishment of the plants. ❖ Attached road shall be sprinkle with water daily to prevent fugitive emission during vehicular. Speed of vehicle will only restrict to the 20 km/hour on Kutcha road. ❖ Vehicles used in mines and transportation shall be maintained well to mitigate the fugitive emission.
	d. Noise Environment	Noise due to working through heavy machinery.	❖ Ear muffs will be used during high noise activity. Regular maintenance of machineries shall be done
	e. Biological Environment	Nil	Nil
	f. Human Environment		❖ Suitable and properly maintained first-aid outfit should be kept at the mine for use in case of accident ❖ Safety equipment's like dust masks and ear muffs etc. ❖ Health camps shall be arranged for local villagers

			and workers.
	g. Others		
2.	Occupational health & safety measures as per DGMS	Nil	
3.	Safety measures proposed		
	a. Is First Aid facility provided by PP?	yes	
	b. Details of PPEs	Safety helmet, Hand gloves Shoes etc.	
	c. Whether Registration of WorkersunderBuilding and other Construction Workers' (regulation of Employment & Conditions of Service) Act, 1996 and as Beneficiaries with the Gujarat Building and other Construction Workers Welfare Boards is obtained or not?	Will be done after the agreement of the lease.	
	d. Insurance of Workers	Nil	
	e. Health checkup plan of workers	Every six-monthly plan for Health management.	

F. Transportation:

1.	No. of vehicles per day carrying Minerals	9.07 Approx.10
2.	Fugitive dust emission control measures	Attached road with lease shall be sprinkle with water daily to prevent fugitive emission during vehicular. Speed of vehicle will only restrict to the 20 km/hour on Kutcha road
3.	Route plan in brief	Approach road is about 910 m connected with Local MDR Road, and local MDR Road connected with state Highway– 11

G. Financial details of the Project:

1.	Total cost of the project (Lakh)	211 lac
	a. Upfront cost (Lakh)	6.03 Lakh
	b. Performance Security (Lakh)	6.03 Lakh
	c. Total Royalty (Lakh)	133 lakh
	d. Weigh Bridge Cost (Lakh)	8.0 lakh
	e. Labor cost equipment (Lakh)	42.90 lakh
	f. Environment protection and implementation cost (Lakh)	10.72 lakh
	g. Green Belt Development & maintenance cost (Lakh)	1.54 lakh
	h. Cost of EMP (Lakh)	---------

		i. Cost of Safety measures (Lakh)	3.00 lakh (Safety Helmet– 200 Rs, Hand Gloves - 150 Rs, Safety shoos- 650Rs)
		j. Cost of Post-Closure Mine Plan (Lakh)	Not applicable
	2.	Budget allocated for CER (Lakh)	4.22 lakh
	3.	Is need based survey for CER carried out? (Yes / No) If yes, give details of activities along with Budgetary Outlay	NO
H.	**Restoration / Reclamation Plan:**		
	1.	Restoration / Reclamation Details	The lease site was refilled during one monsoonal phase.
	2.	Post mining closure plan	Not Applicable
	3.	Backfilling material and its quantity	Not Applicable
	4.	Size of void for Rain Water Harvesting after backfilling	Not Applicable
	5.	Post Closure Liability / Safety aspects and Measures to be taken to avoid wild life and human accidents/ causalities	Not Applicable
	6.	Display of Caution Boards at strategic locations on the periphery of the pit area	Not Applicable
	7.	Final Use of reservoir/ reclaimed land	Not Applicable
I.	**Details of Legal Action / Court Case:**		
	1.	Details of Pending Court matter / Public Litigation Cases in any court of Law	No
	2.	Details of Action taken by GPCB, if any	No
	3.	Details of public complaint, if any	No
	4.	Compliance of EC by RO-GPCB or MoEFCC-Bhopal	No

Deliberation:

Shri Vinaykumar from M/s. Cognizance Research India Private Ltd. remained present in the meeting on behalf of PP and he has sent an Authorization letter for same. Committee deliberated on method of mining, rate of mining, no. of working hours and workers, no. of leases in the cluster and its lease area, set back distance, depth of mining etc. Committee also deliberated on the location of the lease w.r.t. Environmental Sensitivities and found as per the criteria prescribed by CPCB. Committee noted that it is a Semi-mechanized open cast mining. During the presentation, Environmental Management Plan, Restoration / reclamation plan, CER activities and its budget, green belt development etc. was discussed. At the time of deliberating on the location of the lease, Committee noted that watermelon farming is being carried out nearby the lease area. Committee noted that the lease is surrounded by water in all the four directions and two co-ordinates of the lease area are submerged in the riverbed of River Mahi.

Committee referred order of Hon'ble National Green Tribunal dated 30/05/2017 in the O.A. NO 78/2015 (CZ) and noted clause No 18 of the order as below:

"In light of the above the issue as to whether sand mining can be permitted within the 'submergence' area as contented by

the Applicant we are of the view that the issue stands answered with the provisions having been on the principal of precautionary approach as well as sustainable development in the guideline of 2016 extract of which quoted hereinabove. Alternatively, since in the order of the Hon'ble High Court dated 21.07.2015 the term used is "Environment issue arising out of carrying our mining activities particularly of sand in 'submerged area' is concerned the Sustainable Sand Mining Guidelines 2016 clearly prohibit any instream mining and further that rivers sand mining can be carried out only upto a depth of 3 meters / till water level is reached whichever is less. Therefore, clearly in accordance with the guidelines which was required to be considered as the guiding factor before EC or consent can be granted ***no river sand mining can be carried out in any area nowithstanding the same being part of the leased area in case it is 'submerged' or lies within the submerged area."***

Hence, in view of the above, Committee unanimously decided to recommend the proposal for rejection.

13. ORDINARY SAND & GRAVEL MINING, DIST : VADODARA

Application No	Name of Project	S.No.	Village	Taluka	Dist	Lease Area	Validity of lease	River	ROM	Nearest Human Habitation	End Use	Investment in Rs	Date of Application Received by SEAC
SIA/GJ/MIN/60363/2021	Shri Anilkumar Nanalal Jain	Mahi Riverbed Paiki, Adjoining to survey No-160 and 162. Prathampura Ordinary sand &	Prathampura	Savli	Vadodara	3.00.00 Ha	LoI issued on 25.11.2019 for 5 years	Mahi	48,420 MTPA	Kherda – 502 m	Construction	172 Lakh	06.04.2021 New project

		Gravel (Block No-B)											

The project falls under B1 Category – 1(a), i.e. Mining of Minerals as per the provision of EIA Notification, 2006. Project Proponent has applied to obtain Terms of Reference (TOR) for mining of Ordinary Sand.

A. Basic Information of the Project:

1.	Name of Project as per Form I	**Shri Anilkumar Nanalal Jain**
2.	Address of the lease	Village: Prathampura Taluka: Savli District: Vadodara State: Gujarat
3.	Name of lease holder	**Shri Anilkumar Nanalal Jain**
4.	Lease area (Ha)	3.00.00 Hect
5.	Cluster Details	Lease ID – VAD 1-2
	a. Total no. of leases in the cluster	5
	b. No. of TOR granted in cluster	Nil
	c. No. of EC granted in cluster	Nil
	d. Total area of the cluster	14.82.00
	e. Maximum individual lease area	3.00.00
	f. Minimum individual lease area	2.82.00
6.	Validity of lease with the date of expiry	5 year from the date of agreement
7.	Rate of Mining (MT/Annum)	48,420 MTPA
8.	Details of EC obtained (for expansion projects), if any	Nil
9.	Name of River Bed	Mahi River Bed
10.	Is the river perennial / non-perennial?	non-perennial
11.	Lease area (submerged / in stream / on dry river bed)	On dry riverbed
12.	All coordinates of the lease area as per Approved Mining Plan	**Pillars** / **Latitude** / **Longitude** 1 / 22°30'44.57"N / 73° 6'6.43"E 2 / 22°30'39.22"N / 73° 6'8.74"E 3 / 22°30'37.38"N / 73° 6'3.16"E 4 / 22°30'42.56"N / 73° 6'0.71"E
13.	Manpower requirement	10
14.	Applicability of CRZ Notification	Not applicable
15.	Minimum Setback distance proposed to be maintained from River Bed (m)	More than 10 meter
16.	Minimum buffer distance from bridge piers / water intake wells / irrigation structures	Ahmedabad- Vadodara Expy bridge - 3.26 Km From lease area.
17.	Maximum depth of sand removal (3 m or water depth whichever is less)	3 m
18.	Width of Riverbed (m)	620 m
19.	Average depth of water at lease area (m)	7-10 m
20.	Depth of mining (m)	0.6 m Per Annum

21.	Ground Water Table in meter BGL	7-10m
22.	Does ground water interfere approach road exit? (Yes / No) If yes, status report of CGWA	No
23.	Distance between lease and main road	900 m
24.	Length of kaccha road (m)	900 m
25.	Length of pacca road (m)	No
26.	Plan for making pacca road	No
27.	Source of fresh water	Drinking water will be Purchase from nearby water suppliers. And for the dust suppression and plantation will be Purchase from nearby tanker suppliers
28.	Water requirement (KLPD)	Total – 3.0 KLD
	a. Domestic	1.0 KLD
	b. Dust suppression	1.0 KLD
	c. Gardening / Green belt development	1.0 KLD
	d. others	-
29.	Whether the Undertaking is submitted for identical information provided in Form I, Approved Mining Plan, Project Details validated by District Geologist, Pre-Feasibility Report, Lease Document, Environment Management Plan and other documents	No

B. Environmental Sensitivities:

Sr NO	**Mining Type**	**Actual distance**	**Minimum Distance**	**Locations**
1	Residential	Kherda - 502 m (Kherda population- 3,162 As per 2011 Census)	100M (When Blasting is not involved)	As per order of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020
	Public buildings	Government Hospital At Vehrakhadi = 2.70 km		As per order of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020
	Inhabited sites	Nil		
2.	A. Major Bridge	Nil	1 km	On both sides of the lease (as per Sustainable Sand Mine Guideline of MOEF&CC)
OR				
3	B. Highway ridge(Span of Bridge as X)	Ahmedabad- Vadodara Expy bridge - 3.26 Km	5X in upstream or 250 m. 10X in downstream or 500 m	As per Sustainable Sand Mine Guideline of MOEF&CC
4	Public Structure including water intake wells	Nil	n upstream or 250 m. b. 10X in downstream or 500 m	
5	Depth of working	0.6 meter Ground water table at lease area 7m -10	1 M or water level whichever is early	As per order of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd

		meter		30.09.2020)
6	Set Back Distance to prevent river bank erosion	More than 10 meter	10 M or 1/4th of width of river	As per order of Honorable SC dtd 27.02.2020 and Sustainable Sand Mine Guideline of MOEF&CC
7	Mineable Material per Hectare area for actual mining shall not exceed maximum production	48,420 MTPA	60,000 MTPA Per Hectare	As per Sustainable Sand Mine Guideline of MOEF&CC
8	Water supply Scheme/Irrigation structure	Water Reservoir- 1.60 km Canal - 2.70 KM	200 M	
9	Railway Line/National Highway/ State Highway	SH-188 – 3.75 Km NH-8 - 6.06 Km Railway line- 7.00 km	100 M	
10.	Reservoir / Canal	Canal - 2.70 KM	50 M	
11.	Other Road	Public Road- 0.88 Km	10 M	
12	Eco-Sensitive Zone (if notified)	Distance of Eco-Zone of Jambughoda Wildlife sanctuary – 47.00 km	>1 km / outside the notified Eco-Sensitive Zone	Vide directives of MOEF&CC dtd 16.07.2020
13.	Eco-Sensitive Zone (if not notified)	Not Applicable	>1 km and <10 km = Prior Clearance from NBWL is required	
14.	Distance of Coastal line from the site	47.82 Km	>500 M from HTL	Amended CRZ Notification 2011

C. Details of Mining:

1.	Method of Mining (Manual / Semi-mechanized / Mechanized).	Semi-mechanized
2.	Equipment's to be used for Mining bulldozers, hydraulic excavators, JCB, scrapers, loaders, Diesel Pump, etc.)	Hydraulic excavators, JCB, loaders
3.	Whether it includes blasting?	Not Applicable
4.	Details of Authorized Blasting Agency with date of validity certificate	Not Applicable
5.	Procedure / SOP (in brief)	Not Applicable
6.	Details of Blasting Parameters in brief	Not Applicable
7.	Frequency of blasting	Not Applicable
8.	Impact of blasting	Not Applicable
9.	Outcome of Vibration study	Not Applicable
10.	Blasting Activity Management Plan	Not Applicable
11.	Use of any Chemical with quantity	Not Applicable

12.	Precautions taken for Human Safety in brief	Not Applicable
13.	Crusher provided? If Yes, Measures taken for Air Pollution Control	Not Applicable
14.	Compliance of DGMS Guidelines for Blasting	Not Applicable
15.	Compliance of Sustainable Sand Mine Guidelines published by MoEFCC in 2016	Not Applicable
16.	WhetherReplenishment Rate Study is approved by District Geologist? If yes, conclude in brief	No (It will be submitted with the EIA)

D. Details of Green Belt Development:

1.	a. Green belt developmentbudget	75,000 Rs.
	b. Green belt area / location	Along river coarse and at approach road
	c. No. of trees to be planted	300
	d. Types of trees to be planted	Indigenous

E. Details of Environment Management Plan:

1.	**Details of EMP**	**Impact**	**Mitigation Measures**
	a. Land Environment	By the extraction of mineral from thelease area impactsto change the land pattern	The mining lease area granted in Mahi river bed, which is Govt land. Due to mining the land pattern will be change for some time but will be come up in its pre stage after monsoon.
	b. Water Environment	Pollution of surface run off. Depletion of ground water table. Change in river coarse	❖ Depth of excavation /mining shall be restricted to 0.6 m or water level at site, whichever is less. ❖ No In stream mining will be done. No effluent will be generated due to mining activities.
	c. Air Environment	1.Gaseous emission from vehicles and machineries used 2. Dust Pollution	❖ Proponent will Spend Rs 1.00 lac year for sprinkling to internal road, loading point all transfer points. ❖ Proponent will develop green belt around the lease area with Rs 75,000 and will spend Rs 7,000 per year for the maintenance and replenishment of the plants. ❖ Attached road shall be sprinkle with water daily to prevent fugitive emission during vehicular. Speed of vehicle will only restrict to the 20 km/hour on Kutcha road. ❖ Vehicles used in mines and transportation shall be maintained well to mitigate the fugitive emission.

	d. Noise Environment	Noise due to working through heavy machinery.	❖ Ear muffs will be used during high noise activity. Regular maintenance of machineries shall be done
	e. Biological Environment	Nil	Nil
	f. Human Environment		❖ Suitable and properly maintained first-aid outfit should be kept at the mine for use in case of accident ❖ Safety equipment's like dust masks and ear muffs etc. ❖ Health camps shall be arranged for local villagers and workers.
	g. Others		
2.	Occupational health & safety measures as per DGMS	Nil	
3.	Safety measures proposed		
	a. Is First Aid facility provided by PP?	yes	
	b. Details of PPEs	Safety helmet, Hand gloves Shoes etc.	
	c. Whether Registration of WorkersunderBuilding and other Construction Workers' (regulation of Employment & Conditions of Service) Act, 1996 and as Beneficiaries with the Gujarat Building and other Construction Workers Welfare Boards is obtained or not?	Will be done after the agreement of the lease.	
	d. Insurance of Workers	Nil	
	e. Health checkup plan of workers	Every six-monthly plan for Health management.	

F. Transportation:

1.	No. of vehicles per day carrying Minerals	Approx 12
2.	Fugitive dust emission control measures	Attached road with lease shall be sprinkle with water daily to prevent fugitive emission during vehicular. Speed of vehicle will only restrict to the 20 km/hour on Kutcha road
3.	Route plan in brief	Approach road is about 910 m connected with Local MDR Road, and local MDR Road connected with state Highway– 11

G. Financial details of the Project:

1.	Total cost of the project (Lakh)	172 lac
	a. Upfront cost (Lakh)	4.84 Lakh
	b. Performance Security (Lakh)	4.84 Lakh
	c. Total Royalty (Lakh)	96.44 lakh
	d. Weigh Bridge Cost (Lakh)	8.0 lakh
	e. Labor cost equipment (Lakh)	42.90 lakh
	f. Environment protection and implementation cost (Lakh)	11.00 lakh
	g. Green Belt Development & maintenance cost (Lakh)	1.10 lakh
	h. Cost of EMP (Lakh)	---------
	i. Cost of Safety measures (Lakh)	3.00 lakh (Safety Helmet– 200 Rs, Hand Gloves - 150 Rs, Safety shoos- 650Rs)
	j. Cost of Post-Closure Mine Plan (Lakh)	Not applicable
2.	Budget allocated for CER (Lakh)	3.44 lakh
3.	Is need based survey for CER carried out? (Yes / No) If yes, give details of activities along with Budgetary Outlay	NO

H. Restoration / Reclamation Plan:

1.	Restoration / Reclamation Details	The lease site was refilled during one monsoonal phase.
2.	Post mining closure plan	Not Applicable
3.	Backfilling material and its quantity	Not Applicable
4.	Size of void for Rain Water Harvesting after backfilling	Not Applicable
5.	Post Closure Liability / Safety aspects and Measures to be taken to avoid wild life and human accidents/ causalities	Not Applicable
6.	Display of Caution Boards at strategic locations on the periphery of the pit area	Not Applicable
7.	Final Use of reservoir/ reclaimed land	Not Applicable

I. Details of Legal Action / Court Case:

1.	Details of Pending Court matter / Public Litigation Cases in any court of Law	No
2.	Details of Action taken by GPCB, if any	No
3.	Details of public complaint, if any	No
4.	Compliance of EC by RO-GPCB or MoEFCC-Bhopal	No

Deliberation:

Shri Vinaykumar from M/s. Cognizance Research India Private Ltd. remained present in the meeting on behalf of PP and he has sent an Authorization letter for same. Committee deliberated on method of mining, rate of mining, no. of working hours and workers, no. of leases in the cluster and its lease area, set back distance, depth of mining etc. Committee also deliberated on the location of the lease w.r.t. Environmental Sensitivities and found as per the criteria prescribed by CPCB. Committee noted that it is a Semi-mechanized open cast mining. During the presentation, Environmental Management Plan, Restoration / reclamation plan, CER activities and its budget, green

belt development etc. was discussed. It is noted that proposed lease area is in dry river bed and does not include in stream mining.

After scoping for the aforementioned proposal, committee decided to consider the proposal under B1 category & Hon'ble National Green Tribunal Order dated 13 September 2018 in view. It was decided to recommend TOR approved by SEIAA on 07/03/2019 for **river bed sand mining** for conducting the EIA study to be done for cluster situation evaluating cumulative impact of the mining leases in cluster considering 10 Km radius from the periphery of the mine lease area including public hearing including project **specific TOR as Annexure – II.**

14. BENTONITE MINING, DIST : KUTCH

Application No	Name of Project	S.No.	Village	Taluka	Dist	Lease Area	Validity of lease	ROM	Nearest Human Habitation	End Use	Investment in Rs	Date of Application Received by SEAC
SIA/GJ/MIN/61401/2021	Shri Jaydeepsinh Keshubha Sodha	138 Paiki QL No-13787	Raydhanjar	Abdasa	Kutch	1.71.99 Ha	LOI Letter no.-GKK/QL/13787 dated-25/01/2017	30000 MTPA	Nundhatad – 788 m	Cement Industry	3.18 Crore	07.04.2021

The project falls under B1 Category – 1(a), i.e. Mining of Minerals as per the provision of EIA Notification, 2006. Project Proponent has applied to obtain Terms of Reference (TOR) for mining of Bentonite.

A. Basic Information of the Project:

1.	Name of Project as per Form I	Shri Jaydeepsinh Keshubha Sodha
2.	Address of the lease	Village:Raydhanjar Taluka:Abdasa, District:Kutch State: Gujarat
3.	Name of lease holder	Shri Jaydeepsinh Keshubha Sodha
4.	Lease area (Ha)	1.71.99 Ha.
5.	Cluster Details	
	a. Total no. of leases in the cluster	16
	b. No. of TOR granted in cluster	Not applicable
	c. No. of EC granted in cluster	Not applicable
	d. Total area of the cluster	47.32.27 Ha.
	e. Maximum individual lease area	10.00.00 Ha.
	f. Minimum individual lease area	00.60.70Ha.
6.	Validity of lease with the date of expiry	10 Years from the date of LOI Issued.

<table>
<tr><td>7.</td><td>Rate of Mining (MT/Annum)</td><td>30,000</td></tr>
<tr><td>8.</td><td>Details of EC obtained (for expansion projects), if any</td><td>Nil</td></tr>
<tr><td>9.</td><td>Name of River Bed</td><td>Not applicable</td></tr>
<tr><td>10.</td><td>Is the river perennial / non-perennial?</td><td>Not applicable</td></tr>
<tr><td>11.</td><td>Lease area (submerged / in stream / on dry river bed)</td><td>Not applicable</td></tr>
<tr><td>12.</td><td>All coordinates of the lease area as per Approved Mining Plan</td><td>
<table>
<tr><td>Pillars</td><td>Latitude</td><td>Longitude</td></tr>
<tr><td>1</td><td>23° 06’38.90"N</td><td>69°06’27.64"E</td></tr>
<tr><td>2</td><td>23° 06’38.73"N</td><td>69°06’29.54"E</td></tr>
<tr><td>3</td><td>23° 06’38.06"N</td><td>69°06’31.02"E</td></tr>
<tr><td>4</td><td>23° 06’37.50"N</td><td>69°06’31.12"E</td></tr>
<tr><td>5</td><td>23° 06’35.87"N</td><td>69°06’30.45"E</td></tr>
<tr><td>6</td><td>23° 06’32.59"N</td><td>69°06’29.99"E</td></tr>
<tr><td>7</td><td>23° 06’33.01"N</td><td>69°06’27.60"E</td></tr>
<tr><td>8</td><td>23° 06’35.65"N</td><td>69°06’25.99"E</td></tr>
<tr><td>9</td><td>23° 06’35.87"N</td><td>69°06’28.06"E</td></tr>
</table>
</td></tr>
<tr><td>13.</td><td>Manpower requirement</td><td>10</td></tr>
<tr><td>14.</td><td>Applicability of CRZ Notification</td><td>Not applicable</td></tr>
<tr><td>15.</td><td>Minimum Setback distance proposed to be maintained from River Bed (m)</td><td>Not applicable</td></tr>
<tr><td>16.</td><td>Minimum buffer distance from bridge piers / water intake wells / irrigation structures</td><td>National Highway Bridge- 9.70 Km</td></tr>
<tr><td>17.</td><td>Maximum depth of sand removal (3 m or water depth whichever is less)</td><td>Not Applicable</td></tr>
<tr><td>18.</td><td>Width of Riverbed (m)</td><td>Not Applicable</td></tr>
<tr><td>19.</td><td>Average depth of water at lease area (m)</td><td>50-60</td></tr>
<tr><td>20.</td><td>Depth of mining (m)</td><td>7 m</td></tr>
<tr><td>21.</td><td>Ground Water Table in meter BGL</td><td>50- 60 m</td></tr>
<tr><td>22.</td><td>Does ground water interfere approach road exit? (Yes / No)
If yes, status report of CGWA</td><td>No</td></tr>
<tr><td>23.</td><td>Distance between lease and main road</td><td>945 M</td></tr>
<tr><td>24.</td><td>Length of kaccha road (m)</td><td>483 m</td></tr>
<tr><td>25.</td><td>Length of pacca road (m)</td><td>462</td></tr>
<tr><td>26.</td><td>Plan for making pacca road</td><td>No</td></tr>
<tr><td>27.</td><td>Source of fresh water</td><td>Drinking water will be Purchase from nearby water suppliers. And for the dust
suppression and plantation will be Purchase from nearby tanker suppliers</td></tr>
<tr><td rowspan="5">28.</td><td>Water requirement (KLPD)</td><td>Total –3.31KLD</td></tr>
<tr><td>a. Domestic</td><td>0.46 KLD</td></tr>
<tr><td>b. Dust suppression</td><td>1.48 KLD</td></tr>
<tr><td>c. Gardening / Green belt development</td><td>1.37 KLD</td></tr>
<tr><td>d. others</td><td>-</td></tr>
<tr><td>29.</td><td>Whether the Undertaking is submitted for identical information provided in Form I, Approved Mining Plan, Project Details validated by District Geologist, Pre-Feasibility Report, Lease Document, Environment Management Plan and other documents</td><td>No</td></tr>
</table>

B. Environmental Sensitivities:

Sr No.	Environmental Sensitivities	Actual Distance	Minimum Distance	Reference
1.	Residential	Raydhanjar – 788 M	100 m (Blasting is not involved)	As per CPCB Distance Criteria And order of of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020
	Public buildings	Primary school- 921 m		
	Inhabited sites	Nil		
	Protected monuments,	Paureshwar Temples- 33.50 Km		
	Heritage sites	Mata No Madh – 50.35 Km		
	National / State Highway	SH 91- 8.33 Km NH 8A/41- 8.26 Km		
	District roads	982 M		
	Public roads	479 m		
	Railway line / area	8.13 Km		
	Ropeway or Ropeway trestle or station	Naliya Railway station- 26.72 Km		
	Bridges	National Highway Bridge- 9.70 Km		
	Dams	Dam- 6.17 Km		
	Reservoirs	6.26 Km		
	River	Kankavati River 4.04 Km		
	Canal	17.62 Km		
	Lakes	Nil		
	Tanks	Nil		
2.	Eco-Sensitive Zone (if notified)	Distance of Bustard wildlife Sanctuary Eco Sensitive zone is About 7.00 Km	>1 km / outside the notified Eco-Sensitive Zone	Vide directives of MOEF&CC dtd 16.07.2020
3.	Eco-Sensitive Zone (if not notified)	Not Applicable	>1 km and <10 km = Prior Clearance from NBWL is required	Vide directives of MOEF&CC dtd 16.07.2020

4.	Distance of Coastal line from the site	20.57 Km	>500 M from HTL	Amended CRZ Notification 2011

C. Details of Mining:

1.	Method of Mining (Manual / Semi-mechanized / Mechanized).	Semi-mechanized
2.	Equipment's to be used for Mining bulldozers, hydraulic excavators, JCB, scrapers, loaders, Diesel Pump, etc.)	Hydraulic excavators, loaders
3.	Whether it includes blasting?	Not Applicable
4.	Details of Authorized Blasting Agency with date of validity certificate	Not Applicable
5.	Procedure / SOP (in brief)	Not Applicable
6.	Details of Blasting Parameters in brief	Not Applicable
7.	Frequency of blasting	Not Applicable
8.	Impact of blasting	Not Applicable
9.	Outcome of Vibration study	Not Applicable
10.	Blasting Activity Management Plan	Not Applicable
11.	Use of any Chemical with quantity	Not Applicable
12.	Precautions taken for Human Safety in brief	Not Applicable
13.	Crusher provided? If Yes, Measures taken for Air Pollution Control	Not Applicable
14.	Compliance of DGMS Guidelines for Blasting	Not Applicable
15.	Compliance of Sustainable Sand Mine Guidelines published by MoEFCC in 2016	Not Applicable
16.	WhetherReplenishment Rate Study is approved by District Geologist? If yes, conclude in brief	No

D. Details of Green Belt Development:

1.	a. Green belt developmentbudget	
	b. Green belt area / location	Alng the statuary barrier and at approach road
	c. No. of trees to be planted	172
	d. Types of trees to be planted	Indigenous, Charu, Khakhara

E. Details of Environment Management Plan:

1.	**Details of EMP**	**Impact**	**Mitigation Measures**
	a. Land Environment	By the extraction of mineral from the lease area impacts to change the land pattern	Restoration of land environment will be done by developing as a Grass land and remaining pit area will be developed as water reservoir by maintaining a slope of 45 degree and fencing around the water reservoir area. .
	b. Water Environment	Pollution of surface run off. Depletion of ground water table.	❖ Ground water table is about 50- 60 meter. ❖ Mining will be done till depth of 7 meters from general ground level.

				❖ Mining shall not intersect ground table. Domestic wastewater shall be disposed of through septic tank- soak pit
		c. Air Environment	1.Gaseous emission from vehicles and machineries used 2. Dust Pollution	❖ Proponent will Spend Rs 1,15,400per year for sprinkling to internal road, loading point all transfer points. ❖ Proponent will develop green belt around the lease area with Rs 43,000 and will spend Rs 5500 per year for the maintenance and replenishment of the plants. ❖ Attached road shall be sprinkle with water daily to prevent fugitive emission during vehicular. Speed of vehicle will only restrict to the 20 km/hour on Kutcha road. ❖ Vehicles used in mines and transportation shall be maintained well to mitigate the fugitive emission.
		d. Noise Environment	Noise due to working through heavy machinery.	❖ Ear muffs will be used during high noise activity. Regular maintenance of machineries shall be done
		e. Biological Environment	Nil	Nil
		f. Human Environment		❖ Suitable and properly maintained first-aid outfit should be kept at the mine for use in case of accident ❖ Safety equipment's like dust masks and ear muffs etc. ❖ Health camps shall be arranged for local villagers and workers.
		g. Others		
	2.	Occupational health & safety measures as per DGMS	Nil	
	3.	Safety measures proposed		
		a. Is First Aid facility provided by PP?	yes	
		b. Details of PPEs	Safety helmet, Hand gloves Shoes etc.	
		c. Whether Registration of Workers underBuilding and other Construction Workers' (regulation	Will be done after the agreement of the lease.	

	of Employment & Conditions of Service) Act, 1996 and as Beneficiaries with the Gujarat Building and other Construction Workers Welfare Boards is obtained or not?	
	d. Insurance of Workers	Nil
	e. Health checkup plan of workers	Every six-monthly plan for Health management.

F. Transportation:

1.	No. of vehicles per day carrying Minerals	1-2
2.	Fugitive dust emission control measures	Attached road with lease shall be sprinkle with water daily to prevent fugitive emission during vehicular. Speed of vehicle will only restrict to the 20 km/hour on Kutcha road
3.	Route plan in brief	Kachha road is 483M about connected with metallic roadMiyani to local MDR road connected with National Highway-41/8A.

G. Financial details of the Project:

1.	Total cost of the project (Lakh)	3.18Cr
	a. Upfront cost (Lakh)	Nil
	b. Performance Security (Lakh)	Nil
	c. Total Royalty (Lakh)	1.65 Cr
	d. Weigh Bridge Cost (Lakh)	8.0 Lakh
	e. Labor cost equipment (Lakh)	Labor cost- 45 lakh Equipment- 78 Lakh
	f. Environment protection and implementation cost (Lakh)	10.77 lakh
	g. Green Belt Development & maintenance cost (Lakh)	0.70 lakh
	h. Cost of EMP (Lakh)	----
	i. Cost of Safety measures (Lakh)	3.0 lakh
	j. Cost of Post-Closure Mine Plan (Lakh)	8.24 Lakh
2.	Budget allocated for CER (Lakh)	2.77 lakh
3.	Is need based survey for CER carried out? (Yes / No) If yes, give details of activities along with Budgetary Outlay	NO

H. Restoration / Reclamation Plan:

1.	Restoration / Reclamation Details	Restoration of land environment will be done in such a manner that flora fauna and plantation will flourish and also the area can be used for water harvesting and agriculture purposes.
2.	Post mining closure plan	• As per approved mining plan recovery of mineral is 80 % and 15 % rejected will generate so about17641 MT will be generated throughout the mining which will be used for back filling in the bench

			space. • At the end Lessee will Develop Green belt in the statuary barrier area .and back filled area with the Desi Bavad, Imli, Ashoka, Gulmohar. • At the end of mine about 4 feet high boundary/Peripheral wall with barbed will be fenced around the water reservoir area. Water Reservoir will be used for water harvesting and agriculture purpose
	3.	Backfilling material and its quantity	Waste or sub-grade generated from mine. 5880 MT
	4.	Size of void for Rain Water Harvesting after backfilling	1.07.93 Ha.
	5.	Post Closure Liability / Safety aspects and Measures to be taken to avoid wild life and human accidents/ causalities	I. Will be fenced around the water reservoir area. II. 7.5-meter-thick green belt will be developed around the statuary barrier. Slop of 45 degree will be maintained in the pit.
	6.	Display of Caution Boards at strategic locations on the periphery of the pit area	yes
	7.	Final Use of reservoir/ reclaimed land	Water Harvesting
I.	**Details of Legal Action / Court Case:**		
	1.	Details of Pending Court matter / Public Litigation Cases in any court of Law	No
	2.	Details of Action taken by GPCB, if any	No
	3.	Details of public complaint, if any	No
	4.	Compliance of EC by RO-GPCB or MoEFCC-Bhopal	No

Deliberation:

Shri Vinaykumar from M/s. Cognizance Research India Private Ltd. remained present in the meeting on behalf of PP and he has sent an Authorization letter for same. Committee deliberated on method of mining, rate of mining, no. of working hours and workers, no. of leases in the cluster and its lease area etc. Committee also deliberated on the location of the lease w.r.t. Environmental Sensitivities and found as per the criteria prescribed by CPCB. Committee noted that the mining does not involve blasting and it is a Semi-mechanized open cast mining. During the presentation, Environmental Management Plan, Restoration / reclamation plan, CER activities and its budget, green belt development etc. was discussed.

After scoping for the aforementioned proposal, committee decided to consider the proposal under B1 category keeping cluster situation & Hon'ble National Green Tribunal Order dated 13 September 2018 in view, It was decided to recommend TOR approved by SEIAA on 07/03/2019 for **Non sand mining without blasting** for conducting the EIA study to be done for the proposals in cluster considering 10 Km radius from the periphery of the mine lease area including public hearing including additional TOR to SEIAA as per **Annexure – I**.

15. BLACK TRAP MINING, DIST : KUTCH

Application No	Name of Project	S.No.	Village	Taluka	Dist	Lease Area	Validity of lease	ROM	Nearest Human Habitation	End Use	Investment in Rs	Date of Application Received by SEAC
SIA/GJ/MIN/61474/2021	Shri Mutwa Jafar Ull Hak Khanan	147 Paiki & Q L No-14723 Govt. Waste land	Khambhala	Nakhatrana	Kutch	2.00.00 Ha	Lease Order Letter no-GKK/QL/14723/1627 dated-18/02/2013 for 10 years	59,993 MTPA	Khambhala – 984 m	Construction	4.09 Crore	07.04.2021 New project

The project falls under B1 Category – 1(a), i.e. Mining of Minerals as per the provision of EIA Notification, 2006. Project Proponent has applied to obtain Terms of Reference (TOR) for mining of Black Trap.

A. Basic Information of the Project:

1.	Name of Project as per Form I	**Shri MutwaJafar Ull HakKhanan**
2.	Address of the lease	Village: Khambhala Taluka: Nakhatrana District:Kutch State: Gujarat
3.	Name of lease holder	**Shri MutwaJafar Ull HakKhanan**
4.	Lease area (Ha)	2.00.00Hect.
5.	Cluster Details	
	a. Total no. of leases in the cluster	3
	b. No. of TOR granted in cluster	Nil
	c. No. of EC granted in cluster	Nil
	d. Total area of the cluster	7.00.00
	e. Maximum individual lease area	3.00.00
	f. Minimum individual lease area	2.00.00
6.	Validity of lease with the date of expiry	10 year from the date of Lease order issued.
7.	Rate of Mining (MT/Annum)	59,993MTPA
8.	Details of EC obtained (for expansion projects), if any	Nil
9.	Name of River Bed	Not Applicable
10.	Is the river perennial / non-perennial	Not Applicable
11.	Lease area (submerged / in stream / on dry river bed)	Not Applicable

12.	All coordinates of the lease area as per Approved Mining Plan	Pillar / GPS -COORDINATE 1. 23°23'42.72"N 69°11'45.55"E 2. 23°23'43.18"N 69°11'46.08"E 3. 23°23'45.12"N 69°11'50.87"E 4. 23°23'47.85"N 69°11'52.46"E 5. 23°23'47.23"N 69°11'53.45"E 6. 23°23'42.29"N 69°11'51.50"E 7. 23°23'40.05"N 69°11'48.19"E
13.	Manpower requirement	10
14.	Applicability of CRZ Notification	Not applicable
15.	Minimum Setback distance proposed to be maintained from River Bed (m)	Not applicable
16.	Minimum buffer distance from bridge piers / water intake wells / irrigation structures	SH 42 - Small Bridge- 3.79 Km
17.	Maximum depth of sand removal (3 m or water depth whichever is less)	Not Applicable
18.	Width of Riverbed (m)	Not Applicable
19.	Average depth of water at lease area (m)	Not Applicable
20.	Depth of mining (m)	12 m
21.	Ground Water Table in meter BGL	50-55Bgl
22.	Does ground water interfere approach road exit? (Yes / No) If yes, status report of CGWA	No
23.	Distance between lease and main road	323m
24.	Length of kaccha road (m)	1.10 Km
25.	Length of pacca road (m)	405 M
26.	Plan for making pacca road	No
27.	Source of fresh water	Drinking water will be Purchase from nearby water suppliers. And for the dust suppression and plantation will be Purchase from nearby tanker suppliers
28.	Water requirement (KLPD)	Total –4.2 KLD
	a. Domestic	0.52 KLD
	b. Dust suppression	2.08 KLD
	c. Gardening / Green belt development	1.6 KLD
	d. others	-
29.	Whether the Undertaking is submitted for identical information provided in Form I, Approved Mining Plan, Project Details validated by District Geologist, Pre-Feasibility Report, Lease Document, Environment Management Plan and other documents	No

B. Environmental Sensitivities:

Sr No.	Environmental Sensitivities	Actual Distance	Minimum Distance	Reference
1.	Residential	Khambhala- 984 M	200 m	As per

	Public buildings	Primary School, Khambhala = 1.20 km	(When Blasting is involved)	CPCB Distance Criteria And order of of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020
	Inhabited sites	Nil		
	Protected monuments,	Paureshwar Temples- 24.15		
	Heritage sites	Mata no Madh – 19.09 Km		
	National / State Highway	SH-42 = 991 M NH- 8A/41 = 39.65 km		
	District roads	991 M		
	Public roads	991 M		
	Railway line / area	Railway Track – 20.00 Km		
	Ropeway or Ropeway trestle or station	Deshalpar Railway station- 32.49 Km		
	Bridges	SH 42 - Small Bridge- 3.79 Km		
	Dams	Nil		
	Reservoirs	Nil		
	River	Seasonal Stream = 3.05 Km		
	Canal	Nil		
	Lakes	Nil		
	Tanks	Nil		
2	Eco-Sensitive Zone (if notified)	Distance of Eco sensitive zone of Bustard wildlife Sanctuary is About 23.72 Km	>1 km / outside the notified Eco-Sensitive Zone	Vide directives of MOEF&CC dtd 16.07.2020
3	Eco-Sensitive Zone (if not notified)	Not Applicable	>1 km and <10 km = Prior Clearance from NBWL is required	Vide directives of MOEF&CC dtd 16.07.2020
4	Distance of Coastal line from the site	54.73 Km	>500 M from HTL	Amended CRZ Notification 2011

C. Details of Mining:

1.	Method of Mining (Manual / Semi-mechanized / Mechanized).	Semi-mechanized
2.	Equipment's to be used for Mining bulldozers, hydraulic excavators, JCB, scrapers, loaders, Diesel Pump, etc.)	Hydraulic excavators, JCB, loaders
3.	Whether it includes blasting?	Yes
4.	Details of Authorized Blasting Agency	Not Applicable

	with date of validity certificate	
5.	Procedure / SOP (in brief)	Drilling- 3-6 meter Planting of Blasting Material- Geleting and Connecting in a circuit with detonator Blasting
6.	Details of Blasting Parameters in brief	❖The diameter of holes used in all the blasts will be 100 mm. ❖The depth of blast holes generally will be 6 m. ❖The total number of holes in a blasting round will be varying from 5 to 50. ❖Burden and spacing values in all the blasts will be depend on depth and diameter of holes. ❖The ground Vibration recorded in all the blasts near the residential/domestic and industrial structures were within safe limit as per DGMS circular 7 of 1997. ❖No fly rock will be observed in any controlled blasting. The throws of the blasted materials will be also control and restrict within the blasting areas only. ❖Before blasting the upper surface of the bench shall be cleaned off any stones lying above. ❖The control of fly rock will achieve through proper blast design patterns along with their proper implementation and supervision of the total blasting operations. Blasting shall be done by using short delay detonator to reduce ground vibration and control blasting shall be practiced only in Day time
7.	Frequency of blasting	Once in a weak
8.	Impact of blasting	• Fire and Explosion and dust generation • Noise generation
9.	Outcome of Vibration study	We will be submitted with EIA report
10.	Blasting Activity Management Plan	❖ Blasting to be performed strictly as per the guidelines specified under MMR,1961; ❖ Proper design of blast with correct spacing, burden and optimum charge/delay; ❖ Supervision of drilling and blasting operations to ensure blast design geometry as per planning; ❖ Sub-drilling will be kept adequate to eliminate toe formation; ❖ Blasting operations will be carried out only during day time as per DGMS guidelines; ❖ Proper warning signals will be used; ❖ Adequate safe distance from habitation as per standards from center of blasting be maintained; ❖ Drilling parameters like burden, depth, diameter and spacing will be properly designed to ensure proper blast; Effective stemming of the explosives be done in the drill holes
11.	Use of any Chemical with quantity	1.A.N.F.O (A.N. 95%, F.O6%) 2.Special Gelatine
12.	Precautions taken for Human Safety in brief	❖ Suitable and properly maintained first-aid outfit should be kept at the mine for use in case of accident

<table>
<tr><td></td><td></td><td>❖ Safety equipment's like dust masks and ear muffs etc.
❖ Safety helmet where falling objects may create a hazard shall be provided.
❖ Health camps shall be arranged for local villagers and workers.</td></tr>
<tr><td>13.</td><td>Crusher provided? If Yes, Measures taken for Air Pollution Control</td><td>Nil</td></tr>
<tr><td>14.</td><td>Compliance of DGMS Guidelines for Blasting</td><td>
<table>
<tr><th>S. No.</th><th>DGMS Guideline for Blasting (As per MMR 1961)</th><th>Compliance</th></tr>
<tr><td>1</td><td>Blasting should be done only by the authorized blaster</td><td>Blasting will be done by the authorized blaster.</td></tr>
<tr><td>2</td><td>Blasting will be done in noon time</td><td>Blasting always done in noon time, when there will be no local farmer working in their fields.</td></tr>
<tr><td>3</td><td>Horn or whistle should be kept at side to blow before blasting</td><td>Horn will beequipped at themining site, will blow ½ hour beforeblasting</td></tr>
<tr><td>4</td><td>Blasting material like Nitrate mixture and gelatin should be kept separate and safely for security.</td><td>Mine holder will not store any type of blasting material or equipment ,blaster will take care of that.</td></tr>
<tr><td>5</td><td>Noise level should not exceed 145 DB at time of blasting at 4 meter distance from the point of bursting.</td><td>Only control blasting and wet drilling will be done . Which will comply this condition.</td></tr>
<tr><td>6.</td><td>A distance of 15 meters surrounding the magazine or store house shall be kept clear of dried grass or bash or flammable materials</td><td>Blaster will comply this.</td></tr>
<tr><td>7.</td><td>Where in any mine or part it is proposed to work by a system of deep-hole blasting and/or with the help of heavy machinery for its digging, excavation and</td><td>Will be comply</td></tr>
</table>
</td></tr>
</table>

				removal in such manner as would not permit of compliance with the requirement of sub-regulation (1) the owner, agent or manager shall, not less than 60 days before starting such work, give notice in writing of the method of working to the Chief Inspector and the Regional Inspector; and no such work shall be commenced to carried out except in accordance withaccordance with such conditions as the Chief Inspector may specify by an order in writing. Every such notice shall be in duplicate, and shall give the details of the method of working including the precautions that are proposed to be taken against the anger from falls of sides and material. (Rule no.106(2)(B)	
			8	Every magazine, or store or premises, where explosives are stored shall be inchargeofacompetentpersonwho shall be responsible for the proper receipt, storage an issue of explosives. **Rule no. 156 (1)**	Not any explosives and magazines will store at mining site.
			9	Explosives shall be issued only to competent persons upon written requisition signed by the blaster or by a official authorized for thepurpose, and only against their signature or thumb impression. Such requisitionshall be preserved by the person in charge of the magazine or store or premises. **(Rule no. 156 (3)**	Authorized Blaster will take care .
			10	The person in charge of the magazine or store or premises shall maintain, in a bound paged book kept for the purpose, a clear and accurate record of explosives issued to each competent person and a similar record of explosives returned to the magazine or store or premises. **Rule no. 156 (4)**	No Blasting material will store at the mining site.
			11	The preparation of charges an the charging and stemming of holes shall be carried out by or under the personal supervision of a competent person, in these	Will be comply

			regulations referred to as a 'blaster'. The blaster shall fire the shots himself. **Rule no. 160 (1)**	
		12	No person shall be appointed to be a blaster unless he is the holder of Manager's, Foreman's Mate's or Blaster's certificate. **Rule no. 160 (2)**	Lease owner will appoint a mining mate
		13	Provided further that if the shortest distance from the place of firing to any part of such building or structure is less than 50 meters irrespective of the amount of the charge, no blasting shall be done except with the permission in writing of the Chief Inspector or the Regional Inspector and subject to such conditions as he may specify therein. **Rule no. (164 (1-B)(a)**	Not any permanent residential or commercial infrastructure building is falling under 200 meter radius of the lease area.
15.	Compliance of Sustainable Sand Mine Guidelines published by MoEFCC in 2016	Not Applicable		
16.	WhetherReplenishment Rate Study is approved by District Geologist? If yes, conclude in brief	Not applicable		

D. Details of Green Belt Development:

1.	a. Green belt developmentbudget	90,000 Rs
	b. Green belt area / location	At statuary barrier and approach road
	c. No. of trees to be planted	200
	d. Types of trees to be planted	Indigenous

E. Details of Environment Management Plan:

1.	**Details of EMP**	**Impact**	**Mitigation Measures**
	a. Land Environment	By the extraction of mineral from thelease area impactstochange the landpattern	Restoration of land environment will be done in such a manner that flora fauna and plantation will flourish and also the area can be used for water harvesting and agriculture purposes
	b. Water Environment	During rains water will precipitate within the Lease mine and in the vicinity. Water flows in its normal course. There will be no hindrance or sudden rush of water due to mining activities, which may lead to	**Surface Water Management** (i). Proper imitative measures will be taken up to control the pollutants within prescribed standards and limiting the emissions to site only. (ii). Garland drains will be provided to prevent the entry of rainwater into the mining pit.

			erosion of water At the 'conceptual stage' as area of a part of the Lease area will be converted into water reservoir which will serve as recharge pits. Besides, there will be no toxic element in the mined out material, which may contaminate ground/ surface water. It is, therefore apparent that there will be negligible impact of mining on the surface water regime. **Impact on Ground Water** The water table in this region is at a depth of 60-65 m below general ground level. Mining will be carried out above the ground water table. No chemical having toxic elements will be used for carrying out mining activity. Also, neither Building Stone nor overburden contains any kind of toxic element which can contaminate the water. Rainwater expected to be accumulated in the pit will be pumped out and will be discharged into storm water drains provided for the purpose which will join the natural surface water drains	**Ground Water Management** (i). Mining shall not intersect the ground water table of the area. (ii). Natural pits will be used for rainwater conservation and harvesting. (iii). Rain water harvesting practices shall be done which will lead to ground water recharge. (iv). At the end of the life of mine artificial water reservoir shall be prepared. **Water Conservation** The project does not consume any process water except for drinking, dust suppression and plantation. Plantation is proposed, which will increase the water holding capacity and help in recharging of ground water. Artificial rainwater harvesting is proposed for the present project	

			existing in the area. The mining pits will create water harvesting that will increase the water table.	
		c. Air Environment	1.Gaseous emission from vehicles and machineries used 2. Dust Pollution	❖ Proponent will Spend Rs 1,62,240per year for sprinkling to internal road, loading point all transfer points. ❖ Proponent will develop green belt around the lease area with Rs 50,000and will spend Rs 8000 per year for the maintenance and replenishment of the plants. ❖ Attached road shall be sprinkle with water daily to prevent fugitive emission during vehicular. Speed of vehicle will only restrict to the 20 km/hour on Kutcha road. ❖ Vehicles used in mines and transportation shall be maintained well to mitigate the fugitive emission.
		d. Noise Environment	Noise due to working through heavy machinery.	❖ Ear muffs will be used during high noise activity. Regular maintenance of machineries shall be done
		e. Biological Environment	Nil	Nil
		f. Human Environment		❖ Suitable and properly maintained first-aid outfit should be kept at the mine for use in case of accident ❖ Safety equipment's like dust masks and ear muffs etc. ❖ Health camps shall be arranged for local villagers and workers.
		g. Others		
	2.	Occupational health & safety measures as per DGMS	Nil	
	3.	Safety measures proposed		
		a. Is First Aid facility provided by PP?	yes	
		b. Details of PPEs	Safety helmet, Hand gloves Shoes etc.	
		c. Whether Registration of Workers underBuilding and other Construction Workers' (regulation of Employment & Conditions of Service) Act, 1996 and as Beneficiaries with the Gujarat Building and	Will be done after the agreement of the lease.	

	other Construction Workers Welfare Boards is obtained or not?	
	d. Insurance of Workers	Nil
	e. Health checkup plan of workers	Every six-monthly plan for Health management.

F. Transportation:

1.	No. of vehicles per day carrying Minerals	3-4No of Truck
2.	Fugitive dust emission control measures	Attached road with lease shall be sprinkle with water daily to prevent fugitive emission during vehicular. Speed of vehicle will only restrict to the 20 km/hour on Kutcha road
3.	Route plan in brief	Kachha road is about 695 m connected with local MDR Road, local MDR Road connected with SH-42

G. Financial details of the Project:

1.	Total cost of the project (Lakh)	4.09Cr.
	a. Upfront cost (Lakh)	
	b. Performance Security (Lakh)	
	c. Total Royalty (Lakh)	1.34 Cr
	d. Weigh Bridge Cost (Lakh)	Nil
	e. Labor cost equipment (Lakh)	Labor cost – 45.0 lac Equipment (Hitachi & Dumper)- 80 lac Drilling & blasting = 1.19 Cr
	f. Environment protection and implementation cost (Lakh)	13.11 lakh
	g. Green Belt Development & maintenance cost (Lakh)	0.90 lakh
	h. Cost of EMP (Lakh)	Nil
	i. Cost of Safety measures (Lakh)	Safety Cost= 5.00Lakh Fencing cost + LPS = 1.10 Lakh
	j. Cost of Post-Closure Mine Plan (Lakh)	11.15lac
2.	Budget allocated for CER (Lakh)	5.52lac
3.	Is need based survey for CER carried out? (Yes / No) If yes, give details of activities along with Budgetary Outlay	No

H. Restoration / Reclamation Plan:

1.	Restoration / Reclamation Details	❖ Restoration of land environment will be done in such a manner that flora fauna and plantation will flourish and also the area can be used for water harvesting and agriculture purposes.
2.	Post mining closure plan	• As per approved mining plan recovery of mineral is 90 % and 10 % waste will generate so about 29,996MT will be generated throughout the mining which will be used for back filling in the lease area • At the end Lessee will Develop Green belt in the statuary barrier area .and back filled area with the Desi Bavad,

			Imli, Ashoka, Gulmohar. • At the end of mine about 4 feet high boundary/Peripheral wall with barbed will be fenced around the water reservoir area. Water Reservoir will be used for water harvesting and agriculture purpose
	3.	Backfilling material and its quantity	Waste or sub-grade generated from mine.
	4.	Size of void for Rain Water Harvesting after backfilling	00.62.00 Hect
	5.	Post Closure Liability / Safety aspects and Measures to be taken to avoid wild life and human accidents/ causalities	III. Will be fenced around the water reservoir area. IV. 7.5-meter-thick green belt will be developed around the statuary barrier. V. Slop of 45 degree will be maintained in the pit.
	6.	Display of Caution Boards at strategic locations on the periphery of the pit area	yes
	7.	Final Use of reservoir/ reclaimed land	Water Harvesting
I.	**Details of Legal Action / Court Case:**		
	1.	Details of Pending Court matter / Public Litigation Cases in any court of Law	No
	2.	Details of Action taken by GPCB, if any	No
	3.	Details of public complaint, if any	No
	4.	Compliance of EC by RO-GPCB or MoEFCC-Bhopal	No

Deliberation:

Shri Vinaykumar from M/s. Cognizance Research India Private Ltd. remained present in the meeting on behalf of PP and he has sent an Authorization letter for same. Committee deliberated on method of mining, rate of mining, no. of working hours and workers, no. of leases in the cluster and its lease area etc. Committee also deliberated on the location of the lease w.r.t. Environmental Sensitivities and found as per the criteria prescribed by CPCB. Committee noted that the mining involves blasting and it is a Semi-mechanized mining. During the presentation, Environmental Management Plan, Restoration / reclamation plan, CER activities and its budget, green belt development etc. was discussed.

After screening and scoping for the aforementioned proposal, committee decided to consider the proposal under B1 category & Hon'ble National Green Tribunal Order dated 13 September 2018 in view. It was decided to recommend TOR approved by SEIAA on 07/03/2019 for **Non Sand Mining with Blasting** for conducting the EIA study to be done for cluster situation evaluating cumulative impact of the mining leases in cluster considering 10 Km radius from the periphery of the mine lease area including public hearing including project specific TOR as per **Annexure III.**

16. BENTONITE MINING, DIST : KUTCH

Application No	Name of Project	S.No.	Village	Taluka	Dist	Lease Area	Validity of lease	ROM	Nearest Human Habitation	End Use	Investment in Rs	Date of Application Received by SEAC
SIA/GJ/MIN/61550/2021	Shri Ramjibhai Punjabhai Sanghar	156 Paiki QL No-12990	Raydhanjar	Abdasa	Kutch	2.83.19 Ha	LoI issued on 06.02.2017 for 10 years	61751 MTPA	Raydhanjar – 287 m	Cement Industry	5.34 Crore	07.04.2021

The project falls under B1 Category – 1(a), i.e. Mining of Minerals as per the provision of EIA Notification, 2006. Project Proponent has applied to obtain Terms of Reference (TOR) for mining of Sand Stone.

A. Basic Information of the Project:

1.	Name of Project as per Form I	Shri Ramjibhai Punjabhai Sanghar
2.	Address of the lease	Village:Raydhanjar Taluka:Abdasa, District:Kutch State: Gujarat
3.	Name of lease holder	Shri Ramjibhai Punjabhai Sanghar
4.	Lease area (Ha)	2.83.19 Ha.
5.	Cluster Details	
	a. Total no. of leases in the cluster	16
	b. No. of TOR granted in cluster	Not applicable
	c. No. of EC granted in cluster	Not applicable
	d. Total area of the cluster	47.32.27 Ha.
	e. Maximum individual lease area	10.00.00 Ha.
	f. Minimum individual lease area	00.60.70Ha.
6.	Validity of lease with the date of expiry	10 Years from the date of LOI Issued.
7.	Rate of Mining (MT/Annum)	30,000
8.	Details of EC obtained (for expansion projects), if any	Nil
9.	Name of River Bed	Not applicable
10.	Is the river perennial / non-perennial?	Not applicable
11.	Lease area (submerged / in stream / on dry river bed)	Not applicable
12.	All coordinates of the lease area as per Approved Mining Plan	Pillars / Latitude / Longitude 1 / 23° 06'30.2"N / 69°06'50.7"E 2 / 23° 06'32.7"N / 69°06'59.5"E 3 / 23° 06'32.9"N / 69°07'01.3"E 4 / 23° 06'29.1"N / 69°07'00.1"E
13.	Manpower requirement	10
14.	Applicability of CRZ Notification	Not applicable
15.	Minimum Setback distance proposed to be	Not applicable

	maintained from River Bed (m)	
16.	Minimum buffer distance from bridge piers / water intake wells / irrigation structures	National Highway Bridge- 9.28 Km
17.	Maximum depth of sand removal (3 m or water depth whichever is less)	Not Applicable
18.	Width of Riverbed (m)	Not Applicable
19.	Average depth of water at lease area (m)	50-60 m
20.	Depth of mining (m)	18 m
21.	Ground Water Table in meter BGL	50- 60 m
22.	Does ground water interfere approach road exit? (Yes / No) If yes, status report of CGWA	No
23.	Distance between lease and main road	261 M
24.	Length of kaccha road (m)	261 m
25.	Length of pacca road (m)	Nil
26.	Plan for making pacca road	No
27.	Source of fresh water	Drinking water will be Purchase from nearby water suppliers. And for the dust suppression and plantation will be Purchase from nearby tanker suppliers
28.	Water requirement (KLPD)	Total –3.62KLD
	a. Domestic	0.58 KLD
	b. Dust suppression	0.78 KLD
	c. Gardening / Green belt development	2.26 KLD
	d. others	-
29.	Whether the Undertaking is submitted for identical information provided in Form I, Approved Mining Plan, Project Details validated by District Geologist, Pre-Feasibility Report, Lease Document, Environment Management Plan and other documents	No

B. Environmental Sensitivities:

Sr No.	**Environmental Sensitivities**	**Actual Distance**	**Minimum Distance**	**Reference**
1.	Residential	Raydhanjar – 287 M	100 m (Blasting is not involved)	As per CPCB Distance Criteria And order of of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020
	Public buildings	Primary school- 408 M		
	Inhabited sites	Nil		
	Protected monuments,	Paureshwar Temples- 33.90 Km		
	Heritage sites	Mata No Madh – 50.81 Km		
	National / State Highway	SH 91- 8.64 Km NH 8A/41- 9.56 Km		
	District roads	982 M		
	Public roads	982 M		

	Railway line / area	8.17 Km		
	Ropeway or Ropeway trestle or station	Naliya Railway station- 27.38 Km		
	Bridges	National Highway Bridge- 9.28 Km		
	Dams	Dam- 6.65 Km		
	Reservoirs	6.90 Km		
	River	Kankavati River 4.73 Km		
	Canal	17.60 Km		
	Lakes	Nil		
	Tanks	Nil		
2.	Eco-Sensitive Zone (if notified)	Distance of Bustard wildlife Sanctuary Eco Sensitive zone is About 7.56 Km	>1 km / outside the notified Eco-Sensitive Zone	Vide directives of MOEF&CC dtd 16.07.2020
3.	Eco-Sensitive Zone (if not notified)	Not Applicable	>1 km and <10 km = Prior Clearance from NBWL is required	Vide directives of MOEF&CC dtd 16.07.2020
4.	Distance of Coastal line from the site	22.82 Km	>500 M from HTL	Amended CRZ Notification 2011

C. Details of Mining:

1.	Method of Mining (Manual / Semi-mechanized / Mechanized).	Semi-mechanized
2.	Equipment's to be used for Mining bulldozers, hydraulic excavators, JCB, scrapers, loaders, Diesel Pump, etc.)	Hydraulic excavators, loaders
3.	Whether it includes blasting?	Not Applicable
4.	Details of Authorized Blasting Agency with date of validity certificate	Not Applicable
5.	Procedure / SOP (in brief)	Not Applicable
6.	Details of Blasting Parameters in brief	Not Applicable
7.	Frequency of blasting	Not Applicable
8.	Impact of blasting	Not Applicable
9.	Outcome of Vibration study	Not Applicable
10.	Blasting Activity Management Plan	Not Applicable
11.	Use of any Chemical with quantity	Not Applicable
12.	Precautions taken for Human Safety in brief	Not Applicable

13.	Crusher provided? If Yes, Measures taken for Air Pollution Control	Not Applicable
14.	Compliance of DGMS Guidelines for Blasting	Not Applicable
15.	Compliance of Sustainable Sand Mine Guidelines published by MoEFCC in 2016	Not Applicable
16.	WhetherReplenishment Rate Study is approved by District Geologist? If yes, conclude in brief	No

D. Details of Green Belt Development:

1.	a. Green belt developmentbudget	Rs. 70,750
	b. Green belt area / location	Along the statuary barrier and at approach road
	c. No. of trees to be planted	283
	d. Types of trees to be planted	Indigenous, Charu, Khakhara

E. Details of Environment Management Plan:

1.	**Details of EMP**	**Impact**	**Mitigation Measures**
	a. Land Environment	By the extraction of mineral from the lease area impacts to change the land pattern	Restoration of land environment will be done by developing as a Grass land and remaining pit area will be developed as water reservoir by maintaining a slope of 45 degree and fencing around the water reservoir area. .
	b. Water Environment	Pollution of surface run off. Depletion of ground water table.	❖ Ground water table is about 50- 60 meter. ❖ Mining will be done till depth of 18 meters from general ground level. ❖ Mining shall not intersect ground table. Domestic wastewater shall be disposed of through septic tank- soak pit
	c. Air Environment	1.Gaseous emission from vehicles and machineries used 2. Dust Pollution	❖ Proponent will Spend Rs 60,840per year for sprinkling to internal road, loading point all transfer points. ❖ Proponent will develop green belt around the lease area with Rs 70,750 and will spend Rs 9000 per year for the maintenance and replenishment of the plants. ❖ Attached road shall be sprinkle with water daily to prevent fugitive emission during vehicular. Speed of vehicle will only restrict to the 20 km/hour on Kutcha road. ❖ Vehicles used in mines and transportation shall be

			maintained well to mitigate the fugitive emission.
	d. Noise Environment	Noise due to working through heavy machinery.	❖ Ear muffs will be used during high noise activity. Regular maintenance of machineries shall be done
	e. Biological Environment	Nil	Nil
	f. Human Environment		❖ Suitable and properly maintained first-aid outfit should be kept at the mine for use in case of accident ❖ Safety equipment's like dust masks and ear muffs etc. ❖ Health camps shall be arranged for local villagers and workers.
	g. Others		
2.	Occupational health & safety measures as per DGMS	Nil	
3.	Safety measures proposed		
	a. Is First Aid facility provided by PP?	yes	
	b. Details of PPEs	Safety helmet, Hand gloves Shoes etc.	
	c. Whether Registration of Workers underBuilding and other Construction Workers' (regulation of Employment & Conditions of Service) Act, 1996 and as Beneficiaries with the Gujarat Building and other Construction Workers Welfare Boards is obtained or not?	Will be done after the agreement of the lease.	
	d. Insurance of Workers	Nil	
	e. Health checkup plan of workers	Every six-monthly plan for Health management.	

F. Transportation:

1.	No. of vehicles per day carrying Minerals	1-2
2.	Fugitive dust emission control measures	Attached road with lease shall be sprinkle with water daily to prevent fugitive emission during vehicular. Speed of vehicle will only restrict to the 20 km/hour on Kutcha road
3.	Route plan in brief	Kachha road is 261M about connected with metallic roadMiyani to local MDR road connected with SH - 91.

G. Financial details of the Project:

1.	Total cost of the project (Lakh)	5.34Cr
	a. Upfront cost (Lakh)	Nil
	b. Performance Security (Lakh)	Nil
	c. Total Royalty (Lakh)	3.78 Cr
	d. Weigh Bridge Cost (Lakh)	8.0 Lakh
	e. Labor cost equipment (Lakh)	Labor cost- 45 lakh Equipment- 78 Lakh
	f. Environment protection and implementation cost (Lakh)	8.04 lakh
	g. Green Belt Development & maintenance cost (Lakh)	1.15 lakh
	h. Cost of EMP (Lakh)	----
	i. Cost of Safety measures (Lakh)	5.0 lakh
	j. Cost of Post-Closure Mine Plan (Lakh)	10.80 Lakh
2.	Budget allocated for CER (Lakh)	2.98 lakh
3.	Is need based survey for CER carried out? (Yes / No) If yes, give details of activities along with Budgetary Outlay	NO

H. Restoration / Reclamation Plan:

1.	Restoration / Reclamation Details	Restoration of land environment will be done in such a manner that flora fauna and plantation will flourish and also the area can be used for water harvesting and agriculture purposes.
2.	Post mining closure plan	• As per approved mining plan recovery of mineral is 80 % and 15 % rejected will generate so about51552MT will be generated throughout the mining which will be used for back filling in the bench space. • At the end Lessee will Develop Green belt in the statuary barrier area .and back filled area with the Desi Bavad, Imli, Ashoka, Gulmohar. • At the end of mine about 4 feet high boundary/Peripheral wall with barbed will be fenced around the water reservoir area. Water Reservoir will be used for water harvesting and agriculture purpose
3.	Backfilling material and its quantity	Waste or sub-grade generated from mine.17184 MT
4.	Size of void for Rain Water Harvesting after backfilling	2.00.17 Ha.
5.	Post Closure Liability / Safety aspects and Measures to be taken to avoid wild life and human accidents/ causalities	VI. Will be fenced around the water reservoir area. VII. 7.5-meter-thick green belt will be developed around the statuary barrier. Slop of 45 degree will be maintained in the pit.
6.	Display of Caution Boards at strategic locations on the periphery of the pit area	yes
7.	Final Use of reservoir/ reclaimed land	Water Harvesting

I.	Details of Legal Action / Court Case:		
	1.	Details of Pending Court matter / Public Litigation Cases in any court of Law	No
	2.	Details of Action taken by GPCB, if any	No
	3.	Details of public complaint, if any	No
	4.	Compliance of EC by RO-GPCB or MoEFCC-Bhopal	No

Deliberation:

Shri Vinaykumar from M/s. Cognizance Research India Private Ltd. remained present in the meeting on behalf of PP and he has sent an Authorization letter for same. Committee deliberated on method of mining, rate of mining, no. of working hours and workers, no. of leases in the cluster and its lease area etc. Committee also deliberated on the location of the lease w.r.t. Environmental Sensitivities and found as per the criteria prescribed by CPCB. Committee noted that the mining does not involve blasting and it is a Semi-mechanized open cast mining. During the presentation, Environmental Management Plan, Restoration / reclamation plan, CER activities and its budget, green belt development etc. was discussed.

After scoping for the aforementioned proposal, committee decided to consider the proposal under B1 category keeping cluster situation & Hon'ble National Green Tribunal Order dated 13 September 2018 in view, It was decided to recommend TOR approved by SEIAA on 07/03/2019 for **Non sand mining without blasting** for conducting the EIA study to be done for the proposals in cluster considering 10 Km radius from the periphery of the mine lease area including public hearing including additional TOR to SEIAA as per **Annexure – I**.

17. BENTONITE MINING, DIST : KUTCH

Application No	Name of Project	S.No.	Village	Taluka	Dist	Lease Area	Validity of lease	ROM	Nearest Human Habitation	End Use	Investment in Rs	Date of Application Received by SEAC
SIA/GJ/MIN/61049/2021	M/s. Shree Koteshwar Mines & Minerals	183 Paiki, QL No-9521	Hamla	Mandvi	Kutch	1.80.00 Ha	LoI issued on 10.09.2015 for 10 years	1,50,000 MTPA	Hamla – 1.01 km	Cement Industry	6.01 Crore	06.04.2021

The project falls under B1 Category – 1(a), i.e. Mining of Minerals as per the provision of EIA Notification, 2006. Project Proponent has applied to obtain Terms of Reference (TOR) for mining of Bentonite.

A. Basic Information of the Project:

1.	Name of Project as per Form I	M/s Shree Koteshwar Mines & Minerals
2.	Address of the lease	Village:Hamla Taluka: Mandvi, District:Kutch State: Gujarat
3.	Name of lease holder	M/s Shree Koteshwar Mines & Minerals
4.	Lease area (Ha)	1.80.00 Ha.
5.	Cluster Details	
	a. Total no. of leases in the cluster	61
	b. No. of TOR granted in cluster	Not applicable
	c. No. of EC granted in cluster	Not applicable
	d. Total area of the cluster	121.62.08 Ha.
	e. Maximum individual lease area	4.90.00 Ha.
	f. Minimum individual lease area	00.26.34Ha.
6.	Validity of lease with the date of expiry	10 Years from the date of LOI Issued.
7.	Rate of Mining (MT/Annum)	1,50,000
8.	Details of EC obtained (for expansion projects), if any	Nil
9.	Name of River Bed	Not applicable
10.	Is the river perennial / non-perennial?	Not applicable
11.	Lease area (submerged / in stream / on dry river bed)	Not applicable
12.	All coordinates of the lease area as per Approved Mining Plan	Pillars / Latitude / Longitude 1 / N23° 01' 00.7" / E69° 18' 27.8" 2 / N23° 01' 00.5" / E69° 18' 22.1" 3 / N23° 00' 57.3" / E69° 18' 21.9" 4 / N23° 00' 56.6" / E69° 18' 27.7"
13.	Manpower requirement	10
14.	Applicability of CRZ Notification	Not applicable
15.	Minimum Setback distance proposed to be maintained from River Bed (m)	Not applicable
16.	Minimum buffer distance from bridge piers / water intake wells / irrigation structures	Village road Bridge- 3.37 Km
17.	Maximum depth of sand removal (3 m or water depth whichever is less)	Not Applicable
18.	Width of Riverbed (m)	Not Applicable
19.	Average depth of water at lease area (m)	50- 60 M
20.	Depth of mining (m)	18 m
21.	Ground Water Table in meter BGL	50- 60 m
22.	Does ground water interfere approach road exit? (Yes / No) If yes, status report of CGWA	No
23.	Distance between lease and main road	984 M
24.	Length of kaccha road (m)	409 m
25.	Length of pacca road (m)	575
26.	Plan for making pacca road	No
27.	Source of fresh water	Drinking water will be Purchase from nearby water suppliers. And for the dust suppression and plantation will be Purchase from nearby tanker suppliers
28.	Water requirement (KLPD)	Total –3.9KLD

	a. Domestic	0.51 KLD
	b. Dust suppression	1.95 KLD
	c. Gardening / Green belt development	1.44KLD
	d. others	-
29.	Whether the Undertaking is submitted for identical information provided in Form I, Approved Mining Plan, Project Details validated by District Geologist, Pre-Feasibility Report, Lease Document, Environment Management Plan and other documents	No

B. Environmental Sensitivities:

Sr No.	Environmental Sensitivities	Actual Distance	Minimum Distance	Reference
1.	Residential	Hamla – 1.01 Km	100 m (Blasting is not involved)	As per CPCB Distance Criteria And order of of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020
	Public buildings	Primary school Hamla- 1.12 Km		
	Inhabited sites	Nil		
	Protected monuments,	Lakheshwar Shiva Temple- 30.37 Km		
	Heritage sites	Vijay Vilas Palace – 20.24 Km		
	National / State Highway	SH 47- 14.75 Km NH 8A/41- 15.61 Km		
	District roads	984 M		
	Public roads	984 M		
	Railway line / area	22.96 Km		
	Ropeway or Ropeway trestle or station	Deshalpar Railway station- 24.29 Km		
	Bridges	Village road Bridge- 3.37 Km		
	Dams	Dam- 15.06 Km		
	Reservoirs	15.10 Km		
	River	Seasonal River 733 M		
	Canal	14.67 Km		
	Lakes	Nil		

	Tanks	Nil		
2.	Eco-Sensitive Zone (if notified)	Distance of Bustard wildlife Sanctuary Eco Sensitive zone is About 29.83 Km	>1 km / outside the notified Eco-Sensitive Zone	Vide directives of MOEF&CC dtd 16.07.2020
3.	Eco-Sensitive Zone (if not notified)	Not Applicable	>1 km and <10 km = Prior Clearance from NBWL is required	Vide directives of MOEF&CC dtd 16.07.2020
4.	Distance of Coastal line from the site	20.89 Km	>500 M from HTL	Amended CRZ Notification 2011

C. Details of Mining:

1.	Method of Mining (Manual / Semi-mechanized / Mechanized).	Semi-mechanized
2.	Equipment's to be used for Mining bulldozers, hydraulic excavators, JCB, scrapers, loaders, Diesel Pump, etc.)	Hydraulic excavators, loaders
3.	Whether it includes blasting?	Not Applicable
4.	Details of Authorized Blasting Agency with date of validity certificate	Not Applicable
5.	Procedure / SOP (in brief)	Not Applicable
6.	Details of Blasting Parameters in brief	Not Applicable
7.	Frequency of blasting	Not Applicable
8.	Impact of blasting	Not Applicable
9.	Outcome of Vibration study	Not Applicable
10.	Blasting Activity Management Plan	Not Applicable
11.	Use of any Chemical with quantity	Not Applicable
12.	Precautions taken for Human Safety in brief	Not Applicable
13.	Crusher provided? If Yes, Measures taken for Air Pollution Control	Not Applicable
14.	Compliance of DGMS Guidelines for Blasting	Not Applicable
15.	Compliance of Sustainable Sand Mine Guidelines published by MoEFCC in 2016	Not Applicable
16.	WhetherReplenishment Rate Study is approved by District Geologist? If yes, conclude in brief	No

D. Details of Green Belt Development:

1.	a. Green belt developmentbudget	
	b. Green belt area / location	Along the statuary barrier and at approach road
	c. No. of trees to be planted	180
	d. Types of trees to be planted	Indigenous, Charu, Khakhara

E. Details of Environment Management Plan:

1.	**Details of EMP**	**Impact**	**Mitigation Measures**

		a. Land Environment	By the extraction of mineral from the lease area impacts to change the land pattern	Restoration of land environment will be done by developing as a Grass land and remaining pit area will be developed as water reservoir by maintaining a slope of 45 degree and fencing around the water reservoir area. .	
		b. Water Environment	Pollution of surface run off. Depletion of ground water table.	❖ Ground water table is about 50- 60 meter. ❖ Mining will be done till depth of 18 meters from general ground level. ❖ Mining shall not intersect ground table. Domestic wastewater shall be disposed of through septic tank- soak pit	
		c. Air Environment	1.Gaseous emission from vehicles and machineries used 2. Dust Pollution	❖ Proponent will Spend Rs 1,52,100per year for sprinkling to internal road, loading point all transfer points. ❖ Proponent will develop green belt around the lease area with Rs 45,000 and will spend Rs 8000 per year for the maintenance and replenishment of the plants. ❖ Attached road shall be sprinkle with water daily to prevent fugitive emission during vehicular. Speed of vehicle will only restrict to the 20 km/hour on Kutcha road. ❖ Vehicles used in mines and transportation shall be maintained well to mitigate the fugitive emission.	
		d. Noise Environment	Noise due to working through heavy machinery.	❖ Ear muffs will be used during high noise activity. Regular maintenance of machineries shall be done	
		e. Biological Environment	Nil	Nil	
		f. Human Environment		❖ Suitable and properly maintained first-aid outfit should be kept at the mine for use in case of accident ❖ Safety equipment's like dust masks and ear muffs etc. ❖ Health camps shall be arranged for local villagers and workers.	

	g. Others		
2.	Occupational health & safety measures as per DGMS	Nil	
3.	Safety measures proposed		
	a. Is First Aid facility provided by PP?	yes	
	b. Details of PPEs	Safety helmet, Hand gloves Shoes etc.	
	c. Whether Registration of Workers underBuilding and other Construction Workers' (regulation of Employment & Conditions of Service) Act, 1996 and as Beneficiaries with the Gujarat Building and other Construction Workers Welfare Boards is obtained or not?	Will be done after the agreement of the lease.	
	d. Insurance of Workers	Nil	
	e. Health checkup plan of workers	Every six-monthly plan for Health management.	

F. Transportation:

1.	No. of vehicles per day carrying Minerals	1-2
2.	Fugitive dust emission control measures	Attached road with lease shall be sprinkle with water daily to prevent fugitive emission during vehicular. Speed of vehicle will only restrict to the 20 km/hour on Kutcha road
3.	Route plan in brief	Kachha road is 483M about connected with metallic roadMiyani to local MDR road connected with National Highway-41/8A.

G. Financial details of the Project:

1.	Total cost of the project (Lakh)	6.01Cr
	a. Upfront cost (Lakh)	Nil
	b. Performance Security (Lakh)	Nil
	c. Total Royalty (Lakh)	4.42 Cr
	d. Weigh Bridge Cost (Lakh)	8.0 Lakh
	e. Labor cost equipment (Lakh)	Labor cost- 45 lakh Equipment- 78 Lakh
	f. Environment protection and implementation cost (Lakh)	12.60 lakh
	g. Green Belt Development & maintenance cost (Lakh)	0.85 lakh
	h. Cost of EMP (Lakh)	----
	i. Cost of Safety measures (Lakh)	5.0 lakh
	j. Cost of Post-Closure Mine Plan (Lakh)	9.87 Lakh
2.	Budget allocated for CER (Lakh)	3.04 lakh
3.	Is need based survey for CER carried out? (Yes / No)	NO

		If yes, give details of activities along with Budgetary Outlay	

H. Restoration / Reclamation Plan:

1.	Restoration / Reclamation Details	Restoration of land environment will be done in such a manner that flora fauna and plantation will flourish and also the area can be used for water harvesting and agriculture purposes.
2.	Post mining closure plan	• As per approved mining plan recovery of mineral is 80 % and 15 % rejected will generate so about60,376MT will be generated throughout the mining which will be used for back filling in the bench space. • At the end Lessee will Develop Green belt in the statuary barrier area .and back filled area with the Desi Bavad, Imli, Ashoka, Gulmohar. • At the end of mine about 4 feet high boundary/Peripheral wall with barbed will be fenced around the water reservoir area. Water Reservoir will be used for water harvesting and agriculture purpose
3.	Backfilling material and its quantity	Waste or sub-grade generated from mine.20,127 MT
4.	Size of void for Rain Water Harvesting after backfilling	1.25.84 Ha.
5.	Post Closure Liability / Safety aspects and Measures to be taken to avoid wild life and human accidents/ causalities	VIII. Will be fenced around the water reservoir area. IX. 7.5-meter-thick green belt will be developed around the statuary barrier. Slop of 45 degree will be maintained in the pit.
6.	Display of Caution Boards at strategic locations on the periphery of the pit area	yes
7.	Final Use of reservoir/ reclaimed land	Water Harvesting

I. Details of Legal Action / Court Case:

1.	Details of Pending Court matter / Public Litigation Cases in any court of Law	No
2.	Details of Action taken by GPCB, if any	No
3.	Details of public complaint, if any	No
4.	Compliance of EC by RO-GPCB or MoEFCC-Bhopal	No

Deliberation:

Shri Vinaykumar from M/s. Cognizance Research India Private Ltd. remained present in the meeting on behalf of PP and he has sent an Authorization letter for same. Committee deliberated on method of mining, rate of mining, no. of working hours and workers, no. of leases in the cluster and its lease area etc. Committee also deliberated on the location of the lease w.r.t. Environmental Sensitivities and found as per the criteria prescribed by CPCB. Committee noted that the mining does not involve blasting

and it is a Semi-mechanized open cast mining. During the presentation, Environmental Management Plan, Restoration / reclamation plan, CER activities and its budget, green belt development etc. was discussed.

After scoping for the aforementioned proposal, committee decided to consider the proposal under B1 category keeping cluster situation & Hon'ble National Green Tribunal Order dated 13 September 2018 in view, It was decided to recommend TOR approved by SEIAA on 07/03/2019 for **Non sand mining without blasting** for conducting the EIA study to be done for the proposals in cluster considering 10 Km radius from the periphery of the mine lease area including public hearing including additional TOR to SEIAA as per **Annexure – I**.

18. BENTONITE MINING, DIST : KUTCH

Application No	Name of Project	S.No.	Village	Taluka	Dist	Lease Area	Validity of lease	ROM	Nearest Human Habitation	End Use	Investment in Rs	Date of Application Received by SEAC
SIA/GJ/MIN/61250/2021	Shri Raviraj sinh Navalsi nh Jadeja	54 Paiki, QL No-17803 Pvt. land	Nagrecha	Mandvi	Kutch	2.20.55 Ha	Lease agreement letter dated 09.10.2018, valid for 10 years	1,04,035 MTPA	Nagrecha – 963 m	Cement Industry	5.98 Crore	06.04.2021 New project

The project falls under B1 Category – 1(a), i.e. Mining of Minerals as per the provision of EIA Notification, 2006. Project Proponent has applied to obtain Terms of Reference (TOR) for mining of Bentonite.

A. Basic Information of the Project:

1.	Name of Project as per Form I	Shri RavirajsinhNavalsinh Jadeja
2.	Address of the lease	Village:Nagrecha Taluka: Mandvi District:Kutch State: Gujarat
3.	Name of lease holder	Shri RavirajsinhNavalsinh Jadeja
4.	Lease area (Ha)	2.20.55 Ha.
5.	Cluster Details	
	a. Total no. of leases in the cluster	3
	b. No. of TOR granted in cluster	Not applicable
	c. No. of EC granted in cluster	Not applicable
	d. Total area of the cluster	6.65.25 Ha.
	e. Maximum individual lease area	2.91.10 Ha.

<table>
<tr><td></td><td>f. Minimum individual lease area</td><td>1.53.60Ha.</td></tr>
<tr><td>6.</td><td>Validity of lease with the date of expiry</td><td>10 Years from the date of LOI Issued.</td></tr>
<tr><td>7.</td><td>Rate of Mining (MT/Annum)</td><td>1,04,035</td></tr>
<tr><td>8.</td><td>Details of EC obtained (for expansion projects), if any</td><td>Nil</td></tr>
<tr><td>9.</td><td>Name of River Bed</td><td>Not applicable</td></tr>
<tr><td>10.</td><td>Is the river perennial / non-perennial?</td><td>Not applicable</td></tr>
<tr><td>11.</td><td>Lease area (submerged / in stream / on dry river bed)</td><td>Not applicable</td></tr>
<tr><td>12.</td><td>All coordinates of the lease area as per Approved Mining Plan</td><td>
<table>
<tr><th>Pillars</th><th>Latitude</th><th>Longitude</th></tr>
<tr><td>1</td><td>23° 1'49.55"N</td><td>69°13'6.66"E</td></tr>
<tr><td>2</td><td>23° 1'48.70"N</td><td>69°13'7.12"E</td></tr>
<tr><td>3</td><td>23° 1'49.90"N</td><td>69°13'8.21"E</td></tr>
<tr><td>4</td><td>23° 1'50.88"N</td><td>69°13'8.18"E</td></tr>
<tr><td>5</td><td>23° 1'50.61"N</td><td>69°13'11.79"E</td></tr>
<tr><td>6</td><td>23° 1'50.29"N</td><td>69°13'11.86"E</td></tr>
<tr><td>7</td><td>23° 1'47.26"N</td><td>69°13'10.91"E</td></tr>
<tr><td>8</td><td>23° 1'47.10"N</td><td>69°13'10.00"E</td></tr>
<tr><td>9</td><td>23° 1'46.06"N</td><td>69°13'9.92"E</td></tr>
<tr><td>10</td><td>23° 1'45.12"N</td><td>69°13'9.85"E</td></tr>
<tr><td>11</td><td>23° 1'44.86"N</td><td>69°13'8.34"E</td></tr>
<tr><td>12</td><td>23° 1'45.80"N</td><td>69°13'7.50"E</td></tr>
<tr><td>13</td><td>23° 1'45.71"N</td><td>69°13'6.69"E</td></tr>
</table>
</td></tr>
<tr><td>13.</td><td>Manpower requirement</td><td>10</td></tr>
<tr><td>14.</td><td>Applicability of CRZ Notification</td><td>Not applicable</td></tr>
<tr><td>15.</td><td>Minimum Setback distance proposed to be maintained from River Bed (m)</td><td>Not applicable</td></tr>
<tr><td>16.</td><td>Minimum buffer distance from bridge piers / water intake wells / irrigation structures</td><td>Village road Bridge- 971 M</td></tr>
<tr><td>17.</td><td>Maximum depth of sand removal (3 m or water depth whichever is less)</td><td>Not Applicable</td></tr>
<tr><td>18.</td><td>Width of Riverbed (m)</td><td>Not Applicable</td></tr>
<tr><td>19.</td><td>Average depth of water at lease area (m)</td><td>30-35 m</td></tr>
<tr><td>20.</td><td>Depth of mining (m)</td><td>12 m</td></tr>
<tr><td>21.</td><td>Ground Water Table in meter BGL</td><td>30-35 m</td></tr>
<tr><td>22.</td><td>Does ground water interfere approach road exit? (Yes / No)
If yes, status report of CGWA</td><td>No</td></tr>
<tr><td>23.</td><td>Distance between lease and main road</td><td>690 M</td></tr>
<tr><td>24.</td><td>Length of kaccha road (m)</td><td>690 m</td></tr>
<tr><td>25.</td><td>Length of pacca road (m)</td><td>Nil</td></tr>
<tr><td>26.</td><td>Plan for making pacca road</td><td>No</td></tr>
<tr><td>27.</td><td>Source of fresh water</td><td>Drinking water will be Purchase from nearby water suppliers. And for the dust
suppression and plantation will be Purchase from nearby tanker suppliers</td></tr>
<tr><td rowspan="5">28.</td><td>Water requirement (KLPD)</td><td>Total –4.38KLD</td></tr>
<tr><td>a. Domestic</td><td>0.55 KLD</td></tr>
<tr><td>b. Dust suppression</td><td>2.07 KLD</td></tr>
<tr><td>c. Gardening / Green belt development</td><td>1.76 KLD</td></tr>
<tr><td>d. others</td><td>-</td></tr>
<tr><td>29.</td><td>Whether the Undertaking is submitted for identical information provided in Form I, Approved Mining Plan, Project Details validated</td><td>No</td></tr>
</table>

	by District Geologist, Pre-Feasibility Report, Lease Document, Environment Management Plan and other documents	

B. Environmental Sensitivities:

Sr No.	Environmental Sensitivities	Actual Distance	Minimum Distance	Reference
1.	Residential	Nagrecha – 963 M	100 m (Blasting is not involved)	As per CPCB Distance Criteria And order of of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020
	Public buildings	Primary school- 992 M		
	Inhabited sites	Nil		
	Protected monuments,	Lakheshwar, Shiva Temple- 38.83 Km		
	Heritage sites	Vijay Vilas Palace – 22.61 Km		
	National / State Highway	SH 47- 23.81 Km NH 8A/41- 10.61 Km		
	District roads	636 M		
	Public roads	636 M		
	Railway line / area	20.00 Km		
	Ropeway or Ropeway trestle or station	Deshalpar Railway station- 29.07 Km		
	Bridges	Village road Bridge- 971 M		
	Dams	Dam- 24.09 Km		
	Reservoirs	24.15 Km		
	River	Seasonal River- 28 M		
	Canal	13.90 Km		
	Lakes	Nil		
	Tanks	Nil		
2.	Eco-Sensitive Zone (if notified)	Distance of Bustard wildlife Sanctuary Eco Sensitive zone is About 21.24 Km	>1 km / outside the notified Eco-Sensitive Zone	Vide directives of MOEF&CC dtd 16.07.2020

3.	Eco-Sensitive Zone (if not notified)	Not Applicable	>1 km and <10 km = Prior Clearance from NBWL is required	Vide directives of MOEF&CC dtd 16.07.2020
4.	Distance of Coastal line from the site	22.96 Km	>500 M from HTL	Amended CRZ Notification 2011

C. Details of Mining:

1.	Method of Mining (Manual / Semi-mechanized / Mechanized).	Semi-mechanized
2.	Equipment's to be used for Mining bulldozers, hydraulic excavators, JCB, scrapers, loaders, Diesel Pump, etc.)	Hydraulic excavators, loaders
3.	Whether it includes blasting?	Not Applicable
4.	Details of Authorized Blasting Agency with date of validity certificate	Not Applicable
5.	Procedure / SOP (in brief)	Not Applicable
6.	Details of Blasting Parameters in brief	Not Applicable
7.	Frequency of blasting	Not Applicable
8.	Impact of blasting	Not Applicable
9.	Outcome of Vibration study	Not Applicable
10.	Blasting Activity Management Plan	Not Applicable
11.	Use of any Chemical with quantity	Not Applicable
12.	Precautions taken for Human Safety in brief	Not Applicable
13.	Crusher provided? If Yes, Measures taken for Air Pollution Control	Not Applicable
14.	Compliance of DGMS Guidelines for Blasting	Not Applicable
15.	Compliance of Sustainable Sand Mine Guidelines published by MoEFCC in 2016	Not Applicable
16.	WhetherReplenishment Rate Study is approved by District Geologist? If yes, conclude in brief	No

D. Details of Green Belt Development:

1.	a. Green belt developmentbudget	Rs. 97,750
	b. Green belt area / location	Alng the statuary barrier and at approach road
	c. No. of trees to be planted	221
	d. Types of trees to be planted	Indigenous,Charu, Khakhara

E. Details of Environment Management Plan:

1.	**Details of EMP**	**Impact**	**Mitigation Measures**

		a. Land Environment	By the extraction of mineral from the lease area impacts to change the land pattern	Restoration of land environment will be done by developing as a Grass land and remaining pit area will be developed as water reservoir by maintaining a slope of 45 degree and fencing around the water reservoir area. .	
		b. Water Environment	Pollution of surface run off. Depletion of ground water table.	❖ Ground water table is about 30-35meter. ❖ Mining will be done till depth of 18 meters from general ground level. ❖ Mining shall not intersect ground table. Domestic wastewater shall be disposed of through septic tank- soak pit	
		c. Air Environment	1.Gaseous emission from vehicles and machineries used 2. Dust Pollution	❖ Proponent will Spend Rs 1,61,460per year for sprinkling to internal road, loading point all transfer points. ❖ Proponent will develop green belt around the lease area with Rs 55,250 and will spend Rs 8500 per year for the maintenance and replenishment of the plants. ❖ Attached road shall be sprinkle with water daily to prevent fugitive emission during vehicular. Speed of vehicle will only restrict to the 20 km/hour on Kutcha road. ❖ Vehicles used in mines and transportation shall be maintained well to mitigate the fugitive emission.	
		d. Noise Environment	Noise due to working through heavy machinery.	❖ Ear muffs will be used during high noise activity. Regular maintenance of machineries shall be done	
		e. Biological Environment	Nil	Nil	
		f. Human Environment		❖ Suitable and properly maintained first-aid outfit should be kept at the mine for use in case of accident ❖ Safety equipment's like dust masks and ear muffs etc. ❖ Health camps shall be arranged for local villagers and workers.	

	g. Others		
2.	Occupational health & safety measures as per DGMS	Nil	
3.	Safety measures proposed		
	a. Is First Aid facility provided by PP?	yes	
	b. Details of PPEs	Safety helmet, Hand gloves Shoes etc.	
	c. Whether Registration of Workers underBuilding and other Construction Workers' (regulation of Employment & Conditions of Service) Act, 1996 and as Beneficiaries with the Gujarat Building and other Construction Workers Welfare Boards is obtained or not?	Will be done after the agreement of the lease.	
	d. Insurance of Workers	Nil	
	e. Health checkup plan of workers	Every six-monthly plan for Health management.	

F. Transportation:

1.	No. of vehicles per day carrying Minerals	1-2
2.	Fugitive dust emission control measures	Attached road with lease shall be sprinkle with water daily to prevent fugitive emission during vehicular. Speed of vehicle will only restrict to the 20 km/hour on Kutcha road
3.	Route plan in brief	Kachha road is 690M about connected with metallic roadMiyani to local MDR road connected with State Highway-47.

G. Financial details of the Project:

1.	Total cost of the project (Lakh)	5.98Cr
	a. Upfront cost (Lakh)	Nil
	b. Performance Security (Lakh)	Nil
	c. Total Royalty (Lakh)	4.37 Cr
	d. Weigh Bridge Cost (Lakh)	8.0 Lakh
	e. Labor cost equipment (Lakh)	Labor cost- 45 lakh Equipment- 78 Lakh
	f. Environment protection and implementation cost (Lakh)	13.07 lakh
	g. Green Belt Development & maintenance cost (Lakh)	0.97 lakh
	h. Cost of EMP (Lakh)	----
	i. Cost of Safety measures (Lakh)	5.0 lakh
	j. Cost of Post-Closure Mine Plan (Lakh)	11.35 Lakh
2.	Budget allocated for CER (Lakh)	3.09 lakh
3.	Is need based survey for CER carried out? (Yes / No)	NO

		If yes, give details of activities along with Budgetary Outlay	

H. Restoration / Reclamation Plan:

1.	Restoration / Reclamation Details	Restoration of land environment will be done in such a manner that flora fauna and plantation will flourish and also the area can be used for water harvesting and agriculture purposes.
2.	Post mining closure plan	• As per approved mining plan recovery of mineral is 80 % and 15 % rejected will generate so about47,497MT will be generated throughout the mining which will be used for back filling in the bench space. • At the end Lessee will Develop Green belt in the statuary barrier area .and back filled area with the Desi Bavad, Imli, Ashoka, Gulmohar. • At the end of mine about 4 feet high boundary/Peripheral wall with barbed will be fenced around the water reservoir area. Water Reservoir will be used for water harvesting and agriculture purpose
3.	Backfilling material and its quantity	Waste or sub-grade generated from mine.15,832 MT
4.	Size of void for Rain Water Harvesting after backfilling	0.69.10 Ha.
5.	Post Closure Liability / Safety aspects and Measures to be taken to avoid wild life and human accidents/ causalities	X. Will be fenced around the water reservoir area. XI. 7.5-meter-thick green belt will be developed around the statuary barrier. Slop of 45 degree will be maintained in the pit.
6.	Display of Caution Boards at strategic locations on the periphery of the pit area	yes
7.	Final Use of reservoir/ reclaimed land	Water Harvesting

I. Details of Legal Action / Court Case:

1.	Details of Pending Court matter / Public Litigation Cases in any court of Law	No
2.	Details of Action taken by GPCB, if any	No
3.	Details of public complaint, if any	No
4.	Compliance of EC by RO-GPCB or MoEFCC-Bhopal	No

Deliberation:

Shri Vinaykumar from M/s. Cognizance Research India Private Ltd. remained present in the meeting on behalf of PP and he has sent an Authorization letter for same. Committee deliberated on method of mining, rate of mining, no. of working hours and workers, no. of leases in the cluster and its lease area etc. Committee noted that the mining does not involve blasting and it is a Semi-mechanized open cast mining. During

the presentation, Environmental Management Plan, Restoration / reclamation plan, CER activities and its budget, green belt development etc. was discussed.

While deliberating on the distance of Environmental Sensitivities from the lease, Committee noted that the lease is located at the distance of 28 m from the river. Committee deliberated on the Distance Criteria of CPCB and order of Hon'ble NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020, as per which, the distance of lease shall be 100 m (minimum) from the River. As the location of the lease is not satisfying the distance criteria, Committee unanimously decided to reject the proposal.

ADDITIONAL DETAILS SOUGHT:

19. RIVERBED SAND MINING, DIST : NARMADA

Application No	Name of Project	S.No.	Village	Taluka	Dist	Lease Area	Validity of lease	River	ROM	Nearest Human Habitation	End Use	Investment in Rs	Date of Application Received by SEAC
SIA/GJ/MIN/57413/2020	ShriChandubhai BhanabhaiVasava	Survey No 457 in front of Narmada River bed (Rundh Ordinary Sand Block 01)	Rundh	Nandod	Narmada	2.22.00 Ha	LoI issued on 13.06.2019 for 5 years New Project	Narmada	37886 MTPA	Junarundh – 1 km	Construction	30 Lakh	28.10.2020 ADS on 21.01.2021

On **30.12.2020**, PP was asked to submit following details:

a. Committee asked the PP to submit photographs of pre-monsoon as well as post-monsoon season preferably for months of February, May, November, December.

On **19.01.2021**, PP has submitted photographs of different seasons showing the lease area is not submerged.

During SEAC meeting dated **21.01.2021**, Committee noted that the lease area is in dry river bed as per the photographs shown by the PP. However, the Committee felt that

the area seems unapproachable from the main road. Hence, PP was asked to submit **the details of Approach Road.**

On 03.04.2021, PP has submitted the reply with the photograph (satellite image) showing the approach road from the lease area.

During SEAC meeting dated **05.05.2021**, Shri Vinaykumar from M/s. Cognizance Research India Private Ltd. Presented the reply submitted, which was found satisfactory by the Committee.

Considering the reply satisfactory and after scoping for the aforementioned proposal, committee decided to consider the proposal under B1 category & Hon'ble National Green Tribunal Order dated 13 September 2018 in view. It was decided to recommend TOR approved by SEIAA on 07/03/2019 for **river bed sand mining** for conducting the EIA study to be done for cluster situation evaluating cumulative impact of the mining leases in cluster considering 10 Km radius from the periphery of the mine lease area including public hearing including project **specific TOR as Annexure – II.**

20. BLACK TRAP MINING, DIST : VADODARA

Application No	Name of Project	S.No.	Village	Taluka	Dist	Lease Area	Validity of lease	ROM	Nearest Human Habitation	End Use	Investment in Rs	Date of Application Received by SEAC
SIA/GJ/MIN/39662/2020	M/s. B R Patel Quarry Works	258, 260 to 262	Varsada	Desar	Vadodara	7.82.18 Ha	LoI dated 13.10.1998, renewal application made under GMMCR 2017 on 22.02.2018 for 10 years	1,62,002 MTPA	Varsada – 0.85	Construction	132.74 Lacs	08.09.2020 ADS on 21.01.2021

On **21.01.2021**, PP was asked to submit following details:

a. Detailed production since grant of lease validated by the district geologist representing month wise production taken for the each year till the current month

b. Revised details of environmental sensitivities surrounding to the lease with corrected distance of lease from river

On 04.02.2021, PP has submitted reply as below:

a. PP has submitted production details from 2011-12 to 2020-21 validated by District Geologist, Vadodara vide letter no. GV/AKD-Gen/211, dated 11.01.2021, which is as below:

S. N.	Year	Production, MTPA
1.	2011-12	148115.11
2.	2012-13	165217.4
3.	2013-14	91920.15
4.	2014-15	151589.38
5.	2015-16	130683.84
6.	2016-17	21792.33
7.	2017-18	48549.865
8.	2018-19	46979.956
9.	2019-20	50243.4
10.	2020-21	40487.18
TOTAL		**895578.611**

b. PP has replied that the actual distance of the lease from River Mahi is 30 m**.**

During SEAC meeting dated **05.05.2021**, the reply was considered and Shri Mayank Patel presented the reply before the Committee. Committee noted that the production continued till 2020-21. While deliberating on the distance of Environmental Sensitivities from the lease, Committee noted that the lease is located at the distance of 30 m from the river. Committee deliberated on the Distance Criteria of CPCB and order of Hon'ble NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd. 30.09.2020, as per which, the distance of lease shall be 200 m (minimum) from the River for Non-Sand Mining with blasting projects. As the location of the lease is not satisfying the distance criteria, Committee unanimously decided to reject the proposal.

21. ORDINARY SAND MINING, DIST : VADODARA

Application No	Name of Project	S.No.	Village	Taluka	Dist	Lease Area	Validity of lease	River	ROM	Nearest Human Habitation	End Use	Investment in Rs	Date of Application Received by SEAC
SIA/GJ/MIN/56807/2020	Jayantibhai Hirabhai Prajapati	Narmada River Bed paiki opp. Sr. no. 6 to 8	Deroli	Karjan	Vadodara	06.81.24 Ha	-	Narmada	2,10,000 MTPA	Deroli village – 0.45 km	Construction	188.54 Lakh	04.11.2020 ADS on 06.01.2021

On **06.01.2021**, PP was asked to submit following details:

a. To submit Google Earth images of the lease area for last 5 years for all seasons with date and time so as to verify the status of submergence of the lease area during these seasons.

On **16.02.2021**, PP has submitted Google Earth images dated 15.04.2020, 20.12.2019, 19.04.2017, 23.10.2016, 30.04.2016, 06.03.2016, 28.11.2014, 27.04.2013, 15.03.2013, 15.04.2020 and stated that there is 4.28.89 Ha lease area is submerged in the river and they are ready to reduce the submerged area. PP has applied to obtain revised LoI for reduced lease area.

During SEAC meeting dated **05.05.2021**, the reply submitted by PP was considered. Shri Mayank Patel presented the reply before the Committee. Committee deliberated on Satellite images shown by the PP and found the lease area submerged in River water of Narmada. Committee referred order of Hon'ble National Green Tribunal dated 30/05/2017 in the O.A. NO 78/2015 (CZ) and noted clause No 18 of the order as below:

> *"In light of the above the issue as to whether sand mining can be permitted within the 'submergence' area as contented by the Applicant we are of the view that the issue stands answered with the provisions having been on the principal of precautionary approach as well as sustainable development in the guideline of 2016 extract of which quoted hereinabove. Alternatively, since in the order of the Hon'ble High Court dated 21.07.2015 the term used is "Environment issue arising out of carrying our mining activities particularly of sand in 'submerged area' is concerned the Sustainable Sand Mining Guidelines 2016 clearly prohibit any instream mining and*

further that rivers sand mining can be carried out only upto a depth of 3 meters / till water level is reached whichever is less. Therefore, clearly in accordance with the guidelines which was required to be considered as the guiding factor before EC or consent can be granted ***no river sand mining can be carried out in any area nowithstanding the same being part of the leased area in case it is 'submerged' or lies within the submerged area."***

Hence, in view of the above, Committee unanimously decided to recommend the proposal for rejection.

22. ORDINARY SAND MINING, DIST : VADODARA

Application No	Name of Project	S.No.	Village	Taluka	Dist	Lease Area	Validity of lease	River	ROM	Nearest Human Habitation	End Use	Investment in Rs	Date of Application Received by SEAC
SIA/GJ/MIN/56798/2020	JigneshbhaiJayantibhaiPrajapa ti	Narmada Riverbed paiki opp. Sr. No. 280 to 302 New Project	Delvada	Karjan	Vadodara	9.49.46 Ha	-	Narmada	2,75,000 MTPA	Somaj – 0.72 km	Construction	246.38 Lakh	04.11.2020 ADS on 06.01.2021

On **06.01.2021**, PP was asked to submit following details:

a. To submit Google Earth images of the lease area for last 5 years for all seasons (except monsoon season) with date and time so as to verify the status of submergence of the lease area during these seasons.

On **16.02.2021**, PP has submitted Google Earth images dated 15.04.2020, 10.10.2019, 21.05.2017, 19.04.2017, 30.10.2016, 23.10.2016, 25.02.2016, 05.12.2015, 28.11.2014, 16.05.2013 and 15.03.2013.

During SEAC meeting dated **05.05.2021**, the reply was considered. Shri Mayank Patel presented the reply before the Committee and Committee found the lease area in dry riverbed. Hence, the reply was found satisfactory.

Considering the reply satisfactory and after scoping for the aforementioned proposal, committee decided to consider the proposal under B1 category & Hon'ble National Green Tribunal Order dated 13 September 2018 in view. It was decided to recommend TOR approved by SEIAA on 07/03/2019 for **river bed sand mining** for conducting the EIA study to be done for cluster situation evaluating cumulative impact of the mining leases in cluster considering 10 Km radius from the periphery of the mine lease area including public hearing including project **specific TOR as Annexure – II.**

23. ORDINARY SAND MINING, DIST : VADODARA

Application No	Name of Project	S.No.	Village	Taluka	Dist	Lease Area	Validity of lease	River	ROM	Nearest Human Habitation	End Use	Investment in Rs	Date of Application Received by SEAC
SIA/GJ/MIN/56794/2020	JigneshbhaiJayantibhaiPrajapati	NarmadaRiverbedpaiki opp. Sr. No. 167 & 168	Ranapur	Karjan	Vadodara	3.72.04 Ha	-	Narmada	120000 MTPA	Ranapur – 0.61 km	Construction	109.45 Lakh	04.11.2020 ADS on 06.01.2021

On **06.01.2021**, PP was asked to submit following details:

a. To submit Google Earth images of the lease area for last 5 years for all seasons (except monsoon season) with date and time so as to verify the status of submergence of the lease area during these seasons.

On **16.02.2021**, PP has submitted Google Earth images dated 15.04.2020, 20.12.2019, 19.04.2017, 23.10.2016, 30.04.2016, 06.03.2016, 28.11.2014, 27.04.2013 and 15.03.2013.

During SEAC meeting dated **05.05.2021**, the reply was considered. Shri Mayank Patel presented the reply before the Committee and Committee found the lease area in dry riverbed. Hence, the reply was found satisfactory.

Considering the reply satisfactory and after scoping for the aforementioned proposal, committee decided to consider the proposal under B1 category & Hon'ble National Green Tribunal Order dated 13 September 2018 in view. It was decided to recommend TOR approved by SEIAA on 07/03/2019 for **river bed sand mining** for conducting the

EIA study to be done for cluster situation evaluating cumulative impact of the mining leases in cluster considering 10 Km radius from the periphery of the mine lease area including public hearing including project **specific TOR as <u>Annexure – II</u>.**

24. BLACK TRAP MINING, DIST : SURAT

Application No	Name of Project	S.No.	Village	Taluka	Dist	Lease Area	Validity of lease	River	ROM	Nearest Human Habitation	End Use	Investment in Rs	Date of Application Received by SEAC
SIA/GJ/MIN/41973/2020	HetalbhaiDhirubhai Garasiya (Khanjroli Black Trap Block A)	Tapi river Bed, Opp S NO 9	Khanjroli	Mandvi	Surat	3.86 Ha	-	Tapi	111554 MTPA	Khanjroli – 530 m	Construction	15.06 Lakh	09.11.2019 ADS on 05.02.2021

The proposal was considered in the SEAC meeting dated **27.11.2019** and TOR was recommended to SEIAA. During the SEIAA meeting dated **11.12.2019**, the proposal was referred back for the following reason:

a. To verify the details of location of proposed lease with respect to instream mining and its impact on water body

On **02.02.2021**, PP submitted the detailed study report of “Technical Report of Study of Impact of Black Trap Mining Project in Khanjroli”, prepared by Indian Seismological Research (ISR), Gandhinagar. Referring to the report submitted by the PP, it was noted by the committee that ‘the study recommends the mining activity in the proposed lease site after following all the points outlined in the mine plan. It is further mentioned that there will be no adverse impact on the river morphology and river stability. Owing to the hard rock substrate and lack of any soil cover, negligible flora and fauna exists at the lease site. However, the sides of the river (cliffs), which are outside the mine lease, have vegetation, which will not be disturbed, if all the mining protocols are followed. The formation of a green belt on the over burden removed from the site, as proposed in the mine plan, will aid in enhancing/supporting the flora and fauna in the surrounding region. The river is shallow with limited depth and is quite broad, which on account of

mining in central part will form a storage pit for water, which can be used, after monsoon period, by the surrounding agricultural activities for additional benefit.'

On **05.02.2021**, Committee deliberated on the query raised by SEIAA and the report of ISR submitted by the PP. Committee felt that the report of ISR is not satisfactory addressing issues pertaining to the impact on river environment for mining of black trap including possibilities of flood, river stability, flood risk, environmental degradation, decline in bio diversity, change/alteration in river morphology. Further, looking to the location of proposed lease area, it is not clarified whether the lease is submerged in the river or not. It was noted by the Committee that the proposal was earlier delisted by SEAC on 20.02.2020 and hence unanimously decided not to relist the proposal until further satisfactory submission.

On **07.04.2021,** PP has submitted the letter of ISR which states that, 'the lease site falls outside the active river stream and not submerged in water during pre-monsoon and post monsoon period. Committee also deliberated on comments of ISR regarding the impact of mining on river stability and flood risk, environmental degradation and decline in biodiversity, changes in river morphology.

During SEAC meeting dated **05.05.2021**, Shri Mayank Patel presented the reply before the Committee and Committee found the reply satisfactory.

Considering the reply satisfactory, after screening and scoping for the aforementioned proposal, committee decided to consider the proposal under B1 category & Hon'ble National Green Tribunal Order dated 13 September 2018 in view. It was decided to recommend TOR approved by SEIAA on 07/03/2019 for **Non Sand Mining with Blasting** for conducting the EIA study to be done for cluster situation evaluating cumulative impact of the mining leases in cluster considering 10 Km radius from the periphery of the mine lease area including public hearing including TOR as per **Annexure III** and project specific TOR as below:

- Detailed study report by recognized institution of National repute to assess impact of mining in river bed on physical characteristics like river stability, food risk, environmental degradation, loss of habitat, decline in bio diversity, change / alteration in river morphology and other associated environmental aspects shall be included in EIA study.

25. WHITE CLAY / CHINA CLAY MINING, DIST : KUTCH – B1 APPRAISAL

Application No	Name of Project	S.No.	Village	Taluka	Dist	Lease Area	Validity of lease	ROM	Nearest Human Habitation	End Use	Investment in Rs	Date of Application Received by

												SEAC
SIA/GJ/MIN/58454/2019	Danabhai Veljibhai Ahir	Private Sr. No. 323 /2	Mamuara	Bhuj	Kutch	1.1937 ha	LoI issued on 18.01 .2019 for 30 years	60001 MTPA	Mamuara – 1.49 km	Ceramic Industry	50 Lakh	16.12.2020 ADS on 21.01.2021

During SEAC meeting dated **21.01.2021**, PP was asked to submit following details:

a. PP was asked to carry out the study through NIOH for Silicosis from the DMF Fund
b. During the deliberation of TOR #41, i.e. Benefits of the project if the project is implemented should be spelt out. The benefits of the project shall clearly indicate environmental, social, economic, employment potential etc., Committee observed that in the EIA report, social, economic, employment potential is not covered.

On **25.02.2021**, PP has submitted revised EIA report along with replies of queries as below:

a. The study as recommended by committee cannot be carried out by P.P., because the allocation of amount from DMF is monitored by D.M./District Collector. Hence, P.P. requested through Shree Kachchh China Clay Association to D.M to conduct the study as recommended by committee. P.P. shall submit the study report to committee whenever it will be carried out and declared by D.M. However, on the basis of report of PHC Dhaneti, it was found that not a single case of silicosis has been appeared or registered in nearby area of the cluster mines. The copy of request letter to D.M. to conduct the study and the verification certificate of PHC Dhaneti is included in revised EIA report.
b. PP has submitted reply as below:

❖ **Benefits from the project are:**

- Improvements In Physical Infrastructure
- Improvements In Social Infrastructure
- Employment Potential Direct Employment (109 Persons in cluster mines), 13 for this project.

❖ **Physical Infrastructure and Environmental Benefits:**

- Improvement in Road Conditions
- Mine Pit shall be converted into Rain Water Harvesting Pit to augment the water availability for irrigation and plantation. The total area 18.3855 ha of land shall be converted into water reservoir having capacity of 343626 cum of water holding capacity. This shall contribute ground water recharge of the area

Particulars	Mine 1	Mine 2	Mine 3	Mine 4	Mine 5	Mine 6	Mine 7	Mine 8	Cluster
Pit converted to water reservoir	1.3949	0.5160	0.6869	00	2.3461	1.967	1.9746	9.5000	**18.3855**
Water capacity (in cum)	**112021**	**98926**	**69081**	**00**	**469220**	**3540060**	**51318**	**2280000**	**3434626**

- **As per the MoEF& CC dated 16 Jan 2020, *"the mining lease holder shall, after ceasing mining operation, undertake re-grassing the mining area or any other area which may have been distributed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc.***

Particulars	Mine 1	Mine 2	Mine 3	Mine 4	Mine 5	Mine 6	Mine 7	Mine 8	Cluster
Plantation on backfilled area	**2.3079**	**0.0630**	**0.1988**	**00**	**1.4499**	**0.94**	**0.4425**	**0.033**	**5.4351**
Green belt on Safety Zone	**0.425**	**0.2304**	**0.3080**	**00**	**0.704**	**1.593**	**0.6129**	**1.7179**	**5.5912**

❖ Social Infrastructure

- Positive impact on socio-economic aspects due to new employment opportunities, increased economic activities, better living standard, educational facility, health facility and infrastructural development.
- For better development of social infrastructure lessee pledges for contribution in the form of CER as per MoEF&CC O.M. dated 1st May 2018 which is 2% of the total project cost

Proposed CER for M/s. Danabhai Veljibhai Ahir							
S. N.	**Activity**	**1st year**	**2nd year**	**3rd year**	**4th year**	**5th year**	**Total for Five Years**
	Skill Development	0.05	0.05	0.05	0.05		0.20
	Road Development	0.1	0.05	0.05	0.05	0.05	0.30
	Farmer Awareness	0.04	0.04	0.04	0.04	0.04	0.12
	Plantation in Community areas	0.1	0.1	0.1	0.04	0.04	0.38
	Total						**1 lakh**

Proposed CER for Cluster

Mine	Project proponent	Khasra no/survey no	Area (ha)	Project Cost	CER 2% of Project Cost
1	M/s Ashapura Minechem Ltd. Shri Prakash Kantilal Gor	483	4.1278	2 Crores	4 lakh
2	Shri Chetan N Shah.	483	0.8094	45 lakh	0.8 lakh
3	Shri Danabhai Veljibhai Ahir	323/2 Paiky P-2	1.1937	50 lakh	1 lakh
4	Kanjibhai Rupabhai Jatiya(No Data)	246 Paiky	1.6489	Closed	0
5	Sri Harilal Valaji Chhanga	483 Paiky	4.5000	2.5 Crores	5 lakh
6	Late Laxman Valaji Chhanga	483 Paiky	4.5000	2.5 Crores	5 lakh
7	Shri Mohanbhai Valajibhai Chhanga	322	3.0300	1.5 Crores	3 lakhs
8	Shri Satishbhai Valajibhai Chhanga	483	11.3009	5.5 Crores	11 lakhs
	Total			14.95 Crores	29.8 Lakhs

- **Improvements in Employment Potential:**

  - 109 Persons in cluster mines are given direct employment and out of them 90 % are from local villages.
  - Living standard of area is improved.

- **Need basis Analysis in addition to above was also carried**:

Near by Village	Amenities needed	Cost
Mamuara Govt. High School	Board (41units) Computer (1 unit) Fan (5 units) Water Tanker (1 unit) Godrej Closet for books (2 units)	80,000
Mamuara Gram Panchayat	Chair (10 units) Godrej Closet (1 unit.) Water for Plantation	60,000
Dagala Kumar Primary School	Smart Projector, Green Board (3unit) Printer (3unit) Computer (5unit) Sound System (1 unit) Fan (8 unit) Water Tanker (2 unit) Closet for Liberary (1 unit) Carpet (10 units)	1,00,000
Dagala Primery Girls School	Smart Projector, Green Board (5unit) Printer (1unit) Computer (5unit) R.O (1 unit) Sports equipment (1 unit) Wall Closet (10 units) Experimental School Equipment	1,00,000

Nadapa Gram Panchayat	Repair of Windows Chair No. (10 units) Godrej Closet No. (10 Units) Public Toilet Cost For plantation and its developement	60,000
Nadapa Panchayat Primery School	Table (3 Units) Black Board (1 Unit) Liberary Closet (2 Units) Bench Desk (30 units)	50,000
Dagala Gram Panchayat	Plantation development Computer (2 Units) Chair (15 Units) Closet (3 Units)	1,30,000
Total		**5,80,000**

During SEAC meeting dated **05.05.2021**, Shri Bhanjibhai Solanki presented the reply before the Committee and found satisfactory by the Committee.

Considering the reply satisfactory, after appraisal, considering the anticipated impacts of mining, mitigation measures proposed by the lease holder, committee unanimously decided to recommend the above proposal for grant of environmental clearance to SEIAA, subject to the strict implementation of conditions mentioned for **Non-Sand mining without blasting** for the project approved by SEAC on 09/08/2017 and by SEIAA on 16/09/2017 with specific conditions as per **Annexure – V**.

26. ORDINARY SAND MINING, DIST : GANDHINAGAR

Application No	Name of Project	S.No.	Village	Taluka	Dist	Lease Area	Validity of lease	River	ROM	Nearest Human Habitation	End Use	Investment in Rs	Date of Application Received by SEAC
PMIN - 391	Vaghela Amarsinh Jujarsinh	1 ne lagu Sabarmati nadi patt paik y Govt . Land	Lekavada	Gandhinagar	Gandhinagar	1.70.00 Ha	New lease and LOI granted vide No. MBHUGA/QL/Reti/280/2760 dated 02.11.2	Sabarmati	45,220 MTPA	Lekavada – 1.14 km	Construction	55.93 Lakh	03.12.2020 ADS on 21.01.2021

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On **21.01.2021**, PP was asked to submit following details:

a. To submit the Replenishment Rate Study Report for mining of Ordinary Sand

On 22.02.2021, PP has submitted Replenishment Rate Study report validated by District Geologist, Gandhinagar stating that the Replenishment is more than the planned annual production.

During SEAC meeting dated **05.05.2021**, Shri Bhanjibhai Solanki presented the reply before the Committee and the same was found satisfactory by the Committee.

Considering the reply satisfactory and the anticipated impacts of mining, mitigation measures proposed by the lease holder, committee unanimously decided to recommend the above proposal for grant of Environmental Clearance to SEIAA, subject to the strict implementation of conditions mentioned for **Sand Mining Project** approved by SEAC on 09/08/2017 and by SEIAA on 16/09/2017 with specific condition as per **Annexure – VI**.

27. CHINA CLAY MINING, DIST : KUTCH

Application No	Name of Project	S.No.	Village	Taluka	Dist	Lease Area	Validity of lease	ROM	Nearest Human Habitation	End Use	Investment in Rs	Date of Application Received by SEAC
SIA/GJ/MIN/43490/2019	Gopalbhai Rupabhai Gangal	Govt. Sr. No. 241 Paiky	Modsar	Bhuj	Kutch	2.00.00 Ha	Existing Lease vide Order No. MCR – 1584 (G-68) -6098 CHH Date 3/8/19 85 for 20 years and as per GMMCR - 2017 lease is extendable upto 31 st March 2030	9729 MTPA	Modsar 1.84 km	Construction	459.5 Lakh	08.09.2020 ADS on 23.10.2020

On **23.10.2020**, PP was asked to submit following details:

a. To submit detailed production since grant of lease validated by the district geologist representing month wise production taken for the each year till the current month

On **08.03.2021**, PP has submitted production details validated by District Geologist, Kutch vide letter no. Gkk/ML-518/962, dated 04.03.2021 as below:

Month	Production	Month	Production	Month	Production	Month	Production	Month	Production
Apr'00	770	Apr'04	350	Apr'08	8	Apr'12	0	Apr'16	0
May'00	600	May'04	150	May'08	9	May'12	0	May'16	0
Jun'00	840	Jun'04	640	Jun'08	0	Jun'12	0	Jun'16	0
Jul'00	600	Jul'04	90	Jul'08	15	Jul'12	50	Jul'16	0
Aug'00	800	Aug'04	162	Aug'08	0	Aug'12	0	Aug'16	0
Sep'00	1380	Sep'04	834	Sep'08	0	Sep'12	0	Sep'16	0
Oct'00	1470	Oct'04	1931	Oct'08	22	Oct'12	0	Oct'16	0
Nov'00	1460	Nov'04	1074	Nov'08	12	Nov'12	0	Nov'16	0
Dec'00	2350	Dec'04	548	Dec'08	0	Dec'12	0	Dec'16	0
Jan'01	1030	Jan'05	1943	Jan'09	2	Jan'13	15	Jan'17	0
Feb'01	0	Feb'05	2661	Feb'09	0	Feb'13	0	Feb'17	0
Mar'01	700	Mar'05	1662	Mar'09	0	Mar'13	0	Mar'17	0
Apr'01	500	Apr'05	1183	Apr'09	0	Apr'13	0	Apr'17	0
May'01	210	May'05	1660	May'09	2	May'13	50	May'17	0
Jun'01	210	Jun'05	2058	Jun'09	0	Jun'13	0	Jun'17	0
Jul'01	0	Jul'05	0	Jul'09	0	Jul'13	25	Jul'17	0
Aug'01	0	Aug'05	0	Aug'09	1	Aug'13	0	Aug'17	0
Sep'01	0	Sep'05	0	Sep'09	1	Sep'13	0	Sep'17	0
Oct'01	0	Oct'05	984	Oct'09	0	Oct'13	150	Oct'17	0
Nov'01	0	Nov'05	1245	Nov'09	0	Nov'13	0	Nov'17	0
Dec'01	0	Dec'05	2235	Dec'09	2	Dec'13	0	Dec'17	0
Jan'02	130	Jan'06	1122	Jan'10	0	Jan'14	0	Jan'18	0
Feb'02	510	Feb'06	1132	Feb'10	0	Feb'14	0	Feb'18	0
Mar'02	960	Mar'06	890	Mar'10	2	Mar'14	0	Mar'18	0
Apr'02	1030	Apr'06	1340	Apr'10	0	Apr'14	0	Apr'18	0
May'02	870	May'06	1350	May'10	0	May'14	0	May'18	0
Jun'02	930	Jun'06	625	Jun'10	4	Jun'14	0	Jun'18	0
Jul'02	650	Jul'06	1275	Jul'10	0	Jul'14	0	Jul'18	0
Aug'02	320	Aug'06	790	Aug'10	0	Aug'14	0	Aug'18	0
Sep'02	70	Sep'06	765	Sep'10	0	Sep'14	0	Sep'18	0
Oct'02	580	Oct'06	715	Oct'10	0	Oct'14	0	Oct'18	0
Nov'02	850	Nov'06	1716	Nov'10	0	Nov'14	0	Nov'18	0
Dec'02	750	Dec'06	6292	Dec'10	0	Dec'14	0	Dec'18	0
Jan'03	1200	Jan'07	12	Jan'11	15	Jan'15	0	Jan'19	0
Feb'03	1050	Feb'07	0	Feb'11	0	Feb'15	0	Feb'19	0
Mar'03	170	Mar'07	0	Mar'11	0	Mar'15	0	Mar'19	0
Apr'03	0	Apr'07	10	Apr'11	0	Apr'15	0	Apr'19	0
May'03	0	May'07	10	May'11	0	May'15	0	May'19	0
Jun'03	0	Jun'07	9	Jun'11	0	Jun'15	0	Jun'19	0
Jul'03	0	Jul'07	0	Jul'11	0	Jul'15	0	Jul'19	0
Aug'03	0	Aug'07	10	Aug'11	0	Aug'15	0	Aug'19	0
Sep'03	0	Sep'07	10	Sep'11	0	Sep'15	0	Sep'19	0

Month	Production	Month	Production	Month	Production	Month	Production	Month	Production
Oct'03	30	Oct'07	9	Oct'11	0	Oct'15	0	Oct'19	0
Nov'03	310	Nov'07	10	Nov'11	0	Nov'15	0	Nov'19	0
Dec'03	180	Dec'07	0	Dec'11	0	Dec'15	0	Dec'19	0
Jan'04	130	Jan'08	0	Jan'12	0	Jan'16	0	Jan'20	0
Feb'04	200	Feb'08	15	Feb'12	0	Feb'16	0	Feb'20	0
Mar'04	265	Mar'08	0	Mar'12	0	Mar'16	0	Mar'20	0

PP has submitted earlier acknowledgement slip of EC application made on 28.12.2015.

During SEAC meeting dated **05.05.2021**, Shri Bhanjibhai Solanki presented the reply before the Committee and the reply was considered and found satisfactory.

Committee referred the order of Honorable National Green Tribunal dtd.13.01.2015 in the O.A.No 123/2014 and M.A.419 of 2014, Himmat Singh Shekhawat v/s State of Rajasthan and order of Honorable National Green Tribunal dtd. 04.05.2016 in the O.A.No 34/2016, Naresh Zargar v/s of Madhya Pradesh and order of Honorable National Green Tribunal dtd. 30.06.2020 in the O.A. No 136/2017, Tamil Nadu Small Mine Owners Federation v/s Ministry of Environment Forest and Climate Change Government of India and unanimously decided that the proposal does not fall under TOR Violation as PP has applied to obtain EC in 2015 and not carried out production after March'16 as mentioned in production data validated by District Geologist.

After scoping for the aforementioned proposal, committee decided to consider the proposal under B1 category keeping cluster situation & Hon'ble National Green Tribunal Order dated 13 September 2018 in view, It was decided to recommend TOR approved by SEIAA on 07/03/2019 for **Non sand mining without blasting** for conducting the EIA study to be done for the proposals in cluster considering 10 Km radius from the periphery of the mine lease area including public hearing including additional TOR to SEIAA as per **Annexure – I**.

28. WHITE CLAY MINING, DIST : KUTCH

Application No	Name of Project	S.No.	Village	Taluka	Dist	Lease Area	Validity of lease	ROM	Nearest Human Habitation	End Use	Investment in Rs	Date of Application Received by SEAC
SIA/GJ/MIN/43446/2019	Jayeshkumar Shankarlal Jobanputra	Govt. wasteland having sr. no. 745 paiki	Dagala	Bhuj	Kutch	4.90.00 Ha	GMM CR – 2017, up to 31.03 .2030	1111 08TPA	Dagala – 2.57 km	For road and Building construction	818.03 Lakh	17.08.2020 ADS on 16.10.2020

On **16.10.2020**, PP was asked to submit following details:

a. To submit details of year-wise (Monthly) production from date of grant of lease till date

On **08.03.2021**, PP has submitted production details validated by District Geologist, Kutch vide letter no. Gkk/ML-1317/961, dated 04.03.2021 as below:

Month	Production	Month	Production	Month	Production	Month	Production	Month	Production
Apr'07	-	Apr'10	20	Apr'13	0	Apr'16	850	Apr'19	0
May'07	-	May'10	0	May'13	50	May'16	500	May'19	0
Jun'07	-	Jun'10	0	Jun'13	0	Jun'16	2560	Jun'19	450
Jul'07	-	Jul'10	0	Jul'13	0	Jul'16	1200	Jul'19	700
Aug'07	-	Aug'10	850	Aug'13	0	Aug'16	0	Aug'19	0
Sep'07	-	Sep'10	0	Sep'13	0	Sep'16	0	Sep'19	1200
Oct'07	0	Oct'10	0	Oct'13	150	Oct'16	0	Oct'19	0
Nov'07	0	Nov'10	0	Nov'13	0	Nov'16	0	Nov'19	250
Dec'07	0	Dec'10	150	Dec'13	0	Dec'16	0	Dec'19	0
Jan'08	0	Jan'11	0	Jan'14	0	Jan'17	0	Jan'20	0
Feb'08	0	Feb'11	0	Feb'14	150	Feb'17	0	Feb'20	0
Mar'08	0	Mar'11	890	Mar'14	0	Mar'17	0	Mar'20	0
Apr'08	0	Apr'11	1790	Apr'14	0	Apr'17	0	Apr'20	0
May'08	4	May'11	0	May'14	0	May'17	0	May'20	0
Jun'08	0	Jun'11	0	Jun'14	150	Jun'17	0	Jun'20	850
Jul'08	0	Jul'11	0	Jul'14	0	Jul'17	0	Jul'20	700
Aug'08	0	Aug'11	0	Aug'14	300	Aug'17	0	Aug'20	0
Sep'08	0	Sep'11	0	Sep'14	0	Sep'17	0	Sep'20	230
Oct'08	8	Oct'11	0	Oct'14	0	Oct'17	0	Oct'20	310
Nov'08	0	Nov'11	50	Nov'14	0	Nov'17	0	Nov'20	200
Dec'08	0	Dec'11	0	Dec'14	0	Dec'17	0	Dec'20	2050
Jan'09	0	Jan'12	300	Jan'15	0	Jan'18	0	Jan'21	800
Feb'09	0	Feb'12	0	Feb'15	0	Feb'18	0		
Mar'09	0	Mar'12	0	Mar'15	150	Mar'18	0		
Apr'09	3	Apr'12	0	Apr'15	0	Apr'18	1750		
May'09	0	May'12	0	May'15	1450	May'18	1950		
Jun'09	0	Jun'12	0	Jun'15	0	Jun'18	0		
Jul'09	950	Jul'12	0	Jul'15	0	Jul'18	0		
Aug'09	2200	Aug'12	50	Aug'15	0	Aug'18	500		
Sep'09	2450	Sep'12	0	Sep'15	950	Sep'18	750		
Oct'09	3300	Oct'12	0	Oct'15	500	Oct'18	220		
Nov'09	3905	Nov'12	0	Nov'15	0	Nov'18	150		
Dec'09	3780	Dec'12	0	Dec'15	1100	Dec'18	0		
Jan'10	3295	Jan'13	1000	Jan'16	0	Jan'19	0		
Feb'10	790	Feb'13	2500	Feb'16	650	Feb'19	600		
Mar'10	369	Mar'13	0	Mar'16	0	Mar'19	0		

During SEAC meeting dated **05.05.2021**, Shri Bhanjibhai Solanki presented the reply before the Committee and the reply was considered and found satisfactory.

Committee noted that the production was continued after 31.03.2016. Asking upon the earlier TOR/EC application, he has later on submitted acknowledgement slip of earlier application dated 10.02.2016, i.e. before 13.04.2018.

Referring to the order of Honorable National Green Tribunal dtd.13.01.2015 in the O.A.No. 123/2014 and M.A.419 of 2014, Himmat Singh Shekhawat v/s State of Rajasthan and order of Honorable National Green Tribunal dtd. 04.05.2016 in the O.A.No. 34/2016, Naresh Zargar v/s of Madhya Pradesh and order of Honorable National Green Tribunal dtd. 30.06.2020 in the O.A. No 136/2017, Tamil Nadu Small Mine Owners Federation v/s Ministry of Environment Forest and Climate Change Government of India, Committee noted that proposal falls under violation to EIA Notification 2006. It is also noted that PP has applied for EC on 10.02.2016. Hence, unanimously decided to recommend for **TOR under violation to EIA Notification 2006 as per Annexure IV and TOR for Non-Sand Mining without blasting as per Annexure – I.**

29. WHITE CLAY MINING, DIST : KUTCH

Application No	Name of Project	S.No.	Village	Taluka	Dist	Lease Area	Validity of lease	ROM	Nearest Human Habitation	End Use	Investment in Rs	Date of Application Received by SEAC
SIA/GJ/MIN/40017/2019	Sharadkumar Ganga ram Thakkar	Govt. sr. no. 74 5 pai ki	Dagala	Bhuj	Kutch	4.90.00 Ha	GMM CR – 2017 up to 31.03 .2030	1,11,108 MTPA	Dagala – 2.75 km	For road and Building constr uction	929.511 Lakh	17.08.2020 ADS on 16.10.2020

On **16.10.2020**, PP was asked to submit following details:

a. To submit details of year-wise (Monthly) production from date of grant of lease till date

On **08.03.2021**, PP has submitted production details validated by District Geologist, Kutch vide lettet no. Gkk/ML-1316/963, dated 04.03.2021 as below:

Month	Production	Month	Production	Month	Production	Month	Production	Month	Production
Apr'07	-	Apr'10	2427	Apr'13	0	Apr'16	1750	Apr'19	0
May'07	-	May'10	0	May'13	50	May'16	1560	May'19	0

Month	Production	Month	Production	Month	Production	Month	Production	Month	Production
Jun'07	-	Jun'10	0	Jun'13	800	Jun'16	800	Jun'19	300
Jul'07	-	Jul'10	10	Jul'13	1350	Jul'16	0	Jul'19	810
Aug'07	-	Aug'10	495	Aug'13	1850	Aug'16	4900	Aug'19	820
Sep'07	-	Sep'10	0	Sep'13	0	Sep'16	9500	Sep'19	0
Oct'07	0	Oct'10	0	Oct'13	150	Oct'16	8500	Oct'19	0
Nov'07	0	Nov'10	0	Nov'13	0	Nov'16	8500	Nov'19	0
Dec'07	0	Dec'10	255	Dec'13	0	Dec'16	6500	Dec'19	0
Jan'08	0	Jan'11	0	Jan'14	0	Jan'17	0	Jan'20	0
Feb'08	0	Feb'11	0	Feb'14	0	Feb'17	2200	Feb'20	0
Mar'08	0	Mar'11	995	Mar'14	0	Mar'17	1000	Mar'20	0
Apr'08	0	Apr'11	500	Apr'14	0	Apr'17	0	Apr'20	00
May'08	3	May'11	0	May'14	0	May'17	0	May'20	0
Jun'08	0	Jun'11	250	Jun'14	0	Jun'17	0	Jun'20	0
Jul'08	0	Jul'11	0	Jul'14	0	Jul'17	0	Jul'20	500
Aug'08	0	Aug'11	0	Aug'14	280	Aug'17	0	Aug'20	0
Sep'08	0	Sep'11	250	Sep'14	0	Sep'17	0	Sep'20	220
Oct'08	6	Oct'11	0	Oct'14	0	Oct'17	0	Oct'20	310
Nov'08	0	Nov'11	50	Nov'14	0	Nov'17	0	Nov'20	300
Dec'08	0	Dec'11	0	Dec'14	0	Dec'17	0	Dec'20	1800
Jan'09	0	Jan'12	350	Jan'15	0	Jan'18	0		
Feb'09	0	Feb'12	0	Feb'15	0	Feb'18	450		
Mar'09	3	Mar'12	0	Mar'15	350	Mar'18	1500		
Apr'09	0	Apr'12	0	Apr'15	800	Apr'18	0		
May'09	0	May'12	0	May'15	2500	May'18	550		
Jun'09	0	Jun'12	0	Jun'15	3200	Jun'18	0		
Jul'09	2	Jul'12	0	Jul'15	2500	Jul'18	0		
Aug'09	750	Aug'12	300	Aug'15	1700	Aug'18	500		
Sep'09	3100	Sep'12	0	Sep'15	0	Sep'18	500		
Oct'09	2350	Oct'12	0	Oct'15	0	Oct'18	1200		
Nov'09	4800	Nov'12	0	Nov'15	500	Nov'18	550		
Dec'09	2990	Dec'12	0	Dec'15	1950	Dec'18	0		
Jan'10	3300	Jan'13	0	Jan'16	1050	Jan'19	200		
Feb'10	1200	Feb'13	250	Feb'16	0	Feb'19	0		
Mar'10	210	Mar'13	0	Mar'16	0	Mar'19	0		

During SEAC meeting dated **05.05.2021**, Shri Bhanjibhai Solanki presented the reply before the Committee and the reply was considered and found satisfactory.

Committee noted that the production was continued after 31.03.2016. Asking upon the earlier TOR/EC application, he has later on submitted acknowledgement slip of earlier application dated 06.01.2016, i.e. before 13.04.2018.

Referring to the order of Honorable National Green Tribunal dtd.13.01.2015 in the O.A.No. 123/2014 and M.A.419 of 2014, Himmat Singh Shekhawat v/s State of Rajasthan and order of Honorable National Green Tribunal dtd. 04.05.2016 in the O.A.No. 34/2016, Naresh Zargar v/s of Madhya Pradesh and order of Honorable

National Green Tribunal dtd. 30.06.2020 in the O.A. No 136/2017, Tamil Nadu Small Mine Owners Federation v/s Ministry of Environment Forest and Climate Change Government of India, Committee noted that proposal falls under violation to EIA Notification 2006. It is also noted that PP has applied for EC on 06.01.2016. Hence, unanimously decided to recommend for **TOR under violation to EIA Notification 2006 as per Annexure IV and TOR for Non-Sand Mining without blasting as per Annexure – I.**

30. FIRE CLAY MINING, DIST : SURENDRANAGAR

Application No	Name of Project	S.No.	Village	Taluka	Dist	Lease Area	Validity of lease	ROM	Nearest Human Habitation	End Use	Investment in Rs	Date of Application Received by SEAC
PMIN - 333	M/s Ramjibhai Chunilal Kanzaria	171 paiki	Songadh	Chotila	Surendranagar	0.65.76 Ha	Lease Renewal Application has been done	24000 MTPA	Songadh – 0.68 km	For Decorative and Utensil Manufacturing	-	01.10.2020 ADS on 27.11.2020

On **27.11.2020**, PP was asked to submit following details:

a. Details of CER
b. PP was asked to submit the details of production after 31.03.2016 validated by District Geologist.

On 22.02.2021, PP has submitted reply as below:

a. PP has submitted Undertaking for allocating budget of Rs.1,00,000/- (Rupees One Lakh) for CER activities
b. PP has submitted production details validated by District Geologist, Surendranagar vide letter no. G.Su/EC/Pro./2020-21/14069, dated 19.02.2021 as below:

S. N.	Year	Production, MTPA
1.	2016-17	32491.00
2.	2017-18	39741.17
3.	2018-19	25215.51
4.	2019-20	23238.190
5.	2020-21	11133.470

The reply was considered in SEAC meeting dated **05.05.2021** and Shri Gyanendrabhai presented the reply before the Committee.

Committee noted that the production was continued after 31.03.2016. Asking upon the earlier TOR/EC application, he presented acknowledgement slip of earlier application dated 19.02.2016, i.e. before 13.04.2018.

Referring to the order of Honorable National Green Tribunal dtd.13.01.2015 in the O.A.No. 123/2014 and M.A.419 of 2014, Himmat Singh Shekhawat v/s State of Rajasthan and order of Honorable National Green Tribunal dtd. 04.05.2016 in the O.A.No. 34/2016, Naresh Zargar v/s of Madhya Pradesh and order of Honorable National Green Tribunal dtd. 30.06.2020 in the O.A. No 136/2017, Tamil Nadu Small Mine Owners Federation v/s Ministry of Environment Forest and Climate Change Government of India, Committee noted that proposal falls under violation to EIA Notification 2006. It is also noted that PP has applied for EC on 19.02.2016. Hence, unanimously decided to recommend for **TOR under violation to EIA Notification 2006 as per Annexure IV and TOR for Non-Sand Mining without blasting as per Annexure – I.**

31. FIRE CLAY MINING, DIST : SURENDRANAGAR

Application No	Name of Project	S.No.	Village	Taluka	Dist	Lease Area	Validity of lease	ROM	Nearest Human Habitation	End Use	Investment in Rs	Date of Application Received by SEAC
PMIN - 332	M/s Ramjib hai Chunilal Kanzaria	171 paiki	Songadh	Chotila	Surendranagar	0.66.76 Ha	Lease Renewal Application has been done	26000 MTPA	Songadh – 0.43 km	For Decorative and Utensil Manufacturing	-	01.10.2020 ADS on 27.11.2020

On **27.11.2020**, PP was asked to submit following details:

a. To submit the details of production after 31.03.2016 validated by District Geologist.
b. To mention details of EC application submitted for the said lease area before 31.03.2016 if any

On **22.02.2021**, PP has submitted reply as below:

a. PP has submitted production details validated by District Geologist, Surendranagar vide letter no. G.Su/EC/Pro./2020-21/14071, dated 19.02.2021 as below:

S. N.	Year	Production, MTPA
1.	2016-17	11083.87
2.	2017-18	11836.71
3.	2018-19	23203.04
4.	2019-20	15137.510
5.	2020-21	2500.650

b. PP has submitted the acknowledgment slip of earlier EC application dated 13.02.2016.

The reply was considered in SEAC meeting dated **05.05.2021** and Shri Gyanendrabhai presented the reply before the Committee.

Committee noted that the production was continued after 31.03.2016. Asking upon the earlier TOR/EC application, he has later on submitted acknowledgement slip of earlier application dated 13.02.2016, i.e. before 13.04.2018.

Referring to the order of Honorable National Green Tribunal dtd.13.01.2015 in the O.A.No. 123/2014 and M.A.419 of 2014, Himmat Singh Shekhawat v/s State of Rajasthan and order of Honorable National Green Tribunal dtd. 04.05.2016 in the O.A.No. 34/2016, Naresh Zargar v/s of Madhya Pradesh and order of Honorable National Green Tribunal dtd. 30.06.2020 in the O.A. No 136/2017, Tamil Nadu Small Mine Owners Federation v/s Ministry of Environment Forest and Climate Change Government of India, Committee noted that proposal falls under violation to EIA Notification 2006. It is also noted that PP has applied for EC on 13.02.2016. Hence, unanimously decided to recommend for **TOR under violation to EIA Notification 2006 as per Annexure IV and TOR for Non-Sand Mining without blasting as per Annexure – I.**

32. BLACK TRAP MINING, DIST : BHARUCH

Application No	Name of Project	S.No.	Village	Taluka	Dist	Lease Area	Validity of lease	ROM	Nearest Human Habita	End Use	Investment in Rs	Date of Application Received by SEAC

									tion			
PMIN - 309	M/s Kadar khan Abdul shakur Patha n	315	Kantipa da	Jha gadi ya	Bhar uch	1.48 .00 Ha	Geolo gist vide letter dated 17/11/ 2018 have stated that accord ing to GMMC R amend ment 09/03/ 2018 & by the rule no -12 (i) (a) lease is eligible for extens ion till 2030	420 00 MTP A	Kantip ada – 0.502 km	Constr uction	20 Lakh	04.09.20 20 ADS on 12.10.20 20

On **12.10.2020**, PP was asked to submit following details:

a. To submit the current working status of the mine with details of production since grant of lease

On 22.02.2021, PP has submitted reply as below:

a. PP has submitted production details validated by District Geologist, Bharuch vide letter no. AG/BH/QL/3286/Blacktrap/7, dated 01.01.2021 as below:

S. N.	Year	Production, MTPA
1.	2013-14	12074.635
2.	2014-15	4783.695
3.	2015-16	322
4.	2016-17	3588.47
5.	2017-18	1357

6.	2018-19	0
7.	2019-20	11969.10
8.	2020-21 (till Nov. 20)	0

PP has also submitted the acknowledgment slip of earlier EC application dated 12.12.2015.

The reply was considered in SEAC meeting dated **05.05.2021** and Shri Gyanendrabhai presented the reply before the Committee.

Committee noted that the production was continued after 31.03.2016. Asking upon the earlier TOR/EC application, he has later on submitted acknowledgement slip of earlier application dated 12.12.2015, i.e. before 13.04.2018.

Referring to the order of Honorable National Green Tribunal dtd.13.01.2015 in the O.A.No. 123/2014 and M.A.419 of 2014, Himmat Singh Shekhawat v/s State of Rajasthan and order of Honorable National Green Tribunal dtd. 04.05.2016 in the O.A.No. 34/2016, Naresh Zargar v/s of Madhya Pradesh and order of Honorable National Green Tribunal dtd. 30.06.2020 in the O.A. No 136/2017, Tamil Nadu Small Mine Owners Federation v/s Ministry of Environment Forest and Climate Change Government of India, Committee noted that proposal falls under violation to EIA Notification 2006. It is also noted that PP has applied for EC on 12.12.2015. Hence, unanimously decided to recommend for **TOR under violation to EIA Notification 2006 as per Annexure IV and TOR for Non-Sand Mining with blasting as per Annexure – III.**

33. ORDINARY SAND MINING, DIST : SABARKANTHA

Application No	Name of Project	S.No.	Village	Taluka	Dist	Lease Area	Validity of lease	River	ROM	Nearest Human Habitation	End Use	Investment in Rs	Date of Application Received by SEAC
SIA/GJ/MIN/59181/2020	Vaghpur Ordinary Sand Block No.8 (Lesee - Mr. Gaurav	344 nelagu Sabarmati riverbed paiki	Vaghpur	Prantij	Sabarkantha	2.20.00 Ha	LoI issued on 07.08.2019 for	Sabarmati	28901.80 MTPA	Mahudi Village – 1.2 km	Construction	39.07 Lakh	23.12.2020 ADS on 05.02.2021

	Ranchhodbhai Patel)						5 years						

On **05.02.2021**, PP was asked to submit following details:

a. Photographs of the lease area for pre-monsoon as well as post-monsoon period for the period of 4 to 5 years

On **23.03.2021**, PP has submitted Google Earth images dated 17.09.2020, 08.01.2019, 07.12.2018, 10.04.2017, 25.01.2016, 27.05.2020, 08.05.2019, 28.05.2018, 23.12.2017 and 28.04.2016.

During SEAC meeting dated **05.05.2021**, the reply was presented before the Committee by Shri Arun Kumar from M/s. Ultratech Consultancy and Committee noted that the lease area is not submerged in riverine water of River Sabarmati and found the reply satisfactory.

Considering the reply satisfactory and after scoping for the aforementioned proposal, committee decided to consider the proposal under B1 category & Hon'ble National Green Tribunal Order dated 13 September 2018 in view. It was decided to recommend TOR approved by SEIAA on 07/03/2019 for **river bed sand mining** for conducting the EIA study to be done for cluster situation evaluating cumulative impact of the mining leases in cluster considering 10 Km radius from the periphery of the mine lease area including public hearing including project **specific TOR as Annexure – II.**

34. ORDINARY SAND MINING, DIST : SABARKANTHA

Application No	Name of Project	S.No.	Village	Taluka	Dist	Lease Area	Validity of lease	River	ROM	Nearest Human Habitation	End Use	Investment in Rs	Date of Application Received by SEAC
SIA/GJ/MIN/59194/2020	Vaghpur Ordinary Sand Block No.18 (Lesee - M/S	344 nelaguSabarmati riverbed paiki	Vaghpur	Prantij	Sabarkantha	2.80.00 Ha	LoI issued on 16.01.2020	Sabarmati	34055 MTPA	Mahudi village – 2.38 km	Construction	39.67 Lakh	23.12.2020 ADS on 05.02.2021

	Brijesh Enterprise C/O Bhupatray Savani)												

On **05.02.2021**, PP was asked to submit following details:

a. Photographs of the lease area for pre-monsoon as well as post-monsoon period for the period of 5 years

On **23.03.2021**, PP has submitted Google Earth images dated 07.09.2020, 09.01.2019, 07.12.2018, 04.10.2017, 14.02.2016, 23.05.2017, 19.12.2019, 27.05.2020 and 24.12.2016.

During SEAC meeting dated **05.05.2021**, the reply was presented before the Committee by Shri Arun Kumar from M/s. Ultratech Consultancy and Committee noted that the lease area is not submerged in riverine water of River Sabarmati and found the reply satisfactory.

Considering the reply satisfactory and after scoping for the aforementioned proposal, committee decided to consider the proposal under B1 category & Hon'ble National Green Tribunal Order dated 13 September 2018 in view. It was decided to recommend TOR approved by SEIAA on 07/03/2019 for **river bed sand mining** for conducting the EIA study to be done for cluster situation evaluating cumulative impact of the mining leases in cluster considering 10 Km radius from the periphery of the mine lease area including public hearing including project **specific TOR as Annexure – II.**

35. GRANITE MINING, DIST : MEHSANA – B1 Appraisal

Application No	Name of Project	S.No.	Village	Taluka	Dist	Lease Area	Validity of lease	ROM	Nearest Human Habitation	End Use	Investment in Rs	Date of Application Received by SEAC
SIA/GJ/MIN/35314/2020	Kajipur Granite Block 1 Mining Project, Proposed by M/s	Sur vey No 42, 43, 112 Pai ki	Kajipur	Satlasana	Mahesana	3.1443 Ha	LoI issue d on 14.08.2018	120000 MTPA	Kajipur – 1.42 km	Construction	3 Crore	18.11.2020 ADS on 06.01.2021

	Manico Resources Private Limited						for 30 years					

During SEAC meeting dated **06.01.2021**, PP was asked to submit below mentioned details:

a. Action Plan for need based public issues raised during the public hearing
b. To prepare action plan for budgetary provisions for same

On **15.03.2021**, PP has submitted reply as below:

a. PP has submitted Action Plan for need based public issues raised during the public hearing
b. Action plan for budgetary provision is as below:

Action plan for the need based Social activities for M/s Manico Resources Pvt. Ltd (Kajipur Granite Block -1)

S. No.	Activities	Fund allocated (Rs. in Lakhs)				
		2021-2022	2022-2023	2023-2024	2024-2025	2025-2026
1	Sanitation (construction of toilets and maintenance)	0.5	0.1	0.1	0.1	0.1
2	Skill development like training of sewing etc. for girls and ladies of nearby villages on yearly basis	0.4	0.2	0.2	0.2	0.2
3	Fruit bearing trees plantation in the community area of nearby villages along with maintenance	0.2	0.2	0.2	0.2	0.2
4	Awareness Programme for the locals for water conservation, increase yield of crops and fodder, soil moisture conservation etc. as well as environment protection by nukkadnatak, poster presentation, campaigns etc.	0.2	0.1	0.1	0.1	0.1
5	Haulage road maintenance	0.2	0.1	0.1	0.1	0.1
6	Yearly general health check ups camps for nearby village Kajipur	0.5	0.3	0.3	0.3	0.3
	Total	**2.0**	**1.0**	**1.0**	**1.0**	**1.0**
	Total - Six Lakhs Only	**6,00,000/-**				

Action plan for the need based Environmental activities for M/s Manico Resources Pvt. Ltd (Kajipur Granite Block -1)

S. No.	Activities	Fund allocated (Rs. in Lakhs)

		2021-2022	2022-2023	2023-2024	2024-2025	2025-2026
1	Air Pollution & Noise Control	0.5	0.2	0.2	0.2	0.2
2	Water Pollution Control and Rainwater Harvesting	0.3	0.1	0.1	0.1	0.1
3	Greenbelt Development	1.30	0.3	0.3	0.3	0.3
4	Awareness programme-environment conservation	0.3	0.1	0.1	0.1	0.1
5	Dust Suppression	3.48	3.48	3.48	3.48	3.48
	Total	**5.88**	**4.18**	**4.18**	**4.18**	**4.18**
	Total – Twenty Two Lakhs and Sixty Thousand only	**22,60,000/-**				

During SEAC meeting dated **05.05.2021**, Shri Ashishbhai presented the reply before the Committee and it was found satisfactory by the Committee.

Considering the reply satisfactory, after appraisal, considering the anticipated impacts of mining, mitigation measures proposed by the lease holder, committee unanimously decided to recommend the above proposal for grant of environmental clearance to SEIAA, subject to the strict implementation of conditions mentioned for **Non-Sand mining without blasting** for the project approved by SEAC on 09/08/2017 and by SEIAA on 16/09/2017 with specific conditions as per **Annexure – V**.

36. GRANITE MINING, DIST : MEHSANA – B1 Appraisal

Application No	Name of Project	S.No.	Village	Taluka	Dist	Lease Area	Validity of lease	ROM	Nearest Human Habitation	End Use	Investment in Rs	Date of Application Received by SEAC
SIA/GJ/MIN/31258/2020	M/s Manico Resources Private Limited	Survey No 111, 112 Paiki	Otalpur	Satlasana	Mahesana	6.1797 Ha	LoI issued on 14.08.2018 for 30 years	96000 MTPA	Otalpur – 1.3 km	Construction	3 Crore	18.11.2020 ADS on 06.01.2021

During SEAC meeting dated **06.01.2021**, PP was asked to submit below mentioned details:

a. Action Plan for need based public issues raised during the public hearing
b. To prepare action plan for budgetary provisions for same

On **15.03.2021**, PP has submitted reply as below:

a. PP has submitted Action Plan for need based public issues raised during the public hearing
b. Action plan for budgetary provision is as below:

Action plan for the need based Social activities for M/s Manico Resources Pvt. Ltd (Otalpur Granite Block -1)

S. No.	Activities	Fund allocated (Rs. in Lakhs) and completion Year		
		2021-2022	2022-2023	2023-2024
1	Sanitation (construction of toilets and maintenance)	1.00	0.50	0.10
2	Skill development like training of sewing etc. for girls and ladies of nearby villages on yearly basis	1.00	1.00	-
3	Fruit bearing trees plantation in the community area of nearby villages along with maintenance	0.25	0.10	0.10
4	Awareness Programme for the locals for water conservation, increase yield of crops and fodder, soil moisture conservation etc. as well as environment protection by nukkadnatak, poster presentation, campaigns etc.	0.25	0.25	0.10
5	Haulage road maintenance	0.20	0.10	0.05
6	Yearly general health check ups camps for nearby village Otalpur	0.50	0.50	-
	Total	**3.20**	**2.45**	**0.35**
	Total - Six Lakhs Only	**6,00,000/-**		

Action plan for the need based Environmental activities for M/s Manico Resources Pvt. Ltd (Otalpur Granite Block -1)

S. No.	Activities	Fund allocated (Rs. in Lakhs) and completion Year		
		2021-2022	2022-2023	2023-2024
1	Air Pollution & Noise Control	0.50	0.20	0.20
2	Water Pollution Control and Rainwater Harvesting	0.30	1.0	-
3	Greenbelt Development	4.00	2.00	2.00
4	Awareness programme-environment conservation	0.25	0.25	0.10
5	Dust Suppression	21.48	3.48	3.48
Total		**8.53**	**6.93**	**5.78**
Total (Twenty One Lakhs and Twenty Four Thousand only.		**21,24,000/-**		

During SEAC meeting dated **05.05.2021**, Shri Ashishbhai presented the reply before the Committee and it was found satisfactory by the Committee.

Considering the reply satisfactory, after appraisal, considering the anticipated impacts of mining, mitigation measures proposed by the lease holder, committee unanimously decided to recommend the above proposal for grant of environmental clearance to

SEIAA, subject to the strict implementation of conditions mentioned for **Non-Sand mining without blasting** for the project approved by SEAC on 09/08/2017 and by SEIAA on 16/09/2017 with specific conditions as per **Annexure – V**.

37. LIMESTONE MINING, DIST : AMRELI

Application No	Name of Project	S.No.	Village	Taluka	Dist	Lease Area	Validity of lease	ROM	Nearest Human Habitation	End Use	Investment in Rs	Date of Application Received by SEAC
SIA/GJ/MIN/184324/2020	Narmada Cement - Jafarabad Works (A Unit of M/s UltraTech Cement Ltd.)	As per EC accord ed	Babarkot	Jafrabad	Amreli	49.8454 Ha	LoI issued on 04.02.2012	2,50,000 MTPA	-	For production of cement and clinker	147.87 Lakh	12.01.2021 ADS on 05.02.2021

During SEAC meeting dated **05.02.2021**, the proposal was considered for Amendment in EC for correction in Survey Number and Blasting Condition vide TOR application no. SIA/GJ/MIN/184324/2020, dated 12.01.2021. During the meeting, Committee noted that in the EC vide letter no. SEIAA/EC/1(a)/1399/2020, dated 12.11.2020, Survey Numbers included are 111/1, 111/2, 112/1, 114, 119/1, 126/1, 101, 102/1, 102/2, 102/1/1, 105 of 49.8454 Ha. ML of Village: Babarkot, Taluka: Jafarabad, Dist.: Amreli with Survey no. 110/1 not included till final verdict of Hon'ble Court. PP vide the above referred amendment application requested to amend the EC for M/s. Narmada Cement - Jafarabad Works (A Unit of M/s UltraTech Cement Ltd.), Village – Babarkot, Taluka – Jafarabad, Dist – Amreli for addition of survey numbers 83,88,89,90,92,93,95,96,108 in addition to those already mentioned in EC dated 20.11.2021 of 49.8454 Ha ML of Village: Babarkot, Taluka: Jafarabad, Dist.: Amreli and permitting mining activity with blasting. Upon verifying the survey numbers provided in LoI, EIA report and other relevant documents, Committee noted that the lease document contains survey numbers as below:

Sr. No.	Survey No.	Area in Hectare
1	83	1.5580

2		1.5479
3	88	2.671
4	89	2.8531
5	90	1.4468
6		2.4281
7	92	5.5037
8		1.6187
9	93	2.2157
10	95	1.8211
11	96	0.9309
21	108	1.9425
22	109	1.2039
23	110/1	3.6522
24	111/2	0.7689
25	111/1	0.172
26	112/1	1.5985
27	114	2.4787
28	119/1	6.2524
29	126/1	0.7588
15	101	0.0304
16	102/1	1.6067
17	102/2	1.6086
18	102/1/1	1.6086
20	105	1.5682
Total		**49.8454**

The committee cross checked the details, provided in original application, its relevant supportive documents submitted like EIA Report, lease allotment document, EC issued earlier and noted that Survey Number mentioned in Lease document contains the Survey Number 102/1/1 of 1.6086 Ha, which is not incorporated in the EIA Report. PP also mentioned that the mining activity of Limestone of M/s. Narmada Cement - Jafarabad Works (A Unit of M/s UltraTech Cement Ltd.) involves drilling and blasting and EC Condition No.29 states that, “There shall be no Blasting for mining activity”. Committee noted that during the SEAC meeting dated 12.10.2020, the proposal was recommended for mining activity of Limestone with use of drilling and blasting in 49.8454 Ha lease. After verifying the supportive documents, Committee unanimously decided to recommend the proposal for correction in the Blasting Condition for permitting the mining activity with drilling and blasting. However, the Committee asked the PP to submit revised EIA report as stated above and unanimously decided to consider both the amendments after submission of revised EIA in the upcoming SEAC meeting.

On **30.04.2021**, PP has submitted the reply resolving the query raised and mentioned that the queried Survey number as mentioned above, i.e. 102/1/1 of 1.6086 Ha is

incorporated in baseline study area of EIA report, which is mentioned in Chapter no. 2, point no. 2.3.2.

During SEAC meeting dated **05.05.2021**, Ms. Mitaliben from M/s. Kadam Environmental Consultancy presented the reply before the Committee. Committee verified the details in EIA report and found satisfactory.

Hence, Committee unanimously decided recommend to amend the EC condition for **correction in the Blasting Condition for permitting the mining activity with drilling and blasting and inclusion of Survey numbers as 83, 88, 89, 90, 92, 93, 95, 96, 108, 109, 110/1, 111/1, 111/2, 112/1, 114, 119/1, 126/1, 101, 102/1, 102/2, 102/1/1 and 105**.

38. ORDINARY SAND MINING, DIST : SURENDRANAGAR

Application No	Name of Project	S.No.	Village	Taluka	Dist	Lease Area	Validity of lease	ROM	Nearest Human Habitation	End Use	Investment in Rs	Date of Application Received by SEAC
-	Manilal Dayaram Kanzariya	790 Vokla paiki	Raviayyavadar	Dhangdhara	Surendranagar	1 Ha	LoI issued on 23.10.2019, valid up to 31.03.2022	18000 MTPA	Ravaliayyavadar: 2 km	Construction	20 Lakh	03.09.2019 ADS on 26.09.2019

During SEAC meeting dated **26.09.2019**, PP was asked to submit following details:

a. Copy of LOI showing validity of the lease issued by the competent authority.
b. Letter from DFO mentioning distance of the proposed lease from the sanctuary and its location whether falls in eco-sensitive zone or not.
c. Details of measures to be taken to prevent river bank erosion.
d. Details of need based CER after identifying activities in consultation with village gram panchayat.

On **30.04.2021**, PP has submitted reply as below:

a. PP has submitted letter of District Geologist, Surendranagar vide letter no. Gsu/QL/6010/X/4373, dated 23.10.2019 mentioning the validity of lease till 31.03.2022.

b. PP has submitted NOC issued by the Office of Deputy Conservator of Forest vide letter no. K/jmn/te.3/121-23/2020-21, dated 09.10.2020.
c. PP has provided below mentioned measures to prevent river bank erosion.
    - Tree plantation in river bank area
    - Minimum set back distance of 30 m shall be maintained
    - Maintain lease road
    - Following river sand mining guidelines
d. PP has submitted letter of Ravaliyavadar Gram Panchayat, Surendranagar regarding no objection in tree plantation at the lease site vide letter dated 14.10.2019 and letter of Ravaliyavadar Primary School dated 14.10.2019 regarding the requirement of Iron Grill at the third floor of the School.

During SEAC meeting dated **05.05.2021**, Shri Ashishbhai Gandhi presented the reply before the Committee and found satisfactory by the Committee.

Considering the reply satisfactory and the anticipated impacts of mining, mitigation measures proposed by the lease holder, committee unanimously decided to recommend the above proposal for grant of Environmental Clearance to SEIAA, subject to the strict implementation of conditions mentioned for **Sand Mining Project** approved by SEAC on 09/08/2017 and by SEIAA on 16/09/2017 with specific condition as per **Annexure – VI**.

ANNEXURE – I
(Terms of Reference for Non Sand Mining Proposals without Blasting)

1. Authentication of ground water level data through concerned agency in order to prevent ground water intersection due to working of mine shall be addressed in detail in EIA.
2. A progressive fencing to be put up surrounding to the mine pit under progress is to be facilitated to prevent casualty during work.
3. Community Health Centre for the entire cluster shall be facilitated on permanent basis through a corpus of cluster members.
4. To form a corpus among the lease holders in cluster to identify need of the villages in vicinity and use fund under CER for effective utilization in consultation with local gram-panchayat /local body for the activities mentioned in OM of MOEF&CC for CER dtd 01.05.2018.
5. To implement all safety measures including protection of lighting in mine as per the guidance manual of DGMS vide circular No: DGMS(Tech) Circular No: 10 of 2020 dtd. 23 June 2020.
6. To conduct survey for the approach road for the entire cluster and making a pacca road/s to be used by the concerned lease holders to be used by vehicles carrying mineral up to main road.
7. To address all safety measures as per the guideline of DGMS including Following:

Sr. No.	Rules	Details
1	Metalliferous Mines Regulations, 1961 Rule 106 (2) (B)	Where in any mine or part it is proposed to work by a system of deep-hole blasting and/or with the help of heavy machinery for its digging, excavation and removal in such manner as would not permit of compliance with the requirement of sub-regulation (1) the owner, agent or manager shall, not less than 60 days before starting such work, give notice in writing of the method of working to the Chief Inspector and the Regional Inspector; and no such work shall be commenced to carried out except in accordance with such conditions as the Chief Inspector may specify by an order in

		writing. Every such notice shall be in duplicate, and shall give the details of the method of working including the precautions that are proposed to be taken against the anger from falls of sides and material.
2	Rule 164 (1-B) (a)	Provided further that if the shortest distance from the place of firing to any part of such building or structure is less than 50 meters irrespective of the amount of the charge, no blasting shall be done except with the permission in writing of the Chief Inspector or the Regional Inspector and subject to such conditions as he may specify therein.
3	Rule 156 (1)	Every magazine, or store or premises, where explosives are stored shall be in charge of a competent person who shall be responsible for the proper receipt, storage an issue of explosives.
4	Rule 156 (3)	Explosives shall be issued only to competent persons upon written requisition signed by the blaster or by a official authorized for the purpose, and only against their signature or thumb impression. Such requisition shall be preserved by the person in charge of the magazine or store or premises.

5	Rule 156 (4)	The person in charge of the magazine or store or premises shall maintain, in a bound paged book kept for the purpose, a clear and accurate record of explosives issued to each competent person and a similar record of explosives returned to the magazine or store or premises.
6	Rule 160 (1)	The preparation of charges an the charging and stemming of holes shall be carried out by or under the personal supervision of a competent person, in these regulations referred to as a 'blaster'. The blaster shall fire the shots himself.
7	Rule 160 (2)	No person shall be appointed to be a blaster unless he is the holder of Manager's, Foreman's Mate's or Blaster's certificate.

8. Vide letter of MOEF&CC dtd 07.07.2020, EIA,EMP submitted shall have Plagiarism report complying all the conditions mentioned therein.
9. Environmental Management Plan with details of capital and recurring cost including following details shall be included in EIA:

ANNEXURE – II
(Terms of Reference for Sand Mining Proposals)

1. Rate of Mining shall be restricted up to the depth of 1 m or the replenishment rate, whichever is less.
2. Authentication of ground water level data through concerned agency in order to prevent ground water intersection due to working of mine shall be addressed in detail in EIA report.
3. Community Health Centre for the entire cluster shall be facilitated on permanent basis through a corpus of cluster members.
4. PP shall submit replenishment rate study report prepared by department of Geology and Mining justifying rate of proposed mining is in accordance to rate of replenishment keeping guideline addressed in Sustainable Sand Mining 2016 and its amendment from time to time issued by MOEF&CC.
4. To form a corpus among the lease holders in cluster to identify need of the villages and commitments made by the project proponent to address concerns raised during the public consultation with inclusion of all the activities proposed by the PP or prescribed by SEAC as the case may be to be part of EMP. A mechanism to monitor implementation of these activities shall be framed by the members making a body among cluster.
5. To implement all safety measures regarding protection of lighting in mine as per the guidance manual of DGMS vide circular No: DGMS(Tech) Circular No: 10 of 2020 dtd. 23 June 2020.
6. To address all the concerns raised during the public consultation and to propose need-based activities preferably covering environmental aspects by the PP and shall be part of EMP vide OM dtd 30.09.2020.
7. To conduct survey for the approach road for the entire cluster and making a pacca road/s to be used by the concerned lease holders to be used by vehicles carrying mineral up to main road.
8. Vide letter of MOEF&CC dtd 07.07.2020, EIA,EMP submitted shall have Plagiarism report complying all the conditions mentioned therein.
9. Environmental Management Plan with details of capital and recurring cost including following details shall be included in EIA:

    a. *Measures after post closure/working of mine, measures to be adopted as per OM of MOEF&CC dated 16/01/2020 addressing that after ceasing mining operations, PP shall undertake re-grassing of the mining area and any other area which have been disturbed due to mining activities and restore the land to a condition which is for the growth of fodder, flora and fauna.*
    b. *Details of Dust mitigation measures due to mining, handling of mineral, loading, unloading, transportation and other allied activities similar to the applicable measures guided in Notification issued by MOEF&CC dated 25/01/2018 vide GSR 94(E).*

ANNEXURE – III
(Terms of Reference for Non Sand Mining Proposals with Blasting)

1. To prepare SOP for blasting including details measures to be taken to warn trespassers/public in vicinity for blasting and address in EIA.
2. Authentication of ground water level data through concerned agency in order to prevent ground water intersection due to working of mine shall be addressed in detail in EIA.
3. A progressive fencing to be put up surrounding to the mine pit under progress is to be facilitated to prevent casualty during work.
4. Community Health Centre for the entire cluster shall be facilitated on permanent basis through a corpus of cluster members.
5. To carry out activities under CER as mentioned in OM of MOEF&CC dtd 01.05.2018, betterment of Great Bustard sanctuary in consultation with DFO shall be explored and implemented along with its upkeep.
6. To conduct survey for the approach road for the entire cluster and making a pacca road/s to be used by the concerned lease holders to be used by vehicles carrying mineral upto main road.
7. A cumulative environmental impact assessment study shall be carried out considering existing and proposed crushing units in study area.
8. To address all safety measures as per the guideline of DGMS including following:

Sr.No.	Rules	Details
1	Metalliferous Mines Regulations, 1961 Rule 106 (2) (B)	Where in any mine or part it is proposed to work by a system of deep-hole blasting and/or with the help of heavy machinery for its digging, excavation and removal in such manner as would not permit of compliance with the requirement of sub-regulation (1) the owner, agent or manager shall, not less than 60 days before starting such work, give notice in writing of the method of working to the Chief Inspector and the Regional Inspector; and no such work shall be commenced to carried out except in accordance with such conditions as the Chief Inspector may specify by an order in writing. Every such notice shall be in duplicate, and shall give the details of the method of working including the precautions that are proposed to be taken against the anger from falls of sides and material.

2	Rule 164 (1-B) (a)	Provided further that if the shortest distance from the place of firing to any part of such building or structure is less than 50 meters irrespective of the amount of the charge, no blasting shall be done except with the permission in writing of the Chief Inspector or the Regional Inspector and subject to such conditions as he may specify therein.
3	Rule 156 (1)	Every magazine, or store or premises, where explosives are stored shall be in charge of a competent person who shall be responsible for the proper receipt, storage an issue of explosives.
4	Rule 156 (3)	Explosives shall be issued only to competent persons upon written requisition signed by the blaster or by a official authorized for the purpose, and only against their signature or thumb impression. Such requisition shall be preserved by the person in charge of the magazine or store or premises.
5	Rule 156 (4)	The person in charge of the magazine or store or premises shall maintain, in a bound paged book kept for the purpose, a clear and accurate record of explosives issued to each competent person and a similar record of explosives returned to the magazine or store or premises.
6	Rule 160 (1)	The preparation of charges an the charging and stemming of holes shall be carried out by or under the personal supervision of a competent person, in these regulations referred to as a ‘blaster’. The blaster shall fire the shots himself.
7	Rule 160 (2)	No person shall be appointed to be a blaster unless he is the holder of Manager’s,

		Foreman's Mate's or Blaster's certificate.

9. To implement all safety measures regarding protection of lighting in mine as per the guidance manual of DGMS vide circular No: DGMS(Tech) Circular No: 10 of 2020 dtd. 23 June 2020.

10. Carry out need based survey for CER and give details of budgetary provision for five years for effective utilization of the same.

11. Vide letter of MOEF&CC dtd 07.07.2020, EIA,EMP submitted shall have Plagiarism report complying all the conditions mentioned therein.

12. Environmental Management Plan with details of capital and recurring cost including following details shall be included in EIA:

a. Measures after post closure/working of mine, measures to be adopted as per OM of MOEF&CC dated 16/01/2020 addressing that after ceasing mining operations, PP shall undertake re-grassing of the mining area and any other area which have been disturbed due to mining activities and restore the land to a condition which is for the growth of fodder, flora and fauna.

b. Details of Dust mitigation measures due to mining, handling of mineral, loading, unloading, transportation and other allied activities similar to the applicable measures guided in Notification issued by MOEF&CC dated 25/01/2018 vide GSR 94(E).

ANNEXURE IV

TERMS OF REFERENCE FOR THE PROJECTS FALLING UNDER CATEGORY 1 (a), (MINING SECTOR) INCLUDING PROJECT SPECIFIC TOR FOR VIOLATION OF EIA NOTIFICATION 2006

1. Year-wise production details since 1994 should be given, clearly stating the highest production achieved in any one year prior to 1994. It may also be categorically informed whether there had been any increase in production after the EIA Notification 1994 came into force, w.r.t. the highest production achieved prior to 1994.
2. A copy of the document in support of the fact that the Proponent is the rightful lessee of the mine should be given.
3. All documents including approved mine plan, EIA and Public Hearing should be compatible with one another in terms of the mine lease area, production levels, waste generation and its management, mining technology etc. and should be in the name of the lessee.
4. All corner coordinates of the mine lease area, superimposed on a High Resolution Imagery/ toposheet, topographic sheet, geomorphology and geology of the area should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone).
5. Information should be provided in Survey of India Toposheet in 1:50,000 scale indicating geological map of the area, geomorphology of land forms of the area, existing minerals and mining history of the area, important water bodies, streams and rivers and soil characteristics.
6. Details about the land proposed for mining activities should be given with information as to whether mining conforms to the land use policy of the State; land diversion for mining should have approval from State land use board or the concerned authority.
7. It should be clearly stated whether the proponent Company has a well laid down Environment Policy approved by its Board of Directors? If so, it may be spelt out in the EIA Report with description of the prescribed operating process/procedures to bring into focus any infringement/deviation/ violation of the environmental or forest norms/ conditions? The hierarchical system or administrative order of the Company to deal with the environmental issues and for ensuring compliance with the EC conditions may also be given. The system of reporting of non-compliances / violations of environmental norms to the Board

of Directors of the Company and/or shareholders or stakeholders at large,may also be detailed in the EIA Report.

8. Issues relating to Mine Safety, including subsidence study in case of underground mining and slope study in case of open cast mining, blasting study etc. should be detailed. The proposed safeguard measures in each case should also be provided.
9. The study area will comprise of 10 km zone around the mine lease from lease periphery and the data contained in the EIA such as waste generation etc. should be for the life of the mine / lease period.
10. Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated. Land use plan of the mine lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.
11. Details of the land for any Over Burden Dumps outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be given.
12. A Certificate from the Competent Authority in the State Forest Department should be provided, confirming the involvement of forest land, if any, in the project area. In the event of any contrary claim by the Project Proponent regarding the status of forests, the site may be inspected by the State Forest Department along with the Regional Office of the Ministry to ascertain the status of forests, based on which, the Certificate in this regard as mentioned above be issued. In all such cases, it would be desirable for representative of the State Forest Department to assist the Expert Appraisal Committees.
13. Status of forestry clearance for the broken up area and virgin forestland involved in the Project including deposition of net present value (NPV) and compensatory afforestation (CA) should be indicated. A copy of the forestry clearance should also be furnished.
14. Implementation status of recognition of forest rights under the Scheduled Tribes and other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 should be indicated.
15. The vegetation in the RF / PF areas in the study area, with necessary details, should be given.
16. A study shall be got done to ascertain the impact of the Mining Project on wildlife of the study area and details furnished. Impact of the project on the

wildlife in the surrounding and any other protected area and accordingly, detailed mitigative measures required, should be worked out with cost implications and submitted.

17. Location of National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, Ramsar site Tiger/ Elephant Reserves/(existing as well as proposed), if any, within 10 km of the mine lease should be clearly indicated, supported by a location map duly authenticated by Chief Wildlife Warden. Necessary clearance, as may be applicable to such projects due to proximity of the ecologically sensitive areas as mentioned above, should be obtained from the Standing Committee of National Board of Wildlife and copy furnished.
18. A detailed biological study of the study area [core zone and buffer zone (10 km radius of the periphery of the mine lease)] shall be carried out. Details of flora and fauna, endangered, endemic and RET Species duly authenticated, separately for core and buffer zone should be furnished based on such primary field survey, clearly indicating the Schedule of the fauna present. In case of any scheduled-I fauna found in the study area, the necessary plan alongwith budgetary provisions for their conservation should be prepared in consultation with State Forest and Wildlife Department and details furnished. Necessary allocation of funds for implementing the same should be made as part of the project cost.
19. Proximity to Areas declared as 'Critically Polluted' or the Project areas likely to come under the 'Aravali Range', (attracting court restrictions for mining operations), should also be indicated and where so required, clearance certifications from the prescribed Authorities, such as the SPCB or State Mining Department should be secured and furnished to the effect that the proposed mining activities could be considered.
20. Similarly, for coastal Projects, A CRZ map duly authenticated by one of the authorized agencies demarcating LTL. HTL, CRZ area, location of the mine lease w.r.t CRZ, coastal features such as mangroves, if any, should be furnished. (Note: The Mining Projects falling under CRZ would also need to obtain approval of the concerned Coastal Zone Management Authority).
21. R&R Plan/compensation details for the Project Affected People (PAP) should be furnished. While preparing the R&R Plan, the relevant State/National Rehabilitation & Resettlement Policy should be kept in view. In respect of SCs /STs and other weaker sections of the society in the study area, a need based sample survey, family-wise, should be undertaken to assess their requirements, and action programmes prepared and submitted accordingly, integrating the

sectoral programmes of line departments of the State Government. It may be clearly brought out whether the village(s) located in the mine lease area will be shifted or not. The issues relating to shifting of village(s) including their R&R and socio-economic aspects should be discussed in the Report.

22. One season (non-monsoon) [i.e. March-May (Summer Season); October-December (post monsoon season) ; December-February (winter season) primary baseline data on ambient air quality as per CPCB Notification of 2009, water quality, noise level, soil and flora and fauna shall be collected and the AAQ and other data so compiled presented date-wise in the EIA and EMP Report. Site-specific meteorological data should also be collected. The location of the monitoring stations should be such as to represent whole of the study area and justified keeping in view the pre-dominant downwind direction and location of sensitive receptors. There should be at least one monitoring station within 500 m of the mine lease in the pre-dominant downwind direction. The mineralogical composition of PM10, particularly for free silica, should be given.
23. Air quality modeling should be carried out for prediction of impact of the project on the air quality of the area. It should also take into account the impact of movement of vehicles for transportation of mineral. The details of the model used and input parameters used for modeling should be provided. The air quality contours may be shown on a location map clearly indicating the location of the site, location of sensitive receptors, if any, and the habitation. The wind roses showing pre-dominant wind direction may also be indicated on the map.
24. The water requirement for the Project, its availability and source should be furnished. A detailed water balance should also be provided. Fresh water requirement for the Project should be indicated.
25. Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the Project should be provided.
26. Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided.
27. Impact of the Project on the water quality, both surface and groundwater, should be assessed and necessary safeguard measures, if any required, should be provided.
28. Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided. In case the working will intersect groundwater table, a detailed Hydro Geological Study should be undertaken and Report furnished. The Report inter-

alia, shall include details of the aquifers present and impact of mining activities on these aquifers. Necessary permission from Central Ground Water Authority for working below ground water and for pumping of ground water should also be obtained and copy furnished.

29. Details of any stream, seasonal or otherwise, passing through the lease area and modification / diversion proposed, if any, and the impact of the same on the hydrology should be brought out.
30. Information on site elevation, working depth, groundwater table etc. Should be provided both in AMSL and bgl. A schematic diagram may also be provided for the same.
31. A time bound Progressive Greenbelt Development Plan shall be prepared in a tabular form (indicating the linear and quantitative coverage, plant species and time frame) and submitted, keeping in mind, the same will have to be executed up front on commencement of the Project. Phase-wise plan of plantation and compensatory afforestation should be charted clearly indicating the area to be covered under plantation and the species to be planted. The details of plantation already done should be given.The plant species selected for green belt should have greater ecological value and should be of good utility value to the local population with emphasis on local and native species and the species which are tolerant to pollution.
32. Impact on local transport infrastructure due to the Project should be indicated. Projected increase in truck traffic as a result of the Project in the present road network (including those outside the Project area) should be worked out, indicating whether it is capable of handling the incremental load. Arrangement for improving the infrastructure, if contemplated (including action to be taken by other agencies such as State Government) should be covered. Project Proponent shall conduct Impact of Transportation study as per Indian Road Congress Guidelines.
33. Details of the onsite shelter and facilities to be provided to the mine workers should be included in the EIA Report.
34. Conceptual post mining land use and Reclamation and Restoration of mined out areas (with plans and with adequate number of sections) should be given in the EIA report.
35. Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be

incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed.

36. Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocations.
37. Measures of socio economic significance and influence to the local community proposed to be provided by the Project Proponent should be indicated. As far as possible, quantitative dimensions may be given with time frames for implementation.
38. Detailed environmental management plan (EMP) to mitigate the environmental impacts which,should inter-alia include the impacts of change of land use, loss of agricultural and grazing land, if any, occupational health impacts besides other impacts specific to the proposed Project.
39. Public Hearing points raised and commitment of the Project Proponent on the same along with time bound Action Plan with budgetary provisions to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project.
40. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
41. The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of EMP should be clearly spelt out.
42. A Disaster management Plan shall be prepared and included in the EIA/EMP Report.
43. Benefits of the Project if the Project is implemented should be spelt out. The benefits of the Project shall clearly indicate environmental, social, economic, employment potential, etc.
44. Besides the above, the below mentioned general points are also to be followed:-
    1. Executive Summary of the EIA/EMP Report
    2. All documents to be properly referenced with index and continuous page numbering.
    3. Where data are presented in the Report especially in Tables, the period in which the data were collected and the sources should be indicated.
    4. Project Proponent shall enclose all the analysis/testing reports of water, air, soil, noise etc. using the MoEF&CC/NABL accredited laboratories. All the original analysis/testing reports should be available during appraisal of the Project.

5. Where the documents provided are in a language other than English, an English translation should be provided.
6. The Questionnaire for environmental appraisal of mining projects as devised earlier by the Ministry shall also be filled and submitted.
7. While preparing the EIA report, the instructions for the Proponents and instructions for the Consultants issued by MoEF&CC vide O.M. No. J-11013/41/2006-IA.II(I)dated 4th August, 2009, which are available on the website of this Ministry, should be followed.
8. Changes, if any made in the basic scope and project parameters (as submitted in Form-I and the PFR for securing the TOR) should be brought to the attention of MoEF&CC with reasons for such changes and permission should be sought, as the TOR may also have to be altered. Post Public Hearing changes in structure and content of the draft EIA/EMP (other than modifications arising out of the P.H. process) will entail conducting the PH again with the revised documentation.
9. As per the circular no. J-11011/618/2010-IA.II(I) dated 30.5.2012, certified report of the status of compliance of the conditions stipulated in the environment clearance for the existing operations of the project, should be obtained from the Regional Office of Ministry of Environment, Forest and Climate Change, as may be applicable.
10. The EIA report should also include (i) surface plan of the area indicating contours of main topographic features, drainage and mining area, (ii) geological maps and sections and (iii) sections of the mine pit and external dumps, if any, clearly showing the land features of the adjoining area.

Beside above standard TOR, following additional TORs are recommended:

1. Project site specific details such as distance of the project site from nearest (1) Village (2) Water Body : River / Creek / Nallah / Lake / Pond / Reservoir / Canal (3) National Highway (4) State Highway (5) Railway line (6) Heritage site (7) National Park / Wild Life Sanctuary /Reserve Forest / Protected Forest shall be included in the rapid EIA report to be prepared covering one season (other than monsoon) data. A map indicating the aerial distance of the lease area from these entities.

2. Distance of nearby mining lease areas from the periphery of the proposed project including a map covering distance of 1 Km from the periphery of the proposed project. In case of no mining lease areas are existing within 500 meter periphery of the proposed project, certificate of the concerned geologist in this regard.

3. Copies of all requisite permissions including permissions from District Collector, Commissioner of Geology & Mining, Indian Bureau of Mines, GPCB, current lease renewal status from Industries and Mine department, Government of Gujarat with opinion of the district geologist regarding compliance of all the conditions in lease deed and copy of renewed lease (if any) etc. to be incorporated.

4. Approved mining plan including progressive mine closure plan shall be provided with EIA report. Letter of approval of IBM shall also be incorporated with compliance of all the recommendations mentioned in approved mining plan.

5. Specific Terms of Reference for the project on assessment of ecological damage, remediation plan and natural and community resource augmentation plan.

1. Ecological damage shall be assessed with respect to air, water, land and other project & location specific environment attributes. The collection and analysis of data shall be done by an environment laboratory duly notified under Environment (Protection) Act, 1986, or an environment laboratory accredited by NABL, or a laboratory of a council of Scientific and Industrial Research (CSIR) institution working in the field of environment.
2. The Environment Management Plan shall be prepared which shall comprise of the remediation plan and community & natural resource augmentation plan corresponding to the ecological damage assessed and economic benefits derived due to violation. The remediation plan and the natural & community resource augmentation plan prepared shall be included as an independent chapter in the EIA report.
3. The project proponent shall be required to submit a bank guarantee considering 4% of the project cost (i.e.*double than the highest percentage mentioned in CER vide OM of MOEF&CC dated 01/05/2018) or amount comes from the an indicative guideline after assessing the environmental damage as mentioned in Annexure A whichever is higher* with the GPCB prior to the grant of Environmental Clearance. The quantum shall be recommended by the SEAC and finalized by the regulatory authority. The bank guarantee shall be released after successful implementation of the remediation plan and Natural and Community Resource Augmentation Plan, and after recommendation by regional office of the Ministry followed by recommendations of the SEAC and approval of the regulatory authority.

4. Gujarat Pollution Control Board shall initiate credible legal action against the project proponent under the provisions of the Environment (Protection) Act, 1986, and further no consent to operate to be issued till the project is granted Environmental Clearance.
5. A notarized undertaking stating that (1).Any such violation shall not be repeated in future, (2). All the statutory requirements shall be fully complied with and (3). A status quo shall be maintained at the project site and remaining activity shall be carried out only after obtaining Environmental Clearance from SEIAA.
6. Applicability of CRZ Notification, 2011 shall be verified for the project and if found applicable, due procedure shall be followed as per the CRZ Notification,2011.

6. <u>Project Specific Conditions:</u>

Honorable supreme court vide judgment dated 2nd August 2017 with writ petition (Civil) No 114 of 2014 in the matter of common cause versus union of India and others has passed order interpreting section 21(5) of the MMDR Act and directed payment of 100% Penalty for illegal mining operation with reference to the relevant statues, which inter alia include Environment (Protection) Act 1986, the Water(Prevention and Control of Pollution)Act 1974 and Air(Prevention and Control of pollution)Act 1981,The Forest(Conservation)Act 1980 and the Mines and Minerals(Development &Regulation)Act 1957. In this context In order to additionally comply with the direction of Hon'ble Supreme Court dated 02/08/2017 vide writ petition (Civil) NO 114 of 2014 Following additional conditions in TOR are required to address and comply.

1. The project proponent shall give an undertaking by way of affidavit to comply with all the statutory requirements and judgment of Hon'ble Supreme Court dated 2nd August 2017 in Writ Petition (Civil) No: 114 of 2014 in the matter of common cause versus Union of India and others before grant of TOR/EC. The undertaking inter alia include commitment of PP not to repeat any such violation in future.

2. In case of violation of above undertaking, the TOR/EC shall be liable to be terminated forthwith.

3. The Environmental Clearance will not be operational till such time the project proponent complies with all the statutory requirements and judgment of Hon'ble Supreme Court dated 2nd August 2017 in Writ Petition (Civil) No 114 of 2014 in the matter of Common Cause versus Union of India and others.

4. State government concerned shall ensure that mining operation shall not commence till entire compensation levies, if any, for illegal mining paid by the Project proponent through Their respective department of Mining and Geology in strict compliance of judgment of ofHon'ble Supreme Court dated 2nd August 2017 in Writ Petition (Civil) No 114 of 2014 in the matter of Common Cause versus Union of India and others.

7. Validity of ToR:

- The ToR prescribed for the project will be valid for a period of four years for submission of EIA & EMP report vide amended EIA Notification 2006, S.O. 751(E) dtd 17.02.2020. 751(E)

The above-mentioned project specific TORs/additional TORs and the model TORs available in the MoEFCC's sector specific EIA Manual for Mining Projects shall be considered as generic TORs for preparation of the EIA report in addition to all the relevant information as per the generic structure of EIA given in Appendix III in the EIA Notification, 2006. The project shall be appraised on receipt of the final EIA report.

Annexure A

An indicative guideline for assessing the amount of remediation plan and natural and community resource augmentation plan is as under :

EMP Sub-Components									
AP	**WP**	**SHW**	**TP**	**NV**	**GB**	**HG**	**RH/OHS**	**SC**	**CSR/SE**
Air Pollution	**Water Pollution**	**Solid &Haz. Waste**	**Transportation**	**Noise & Vibration**	**Green belt**	**Hydro-Geology**	**Risk Hazards/ Occupational Health & Safety**	**Soil Conservation**	**Corporate Social Responsibility**

Following model calculation shall be used to conclude cost in RS per Day.

Attributes	**Cost Estimation**	**Rs. Per day**
AP	• Water requirement per day for sprinkling of water to curb fugitive emission =	
	• Cost of 1 KL water for sprinkling =	
	Total cost of AP per day	
WP	• Major water pollution envisioned 1. Explore possibility of ground water table	

	intersection. 2. Run off water outside the lease and estimate damage caused considering period of violation in RS.Per day	
SHW	**When there is an overburden** 1. For 1 Ha Lease area equivalent to 10,000 M2 (1 Ha land area)* overburden bed height* Sp Gr of mineral = Tonnage of OB 2. Over burden Tonnage per day: Tonnage of OB/No of working days in a year = MTPD. 3. Over Burden * Rs ABC Per Ton handling charge= Rs Per Day assuming fresh-first year mining	
	When there is no Overburden, only mining waste handling charges are to be considered. 1. Annual Rate of Mining * Avg Percentage of Mining waste per MT * Handling charge in Rs per MT /Nos of days in a year assuming fresh-first year mining	
TP	• Nos. of covered truck plying from the mine lease to main road carrying minerals per day. • Water sprinkling required (KLPD)to curb fugitive emission due to vehicle movement • Cost of Water sprinkling in Rs. Per day:	
	• Compensatory tree plantation to encounter vehicular emission in Nos of tree for five year. • Cost of Tree plantation in Rs per Day.	
NV	• Existence of properties/env. entities within 500 meter of blasting site and if damaged due to blasting. • Nos of such properties/env. Entities. • Buiilt up area of each property/env. Entities • Cost of reconstruction of properties (total)	

	considering current construction cost say Rs 20,000 per Sq. Meter.	
GB	• Green Belt developed in 10% of leased area :Graan belt area in M2. • Presume 1 plant per 4 m2 is to be planted. • Cost of single plant: RS ABC for 5 years. • Lease Area *10% GB = M2 of Green Belt. • M2 of gren belt/4 M2 :Nos of trees/plants. • Cost of Green belt= Rs per tree * NOs of trees / 5 * 300=	
HG	• No major HG issues envisioned, considering ground water is not intercepted	
	• If intersection of ground water is made, cost of one time remediation plan after estimating extent of contamination of ground water	
RH/OHS	• For 1 Ha mine lease = Nos of worker required. • Annual cost of health check for the workers • Cost of health check per day:	
	• Cost of PPE per worker= Rs ABC • Total cost of PPE = Nos of workers * Rs. ABC	
	• Total cost of PPE = health check up + PPE = RS XYZ • Cost of OHS per day =XYZ/300 (days) =	
SC	Cost of preservation, Handling and reuse of Top soil : Rs Per day	
CSR/SE	2% of the project cost per annum (Project cost) * 0.02 / 300 (Days) =	
	Total	**Rs PQR**

Considering above following details shall be furnished.

(A). Cost incurred due to EMP = Rs ( ) * 300 (Nos. of days) = ( ).

(B) Benefits earned due to violation= Production per annum under violation x Sale price announced x % of profit due to violation = BBB.

(C) Cost of Environmental Damage = (A) + (B)

Based on the affected attributes and considering environmental damage, natural resource and Community resource augmentation plan shall be prepared keeping activities mentioned in CER vide OM of MOEF&CC dated 01/05/2018 in view.

ANNEXURE – V

(CONDITIONS FOR ENVIRONMENTAL CLEARANCE FOR NON-SAND MINING WITHOUT BLASTING PROPOSALS)

1. PP shall carry out entire plantation as proposed in first year and maintain the same in subsequent years of lease period.
2. Validity of the EC shall be coterminous with validity of parvana or work order whichever is early.
3. PP shall carry out entire plantation as proposed in first year and maintain the same in subsequent years of lease period.
4. PP shall construct a pacca approach road connecting lease area to the main road with periodic regular maintenance to prevent fugitive dust emission.
5. PP shall implement all the measures proposed in EMP in letter and spirit.
6. PP Shall pursue CER activities in consultation with local authorities / Taluka Panchayat/Gram Panchayat based on need of the local people.
7. No ground water extraction shall be done from within the lease/permit area
8. Pillars mentioning boundary of the lease area shall be provided as per the provision of mining rules/Acts to identify the lease area.
9. Transportation route for vehicles carrying mineral shall have lease minimum pass near human habitation. PP Shall pursue CER activities as proposed in declaration.
10. Dust mitigation measures due to mining, handling of mineral, loading, unloading, transportation and other allied activities shall be implemented in letter and spirit similar to the applicable measures guided in Notification issued by MOEF&CC dated 25/01/2018 vide GSR 94(E).
11. Vide OM of MOEF&CC dated 16/01/2020, PP shall after ceasing mining operations, undertake re-grassing of the mining area and any other area which have been disturbed due to their mining activities and restore the land to a condition which is fit for the growth of fodder, flora and fauna

ANNEXURE – VI

(CONDITIONS FOR ENVIRONMENTAL CLEARANCE FOR SAND MINING PROPOSALS)

1. The Licensee must use minimum number of poclains and it should not be more than two in the project site.
2. The District Administration should assess the site for Environmental impact at the end of first year to permit the continuation of the operation.
3. The Annual replenishment report certified by the authorised agency must be submitted to the prescribed authority. In case, the replenishment is low, the mining activity/production levels shall accordingly be decreased/stopped.
4. The ultimate working depth shall be 1 m from the present natural river bed level and the thickness of the sand available shall be more than 3 m in the proposed quarry site.
5. The sand quarrying shall not be carried out below the ground water table under any circumstances. In case, the ground water table occurs within the permitted depth at 1 meter, quarrying operation shall be stopped immediately.
6. The sand mining should not disturb in any way the turbidity, velocity and flow pattern of the river water.
7. The mining activity shall be monitored by the Taluka level Force once in a month by conducting physical verification.
8. After closure of the mining, the licensee shall immediately remove all the sheds put up in the quarry and all the equipments used for operation of sand quarry. The roads/pathways shall be levelled to let the river resume its normal course without any artificial obstruction to the extent possible.
9. The mined out pits to be backfilled where warranted and area should be suitably landscaped to prevent environmental degradation.
10. The project proponent shall obtain registration of the establishment under the Building and other Construction Workers' (regulation of Employment & Conditions of Service) Act, 1996 and shall comply with the provisions of the Act for the Safety, Health and Welfare of Mining Workers.
11. The project proponent shall obtain registration of the Mining Workers as Beneficiaries with the Gujarat Building and other Construction Workers Welfare Boards.
12. PP shall implement all safety measures including protection of lighting in mine as per the guidance manual of DGMS vide circular No: DGMS (Tech) Circular No: 10 of 2020 dtd. 23 June 2020
13. All measures proposed in sustainable sand mining guide line MOEF&CC and EMP shall be complied with in letter and spirit.

14. Transportation route for vehicles carrying mineral shall have lease minimum pass near human habitation.
15. No ground water extraction shall be done from within the lease/permit area
16. PP shall construct a pacca approach road connecting lease area to the main road with periodic regular maintenance to prevent fugitive dust emission.
17. Pillars mentioning boundary of the lease area shall be provided as per the provision of mining rules/Acts to identify the lease area.
18. PP shall carry out CER activities after identifying need based activities in consultation with village gram panchayat.
19. Validity of the EC shall be coterminous with validity of lease/Permit or thirty years whichever is early.

Minutes of the 212th meeting of the State Level Expert Appraisal Committee held on 28.05.2021 through Video Conference (VC) on National Informatics Centre (NIC).

In the wake of recent crisis of COVID-19, the agenda of the present meeting was mailed to expert Committee in advance and the 212th meeting of the State Level Expert Appraisal Committee (SEAC) was held online by Video Conferencing on NIC was organized on 28.05.2021 at 01.30 pm.

Following members attended the meeting.

1	Shri A.K. Saxena, Chairman
2	Dr. S.C. Pant, Vice Chairman
3	Dr. M. N. Patel, Member, SEAC
4	Shri D. C. Chaudhari, Member, SEAC
5	Shri J. K. Vyas, Member, SEAC
6	Shri Anand Zinzala, Member, SEAC
7	Shri B. M. Tailor, Member, SEAC
8	Shri A. V. Shah, Secretary, SEAC

Committee considered Form-1, PFR, project details validated by the District Geologist, approved mining plan and other relevant details submitted by project proponent. Details of proposals appraised are as below:

1. ORDINARY SAND MINING, DIST: SABARKANTHA – B1 APPRAISAL

Application No	Name of Project	S.No.	Village	Taluka	Dist	Lease Area	Validity of lease	ROM	River	Nearest Human Habitation	End Use	Investment in Rs	Date of Application Received by SEAC
SIA/GJ/MIN/61452/2021	Shri Dhavalbhai Dahyabhai Patel	135, 136 Sabarmati Riverbed paiki (Block 2)	Sitvada	Prantij	Sabarkantha	4.96 ha	LoI issued on 28.01.2019 for 5 years	82,732 MTPA	Sabarmati	Sitvada – 0.7 km	Construction	Rs.50 Lakh	07.05.2021

The project falls under B1 Category – 1(a), i.e. Mining of Minerals as per the provision of EIA Notification, 2006. Project Proponent has applied to obtain Environmental Clearance (EC) for mining of Ordinary Sand.

A. Basic Information of the Project:

1.	Name of Project as per Form I	
2.	Address of the lease	Survey No.: 135 & 136 Village: Sitvada Taluka: Prantij District: Sabarkantha
3.	Name of lease holder	Sh. Dhaval Bhai Daya Bhai Patel
4.	Lease area (Ha)	4.96 Ha.
5.	Cluster Details	
	a. Total no. of leases in the cluster	9
	b. No. of TOR granted in cluster	9
	c. No. of EC granted in cluster	7
	d. Total area of the cluster	43.67 ha.
	e. Maximum individual lease area	12.00 ha.
	f. Minimum individual lease area	1.00 ha.
6.	Validity of lease with the date of expiry	LOI (50 Year from date of lease execution)
7.	Rate of Mining (MT/Annum)	82732 MT
8.	Details of EC obtained (for expansion projects), if any	Not Applicable
9.	Name of River Bed	Sabarmati River Bed
10.	Is the river perennial / non-perennial?	Non - Perennial
11.	Lease area (submerged / in stream / on dry river bed)	On dry river bed
12.	All coordinates of the lease area as per Approved Mining Plan	The area falls on survey of India Toposheet No. 46A/15,11and is situated between:

Pillar	Latitude	Longitude
A	N23°24’49.1082	E72° 46’ 46.9019
B	N23°24’43.0856	E72° 46’ 55.8459
C	N23°24’40.5278	E72° 46’ 58.5063
D	N23°24’37.9153	E72° 46’54.6972
E	N23°24’40.5411	E72° 46’52.4027
F	N23°24’45.1302	E72° 46’45.0090

13.	Manpower requirement	13 Nos.
14.	Applicability of CRZ Notification	Not applicable
15.	Minimum Setback distance proposed to be maintained from River Bed (m)	10 M
16.	Minimum buffer distance from bridge piers / water intake wells / irrigation structures	Does not exist
17.	Maximum depth of sand removal (3 m or water depth whichever is less)	3 M
18.	Width of Riverbed (m)	300 M

19.	Average depth of water at lease area (m)	1 M
20.	Depth of mining (m)	1 M
21.	Ground Water Table in meter BGL	10 – 13 M
22.	Does ground water interfere approach road exit? (Yes / No) If yes, status report of CGWA	No
23.	Distance between lease and main road	4.80 Km
24.	Length of kaccha road (m)	2.00 Km
25.	Length of pacca road (m)	2.80 Km
26.	Plan for making pacca road	Not Applicable
27.	Source of fresh water	Tube well
28.	Water requirement (kLPD)	
	a. Domestic	1.00
	b. Dust suppression	1.00
	c. Gardening / Green belt development	1.00
	d. others	-----
29.	Whether the Undertaking is submitted for identical information provided in Form I, Approved Mining Plan, Project Details validated by District Geologist, Pre-Feasibility Report, Lease Document, Environment Management Plan and other documents	Yes

B. Environmental Sensitivities:

Sr NO	**Environmental Sensitivities**	**Actual Distance**	**Minimum Distance**	**Reference**
1.	Residential	700 m	100 m (When Blasting is not involved)	As per order of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020
	Public buildings	700 m		
	Inhabited sites	700 m		As per order of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020
2.	A. Major Bridge	4.80 Km	1 km	On both sides of the lease (as per Sustainable Sand Mine Guideline of MOEF&CC)
	B. Highway	4.80 Km	1 km	On both sides of the lease (as per Sustainable Sand Mine Guideline of MOEF&CC)

OR				
3.	Bridge(Span of Bridge as X)	Not Exist	a. 5X in upstream or 250 m. b. 10X in down stream or 500 m	As per Sustainable Sand Mine Guideline of MOEF&CC
4.	Public Structure including water intake wells	Not Exist	a. 5X in upstream or 250 m. b. 10X in down stream or 500 m	As per Sustainable Sand Mine Guideline of MOEF&CC
5.	Depth of working	1 M	1 M or water level whichever is early	As per order of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020)
6.	Set Back Distance to prevent river bank erosion	10 M	10 M or 1/4th of width of river	As per order of Honorable SC dtd 27.02.2020 and Sustainable Sand Mine Guideline of MOEF&CC
7.	Mineable Material per Hectare area for actual mining shall not exceed maximum production	16680	60,000 MTPA Per Hectare	As per Sustainable Sand Mine Guideline of MOEF&CC
8.	Water supply Scheme/Irrigation structure	Not Exist	200 M	As per Sustainable Sand Mine Guideline of MOEF&CC
9.	Railway Line	Not Exist	100 M	As per Sustainable Sand Mine Guideline of MOEF&CC
10.	Reservoir/Canal	Not Exist	100 M	As per CPCB Distance Criteria And order of of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020

11.	Other Road	Not Exist	100 M	As per CPCB Distance Criteria And order of of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020
12.	Eco-Sensitive Zone (if notified)	Not Applicable	>1 km / outside the notified Eco-Sensitive Zone	Vide directives of MOEF&CC dtd 16.07.2020
13.	Eco-Sensitive Zone (if not notified)	Not Applicable	>1 km and <10 km = Prior Clearance from NBWL is required	Vide directives of MOEF&CC dtd 16.07.2020
14.	Distance of Coastal line from the site	Not Applicable	>500 M from HTL	Amended CRZ Notification 2011

C. Details of Mining:

1.	Method of Mining (Manual / Semi-mechanized / Mechanized).	Semi-mechanized	
2.	Equipments to be used for Mining bulldozers, hydraulic excavators, JCB, scrapers, loaders, Diesel Pump, etc.)	Excavators & Dumpers	
3.	Whether it includes blasting?	No	
4.	Details of Authorized Blasting Agency with date of validity certificate	Not applicable	
5.	Procedure / SOP (in brief)	**Parameters**	**Testing method**
		$PM_{2.5}$	UMT/SOP/31/AA-$PM_{2.5}$ – 01
		PM_{10}	IS: 5182 (P-23) 2006 R 2017
		SO_2	IS: 5182 (P-2) 2001R 2017
		NO_2	IS: 5182 (P-6) 2006 R 2017
6.	Details of Blasting Parameters in brief	Not applicable	
7.	Frequency of blasting	Not applicable	
8.	Impact of blasting	Not applicable	
9.	Outcome of Vibration study	The main source of noise pollution and vibrations will be (i) movement of trucks (ii) Operation of excavator (iii) other machineries etc.	
10.	Blasting Activity Management Plan	Not applicable	
11.	Use of any Chemical with quantity	Not applicable	

12.	Precautions taken for Human Safety in brief	All the statutory precautions should be taken for quick evacuation as per the Mines Act 1952, the Mines Rules 1955, MMR-1961 and MCDR-1988.
13.	Crusher provided? If Yes, Measures taken for Air Pollution Control	Not Applicable
14.	Compliance of DGMS Guidelines for Blasting	Not Applicable
15.	Compliance of Sustainable Sand Mine Guidelines published by MoEFCC in 2016	Evidence attached
16.	Whether Replenishment Rate Study is approved by District Geologist? If yes, conclude in brief	No

D. Details of Green Belt Development:

1.	a. Green belt development budget	30,000/-
	b. Green belt area / location	Nearby village & approach Road
	c. No. of trees to be planted	About 400 saplings / year will be planted along the approach road and nearby villages. Total 2.00 ha. area will be planted up to end of 5th year.
	d. Types of trees to be planted	**TABLE 9.3: PLANTATION SPECIES**

S. No.	**SPECIESSCIENTIFIC NAME**	**LOCAL NAME**
1.	Azadirachta indica	Neem
2.	Dalbargia sisso	Shisham
3.	*Polyalthia longifolia*	Ashok
4.	Mangifera indica	Mango
5.	Tectona grandis	Sagwan
6.	Ficus religiosa	Pipal

E. Details of Environment Management Plan:

1.	**Details of EMP**
	a. Land Environment
	b. Water Environment
	c. Air Environment
	d. Noise Environment
	e. Biological Environment
	f. Human Environment
	g. Others

S. No.	**Measures**	**Cost (in Rs)**
1	Pollution Control i) Dust Suppression	40,000 /-
2	Pollution Monitoring i) Air Pollution ii) Water pollution iii) Noise pollution	30,000 /-
3	Green Belt	30,000 /-
Total		**1,00,000 /-**

2.	Occupational health & safety measures as per DGMS	• Regular water sprinkling on haul roads. • Dust mask will be provided to the workers. • Periodical medical examinations will be carried out for the workers as per Norms. • Medical records will be kept maintained. • Medical facilities to the workers. • Any early symptom of diseases, if observed, such workers will be taken off in the dusty atmosphere and suitable employed elsewhere. • Personal Protective Equipment's will be provided to the workers. • Vocational Training will be provided to the workers. Safety of the employee during mining will be taken care as per Mine Regulations.
3.	Safety measures proposed	
	a. Is First Aid facility provided by PP?	
	b. Details of PPEs	
	c. Whether Registration of Workers under Building and other Construction Workers' (regulation of Employment & Conditions of Service) Act, 1996 and as Beneficiaries with the Gujarat Building and other Construction Workers Welfare Boards is obtained or not?	
	d. Insurance of Workers	
	e. Health checkup plan of workers	

F. Transportation:

1.	No. of vehicles per day carrying Minerals	3 Tipper
2.	Fugitive dust emission control measures	Water sprinkling & Plantation
3.	Route plan in brief	Enclosed

G. Financial details of the Project:

1.	Total cost of the project (Lakh)	50.00 Lakh
	a. Upfront cost (Lakh)	---------Nil ----------
	b. Performance Security (Lakh)	---------Nil ----------
	c. Total Royalty (Lakh)	---------Nil ----------
	d. Weigh Bridge Cost (Lakh)	---------Nil ----------
	e. Labor cost equipment (Lakh)	---------Nil ----------
	f. Equipment protection and implementation cost (Lakh)	---------Nil ----------
	g. Green Belt Development & maintenance cost (Lakh)	---------Nil ----------
	h. Cost of EMP (Lakh)	---------Nil ----------
	i. Cost of Safety measures (Lakh)	---------Nil ----------
	j. Cost of Post-Closure Mine Plan (Lakh)	---------Nil ----------
2.	Budget allocated for CER (Lakh)	100,000/-
3.	Is need based survey for CER carried out? (Yes / No) If yes, give details of activities along with Budgetary Outlay	SN | Activity | Budget (1st year | 2nd year | 3rd year)

H. Restoration / Reclamation Plan:

1.	Restoration / Reclamation Details	Not Applicable
2.	Post mining closure plan	Not Applicable
3.	Backfilling material and its quantity	Not Applicable
4.	Size of void for Rain Water Harvesting after backfilling	Not Applicable
5.	Post Closure Liability / Safety aspects and	Not Applicable

	Measures to be taken to avoid wild life and human accidents/ causalities	
6.	Display of Caution Boards at strategic locations on the periphery of the pit area	Not Applicable
7.	Final Use of reservoir/ reclaimed land	Not Applicable

I. Details of Legal Action / Court Case:

1.	Details of Pending Court matter / Public Litigation Cases in any court of Law	No any pendency
2.	Details of Action taken by GPCB, if any	Not applicable
3.	Details of public complaint , if any	Not applicable
4.	Compliance of EC by RO-GPCB or MoEFCC-Bhopal	No EC compliance will be after grant Environment Clearance.

J. Contact Details:

1.	**Contact details of Applicant**	
2.	Name	Sh. Dhawal Bhai Daya Bhai Patel
3.	Address	Plot no. 483/2, Sector-28, Opp. Banaskantha Society, Ganghinagar, Gujarat – 382028.
4.	Contact no.	+91 8780429263
5.	Email Id	**dhavalbhaimine@gmail.com**
6.	**Contact details of Consultant**	
7.	Name	Udaipur Min – Tech Pvt. Ltd.
8.	Address	206, Apeksha Complex, Hiran Magri, Sector- 11, Udaipur- 313002
9.	Contact no.	+91 9414167672
10.	Email Id	ssbist@udrmintech.com

Deliberation:

- The representative Mr. Bist of M/s. Udaipur Min – Tech Pvt. Ltd. (NABET accredited, valid up to 18.06.2021) remained present in the meeting along with PP.
- Mr. Bist informed the Committee that the PP has obtained TOR vide SEIAA letter no. SEIAA/GUJ/TOR/1(a)/1323/2019, dated 03.10.2019.
- Baseline study is carried out for the period of October to December 2019.
- Public hearing was held on 05.11.2020.

Committee noted that the nearest human habitation is located at the distance of 700 m from the lease. During the meeting, method of mining, rate of mining, depth of mining, water source and its requirement, green belt development, EMP, CER activities etc. Committee asked PP to complete tree plantation within 2 years of inception of project. Committee deliberated on TOR conditions issued by SEIAA vide above sited letter.While deliberating on compliance of TOR conditions, Committee couldn't find the submission satisfactory. Looking to the above, Committee unanimously decided to consider the proposal in upcoming SEAC meeting upon submission of revised EIA report incorporating below mentioned details:

a. The copy of Approved Mining Plan shall be incorporated in EIA report.
b. Conservation plan for peacock approved by the Competent Authority of Deaprtment of Forest, Govt. of Gujarat.
c. CER activities shall be revised in terms of providing facilities for drinking water
d. Issues raised during public hearing shall be incorporated properly.
e. Replenishment Rate Study report for Sand, validated by District Geologistshall be submitted.

2. WHITE CLAY / CHINA CLAY MINING, DIST: KUTCH – B1 APPRAISAL

Application No	Name of Project	S.No.	Village	Taluka	Dist	Lease Area	Validity of lease	ROM	Nearest Human Habitation	End Use	Investment in Rs	Date of Application Received by SEAC
SIA/GJ/MIN/36850/2019	Karman Gopal Jatiya	141/1 paiki	Mamuara	Bhuj	Kutch	3.00.38 Ha	Lease granted on 27.12.2018 for 30 years	1,20,003 MTPA	Mamuara – 710 m	Ceramic Industry	Rs.50 Lakh	20.05.2021

The project falls under B1 Category – 1(a), i.e. Mining of Minerals as per the provision of EIA Notification, 2006. Project Proponent has applied to obtain Environment Clearance (EC) for mining of White Clay / China Clay.

A. Basic Information of the Project:

1.	Name of Project as per Form I	Karman Gopal Jatiya
2.	Address of the lease	PVT Sr. No. 141/1 Paiky Village: Mamuara, Ta: Bhuj, District:Kutch
3.	Name of lease holder	Karman Gopal Jatiya
4.	Lease area (Ha)	03-00-48 Ha
5.	Cluster Details	
	a. Total no. of leases in the cluster	20
	b. No. of TOR granted in cluster	N.A.
	c. No. of EC granted in cluster	N.A.
	d. Total area of the cluster	133.88.19
	e. Maximum individual lease area	29.00.00
	f. Minimum individual lease area	01.33.00
6.	Validity of lease with the date of expiry	31-03-2035 Years
7.	Rate of Mining (MT/Annum)	1,20,003 TPA(MT/Annum)
8.	Details of EC obtained (for expansion projects), if any	Proposed project and EC is to be obtained.
9.	Name of River Bed	Other than river sand mining project
10.	Is the river perennial / non-perennial?	N.A
11.	Lease area (submerged / in stream / on dry	N.A.

	river bed)	
12.	All coordinates of the lease area as per Approved Mining Plan	A 23°17'8.34"N 69°52'54.01"E B 23°17'8.91"N 69°52'56.16"E C 23°17'9.03"N 69°52'58.91"E D 23°17'1.81"N 69°52'59.60"E E 23°17'6.66"N 69°52'55.75"E
13.	Manpower requirement	15
14.	Applicability of CRZ Notification	CRZ notification is not applicable.
15.	Minimum Setback distance proposed to be maintained from River Bed (m)	N.A.
16.	Minimum buffer distance from bridge piers / water intake wells / irrigation structures	N.A.
17.	Maximum depth of sand removal (3 m or water depth whichever is less)	N.A.
18.	Width of Riverbed (m)	N.A.
19.	Average depth of water at lease area (m)	N.A.
20.	Depth of mining (m)	15 m.
21.	Ground Water Table in meter BGL	40 to 50 m
22.	Does ground water interfere approach road exit? (Yes / No) If yes, status report of CGWA	No, it does not.
23.	Distance between lease and main road	S.H.42- 3.34 km
24.	Length of kaccha road (m)	1.67 km
25.	Length of pacca road (m)	3.34 km
26.	Plan for making pacca road	-
27.	Source of freshwater	Source of fresh Water is by tanker supply
28.	Water requirement (kLPD)	10.05
	a. Domestic	2.0
	b. Dust suppression	3.5
	c. Gardening / Green belt development	5.00
	d. others	-
29.	Whether the Undertaking is submitted for identical information provided in Form I, Approved Mining Plan, Project Details validated by District Geologist, Pre-Feasibility Report, Lease Document, Environment Management Plan and other documents	Submitted.

B. Environmental Sensitivities:

Sr. No.	Environmental Sensitivities	Actual Distance	Minimum Distance	Reference
1	Residential	Mamuara-0.71 km	100 m (When Blasting is not involved)	As per CPCB Distance Criteria And order of of NGT before Principal Bench in the O.A. NO 85/2019 (WZ) dtd 30.09.2020
	Public buildings	Mamuara-0.71 km		
	Inhabited sites	Mamuara-0.71 km		
	Protected Monuments	Ram Kund (Bhuj) – 22.63 km		
	Heritage Sites	Aina Mahal(Bhuj) – 22.07 km		
	National / State Highway	S.H. 42 – 3.34 km N.H. 8A- 23.12 km		
	District Roads	3.34 km		
	Public Roads	3.24 km		
	Railway Line / Area	9.48 km		

	Ropeway or Ropeway trestle or station	Junagadh Rope Way-204.93 km		
	Bridges	Near Habay-6.86 km		
	Dams	Tappar Dam- 26.80 km		
	Reservoirs	reservoir near mamuara-1.98 km		
	River	Local river near Mamuara-3.69 km		
	Canal	Canal Near Tappar -27.32 km		
	Lakes	Near Mamuara - 0.57 Km		
	Tanks	Mamuara -1.25 km		
2	Eco-Sensitive Zone (if notified)	No Eco-Sensitive zone within 10 km. boundary of lease.	>1 km / outside the notified Eco-Sensitive Zone	Vide directives of MOEF&CCdtd 16.07.2020
3	Eco-Sensitive Zone (if not notified)	No Eco-Sensitive zone within 10 km. boundary of lease.	>1 km and <10 km = Prior Clearance from NBWL is required	Vide directives of MOEF&CCdtd16.07.2020
4	Distance of Coastal line from the site	No Coastal line within 10 km boundary of lease.	>500 M from HTL	Amended CRZ Notification 2011

C. Details of Mining:

1.	Method of Mining (Manual / Semi-mechanized / Mechanized).	Open Cast Semi-mechanized mining method is adopted
2.	Equipment's to be used for Mining bulldozers, hydraulic excavators, JCB, scrapers, loaders, Diesel Pump, etc.)	Hydraulic Excavator, JCB & Loaders are equipment in use for mining activities.
3.	Whether it includes blasting?	Blasting is Not proposed in approved mining plan.
4.	Details of Authorized Blasting Agencywith date of validity certificate	N.A.
5.	Procedure / SOP (in brief)	N.A.
6.	Details of Blasting Parameters in brief	N.A.
7.	Frequency of blasting	N.A.
8.	Impact of blasting	N.A.
9.	Outcome of Vibration study	N.A.
10.	Blasting Activity Management Plan	N.A.
11.	Use of any Chemical with quantity	N.A.
12.	Precautions taken for Human Safety in brief	N.A.
13.	Crusher provided? If Yes, Measures taken for Air Pollution Control	N.A.
14.	Compliance of DGMS Guidelines for Blasting	N.A.
15.	Compliance of Sustainable Sand Mine	N.A.

	Guidelines published by MoEFCC in 2016	
16.	Whether Replenishment Rate Study is approved by District Geologist? If yes, conclude in brief	N.A.

D. Details of Green Belt Development:

1.	a. Green belt development budget	1.50 Lakh
	b. Green belt area / location	SBZ area
	c. No. of trees to be planted	2480 trees during plan period.
	d. Types of trees to be planted	**Azadirachta indica** – Dust,Air& Noise pollutant tollerance **Ficus Religiosa**– Air & Noise pollutant tollerance **Delonix regia** – Dust & noise pollutant tolerance

E. Details of Environment Management Plan:

1.	**Details of EMP**	**Impact**	**Mitigation Measures**
	a. Land Environment	Since mining is essentially an excavation of mineral ore the land environment is greatly affected by it, especially in the case of opencast mines: (a) The topsoil in the active mining area gets adversely affected. (b) The soil quality of the surrounding area are also likely to get affected due to siltation and run off from waste dumps. (c) The mine drainage, if it is acidic and containing toxic constituents, not adequately treated when discharged to nearby land would affect the soil quality adversely; when discharged untreated into streams effects the quality of water and make in unfit for agricultural use. (d) Agriculture is also directly linked to soil. If soil quality deteriorates, the agricultural productivity of the land decreases.	Adopting suitable, site-specific mitigation measures can reduce the degree of impact of mining on land. Some of the land-related mitigation measures are as follows: (a) Topsoil is should be kept in a designated area and should be given minimum storage time to prevent nutrient loss. (b) Garland drains, ditches, catch pits in different combinations should be provided to prevent run off affecting the surrounding agricultural land. These are to be designed looking into the locational site features. (c) Mine drainage is to be treated adequately before discharge to stream outside the boundary of the project area. (d) Non-mineral zones and open areas should be planted with trees. (e) Siltation of agricultural land should be prevented.
	b. Water Environment	Mining and its associated activities not only use a lot of water but also likely to affect the hydrological regime of the area : (a) The major impact of deep and large mines is of natural	The following mitigation measures are suggested for water management and water pollution control. However, priority relevance depends on the location

		groundwater table. (b) Lowering of water table may result in reduced groundwater availability (c) Extraction of different minerals is known to lead to water pollution due to heavy metal, acid discharges and increased suspended solids. However, the impact of mining project on groundwater hydrology and surface water regime are site specific and depends upon the characteristics of the mineral, hydrogeology and requirement of groundwater for other uses.	and type of mining and minerals: (a)The overall drainage planning should be done in such a manner that the existing pre-mining drainage conditions should be maintained to the extent possible so that run off distribution is not affected. (b)drainage conditions should be maintained to the extent possible so that run off distribution is not affected ©The surplus treated mine water should be discharged into local ponds and agricultural fields which should act like a constant source of recharge to improve the groundwater level in the area (d)Rainwater harvesting by constructing check dams on natural nallah and developing water bodies should be planned for recharging groundwater. (e) (i)Stone barriers across the drain should be constructed to check the water current and arrest solids. (ii)Stone pitching should be made at suitable location to regulate water flow and prevent soil erosion. (iii) Settling pits and drains should be periodically desilted.
	c. Air Environment	Mining operation and associated activities are potentially air polluting and the major air pollutant is the suspended particulate matter. (a)Most of the air pollution problems are due to fugitive dust emission, which is more prominent in open cast mines (b)The intensity of dust generation in the mining is influenced by factors such as hardness of rock, mining technology and material handling etc.	Mitigation measures at various dust generating activities are discussed below: **(A)Paved surfaces**: Paved surfaces have less dust generation potential. Dust pick-up by wind depends on the wind speed and is usually significant at wind speeds above 5 meters per second. However slight speed of vehicle can cause higher dust generation. Dust emissions from paved surfaces can be minimized by adopting following measures: Prevent spillages of materials on the paved surfaces during materials transportation. (a) Minimize mud and dust track-out from unpaved areas by the use of wheel wash facilities. (b)Regular cleaning of paved

			surfaces, using mobile vacuum sweeper or a water flushing system. (c)Speed controls on vehicle movements. (d)Wind reduction control by plantation. **(B)Unpaved Surfaces :** Dust emissions from unpaved surfaces are caused than from paved surfaces are usually much greater. Dust emissions can be controlled by using the following methods: (a) Water sprinkling on unpaved areas during dry wind periods, using a water tanker/or fixed sprinklers. (b)Chemical stabilization can also be used in association with wet suppression. (c) Surface improvements may be done with concrete or asphalt or the addition of gravel or chemical dust suppression to the surface for stabilization. (d) Speed controls on vehicle movements to limit speeds. (e)Wind reduction control by plantation. (f)Wetsuppressionofunpavedareascanachievedustemissionreductionsofabout70 percentor more, and this can sometimes be increased by up to 95% through the use of chemical stabilization. (g)Treescanactasefficientbiological filters.Thesystematicandplannedgreenbelt development not only reducesthefugitivedustbutalsochecksrunoffandimprovestheaestheticbeautyofan area.
	d. Noise Environment	Noiselevelincreaseduetominingactivitiessuchasexcavation,drilling,blasting,handlingand transportation of ore and overburden and operation of processing equipment: (a)Noise Pollution due to drilling & Blasting if applicable. (b) Noise Pollution due to use of heavy machineries.	The following mitigation measures can be adopted to control noise: (a)Selectionofnewlow-noiseequipmentfromthemanufacturesfailingwhichuseofadditional retrofits if available. (b)Modifications of the older equipment or method by incorporating minor design

			changes. (c)Implementationofaneffectivepla nnedpreventivemaintenancewhichr educesnoiselevelbymorethan 50%. (d)When all controls failt ore ducethelevelofnoiseenteringtheear ,byuseofpersonalhearingprotection devices.
	e. Biological Environment	*Anticipated Impact(Flora and Fauna):* • Impactonforestresources,economi callyimportantplants,medicinalpla ntsandthreatto rare,endemicandendangeredspec ies • Impactonterrestriallandaquaticbiodi versity • Impactonwildlifeincludinggavi-fauna • Impactonwildlifehabitatandmigrator ycorridors • Impactonfloraandfaunaduetoairem issions,noise,vibration,illumination ,vehicularmovement,wastewaterdi scharges,changesinlanduse,town shipetc.	Measures to compensate the loss off rest coverage: ➢ Regenerationofrareanden dangeredplantsofecono micimportanceincluding medicinal plants. ➢ Measuresforprotectionan dconservationofwildlifesp ecies ➢ Greenbeltanditsraisingsc hedule ➢ Progressiveafforestationi noverburden,reclaimedm inedoutareas
	f. Human Environment	Mining activity in an area has long term irreversible impact on Human Environment like local, sociological, cultural and economic situation. (a) People are directly affected due to pollution. (b) Health issues and spread of mining related dieses	Following mitigation measures are suggested: • A welfare plan with funding from the project proponent should be prepared to provide assistance to affected people. • The infrastructure facility (Educational Institute, Water Supply, Health Care etc.) developed by the project should also be extended to people without any cost or minimal cost. • Medical aid and regular check up. • Various compensatory packages to be formulated for the improvement of socio-economic condition of people. They are: (i)Monetary compensation.

			(ii) Compensation in kind (iii)Training to locals to develop skill should be promoted by the project.
	g. Others	None	None
2.	Occupational health & safety measures as per DGMS	The guidelines declared by DGMS for Health & safety time to time are followed strictly and being complied.	
3.	Safety measures proposed	No drilling & Blasting is required for the mining of White/China Clay mineral, however require safety measures like compulsory use of PPE's on operation place, regular checkup of labors for health issues and free medicine to labors.	
	a. Is First Aid facility provided by PP?	Yes, First Aid facility is 24 hours available at site of operation of mining.	
	b. Details of PPEs	Mineworkers require specific Personal Protection Equipment (PPE) to protect the entire body from any harm or injury in the mining environment are: (1) **Head and face protection**:This comprises of a hard hat, safety glasses, ear plugs and half-face or full-face masks. (2) Feet and leg protection:The standard footwear for optimal foot and leg protection are heavy-duty boots.	
	c. Whether Registration of Workers underBuilding and other Construction Workers' (regulation of Employment &Conditions of Service) Act, 1996 and as Beneficiaries with the Gujarat Building and other Construction Workers Welfare Boards is obtained or not?	Project is on contract base.	
	d. Insurance of Workers	Workers are insured with accident policy.	
	e. Health checkup plan of workers	Health plan of workers is adopted and it is being carried out twice in every month regularly.	

F. Transportation:

1.	No. of vehicles per day carrying Minerals	20 Trucks

2.	Fugitive dust emission control measures	Water Sprinkling, Speed limit of loaded and un loaded vehicles, PUC
3.	Route plan in brief	1.47 km long with 4.5 m. width approach rout is there.

G. Financial details of the Project:

1.	Total cost of the project (Lakh)	50.00
	a. Upfront cost (Lakh)	-
	b. Performance Security (Lakh)	-
	c. Total Royalty (Lakh)	-
	d. Weigh Bridge Cost (Lakh)	-
	e. Labor cost equipment (Lakh)	-
	f. Equipment protection and implementation cost (Lakh)	-
	g. Green Belt Development & maintenance cost (Lakh)	-
	h. Cost of EMP (Lakh)	-
	i. Cost of Safety measures (Lakh)	-
	j. Cost of Post-Closure Mine Plan (Lakh)	It is included in cost of EMP
2.	Budget allocated for CER (Lakh)	1
3.	Is need based survey for CER carried out? (Yes / No) If yes, give details of activities along with Budgetary Outlay	

Sr.	Activity	Budget
		1st year 2nd year 3rd year 4th year 5th year
1	Provide drinking water facility : (1) In surrounding villages and schools by hand pump/water tank. (2) Water cooler with RO purifier at village school / Panchayat Building. (3) Donation for Overhead Tank in slum area of village.	25,000/-
2	Health camps : (1) Free Doctor Consultation (2) Free medicine (3)	25,000/-

			Arrangements of Blood Donation Camps.	
		3	Educational support to poor students of the village specially girls : (1) Scholarship, School Dress, Books etc. to poor students. (2)Arrangement of different competitions with Awards in school (3) Inter School sport competition and Awards distribution. (4) Donation for Sports instruments & developments of sports grounds.	25,000/-
		4	Development Programme : 1) Donation for Toilet facility in slum area of village. 2) Plantation including Maintenance around School &Panchayat Building . 3) Plantation including Maintenance in the internal roads of Village.	25,000/-

H. Restoration / Reclamation Plan:

1.	Restoration / Reclamation Details	0.6056 ha. Area will be reclaimed by refilling area.

2.	Post mining closure plan	Mine closure will be in two step (1) Progressive mine closure and (2) Final mine closure. As per approved plan at end of mine the 0.5010 SBZ & 00.22.18 ha. area will be reclaimed by refilling area will be developed with plantation of dust & Noise tolerance species of vegetation and rest 1.8982 ha. will be converted as water reservoir with parapet fencing to avoid accident .
3.	Backfilling material and its quantity	Back filling is proposed in approved mining plan.
4.	Size of void for Rain Water Harvesting after backfilling	It is rain scarcity area and the size of backfilled area is 0.6056 ha. Which is negligible for rain water harvesting.
5.	Post Closure Liability / Safety aspects and Measures to be taken to avoid wild life and human accidents/ causalities	In Post Closure Liability / Safety aspects and Measures to be taken like proposal of wired fencing and buffer plantation on SBZ area around lease boundary to avoid illegal entry and stone parapet having 4 feet high around mined out area or Pit to avoid accident or causalities to domestic animal and human life. Pit will be used as water reservoir till it will re gain as grazing land step by step.
6.	Display of Caution Boards at strategic locations on the periphery of the pit area	
7.	Final Use of reservoir/ reclaimed land	Reclamation is proposed land mined out pit will be used as water reservoir till it will reclaimed and at the end the total area will be reclaimed as Agriculture land.

I. Details of Legal Action / Court Case:

1.	Details of Pending Court matter / Public Litigation Cases in any court of Law	No any matter against project is pending in any court of law.
2.	Details of Action taken by GPCB, if any	None
3.	Details of public complaint , if any	None
4.	Compliance of EC by RO-GPCB or MoEFCC-Bhopal	None

J. Contact Details:

1.	**Contact details of Applicant**	Karman Gopal Jatiya
2.	Name	Karman Gopal Jatiya

3.	Address	-
4.	Contact no.	9825598285
5.	Email Id	-
6.	**Contact details of Consultant**	P & M Solution
7.	Name	Hussain Ziauddin
8.	Address	1st Floor, C-88, Sector -65, Noida-201301
9.	Contact no.	9015858114
10.	Email Id	hussainziauddin234@gmail.com

Deliberation:

- ✓ Shri Bhanjibhai from M/s. P & M Solution (QCI/NABET accredited Consultant) remained present in the meeting and they have submitted the Authorization letter of PP for same.
- ✓ Shri Bhanjibhai informed the Committee that the PP has obtained TOR vide SEIAA letter no. SEIAA/GUJ/TOR1(a)/1217/2019, dated 23.08.2019 and Amendment vide letter no. SEIAA/GUJ/TOR1(a)/785/2020, dated 29.06.2020.
- ✓ Baseline study is carried out for the period of December 2019 to February, 2020.
- ✓ Public hearing was held on 12.01.2021.

- Committee deliberated on the cluster situation and noted that there are total 20 leases in the cluster out of which, 8 leases have obtained TOR till date and hence public hearing was held for these 8 leases only.
- Committee noted that the cluster map was not validated by District Geologist.Committee deliberated on the location of the lease and noted that River Sang is located within the 10 km radius of the lease.
- Committee found the discrepancy in the source of water supply, i.e. tanker and the same mentioned in EIA report is Ground water. Committee noted that analysis report for free silica content in PM_{10} is not included in EIA report.
- Vehicular Traffic Density study reveals that the Level of Service (LOS) on SH-42 will Change from ‘A’ and ‘B’ to ‘D’ i.e. Poor and on Lakhond Chapredi Road it will change to ‘E’ i.e. very poor. So there will be additional load on the carrying capacity of the SH-42 as well as that of the Lakhond Chapredi Road. The Mitigation measures for the same are not addressed.
- While deliberating on the EIA report prepared, Committee found many discrepancies, i.e. existence of surface water body near the lease area. In EIA report, it is stated that the study for surface water is carried out and on other hand, it is claimed by the PP that no surface water body is located nearby the lease area.

Looking to the above, Committee unanimously decided to consider the proposal in upcoming SEAC meeting upon submission of revised EIA report incorporating above mentioned points as well as all the TOR conditions thoroughly.

3. WHITE CLAY / CHINA CLAY MINING, DIST: KUTCH – B1 APPRAISAL

Application No	Name of Project	S.No.	Village	Taluka	Dist	Lease Area	Validity of lease	ROM	Nearest Human Habitation	End Use	Investment in Rs	Date of Application Received by SEAC
SIA/GJ/MIN/61096/2019	Shri Arjanbhai Karabhai Chhanga	247/2, 248/1	Nadapa	Bhuj	Kutch	2.61.00 Ha	Lease granted on 18.02.2019 for 30 years	1,00,711 MTPA	Nadapa – 2.75 km	Cement Industry	Rs.62 lakh	20.05.2021

The project falls under B1 Category – 1(a), i.e. Mining of Minerals as per the provision of EIA Notification, 2006. Project Proponent has applied to obtain Environment Clearance (EC) for mining of White Clay / China Clay.

A. Basic Information of the Project:

1.	Name of Project as per Form I	Arjanbhai Karabhai Chhanga
2.	Address of the lease	PVT Sr. No. 247/2, 248/1 Paiky Village: Nadapa, Ta: Bhuj, District:Kutch
3.	Name of lease holder	Arjanbhai Karabhai Chhanga
4.	Lease area (Ha)	02-61-00Ha
5.	Cluster Details	
	a. Total no. of leases in the cluster	20
	b. No. of TOR granted in cluster	N.A.
	c. No. of EC granted in cluster	N.A.
	d. Total area of the cluster	133.88.19
	e. Maximum individual lease area	29.00.00
	f. Minimum individual lease area	01.33.00
6.	Validity of lease with the date of expiry	31-03-2035 Years
7.	Rate of Mining (MT/Annum)	1,00,711 TPA(MT/Annum)
8.	Details of EC obtained (for expansion projects), if any	Proposed project and EC is to be obtained.
9.	Name of River Bed	Other than river sand mining project
10.	Is the river perennial / non-perennial?	N.A
11.	Lease area (submerged / in stream / on dry river bed)	N.A.

12.	All coordinates of the lease area as per Approved Mining Plan	A 23°17'32.3"N 69°54'16.2"E B 23°17'32.6"N 69°54'17.5"E C 23°17'30.7"N 69°54'20.4"E D 23°17'30.9"N 69°54'21.4"E E 23°17'29.5"N 69°54'21.9"E F 23°17'19.4"N 69°54'24.0"E G 23°17'22.5"N 69°54'21.0"E H 23°17'26.7"N 69°54'18.5"E I 23°17'23.4"N 69°54'19.0"E J 23°17'23.6"N 69°54'17.8"E K 23°17'29.8"N 69°54'16.6"E
13.	Manpower requirement	30
14.	Applicability of CRZ Notification	CRZ notification is not applicable.
15.	Minimum Setback distance proposed to be maintained from River Bed (m)	N.A.
16.	Minimum buffer distance from bridge piers / water intake wells / irrigation structures	N.A.
17.	Maximum depth of sand removal (3 m or water depth whichever is less)	N.A.
18.	Width of Riverbed (m)	N.A.
19.	Average depth of water at lease area (m)	N.A.
20.	Depth of mining (m)	14.5 m.
21.	Ground Water Table in meter BGL	50 to 55 m
22.	Does ground water interfere approach road exit? (Yes / No) If yes, status report of CGWA	No, it does not.
23.	Distance between lease and main road	S.H.42- 2.90km
24.	Length ofkaccha road (m)	0.81 km
25.	Length of pacca road (m)	2.90 km
26.	Plan for making pacca road	-
27.	Source of freshwater	Source of fresh Water is by tanker supply
28.	Water requirement (kLPD)	10.55
	a. Domestic	1.35
	b. Dust suppression	5.4
	c. Gardening / Green belt development	3.8
	d. others	-
29.	Whether the Undertaking is submitted for identical information provided in Form I, Approved Mining Plan, Project Details validated by District Geologist, Pre-Feasibility Report, Lease Document, Environment Management Plan and other documents	Submitted.

B. Environmental Sensitivities:

Sr. No.	Environmental Sensitivities	Actual Distance	Minimum Distance	Reference
1	Residential	Nadapa-2.75 km	100 m (When Blasting is not involved)	As per CPCB Distance Criteria And order of of NGT before Principal Bench in the O.A. NO 85/2019 (WZ) dtd 30.09.2020
	Public buildings	Nadapa-2.75 km		
	Inhabited sites	Nadapa-2.75 km		
	Protected Monuments	Ram Kund (Bhuj) – 25.05 km		
	Heritage Sites	Aina Mahal(Bhuj) – 24.48 km		

	National / State Highway	S.H. 42 – 2.90 km N.H. 8A- 22.37 km		
	District Roads	2.90 km		
	Public Roads	1.97 km		
	Railway Line / Area	11.62 km		
	Ropeway or Ropeway trestle or station	Junagadh Rope Way-204.78 km		
	Bridges	Near Habay-7.01 km		
	Dams	Tappar Dam- 24.50 km		
	Reservoirs	reservoir near mamuara-0.88 km		
	River	Local river near Mamuara-2.19 km		
	Canal	Canal Near Tappar -25.08 km		
	Lakes	Near Mamuara - 1.10 Km		
	Tanks	Mamuara -2.94 km		
2	Eco-Sensitive Zone (if notified)	No Eco-Sensitive zone within 10 km. boundary of lease.	>1 km / outside the notified Eco-Sensitive Zone	Vide directives of MOEF&CCdtd 16.07.2020
3	Eco-Sensitive Zone (if not notified)	No Eco-Sensitive zone within 10 km. boundary of lease.	>1 km and <10 km = Prior Clearance from NBWL is required	Vide directives of MOEF&CCdtd16.07.2020
4	Distance of Coastal line from the site	No Coastal line within 10 km boundary of lease.	>500 M from HTL	Amended CRZ Notification 2011

C. Details of Mining:

1.	Method of Mining (Manual / Semi-mechanized / Mechanized).	Open Cast Semi-mechanized mining method is adopted
2.	Equipment's to be used for Mining bulldozers, hydraulic excavators, JCB, scrapers, loaders, Diesel Pump, etc.)	Hydraulic Excavator, JCB & Loaders are equipment in use for mining activities.
3.	Whether it includes blasting?	Blasting is Not proposed in approved mining plan.
4.	Details of Authorized Blasting Agencywith date of validity certificate	N.A.
5.	Procedure / SOP (in brief)	N.A.
6.	Details of Blasting Parameters in brief	N.A.
7.	Frequency of blasting	N.A.
8.	Impact of blasting	N.A.
9.	Outcome of Vibration study	N.A.
10.	Blasting Activity Management Plan	N.A.
11.	Use of any Chemical with quantity	N.A.

12.	Precautions taken for Human Safety in brief	N.A.
13.	Crusher provided? If Yes, Measures taken for Air Pollution Control	N.A.
14.	Compliance of DGMS Guidelines for Blasting	N.A.
15.	Compliance of Sustainable Sand Mine Guidelines published by MoEFCC in 2016	N.A.
16.	Whether Replenishment Rate Study is approved by District Geologist? If yes, conclude in brief	N.A.

D. Details of Green Belt Development:

1.	a. Green belt development budget	1.5Lakh
	b. Green belt area / location	SBZ area
	c. No. of trees to be planted	2150 trees during plan period.
	d. Types of trees to be planted	**Azadirachta indica** – Dust,Air& Noise pollutant tollerance **Ficus Religiosa**– Air & Noise pollutant tollerance **Butea Frondosa** – Dust & noise pollutant tolerance

E. Details of Environment Management Plan:

1.	**Details of EMP**	**Impact**	**Mitigation Measures**
	a. Land Environment	Since mining is essentially an excavation of mineral ore the land environment is greatly affected by it, especially in the case of opencast mines: (a) The topsoil in the active mining area gets adversely affected. (b) The soil quality of the surrounding area are also likely to get affected due to siltation and run off from waste dumps. (c) The mine drainage, if it is acidic and containing toxic constituents, not adequately treated when discharged to nearby land would affect the soil quality adversely; when discharged untreated into streams effects the quality of water and make in unfit for agricultural use. (d) Agriculture is also directly linked to soil. If soil quality deteriorates, the agricultural productivity of the land decreases.	Adopting suitable, site-specific mitigation measures can reduce the degree of impact of mining on land. Some of the land-related mitigation measures are as follows: (a) Topsoil is should be kept in a designated area and should be given minimum storage time to prevent nutrient loss. (b) Garland drains, ditches, catch pits in different combinations should be provided to prevent run off affecting the surrounding agricultural land. These are to be designed looking into the locational site features. (c) Mine drainage is to be treated adequately before discharge to stream outside the boundary of the project area. (d) Non-mineral zones and open areas should be planted with trees. (e) Siltation of agricultural land should be prevented.

	b. Water Environment	Mining and its associated activities not only use a lot of water but also likely to affect the hydrological regime of the area : (a) The major impact of deep and large mines is of natural groundwater table. (b) Lowering of water table may result in reduced groundwater availability (c) Extraction of different minerals is known to lead to water pollution due to heavy metal, acid discharges and increased suspended solids. However, the impact of mining project on groundwater hydrology and surface water regime are site specific and depends upon the characteristics of the mineral, hydrogeology and requirement of groundwater for other uses.	The following mitigation measures are suggested for water management and water pollution control. However, priority relevance depends on the location and type of mining and minerals: (a)The overall drainage planning should be done in such a manner that the existing pre-miningdrainage conditions should be maintained to the extent possible so that run off distribution is not affected. (b)drainage conditions should be maintained to the extent possible so that run off distribution is not affected ©The surplus treated mine water should be discharged into local ponds and agricultural fields which should act like a constant source of recharge to improve the groundwater level in the area (d)Rainwater harvesting by constructing check dams on natural nallah and developing water bodies should be planned for recharging groundwater. (e) (i)Stone barriers across the drain should be constructed to check the water current and arrest solids. (ii)Stone pitching should be made at suitable location to regulate water flow and prevent soil erosion. (iii) Settling pits and drains should be periodically desilted.
	c. Air Environment	Mining operation and associated activities are potentially air polluting and the major air pollutant is the suspended particulate matter. (a)Most of the air pollution problems are due to fugitive dust emission, which is more prominent in open cast mines (b)The intensity of dust generation in the mining is influenced by factors such as hardness of rock, mining technology and material handling etc.	Mitigation measures at various dust generating activities are discussed below: **(A)Paved surfaces**: Paved surfaces have less dust generation potential. Dust pick-up by wind depends on the wind speed and is usually significant at wind speeds above 5 meters per second. However slight speed of vehicle can cause higher dust generation. Dust emissions from paved surfaces can be minimized by adopting following measures: Prevent spillages of materials on

			the paved surfaces during materials transportation. (a) Minimize mud and dust track-out from unpaved areas by the use of wheel wash facilities. (b)Regular cleaning of paved surfaces, using mobile vacuum sweeper or a water flushing system. (c)Speed controls on vehicle movements. (d)Wind reduction control by plantation. **(B)Unpaved Surfaces :** Dust emissions from unpaved surfaces are caused than from paved surfaces are usually much greater. Dust emissions can be controlled by using the following methods: (a) Water sprinkling on unpaved areas during dry wind periods, using a water tanker/or fixed sprinklers. (b)Chemical stabilization can also be used in association with wet suppression. (c) Surface improvements may be done with concrete or asphalt ortheadditionofgravelorchemicaldustsuppressiontothesurfaceforstabilization. (d) Speedcontrolsonvehiclemovementstolimitspeeds. (e)Windreductioncontrolbyplantation. (f)Wetsuppressionofunpavedareascanachievedustemissionreductionsofabout70 percentormore, andthiscansometimesbeincreasedbyupto95%through theuseofchemical stabilization. (g)Treescanactasefficientbiological filters.Thesystematicandplannedgreenbelt development notonly reducesthefugitivedustbutalsochecksrunoffandimprovestheaestheticbeautyofan area.
	d. Noise Environment	Noiselevelincreaseduetominingactivitiessuchasexcavation,drilling,blasting,handlingan	Thefollowingmitigationmeasurescanbeadoptedtocontrolnoise:

		d transportationoforeandoverburden andoperationofprocessingequipment: (a)Noise Pollution due to drilling & Blasting if applicable. (b) Noise Pollution due to use of heavy machineries.	(a)Selectionofnewlow-noiseequipmentfromthemanufacturesfailingwhichuseofadditional retrofitsifavailable. (b)Modifications of the older equipment or method by incorporating minor design changes. (c)Implementationofaneffectiveplannedpreventivemaintenancewhichreducesnoiselevelbymorethan50%. (d)When allcontrolsfailtoreducethelevelofnoiseenteringtheear,byuseofpersonal hearingprotectiondevices.
	e. Biological Environment	*AnticipatedImpact(FloraandFauna):* • Impactonforestresources,economicallyimportantplants,medicinalplantsandthreatto rare,endemicandendangeredspecies • Impactonterrestriallandaquaticbiodiversity • Impactonwildlifeincludinggavi-fauna • Impactonwildlifehabitatandmigratorycorridors • Impactonfloraandfaunaduetoairemissions,noise,vibration,illumination,vehicularmovement,wastewaterdischarges,changesinlanduse,townshipetc.	Measurestocompensatethelossof frestcoverage: ➢ Regenerationofrareandendangeredplantsofeconomicimportanceincluding medicinal plants. ➢ Measuresforprotectionanddconservationofwildlifespecies ➢ Greenbeltanditsraisingschedule ➢ Progressiveafforestationinoverburden,reclaimedminedoutareas
	f. Human Environment	Mining activityinanareahaslongtermirreversibleimpacton Human Environment like local,sociological,culturalandeconomicsituation. (a) Peoplearedirectlyaffecteddueto pollution. (b) Health issues and spread of mining related dieses	Following mitigation measures are suggested: • A welfare plan with funding from the project proponent should be prepared to provide assistance to affected people. • The infrastructure facility (Educational Institute, Water Supply, Health Care etc.) developed by the project should also be extended to people without any cost or minimal cost. • Medical aid and regular check up. • Various compensatory

			packages to be formulated for the improvement of socio-economic condition of people. They are: (i)Monetarycompensation. (ii) Compensationinkind (iii)Training to locals to develop skill should be promoted by the project.
	g. Others	None	None
2.	Occupational health & safety measures as per DGMS	The guidelines declared by DGMS for Health & safety time to time are followed strictly and being complied.	
3.	Safety measures proposed	No drilling & Blasting is required for the mining of White/China Clay mineral, however require safety measures like compulsory use of PPE's on operation place, regular checkup of labors for health issues and free medicine to labors.	
	a. Is First Aid facility provided by PP?	Yes, First Aid facility is 24 hours available at site of operation of mining.	
	b. Details of PPEs	Mineworkers require specific Personal Protection Equipment (PPE) to protect the entire body from any harm or injury in the mining environment are: (1) **Head and face protection**:This comprises of a hard hat, safety glasses, ear plugs and half-face or full-face masks. (2) Feet and leg protection:The standard footwear for optimal foot and leg protection are heavy-duty boots.	
	c. Whether Registration of Workers underBuilding and other Construction Workers' (regulation of Employment &Conditions of Service) Act, 1996 and as Beneficiaries with the Gujarat Building and other Construction Workers Welfare Boards is obtained or not?	Project is on contract base.	
	d. Insurance of Workers	Workers are insured with accident policy.	
	e. Health	Health plan of workers is adopted and it is being carried out twice in every	

	checkup plan of workers	month regularly.

F. Transportation:

1.	No. of vehicles per day carrying Minerals	13 to 14 Trucks
2.	Fugitive dust emission control measures	Water Sprinkling, Speed limit of loaded and un loaded vehicles, PUC
3.	Route plan in brief	0.81 km long with 4.5 m. width approach rout is there.

G. Financial details of the Project:

1.	Total cost of the project (Lakh)	62.00
	a. Upfront cost (Lakh)	-
	b. Performance Security (Lakh)	-
	c. Total Royalty (Lakh)	-
	d. Weigh Bridge Cost (Lakh)	-
	e. Labor cost equipment (Lakh)	-
	f. Equipment protection and implementation cost (Lakh)	-
	g. Green Belt Development & maintenance cost (Lakh)	-
	h. Cost of EMP (Lakh)	-
	i. Cost of Safety measures (Lakh)	-
	j. Cost of Post-Closure Mine Plan (Lakh)	It is included in cost of EMP
2.	Budget allocated for CER (Lakh)	1
3.	Is need based survey for CER carried out? (Yes / No) If yes, give details of activities along with Budgetary Outlay	

Sr.	Activity	Budget 1st year 2nd year 3rd year 4th year 5th year
1	Provide drinking water facility : (1) In surrounding villages and schools by hand pump/water tank. (2) Water cooler with RO purifier at village school / Panchayat Building. (3) Donation for Overhead Tank in slum area of village.	25,000/-

			2	Health camps : (1) Free Doctor Consultation (2) Free medicine (3) Arrangements of Blood Donation Camps.	25,000/-		
			3	Educational support to poor students of the village specially girls : (1) Scholarship, School Dress, Books etc. to poor students. (2)Arrangement of different competitions with Awards in school (3) Inter School sport competition and Awards distribution. (4) Donation for Sports instruments & developments of sports grounds.	49,000/-		
			4	Development Programme : 1) Donation for Toilet facility in slum area of village. 2) Plantation including Maintenance around School &Panchayat Building . 3) Plantation including Maintenance in the internal roads of Village.	25,000/-		

H. Restoration / Reclamation Plan:

1.	Restoration / Reclamation Details	00.00.00 ha. Area will be reclaimed by refilling area.
2.	Post mining closure plan	Mine closure will be in two step (1) Progressive mine closure and (2) Final mine closure. As per approved plan at end of mine the 00.96.67 SBZ & 00.00.00 ha. area will be reclaimed by refilling area will be developed with plantation of dust & Noise tolerance species of vegetation and rest 01.63.53 ha.will be converted as water reservoir with parapet fencing to avoid accident .
3.	Backfilling material and its quantity	Back filling is proposed in approved mining plan.
4.	Size of void for Rain Water Harvesting after backfilling	It is rain scarcity area and the size of backfilled area is 00.96.67 ha.Which is negligible for rain water harvesting.
5.	Post Closure Liability / Safety aspects and Measures to be taken to avoid wild life and human accidents/ causalities	In Post Closure Liability / Safety aspects and Measures to be taken like proposal of wired fencing and buffer plantation on SBZ area around lease boundary to avoid illegal entry and stone parapet having 4 feet high around mined out area or Pit to avoid accident or causalities to domestic animal and human life. Pit will be used as water reservoir till it will re gain as grazing land step by step.
6.	Display of Caution Boards at strategic locations on the periphery of the pit area	
7.	Final Use of reservoir/ reclaimed land	Reclamation is proposed land mined out pit will be used as water reservoir till it will reclaimed and at the end the total area will be reclaimed as Agriculture land.

I. Details of Legal Action / Court Case:

1.	Details of Pending Court matter / Public Litigation Cases in any court of Law	No any matter against project is pending in any court of law.
2.	Details of Action taken by GPCB, if any	None
3.	Details of public complaint , if any	None
4.	Compliance of EC by RO-GPCB or	None

	MoEFCC-Bhopal	

J. Contact Details:

1.	**Contact details of Applicant**	Arjanbhai Karabhai Chhanga
2.	Name	Arjanbhai Karabhai Chhanga
3.	Address	-
4.	Contact no.	9879193379
5.	Email Id	-
6.	**Contact details of Consultant**	P & M Solution
7.	Name	Hussain Ziauddin
8.	Address	1st Floor, C-88, Sector -65, Noida-201301
9.	Contact no.	9015858114
10.	Email Id	hussainziauddin234@gmail.com

Deliberation:

- ✓ Shri Bhanjibhai from M/s. P & M Solution (QCI/NABET accredited Consultant) remained present in the meeting and they have submitted the Authorization letter of PP for same.
- ✓ Shri Bhanjibhai informed the Committee that the PP has obtained TOR vide SEIAA letter no. SEIAA/GUJ/TOR1(a)/1217/2019, dated 23.08.2019 and Amendment vide letter no. SEIAA/GUJ/TOR1(a)/785/2020, dated 29.06.2020.
- ✓ Baseline study is carried out for the period of December 2019 to February, 2020.
- ✓ Public hearing was held on 12.01.2021.

- Committee deliberated on the cluster situation and noted that there are total 20 leases in the cluster out of which, 8 leases have obtained TOR till date and hence public hearing was held for these 8 leases only.
- Committee noted that the cluster map was not validated by District Geologist.Committee deliberated on the location of the lease and noted that River Sang is located within the 10 km radius of the lease.
- Committee found the discrepancy in the source of water supply, i.e. tanker and the same mentioned in EIA report is Ground water. Committee noted that analysis report for free silica content in PM_{10} is not included in EIA report.
- Vehicular Traffic Density study reveals that the Level of Service (LOS) on SH-42 will Change from ‘A’ and ‘B’ to ‘D’ i.e. Poor and on Lakhond Chapredi Road it will change to ‘E’ i.e. very poor. So there will be additional load on the carrying capacity of the SH-42 as well as that of the Lakhond Chapredi Road. The Mitigation measures for the same are not addressed.
- While deliberating on the EIA report prepared, Committee found many discrepancies, i.e. existence of surface water body near the lease area. In EIA report, it is stated that the study for surface water is carried out and on other hand, it is claimed by the PP that no surface water body is located nearby the lease area.

Looking to the above, Committee unanimously decided to consider the proposal in upcoming SEAC meeting upon submission of revised EIA report incorporating above mentioned points as well as all the TOR conditions thoroughly.

4. SAND STONE MINING, DIST: KUTCH

Application No	Name of Project	S.No.	Village	Taluka	Dist	Lease Area	Validity of lease	ROM	Nearest Human Habitation	End Use	Investment in Rs	Date of Application Received by SEAC
SIA/GJ/MIN/62662/2021	Rajabhai Hardasbhai Bhutiya	Govermen t Sr. No. 39 Paiky	Zizu Timbo	Bhuj	Kutch	2.13.63 Ha	Lease granted on 14.07.2011 for 10 years, extendable up to 31.03.2030	39988 MTPA	Sarli – 2.28 km	Construction	Rs.77.59 Lakh	19.05.2021 Existing project

The project falls under B1 Category – 1(a), i.e. Mining of Minerals as per the provision of EIA Notification, 2006. Project Proponent has applied to obtain Terms of Reference (TOR) for mining of Sand Stone.

A. Basic Information of the Project:

1.	Name of Project as per Form I	Rajabhai Hardasbhai Bhutiya
2.	Address of the lease	Survey No.:Govt.Sr.No.39 Paiky Village:Zizu Timbo, Taluka:Bhuj District:Kutchh
3.	Name of lease holder	Rajabhai Hardasbhai Bhutiya
4.	Lease area (Ha)	02-13-63 Ha.
5.	Cluster Details	
	a. Total no. of leases in the cluster	18
	b. No. of TOR granted in cluster	No information
	c. No. of EC granted in cluster	No information
	d. Total area of the cluster	23.87.67
	e. Maximum individual lease area	02.50.00
	f. Minimum individual lease area	00.60.00
6.	Validity of lease with the date of expiry	31/03/2030
7.	Rate of Mining (MT/Annum)	39,988 TPA
8.	Details of EC obtained (for expansion projects), if any	N.A.
9.	Name of River Bed	N.A.
10.	Is the river perennial / non-perennial?	N.A.
11.	Lease area (submerged / in stream / on dry river bed)	N.A.

12.	All coordinates of the lease area as per Approved Mining Plan	1 23° 6'52.94"N 69°30'4.96"E 2 23° 6'52.64"N 69°30'6.86"E 3 23° 6'51.11"N 69°30'7.87"E 4 23° 6'51.72"N 69°30'9.67"E 5 23° 6'47.00"N 69°30'11.20"E 6 23° 6'46.21"N 69°30'6.80"E 7 23° 6'52.45"N 69°30'5.00"E
13.	Manpower requirement	7
14.	Applicability of CRZ Notification	CRZ notification is not applicable.
15.	Minimum Setback distance proposed to be maintained from River Bed (m)	N.A.
16.	Minimum buffer distance from bridge piers / water intake wells / irrigation structures	N.A.
17.	Maximum depth of sand removal (3 m or water depth whichever is less)	N.A.
18.	Width of Riverbed (m)	N.A.
19.	Average depth of water at lease area (m)	N.A.
20.	Depth of mining (m)	5.0 mtr.
21.	Ground Water Table in meter BGL	50-55 mtr.
22.	Does ground water interfere approach road exit? (Yes / No) If yes, status report of CGWA	No interfere of ground water during mining. Approach road exist having length of 3.10 meter from pucca road.
23.	Distance between lease and main road	State Highway No. 47 – 2.96 (Km)
24.	Length ofkaccha road (m)	3.10(km)
25.	Length of pacca road (m)	2.32 km
26.	Plan for making pacca road	-
27.	Source of freshwater	Source of fresh Water is well nearby agricultural firm.
28.	Water requirement (kLPD)	05
	a. Domestic	1.0
	b. Dust suppression	3.0
	c. Gardening / Green belt development	1.0
	d. others	-
29.	Whether the Undertaking is submitted for identical information provided in Form I, Approved Mining Plan, Project Details validated by District Geologist, Pre-Feasibility Report, Lease Document, Environment Management Plan and other documents	Submitted.

B. Environmental Sensitivities:

Sr. No.	Environmental Sensitivities	Actual Distance	Minimum Distance	Reference
1	Residential	Sarli-2.28 km	100 m (When Blasting is not involved)	As per CPCB Distance Criteria And order of of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020
	Public buildings	Sarli-2.28km		
	Inhabited sites	Sarli-2.28 km		
	Protected Monuments	Ram Kund -22.15km		
	Heritage Sites	Aina Mahel-23.08km		
	National / State Highway	S.H. 47- 2.96 Km N.H.8A-30.04Km		
	District Roads	2.32 Km		

	Public Roads	3.10Km		
	Railway Line / Area	11.67 km		
	Ropeway or Ropeway trestle or station	Junagadh Ropeway – 198.21 km		
	Bridges	Bridge near Rampur Vekra-5.44 km		
	Dams	Check Dam Zizu Timbo– 0.75 Km		
	Reservoirs	Lake near Dahisara - 2.14 Km		
	River	Local river -0.39 km		
	Canal	No Canal near lease area		
	Lakes	Chadva Lake- 4.48 Km		
	Tanks	Near Sarli – 2.98 Km		
2	Eco-Sensitive Zone (if notified)	No Eco-Sensitive zone within 10 km. boundary of lease.	>1 km / outside the notified Eco-Sensitive Zone	Vide directives of MOEF&CCdtd 16.07.2020
3	Eco-Sensitive Zone (if not notified)	No Eco-Sensitive zone within 10 km. boundary of lease.	>1 km and <10 km = Prior Clearance from NBWL is required	Vide directives of MOEF&CCdtd 16.07.2020
4	Distance of Coastal line from the site	No Coastal line within 10 km boundary of lease.	>500 M from HTL	Amended CRZ Notification 2011

C. Details of Mining:

1.	Method of Mining (Manual / Semi-mechanized / Mechanized).	Open Cast Semi-mechanized mining method is adopted.
2.	Equipment's to be used for Mining bulldozers, hydraulic excavators, JCB, scrapers, loaders, Diesel Pump, etc.)	Cutter Machine, Hydraulic Excavator, JCB & Loaders are equipment in use for mining activities.
3.	Whether it includes blasting?	Blasting is Not proposed in approved mining plan.
4.	Details of Authorized Blasting Agencywith date of validity certificate	N.A.
5.	Procedure / SOP (in brief)	N.A.
6.	Details of Blasting Parameters in brief	N.A.
7.	Frequency of blasting	N.A.
8.	Impact of blasting	N.A.
9.	Outcome of Vibration study	N.A.
10.	Blasting Activity Management Plan	N.A.
11.	Use of any Chemical with quantity	N.A.
12.	Precautions taken for Human Safety in brief	N.A.
13.	Crusher provided? If Yes, Measures taken for Air Pollution Control	N.A.
14.	Compliance of DGMS Guidelines for Blasting	N.A.

15.	Compliance of Sustainable Sand Mine Guidelines published by MoEFCC in 2016	N.A.
16.	Whether Replenishment Rate Study is approved by District Geologist? If yes, conclude in brief	N.A.

D. Details of Green Belt Development:

1.	a. Green belt development budget	1.00 Lakh
	b. Green belt area / location	SBZ area
	c. No. of trees to be planted	125 trees
	d. Types of trees to be planted	**Azadirachta indica** –Dust,Air& Noise pollutant tollerance **Ficus Religiosa**– Air & Noise pollutant tollerance **Local Trees**–Dust & noise pollutant tollerance

E. Details of Environment Management Plan:

1.	Details of EMP	Impact	Mitigation Measures
	a. Land Environment	Since mining is essentially an excavation of mineral ore the land environment is greatly affected by it, especially in the case of opencast mines: (a) The topsoil in the active mining area gets adversely affected. (b) The soil quality of the surrounding area are also likely to get affected due to siltation and run off from waste dumps. (c) The mine drainage, if it is acidic and containing toxic constituents, not adequately treated when discharged to nearby land would affect the soil quality adversely; when discharged untreated into streams effects the quality of water and make in unfit for agricultural use. (d) Agriculture is also directly linked to soil. If soil quality deteriorates, the agricultural productivity of the land decreases.	Adopting suitable, site-specific mitigation measures can reduce the degree of impact of mining on land. Some of the land-related mitigation measures are as follows: (a) Topsoil is should be kept in a designated area and should be given minimum storage time to prevent nutrient loss. (b) Garland drains, ditches, catchpits in different combinations should be provided to prevent run off affecting the surrounding agricultural land. These are to be designed looking into the locational site features. (c) Mine drainage is to be treated adequately before discharge to stream outside the boundary of the project area. (d) Non-mineral zones and open areas should be planted with trees. (e) Siltation of agricultural land should be prevented.
	b. Water Environment	Mining and its associated activities not only use a lot of	The following mitigation measures are suggested for water management and water

		water but also likely to affect the hydrological regime of the area : (a) The major impact of deep and large mines is of natural groundwater table. (b) Lowering of water table may result in reduced groundwater availability (c) Extraction of different minerals is known to lead to water pollution due to heavy metal, acid discharges and increased suspended solids. However, the impact of mining project on groundwater hydrology and surface water regime are site specific and depends upon the characteristics of the mineral, hydrogeology and requirement of groundwater for other uses.	pollution control. However, priority relevance depends on the location and type of mining and minerals: (a)The overall drainage planning should be donein such a manner that the existing pre-miningdrainage conditions should be maintained to the extent possible so that run off distribution is not affected. (b)drainage conditions should be maintained to the extent possible so that run off distribution is not affected ©The surplus treated mine water should be discharged into local ponds and agricultural fields which should act like a constant source of recharge to improve the groundwater levelin the area (d)Rainwater harvesting by constructing check dams on natural nallah and developing water bodies should be planned for recharging groundwater. (e) (i)Stone barriers across the drain should be constructed to check the water current and arrest solids. (ii)Stone pitching should be made at suitable location to regulate water flow and prevent soil erosion. (iii) Settling pits and drains should be periodically desilted.
	c. Air Environment	Mining operation and associated activities are potentially air polluting and the major air pollutant is the suspended particulate matter. (a)Most of the air pollution problems are due to fugitive dust emission, which is more prominent in open cast mines (b)The intensity of dust generation in the mining is influenced by factors such as hardness of rock, mining technology and material handling etc.	Mitigation measures at various dust generating activities are discussed below: **(A)Paved surfaces**: Paved surfaces have less dust generation potential. Dust pick-up by wind depends on the wind speed and is usually significant at wind speeds above 5 meters per second. However slight speed of vehicle can cause higher dust generation. Dust emissions from paved surfaces can be minimized by adopting following measures: Prevent spillages of materials on the paved surfaces during materials transportation. (a) Minimize mud and dust track-out from unpaved areas by the use of wheel wash facilities. (b)Regular cleaning of paved surfaces, using mobile vacuum sweeper or a water flushing system. (c)Speed controls on vehicle movements. (d)Wind reduction control by plantation. **(B)Unpaved Surfaces :** Dust emissions from unpaved surfaces are caused than from paved surfaces are usually much greater. Dust emissions can be controlled by using the following

			methods: (a) Water sprinkling on unpaved areas during dry wind periods, using a water tanker/or fixed sprinklers. (b)Chemical stabilization can also be used in association with wet suppression. (c) Surface improvements may be done with concrete or asphalt ortheadditionofgravel orchemicaldustsuppressiontothesurface forstabilization. (d) Speedcontrolsonvehiclemovementstolimitspeeds. (e)Windreductioncontrolbyplantation. (f)Wetsuppressionofunpavedareascanachievedustemissionreductionsofabout70per centormore,andthiscansometimesbeingcreasedbyupto95%throughtheuse ofchemical stabilization. (g)Treescanactasefficientbiologicalfilters.The systematicandplannedgreenbelt development notonly reducesthefugitivedustbutalsochecksrunoffandimprovestheaestheticbeautyofan area
	d. Noise Environment	Noiselevelincrease duetominingactivitiessuchasexcavation,drilling,blasting,handlingand transportationof ore and overburden andoperationof processing equipment: (a)Noise Pollution due to drilling & Blasting if applicable. (b) Noise Pollution due to use of heavy machineries.	Thefollowingmitigationmeasurescanbeadoptedtocontrolnoise: (a)Selectionofnewlow-noiseequipmentfromthemanufacturesfailingwhichuseofadditional retrofitsifavailable. (b)Modifications of the older equipment or method by incorporating minor design changes. (c)Implementationofan effectiveplannedpreventivemaintenancewhich reducesnoiselevel bymorethan 50%. (d)When allcontrolsfailtoreducethelevelofnoiseenteringtheear,byuseofpersonalhearingprotectiondevices.
	e. Biological Environment	*AnticipatedImpact(FloraandFauna):* • Impactonforestresources,economicallyimportant plants,medicinalplantsandthreatto rare,endemicandendangeredspecies • Impactonterrestrialandaq	Measurestocompensatethelossofforestcoverage: ➢ Regenerationofrareandendangered plantsofeconomicimportanceincludingmedicinal plants. ➢ Measuresforprotectionandconservationofwildlifespecies ➢ Greenbeltanditsraisingschedule ➢ Progressiveafforestationinoverburden,reclaimedminedoutareas.

		uaticbiodiversity • Impactonwildlifeinclude ingavi-fauna • Impactonwildlifehabitata ndmigratorycorridors • Impactonfloraandfaunad uetoairemissions,noise, vibration,illumination,ve hicular movement,wastewaterd ischarges,changesinlan duse,townshipetc.	
	f. Human Environment	Mining activityinanareahaslongtermirrev ersibleimpacton Human Environment like local,sociological,culturaland economicsituation. (a) Peoplearedirectlyaffecte ddueto pollution. (b) Health issues and spread of mining related dieses	Following mitigation measures are suggested: • A welfare plan with funding from the project proponent should be prepared to provide assistance to affected people. • The infrastructure facility (Educational Institute, Water Supply, Health Care etc.) developed by the project should also be extended to people without any cost or minimal cost. • Medical aid and regular check up. • Various compensatory packages to be formulated for the improvement of socio-economic condition of people. They are: (i)Monetarycompensation. (ii) Compensationinkind (iii)Training to locals to develop skill should be promoted by the project.
	g. Others	None	None
2.	Occupational health & safety measures as per DGMS	The guidelines declared by DGMS for Health & safety time to time are followed strictly and being complied.	
3.	Safety measures proposed	No drilling & Blasting is required for the mining of Building Limestone mineral, however require safety measures like compulsory use of PPE's on operation place, regular check up of labors for health issues and free medicine to labor's.	
	a. Is First Aid facility provided by PP?	Yes, First Aid facility is 24 hours available at site of operation of mining.	
	b. Details of PPEs	Mineworkers require specific Personal Protection Equipment (PPE) to protect the entire body from any harm or injury in the mining environment are: (1) **Head and face protection**:This comprises of a hard hat, safety glasses, ear plugs and half-face or full-face masks. (2) Feet and leg protection:The standard footwear for optimal foot and leg protection are heavy-duty boots.	
	c. Whether Registration	Project is on contract base.	

	of Workers underBuilding and other Construction Workers' (regulation of Employment & Conditions of Service) Act, 1996 and as Beneficiaries with the Gujarat Building and other Construction Workers Welfare Boards is obtained or not?	
	d. Insurance of Workers	Workers are insured with accident policy.
	e. Health checkup plan of workers	Health plan of workers is adopted and it is being carried out twice in every month regularly.

F. Transportation:

1.	No. of vehicles per day carrying Minerals	6 trucks
2.	Fugitive dust emission control measures	Water sprinkling
3.	Route plan in brief	3.10(m)

G. Financial details of the Project:

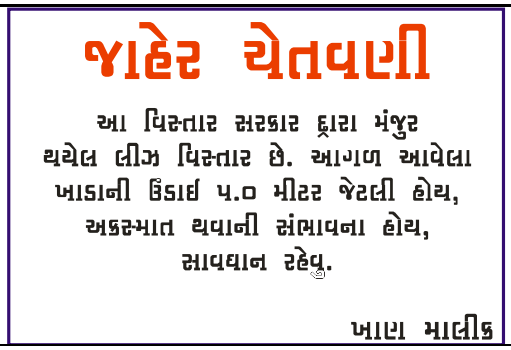
1.	Total cost of the project (Lakh)	77.59
	a. Upfront cost (Lakh)	-
	b. Performance Security (Lakh)	1.30
	c. Total Royalty (Lakh)	29.99
	d. Weigh Bridge Cost (Lakh)	2.50
	e. Labor cost equipment (Lakh)	7.99
	f. Equipment protection and implementation cost (Lakh)	14.00
	g. Green Belt Development & maintenance cost (Lakh)	1.0
	h. Cost of EMP (Lakh)	12.00
	i. Cost of Safety measures (Lakh)	0.50
	j. Cost of Post-Closure Mine Plan (Lakh)	-
2.	Budget allocated for CER (Lakh)	1.55
3.	Is need based survey for CER carried out? (Yes / No)	SN / Activity / Budget (1st year, 2nd year)

		If yes, give details of activities along with Budgetary Outlay			3rd year 4th year 5th year	
			1	Provide drinking water facility : (1) In surrounding villages and schools by hand pump/water tank. (2) Water cooler with RO purifier at village school / Panchayat Building. (3) Donation for Overhead Tank in slum area of village.	40,000/-	
			2	Health camps : (1) Free Doctor Consultation (2) Free medicine (3) Arrangements of Blood Donation Camps.	40,000/-	
			3	Educational support to poor students of the village specially girls : (1) Scholarship, School Dress, Books etc. to poor students. (2)Arrangement of different competitions with Awards in school (3) Donation for Sports instruments & developments of sports	55,000/-	

				grounds in school. (4)Donation for school building requirements.	
			4	Development Programme : 1) Donation for Toilet facility in slum area of village. 2) Plantation including Maintenance around School &Panchayat Building inner roads of Villages.	20w,000/-

H. Restoration / Reclamation Plan:

1.	Restoration / Reclamation Details	0.20 ha. Area will be reclaimed by refilling area.
2.	Post mining closure plan	Mine closure will be in two step (1) Progressive mine closure and (2) Final mine closure. As per approved plan at end of mine the 0.18 ha. SBZ & 1.7563 ha. area will be reclaimed by refilling area will be developed with plantation of dust & Noise tolerance species of vegetation and rest 1.7563 ha. will be converted as water reservoir with parapet fencing to avoid accident.
3.	Backfilling material and its quantity	Back filling is proposed in approved mining plan.
4.	Size of void for Rain Water Harvesting after backfilling	-
5.	Post Closure Liability / Safety aspects and Measures to be taken to avoid wild life and human accidents/ causalities	In Post Closure Liability / Safety aspects and Measures to be taken like proposal of wired fencing and buffer plantation on SBZ area around lease boundary to avoid illegal entry and stone parapet having 4 feet high around mined out area or Pit to avoid accident or causalities to domestic animal and human life.

6.	Display of Caution Boards at strategic locations on the periphery of the pit area	
7.	Final Use of reservoir/ reclaimed land	Reclaimed land will be developed as Green belt and pit will be used as water reservoir till it will reclaimed and at the end the total area will be reclaimed as grazing land.

I. Details of Legal Action / Court Case:

1.	Details of Pending Court matter / Public Litigation Cases in any court of Law	No any matter against project is pending in any court of law.
2.	Details of Action taken by GPCB, if any	None
3.	Details of public complaint , if any	None
4.	Compliance of EC by RO-GPCB or MoEFCC-Bhopal	-

J. Contact Details:

1.	**Contact details of Applicant**	Rajabhai Hardasbhai Bhutiya
2.	Name	Rajabhai Hardasbhai Bhutiya
3.	Address	Village: Zizi timbo, Ta:Bhuj &Dist: Kutch
4.	Contact no.	-
5.	Email Id	-
6.	**Contact details of Consultant**	P & M Solution
7.	Name	Hussain Ziauddin
8.	Address	1st Floor, C-88, Sector -65, Noida-201301
9.	Contact no.	9015858114
10.	Email Id	hussainziauddin234@gmail.com

Deliberation:

- Shri Bhanjibhai Solanki from M/s. P & M Solution remained present in the meeting on behalf of PP and he has submitted the Authorization letter for same.
- Committee deliberated on method of mining, rate of mining, no. of working hours and workers, the location of the lease w.r.t. Environmental Sensitivities and found as per the criteria prescribed by CPCB etc.
- Committee noted that the mining does not involve blasting.
- During the presentation, Environmental Management Plan, Restoration / reclamation plan, CER activities and its budget, green belt development etc. was discussed.
- Committee noted that it is an existing lease and the consultant presented production details validated by District Geologist, Kutch vide letter no. Gkk/QL/13337, dated 01.04.2021 as below:

S. N.	Year	Production in MTPA
1.	2015-16	23812
2.	2016-17	5963
3.	2017-18	1178
4.	2018-19	0
5.	2019-20	0

- Committee noted that the production was continued after 31.03.2016. PP presented the acknowledgement slip of earlier TOR / EC application dated 23.11.2015, i.e. before 13.04.2018.
- Referring to the order of Honorable National Green Tribunal dtd.13.01.2015 in the O.A.No. 123/2014 and M.A.419 of 2014, Himmat Singh Shekhawat v/s State of Rajasthan and order of Honorable National Green Tribunal dtd. 04.05.2016 in the O.A.No. 34/2016, Naresh Zargar v/s of Madhya Pradesh and order of Honorable National Green Tribunal dtd. 30.06.2020 in the O.A. No 136/2017, Tamil Nadu Small Mine Owners Federation v/s Ministry of Environment Forest and Climate Change Government of India, Committee noted that proposal falls under violation to EIA Notification 2006. It is also noted that PP has applied for TOR on 23.11.2015. Hence, unanimously decided to recommend for **TOR under violation to EIA Notification 2006 as per Annexure - I and TOR for Non-Sand Mining without blasting as per Annexure – II.**

5. WHITE CLAY MINING, DIST: KUTCH

Application No	Name of Project	S. No.	Village	Taluka	Dist	Lease Area	Validity of lease	ROM	Nearest Human Habitation	End Use	Investment in Rs	Date of Application Received by SEAC
SIA/GJ/MIN/61731/2021	Karman Karshan Dhila	Government Sr. No. 613 Paiky.	Dhagala	Bhuj	Kutch	4.90.00 Ha	Existing vide order no. MCR-342007/1095-CHH, dated 14.07.2008 for 20 years, extendable up to 31.03.2030 as per GMMCR Rules, 2017	2,00,000 TPA	Dagala – 0.54 km	Ceramic industry	Rs.190.01 Lakh	18.05.2021 Existing Lease

The project falls under B1 Category – 1(a), i.e. Mining of Minerals as per the provision of EIA Notification, 2006. Project Proponent has applied to obtain Terms of Reference (TOR) for mining of White Clay.

A. Basic Information of the Project:

1.	Name of Project as per Form I	Karman Karshan Dhila
2.	Address of the lease	Government Sr. No. 613 Paiky Village:Dagala,Taluka:Bhuj,District:Kutch
3.	Name of lease holder	Karman Karshan Dhila
4.	Lease area (Ha)	4-90-00 Ha
5.	Cluster Details	
	a. Total no. of leases in the cluster	3
	b. No. of TOR granted in cluster	No Information
	c. No. of EC granted in cluster	No Information
	d. Total area of the cluster	9.46.00 (Ha.)
	e. Maximum individual lease area	4.90.00 Ha
	f. Minimum individual lease area	01.20.00 Ha
6.	Validity of lease with the date of expiry	31/03/2030
7.	Rate of Mining (MT/Annum)	2,00,000 (MT/Annum)
8.	Details of EC obtained (for expansion projects), if any	No EC obtained as application for EC is pending for decision since 2015.
9.	Name of River Bed	Other than river sand mining project
10.	Is the river perennial / non-perennial?	N.A.
11.	Lease area (submerged / in stream / on dry river bed)	N.A.
12.	All coordinates of the lease area as per Approved Mining Plan	1 23°17'46.00"N 69°57'18.10"E 2 23°17'55.00"N 69°57'11.80"E 3 23°17'56.90"N 69°57'14.10"E 4 23°17'51.20"N 69°57'23.50"E
13.	Manpower requirement	25
14.	Applicability of CRZ Notification	CRZ notification is not applicable.
15.	Minimum Setback distance proposed to be maintained from River Bed (m)	N.A.
16.	Minimum buffer distance from bridge piers / water intake wells / irrigation structures	N.A.
17.	Maximum depth of sand removal (3 m or water depth whichever is less)	N.A.
18.	Width of Riverbed (m)	N.A.
19.	Average depth of water at lease area (m)	N.A.
20.	Depth of mining (m)	52 m.
21.	Ground Water Table in meter BGL	120 to 125 m.
22.	Does ground water interfere approach road exit? (Yes / No) If yes, status report of CGWA	No, it does not.
23.	Distance between lease and main road	S.H.42- 3.15 km
24.	Length of kaccha road (m)	2.97 km
25.	Length of pacca road (m)	3.15 km
26.	Plan for making pacca road	Group of Lease holder of the cluster will manage to make common pacca road for cluster area with budgetary provision.
27.	Source of freshwater	Source of fresh Water is well nearby

		agricultural firm.
28.	Water requirement (kLPD)	4.00 KLD
	a. Domestic	1.0
	b. Dust suppression	2.0
	c. Gardening / Green belt development	1.0
	d. others	-
29.	Whether the Undertaking is submitted for identical information provided in Form I, Approved Mining Plan, Project Details validated by District Geologist, Pre-Feasibility Report, Lease Document, Environment Management Plan and other documents	Submitted.

B. Environmental Sensitivities:

Sr. No.	Environmental Sensitivities	Actual Distance	Minimum Distance	Reference
1	Residential	Dagala-0.54 km.	100 m (When Blasting is not involved) **Or** 200 m (When Blasting is involved)	As per CPCB Distance Criteria And order of of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020
	Public buildings	Dagala-0.54 km.		
	Inhabited sites	Dagala-0.54 km.		
	Protected Monuments	Ram Kund (Bhuj) – 30.07 km.		
	Heritage Sites	Aaina Mahal palace (Bhuj) – 29.52 km.		
	National / State Highway	S.H. 42 – 3.15 km. N.H. 8A – 21.12 km.		
	District Roads	3.15 km.		
	Public Roads	2.41 km		
	Railway Line / Area	13.39 km.		
	Ropeway or Ropeway trestle or station	Junagadh Ropeway – 204.07 km.		
	Bridges	Near Habay – 10.15 km.		
	Dams	Tapar Dam – 19.67 km		
	Reservoirs	Near Mamuara - 5.62 km.		
	River	Local River - 1.25 km.		
	Canal	Near Tapar Dam – 20.15 km.		
	Lakes	Near Dagala – 0.24 km.		
	Tanks	Dagala -1.52 km.		
2	Eco-Sensitive Zone (if notified)	No Eco-Sensitive zone within 10 km. boundary of lease.	>1 km / outside the notified Eco-Sensitive Zone	Vide directives of MOEF&CC dtd 16.07.2020
3	Eco-Sensitive Zone (if not notified)	No Eco-Sensitive zone within 10 km. boundary of lease.	>1 km and <10 km = Prior Clearance from NBWL is required	Vide directives of MOEF&CC dtd 16.07.2020

4	Distance of Coastal line from the site	No Coastal line within 10 km boundary of lease.	>500 M from HTL	Amended CRZ Notification 2011

C. Details of Mining:

1.	Method of Mining (Manual / Semi-mechanized / Mechanized).	Open Cast Semi-mechanized mining method is adopted
2.	Equipment's to be used for Mining bulldozers, hydraulic excavators, JCB, scrapers, loaders, Diesel Pump, etc.)	Hydraulic Excavator, JCB & Loaders are equipment in use for mining activities.
3.	Whether it includes blasting?	Blasting is Not proposed in approved mining plan.
4.	Details of Authorized Blasting Agency with date of validity certificate	N.A.
5.	Procedure / SOP (in brief)	N.A.
6.	Details of Blasting Parameters in brief	N.A.
7.	Frequency of blasting	N.A.
8.	Impact of blasting	N.A.
9.	Outcome of Vibration study	N.A.
10.	Blasting Activity Management Plan	N.A.
11.	Use of any Chemical with quantity	N.A.
12.	Precautions taken for Human Safety in brief	N.A.
13.	Crusher provided? If Yes, Measures taken for Air Pollution Control	N.A.
14.	Compliance of DGMS Guidelines for Blasting	N.A.
15.	Compliance of Sustainable Sand Mine Guidelines published by MoEFCC in 2016	N.A.
16.	Whether Replenishment Rate Study is approved by District Geologist? If yes, conclude in brief	N.A.

D. Details of Green Belt Development:

1.	a. Green belt development budget	2.00 Lakh
	b. Green belt area / location	SBZ area
	c. No. of trees to be planted	650 trees
	d. Types of trees to be planted	Azadirachta indica – Dust, Air & Noise pollutant tollerance Ficus Religiosa– Air & Noise pollutant tollerance Butea Frondosa – Dust & noise pollutant tollerance

E. Details of Environment Management Plan:

1.	Details of EMP	Impact	Mitigation Measures
	a. Land Environment	Since mining is essentially an excavation of mineral ore the land environment is greatly affected by it, especially in the case of opencast mines: (a) The topsoil in the active mining area gets adversely affected.	Adopting suitable, site-specific mitigation measures can reduce the degree of impact of mining on land. Some of the land-related mitigation measures are as follows: (a) Topsoil is should be kept in a designated area and should be given minimum storage time to prevent nutrient loss.

		(b) The soil quality of the surrounding area are also likely to get affected due to siltation and run off from waste dumps. (c) The mine drainage, if it is acidic and containing toxic constituents, not adequately treated when discharged to nearby land would affect the soil quality adversely; when discharged untreated into streams effects the quality of water and make in unfit for agricultural use. (d) Agriculture is also directly linked to soil. If soil quality deteriorates, the agricultural productivity of the land decreases.	(b) Garland drains, ditches, catch pits in different combinations should be provided to prevent run off affecting the surrounding agricultural land. These are to be designed looking into the locational site features. (c) Mine drainage is to be treated adequately before discharge to stream outside the boundary of the project area. (d) Non-mineral zones and open areas should be planted with trees. (e) Siltation of agricultural land should be prevented.

	b. Water Environment	Mining and its associated activities not only use a lot of water but also likely to affect the hydrological regime of the area : (a) The major impact of deep and large mines is of natural groundwater table. (b) Lowering of water table may result in reduced groundwater availability (c) Extraction of different minerals is known to lead to water pollution due to heavy metal, acid discharges and increased suspended solids. However, the impact of mining project on groundwater hydrology and surface water regime are site specific and depends upon the characteristics of the mineral, hydrogeology and requirement of groundwater for other uses.	The following mitigation measures are suggested for water management and water pollution control. However, priority relevance depends on the location and type of mining and minerals: (a)The overall drainage planning should be donein such a manner that the existing pre-mining drainage conditions should be maintained to the extent possible so that run off distribution is not affected. (b)drainage conditions should be maintained to the extent possible so that run off distribution is not affected ©The surplus treated mine water should be discharged into local ponds and agricultural fields which should act like a constant source of recharge to improve the groundwater levelin the area (d)Rainwater harvesting by constructing check dams on natural nallah and developing water bodies should be planned for recharging groundwater. (e) (i)Stone barriers across the drain should be constructed to check the water current and arrest solids. (ii)Stone pitching should be made at suitable location to regulate water flow and prevent soil erosion. (iii) Settling pits and drains should be periodically desilted.
	c. Air Environment	Mining operation and associated activities are potentially air polluting and the major air pollutant is the suspended particulate matter. (a)Most of the air pollution problems are due to fugitive dust emission, which is more prominent in open cast mines (b)The intensity of dust generation in the mining is influenced by factors such as hardness of rock, mining technology and material handling etc.	Mitigation measures at various dust generating activities are discussed below: **(A)Paved surfaces**: Paved surfaces have less dust generation potential. Dust pick-up by wind depends on the wind speed and is usually significant at wind speeds above 5 meters per second. However slight speed of vehicle can cause higher dust generation. Dust emissions from paved surfaces can be minimized by adopting following measures: Prevent spillages of materials on the paved surfaces during materials transportation. (a) Minimize mud and dust track-out from unpaved areas by the use of wheel wash facilities. (b)Regular cleaning of paved surfaces, using mobile vacuum sweeper or a water flushing system. (c)Speed controls on vehicle movements. (d)Wind reduction control by plantation. **(B)Unpaved Surfaces :** Dust emissions from unpaved surfaces are caused than from paved surfaces are

			usually much greater. Dust emissions can be controlled by using the following methods: (a) Water sprinkling on unpaved areas during dry wind periods, using a water tanker/or fixed sprinklers. (b)Chemical stabilization can also be used in association with wet suppression. (c) Surface improvements may be done with concrete or asphalt or the addition of gravel or chemical dust suppression to the surface for stabilization. (d) Speed controls on vehicle movements to limit speeds. (e)Wind reduction control by plantation. (f)Wets up pression of unpavedareascanachievedustemissi onreductionsofabout70per centor more, andthiscansometimesbeincreasedby upto95%throughtheuseofchemical stabilization. (g)TreescanactasefficientbiologicalfilterS.The systematicandplannedgreenbelt development not only reducesthefugitivedustbutalsochecksrunoffa ndimprovestheaestheticbeautyofan area.
	d. Noise Environment	Noise level increase duetominingactivitiessuchasexc avation,drilling,blasting,handling and transportation of ore and overburden and operation of processing equipment: (a)Noise Pollution due to drilling & Blasting if applicable. (b) Noise Pollution due to use of heavy machineries.	The following mitigation measures can be adopted to control noise: (a)Selection of new low-noise equipment from the manufactures failing which use of additional retrofits if available. (b)Modifications of the older equipment or method by incorporating minor design changes. (c)Implementation of an effective planned preventive maintenance which reduces noise level by more than 50%. (d)When all controls fail to reduce the level of noise entering the ear, by use of personal hearing protection devices.
	e. Biological Environment	*Anticipated Impact(Flora and Fauna):* • Impactonforestresource s,economicallyimporta ntplants,medicinalplant sandthreatto rare, endemic and endangered species • Impact on terrestrial	Measures to compensate the loss off or est coverage: ➢ Regenerationofrareandendangered plantsofeconomicimportanceinclu dingmedicinal plants. ➢ Measures for protection and conservation of wildlife species ➢ Green belt and its raising schedule ➢ Progressive afforestation in overburden, reclaimed mined out

		land aquatic biodiversity • Impact on wildlife including gavi-fauna • Impact on wildlife habitat and migratory corridors • Impactonfloraandfauna duetoairemissions,noise,vibration,illumination, vehicular movement, waste water discharges, changes in land use, township etc.	areas
	f. Human Environment	Mining activity in an area has long term irreversible impact on Human Environment like local, sociological, cultural and economic situation. (a) People are directly affected due to pollution. (b) Health issues and spread of mining related dieses	Following mitigation measures are suggested: • A welfare plan with funding from the project proponent should be prepared to provide assistance to affected people. • The infrastructure facility (Educational Institute, Water Supply, Health Care etc.) developed by the project should also be extended to people without any cost or minimal cost. • Medical aid and regular check up. • Various compensatory packages to be formulated for the improvement of socio-economic condition of people. They are: (i)Monetary compensation. (ii) Compensation in kind (iii)Training to locals to develop skill should be promoted by the project.
	g. Others	None	None
2.	Occupational health & safety measures as per DGMS	The guidelines declared by DGMS for Health & safety time to time are followed strictly and being complied.	
3.	Safety measures proposed	No drilling & Blasting is required for the mining of White Clay mineral, however require safety measures like compulsory use of PPE's on operation place, regular checkup of labors for health issues and free medicine to labors.	
	a. Is First Aid facility provided by PP?	Yes, First Aid facility is 24 hours available at site of operation of mining.	
	b. Details of PPEs	Mineworkers require specific Personal Protection Equipment (PPE) to protect the entire body from any harm or injury in the mining environment are: (1) **Head and face protection**: This comprises of a hard hat, safety glasses, ear plugs and half-face or full-face masks. (2) Feet and leg protection: The standard footwear for optimal foot and leg	

		protection are heavy-duty boots.
	c. Whether Registration of Workers under Building and other Construction Workers' (regulation of Employment & Conditions of Service) Act, 1996 and as Beneficiaries with the Gujarat Building and other Construction Workers Welfare Boards is obtained or not?	Project is on contract base.
	d. Insurance of Workers	Workers are insured with accident policy.
	e. Health checkup plan of workers	Health plan of workers is adopted and it is being carried out twice in every month regularly.

F. Transportation:

1.	No. of vehicles per day carrying Minerals	27-28 Trucks
2.	Fugitive dust emission control measures	Water Sprinkling, Speed limit of loaded and un loaded vehicles, PUC
3.	Route plan in brief	2.97km long with 4.5 m. width approach rout is there.

G. Financial details of the Project:

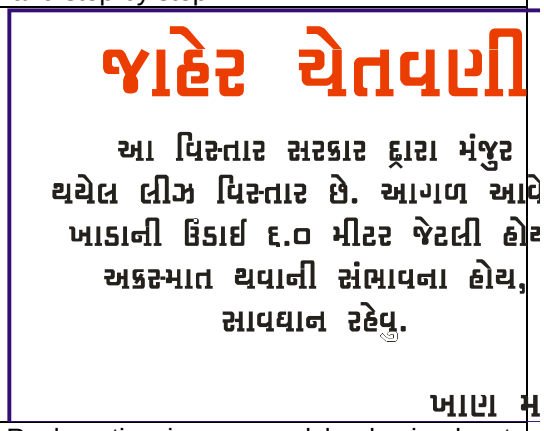
1.	Total cost of the project (Lakh)	190.01
	a. Upfront cost (Lakh)	-
	b. Performance Security (Lakh)	3.41
	c. Total Royalty (Lakh)	90.00
	d. Weigh Bridge Cost (Lakh)	2.5
	e. Labor cost equipment (Lakh)	50.00
	f. Equipment protection and implementation cost (Lakh)	24.00
	g. Green Belt Development & maintenance cost (Lakh)	2.00
	h. Cost of EMP (Lakh)	17.00
	i. Cost of Safety measures (Lakh)	0.50
	j. Cost of Post-Closure Mine Plan (Lakh)	It is included in cost of EMP

2.	Budget allocated for CER (Lakh)	3.80			
3.	Is need based survey for CER carried out? (Yes / No) If yes, give details of activities along with Budgetary Outlay	SN	Activity	Budget 1st year 2nd year 3rd year 4th year 5th year	
		1	Provide drinking water facility : (1) In surrounding villages and schools by hand pump/water tank. (2) Water cooler with RO purifier at village school / Panchayat Building. (3) Donation for Overhead Tank in slum area of village.	70,000/-	
		2	Health camps : (1) Free Doctor Consultation (2) Free medicine (3) Arrangements of Blood Donation Camps.	70,000/-	
		3	Educational support to poor students of the village specially girls : (1) Scholarship, School Dress, Books etc. to poor students. (2)Arrangement of different competitions with Awards in school (3) Inter School	1,75,000/-	

			sport competition and Awards distribution. (4) Donation for Sports instruments & developments of sports grounds.	
		4	Development Programme : 1) Donation for Toilet facility in slum area of village. 2) Plantation including Maintenance around School &Panchayat Building . 3) Plantation including Maintenance in the internal roads of Village.	65,000/-

H. Restoration / Reclamation Plan:

1.	Restoration / Reclamation Details	0.6307 ha. Area will be reclaimed by refilling area.
2.	Post mining closure plan	Mine closure will be in two step (1) Progressive mine closure and (2) Final mine closure. As per approved plan at end of mine the 0.6964 ha. SBZ & 0.6307 ha. area will be reclaimed by refilling area will be developed with plantation of dust & Noise tolerance species of vegetation and rest 3.5729 ha. will be converted as water reservoir with parapet fencing to avoid accident.
3.	Backfilling material and its quantity	Back filling is proposed in approved mining plan.
4.	Size of void for Rain Water Harvesting after backfilling	It is rain scarcity area and the size of backfilled area is 0.6307ha. Which is negligible for rain water harvesting.
5.	Post Closure Liability / Safety aspects and Measures to be taken to avoid wild life and human accidents/ causalities	In Post Closure Liability / Safety aspects and Measures to be taken like proposal of wired fencing and buffer plantation on SBZ area around lease boundary to avoid illegal entry and stone parapet having 4

		feet high around mined out area or Pit to avoid accident or causalities to domestic animal and human life. Pit will be used as water reservoir till it will re gain as grazing land step by step
6.	Display of Caution Boards at strategic locations on the periphery of the pit area	
7.	Final Use of reservoir/ reclaimed land	Reclamation is proposed land mined out pit will be used as water reservoir till it will reclaimed and at the end the total area will be reclaimed as grazing land.

I. Details of Legal Action / Court Case:

1.	Details of Pending Court matter / Public Litigation Cases in any court of Law	No any matter against project is pending in any court of law.
2.	Details of Action taken by GPCB, if any	None
3.	Details of public complaint , if any	None
4.	Compliance of EC by RO-GPCB or MoEFCC-Bhopal	Ec is yet to get and application for that is pending since 2015.

J. Contact Details:

1.	**Contact details of Applicant**	Karman Karshan Dhila
2.	Name	Karman Karshan Dhila
3.	Address	At.Dagala,Ta. Bhuj,Kachchh (Gujarat).
4.	Contact no.	9638339932
5.	Email Id	-
6.	**Contact details of Consultant**	P & M Solution
7.	Name	Hussain Ziauddin
8.	Address	1st Floor, C-88, Sector -65, Noida-201301
9.	Contact no.	9015858114
10.	Email Id	hussainziauddin234@gmail.com

Deliberation:

- Shri Bhanjibhai Solanki from M/s. P & M Solution remained present in the meeting on behalf of PP and he has submitted the Authorization letter for same.
- Committee deliberated on method of mining, rate of mining, no. of working hours and workers, the location of the lease w.r.t. Environmental Sensitivities and found as per the criteria prescribed by CPCB etc.

- Committee noted that the mining does not involve blasting.
- During the presentation, Environmental Management Plan, Restoration / reclamation plan, CER activities and its budget, green belt development etc. was discussed.
- Committee noted that it is an existing lease and the consultant presented production details (in MTPA) validated by District Geologist, Kutch vide letter no. Gkk/ML-1173/11357, dated 19.03.2021 as below:

Month	Production	Month	Production	Month	Production	Month	Production
Apr'08	-	Apr'12	20	Apr'16	2230	Apr'20	0
May'08	-	May'12	0	May'16	3220	May'20	850
Jun'08	-	Jun'12	0	Jun'16	6484	Jun'20	781
Jul'08	0	Jul'12	0	Jul'16	4767	Jul'20	450
Aug'08	0	Aug'12	0	Aug'16	0	Aug'20	700
Sep'08	2	Sep'12	13	Sep'16	1936	Sep'20	1993
Oct'08	0	Oct'12	0	Oct'16	6131	Oct'20	2400
Nov'08	0	Nov'12	0	Nov'16	779	Nov'20	-
Dec'08	0	Dec'12	0	Dec'16	2105	Dec'20	4550
Jan'09	1	Jan'13	10	Jan'17	1200	-	-
Feb'09	0	Feb'13	0	Feb'17	4900	-	-
Mar'09	0	Mar'13	0	Mar'17	514	-	-
Apr'09	0	Apr'13	0	Apr'17	1727	-	-
May'09	2	May'13	22	May'17	350	-	-
Jun'09	0	Jun'13	0	Jun'17	1350	-	-
Jul'09	0	Jul'13	50	Jul'17	0	-	-
Aug'09	0	Aug'13	50	Aug'17	0	-	-
Sep'09	0	Sep'13	0	Sep'17	0	-	-
Oct'09	0	Oct'13	500	Oct'17	0	-	-
Nov'09	0	Nov'13	300	Nov'17	2300	-	-
Dec'09	0	Dec'13	0	Dec'17	23	-	-
Jan'10	0	Jan'14	0	Jan'18	890	-	-
Feb'10	0	Feb'14	0	Feb'18	1193	-	-
Mar'10	0	Mar'14	200	Mar'18	1400	-	-
Apr'10	5	Apr'14	100	Apr'18	0	-	-
May'10	10	May'14	200	May'18	2711	-	-
Jun'10	0	Jun'14	200	Jun'18	500	-	-
Jul'10	0	Jul'14	200	Jul'18	0	-	-
Aug'10	0	Aug'14	0	Aug'18	0	-	-
Sep'10	0	Sep'14	200	Sep'18	0	-	-
Oct'10	0	Oct'14	0	Oct'18	15	-	-
Nov'10	0	Nov'14	200	Nov'18	23	-	-
Dec'10	0	Dec'14	0	Dec'18	1500	-	-
Jan'11	0	Jan'15	0	Jan'19	55	-	-
Feb'11	0	Feb'15	30	Feb'19	0	-	-
Mar'11	0	Mar'15	0	Mar'19	0	-	-
Apr'11	0	Apr'15	0	Apr'19	1466	-	-
May'11	0	May'15	100	May'19	0	-	-
Jun'11	5	Jun'15	500	Jun'19	0	-	-
Jul'11	0	Jul'15	1000	Jul'19	0	-	-
Aug'11	0	Aug'15	500	Aug'19	0	-	-
Sep'11	0	Sep'15	0	Sep'19	520	-	-
Oct'11	0	Oct'15	500	Oct'19	920	-	-
Nov'11	0	Nov'15	200	Nov'19	170	-	-
Dec'11	5	Dec'15	5392	Dec'19	4900	-	-

Month	Production	Month	Production	Month	Production	Month	Production
Jan'12	0	Jan'16	9145	Jan'20	4000	-	-
Feb'12	5	Feb'16	13760	Feb'20	1212	-	-
Mar'12	0	Mar'16	3216	Mar'20	1187	-	-

- Committee noted that the production was continued after 31.03.2016. PP presented the acknowledgement slip of earlier TOR / EC application dated 14.12.2015, i.e. before 13.04.2018.

Referring to the order of Honorable National Green Tribunal dtd.13.01.2015 in the O.A.No.123/2014 and M.A.419 of 2014, Himmat Singh Shekhawat v/s State of Rajasthan and order of Honorable National Green Tribunal dtd.04.05.2016 in the O.A.No.34/2016, Naresh Zargar v/s of Madhya Pradesh and order of Honorable National Green Tribunal dtd.30.06.2020 in the O.A. No 136/2017, Tamil Nadu Small Mine Owners Federation v/s Ministry of Environment Forest and Climate Change Government of India, Committee noted that proposal falls under violation to EIA Notification 2006. It is also noted that PP has applied for EC on 14.12.2015. Hence, unanimously decided to recommend for **TOR under violation to EIA Notification 2006 as per Annexure - I and TOR for Non-Sand Mining without blasting as per Annexure – II.**

6. LATERITE & BAUXITE MINING, DIST : PORBANDAR – EC AMENDMENT

Application No	Name of Project	S.No.	Village	Taluka	Dist	Lease Area	ROM	Date of Application Received by SEAC
SIA/GJ/MIN/196433/2021	M/s. Saurashtra Minerals Pvt. Ltd.	184, 185, 286, 290, 299 & 300 for Laterite mine 185, 286, 290 & 299	Palakhada	Porbandar	Porbandar	**For EC Amendment:** Laterite lease area – 90.5279 Ha Bauxite lease area – 65.3971 Ha **For EC Granted**: Laterite lease	76,520 MTPA for Laterite mine 1,78,794 MTPA for Bauxite mine	05.04.2021

		for Bauxite mine				area – 66.1373 Ha Bauxite lease area – 46.2369 Ha		

During the SEAC meeting dated **28.05.2021**, the committee noted that the PP has applied for Amendment of Environmental Clearance (EC) granted by SEIAA vide letter no. SEIAA/GUJ/EC/1(a)/929/2020 on 07.08.2020 for Palakhada Laterite (66.1373 Ha) and Bauxite Mine (46.2369 Ha) of Saurashtra Minerals Pvt. Ltd., (SMPL) located at Village Palakhada, Taluka Porbandar, District Porbandar, Gujarat.

As per the application submitted by the PP, the Amendment in EC is sought for the following two main points:

A. Applicability of order dated **30.06.2020** passed by Hon'ble NGT, Chennai, in O.A. No. 136 of 2017 and Office Memorandum dated **18.08.2020** issued by MOEFCC, Govt of India, to SEIAA Gujarat in this regard.
B. Applicability of order dated **21.07.2020** passed by Hon'ble NGT, New Delhi, in O.A. No. 304 of 2019.

PP has submitted following justification for Point (A)

1. Saurashtra Minerals Pvt. Ltd. (SMPL) has submitted applications to the MOEF on **25th July, 2012** for grant of Environmental Clearance for the captioned Laterite ML and Bauxite ML.
2. In terms of the Notification No. S.O. 804 (E) dated 14.03.2017 issued by MOEFCC, both the cases were transferred to the EAC (Violation) under the violation category.
3. As per the provisions under S.O. 3977 dated 14th August, 2018, issued by MOEFCC, the case is classified as a Category B project (lease area within 100 Ha.) and was transferred under B category to SEIAA, Gujarat for grant of EC.
4. The SEAC Gujarat, has processed the application as a "violation application" and vide their letter dated 03.07.2020, has recommended to SEIAA Gujarat for grant of EC based on the discussion in the meeting of SEAC held on 26.06.2020. The

proposal was considered by SEIAA during its meeting held on 04.07.2020 and the EC was granted on 07.08.2020.

5. Since the application was processed as a Violation application, the company has submitted a Bank Guarantee dated 31.07.2020 in terms of Para 13 (7) of the Amended Violation notification dated 08.03.2018.
6. During the intervening period, the Hon'ble NGT, Chennai, in O.A. No. 136 of 2017 (SZ) passed an order dated 30.06.2020. As per Para 60 and 61 (i) of the Order dated 30.06.2020 passed by Hon'ble NGT **all applications filed for EC as on 31.03.2016 cannot be treated as Violator and applications pending as on 31.03.2016 for EC are to be treated as normal applications and not violation applications.**
7. The application for grant of EC was filed by SMPL before MOEFCC on **25.07.2012 and it was pending for clearance as on 31.03.2016** and hence it is required to be treated and processed as a normal application and not as a Violation Application. Since the violation notification dated 14.03.2017 and its amendment dated 08.03.2018 are no longer applicable to the EC application, the provisions of Para 13 (7) of the notification dated 08.03.2018 which stipulate the submission of bank guarantee are also no longer applicable. The bank guarantee is therefore required to be released by GPCB.
8. MOEFCC has issued an Office Memorandum dated 18.08.2020, and advised SEIAA of all the states (including Gujarat) for necessary compliance of the Order dated 30.06.2020 passed by the Hon'ble NGT.
9. With the aforesaid background, in compliance of the Order dated 30.06.2020 passed by the Hon'ble NGT, and the subsequent O.M. dated 18.08.2020 issued by MOEFCC, SMPL is now seeking an amendment in the EC granted by SEIAA Gujarat on 07.08.2020 so that the various conditions in the EC which are applicable to a violation case are deleted and EC is suitably amended as for a normal case.

PP has submitted following justification for Point (B)

1. As per the order dated 21st July, 2020, in Application No. 304/2019, passed by National Green Tribunal Principal Bench, New Delhi, the minimum distance criteria may be considered as mentioned below.

Mining Type	**Minimum Distance**	**Locations**
When Blasting is not involved	100 m	Residential / public building, inhabited site locations to be considered by State
When Blasting is involved	200 m	

2. Since Village Palakhada is located at a distance of 162 meter from the mining area and SMPL has proposed mining without blasting, the mining area may be considered as 90.5279 Ha for Laterite ML and 65.3971 Ha for Bauxite ML, as originally proposed by the PP.

The Committee also noted the chronology of events submitted by the PP as below-

Chronology of Laterite mine Project No J-11015/277/2012-IA.II(M):

1. Application in Form -1 (as per Environment Notification 2006) submitted to the Expert Appraisal Committee , MoEF – New Delhi on 28th July 2012
2. ToR Presentation on 20th Dec 2012
3. Violation Case No. 2819/2013 filed by GPCB on 19th Sept, 2013
4. Direction under section 5 of Environment (Protection) Act, 1986 for violation of provision of the EIA notification 2006 regarding expansion of mining activity issued by MoEF on 5th March 2014
5. Submission of Environment policy, violation case papers and Resolution of Board of Directors on 31st March 2014
6. Resubmission of Environment policy, violation case papers and Resolution of Board of directors and a site visit report of Regional office of Gujarat Pollution control Board on 29th October 2014
7. Issue of ToR letter on 15th Dec 2014
8. Submission of Application for Corrigendum in TOR on 9th January 2015

9. Submission of Online application for corrigendum in TOR on 29th September 2015
10. Corrigendum in ToR issued by MoEF on 30th November 2015
11. Public Hearing conducted on 28th January 2016
12. Online EIA Submission on 2nd July 2016
13. 1st EC presentation Case no 2.22 on 20th September 2016
14. Queries raised by EAC MoM of EAC meeting held on 20th Sep 2016
15. Compliance Reply submitted by SMPL on 5th December 2016
16. 2nd EC presentation on 30th January 2017
17. Court Order in the Violation Case No. 2819/2013 issued and fine paid on 11th February 2017
18. Compliance Reply submitted by SMPL on 6th March 2017
19. Violation Notification No. S.O. (804) E dated 14.03.2017 issued by MOEF&CC on 14th March 2017
20. Application made under the Violation Notification on 20th May 2017
21. Presentation for ToR before Violation Committee on 27th June, 2018

Chronology of Bauxite mine Project No J-11015/276/2012-IA.II(M):

1. Application in Form -1 (as per Environment Notification 2006) submitted to the Expert Appraisal Committee , MoEF – New Delhi on 25th July 2012
2. ToR Presentation on 20th Dec 2012
3. Violation Case No. 2820/2013 filed by GPCB on 19th Sept, 2013
4. Direction under section 5 of Environment (Protection) Act, 1986 for violation of provision of the EIA notification 2006 regarding expansion of mining activity issued by MoEF on 5th March 2014
5. Submission of Environment policy, violation case papers and Resolution of Boardof Directors on 31st March 2014
6. Resubmission of Environment policy, violation case papers and Resolution of Board of directors and a site visit report of Regional office of Gujarat Pollution control Board on 29th October 2014
7. Issue of ToR letter on 15th Dec 2014
8. Public Hearing conducted on 20th November 2015

9. Online EIA Submission on 2nd July 2016
10. 1st EC presentation Case no 2.23 on 20th September 2016
11. Queries raised by EAC MoM of EAC meeting held on 20th Sep 2016
12. Compliance Reply submitted by SMPL on 5th December 2016
13. 2nd EC presentation on 30th January 2017
14. Court Order in the Violation Case No. 2820/2013 issued and fine paid on 2nd February 2017
15. Compliance Reply submitted by SMPL on 6th March 2017
16. Violation Notification No. S.O. 804 (E) dated 16.03.2017 issued by MOEFCC on 16th March 2017
17. Application submitted under violation category on 20th May 2017
18. Presentation for ToR before Violation Committee on 27th June, 2018

Laterite and Bauxite Combined Application:

1. Combined application for Laterite and Bauxite ML submitted as per MoM of 27.06.2018 on 6th July 2018
2. 1st ToR presentation under violation committee on 1st August 2018
3. 2nd ToR Presentation under violation committee on 20th September 2018
4. ToR recommended by MoEF&CC, EAC Violation on 16th January 2020
5. Online EIA report submission to SEAC on 13th Feb 2020
6. EC presentation on 17th June 2020
7. Query reply submission on 26th June 2020
8. EC recommendation by SEAC vide 672nd MOM of 26th June 2020
9. EC recommendation by SEIAA vide 408th MOM of 4th July 2020
10. EC receipt on 7th August 2020
11. Order passed by the Hon'ble NGT – Chennai, in O.A. 136/2017 (SZ) 30th June 2020
12. Office Memorandum issued by MOEF&CC for compliance of Order passed by the Hon'ble NGT – Chennai, in O.A. 136/2017 (SZ) 18th August 2020.

Looking to the chronology of events, the Committee noted that the application for EC was filed by the PP before the MoEF on 28th July 2012 (for Laterite mine) and on 25th July 2012 (for Bauxite mine). Subsequently ToR – violation was recommended by MoEF&CC, EAC Violation on 16th January 2020, Online EIA report submission to SEIAA/SEAC on 13th Feb 2020 and finally EC was granted on 7th August 2020.

It is pertinent to note that PP had continued production till 2013-14 after filing the application to MoEFCC on 25th July, 2012 for Bauxite and 28th July, 2012 for Laterite.

As far as the claim put forwarded in point no. (B) by the applicant in the Amendment application vide no. SIA/GJ/MIN/196433/2021, dated 05.04.2021, the Committee noted that PP has submitted the certified map issued by the Dist. Geologist, Porbandar as per the above originally granted area and IBM has also approved the mining plan for Bauxite (65.3971 Ha) vide letter no.684(4)(1)MP-318/2020-21-GNR, dated 02.03.2021, however the approved mining plan for Laterite (90.5279 Ha) is yet to be submitted by PP.

The Committee also noted that the proposal seeking Environment Clearance of M/s. H. P. Thanki (Bauxite Mine Lease area: 32.3748 Ha) at Survey no. 261, Vill: Mahadevia, Ta: Kalyanpur, Dist – Devbhumi Dwarka was appraised by the SEAC during 121st SEAC meeting dated 31.12.2020 vide application no. SIA/GJ/MIN/24303/2020, dated 18.11.2020 and the applicability of Judgement / Order dated 30.06.2020 of Hon'ble NGT South Zone, Chennai,O.A. No. 136/2017 (SZ) was deliberated upon, especially w.r.t. Para no. 60 and 61 (i) that read as, all applications which are pending as on 31.03.2016 for Environmental Clearance have to be treated as normal applications and not violation applications and the authorities are directed to dispose of those applications in accordance with law and it was unanimously decided that as the application of H P Thanki was filed before MoEF&CC on 28.07.2012 and therefore in view of above mentioned order dated 30.06.2020 and the subsequent OM dated 18.08.2020 issued by MOEFCC, the violation notification dated 14.03.2017 and its amendment dated 08.03.2018 are no longer applicable to aforementioned EC

application and was processed as normal application and subsequently EC was granted by SEIAA.

However, the EC amendment application for SMPL in which they have claimed that '*the application for grant of EC was filed by SMPL before MOEFCC on* ***25.07.2012 and it was pending for clearance as on 31.03.2016*** *and hence it is required to be treated and processed as a* ***normal application and not as a Violation Application****. Since the violation notification dated 14.03.2017 and its amendment dated 08.03.2018 are no longer applicable to the EC application, the provisions of Para 13 (7) of the notification dated 08.03.2018 which stipulate the submission of bank guarantee are also no longer applicable. The bank guarantee is therefore required to be released by GPCB.'* Thus, in this case the matter also involves the release of **Bank Guarantee worthRs.1,66,00,000/- (Rupees One Crore Sixty Six Lakh only).**

Therefore under the circumstances, the committee unanimously decided to

I. Seek a legal opinion before considering the proposal for EC amendment for the following points:
   a) Whether the application can be treated as a normal application and not a violation application in light of Hon'ble NGT, Chennai, Order dated 30.06.2020 in O.A. No. 136 of 2017 (SZ) and whether the Bank Guarantee can be released or not.
   b) Whether the application finds the applicability of order dated 21.07.2020 passed by Hon'ble NGT, New Delhi, in O.A. No. 304 of 2019 and also the Order dated 30.09.2020 passed by Hon'ble NGT, Principal Bench, New Delhi in Appeal No. 03/2020 (WZ) (Earlier Original Application No. 85/2019 (WZ)) (I.A. No. 63/2020) & connected matters.

II. Ask the PP to submit below mentioned details:

a) The Approved (Revised) Mining Plan as well as all the revised relevant documents for the mining of Laterite (90.5279 Ha) and Bauxite (65.3971 Ha)

b) The documentary evidences regarding the ownership of the lease area for Laterite (90.5279 Ha) and Bauxite (65.3971 Ha)

c) Credible justification for considering the proposal as Normal Application and not as a Violation Application even when the production is carried outby the PP till 2013-14 after filing the application to MoEFCC on 25th July, 2012 for Bauxite and 28th July, 2012 for Laterite.

Hence, in view of the above, the Committee unanimously decided to consider the aforementioned proposal for EC Amendment appropriately in upcoming SEAC meeting after obtaining the legal opinion and aforementioned submission by the PP.

7. BUILDING LIMESTONE MINING, DIST: JAMNAGAR – TOR Amendment in lease area

Application No	Name of Project	S.No.	Village	Taluka	Dist	Lease Area	Validity of lease	ROM	Nearest Human Habitation	End Use	Investment in Rs	Date of Application Received by SEAC
SIA/GJ/MIN/179448/2021	Amarapar Limestone (Devayatbhai Bhatu)	465 paiki 1 (New 447)	Amarapar	Jamjodhpur	Jamnagar	2.50.00 Ha (Old – 2.00.00 Ha)	LoI issued on 31.03.2017	60,000 MTPA	Amarapar – 1.77 km	Construction	Rs.3.36 Crore	07.05.2021

PP has applied vide application no. SIA/GJ/MIN/179448/2021, dated 07.05.2021 for amendment of lease area of TOR issued to them vide letter no. SEIAA/GUJ/ToR/1(a)/360/2020, dated 05.06.2020. PP has applied to **amend lease area as 2.50.00 Ha instead of 2.05.00 Ha**. Shri Mayank Patel presented the presentation before the Committee on behalf of PP.

During the SEAC meeting dated 28.05.2021, the committee noted that SEAC is in receipt of the letter no. SEIAA/Guj/Gen-3/38/2021 dated 21.01.2021 along with the complain letter dated 13.01.2021 from Shri Bhikhabhai Devabhai Pata, Vill. Paradva,

Ta. Jamjodhpur, dist. Jamnagar whereby the main contention is regarding the land ownership dispute for the lease granted in favour of the said proposal under consideration. During the meeting, the objections raised in the Complain letter were brought to the notice of the Consultant representing the Project Proponent. In this context, the PP informed that the objections regarding the lease allotment does not seem appropriate and in support of it, submitted before the SEAC that -

(i) The PP has been issued the Letter of Intent vide no. GJ/Lease/QL/Appeal/12043/1238 to 1244 dated 31.03.2017

(ii) Later on, the PP has been granted lease vide no. GJ/QL/12043/1226 dated 22.05.2019 by the District Collector, Jamnagar for survey no. 465 paiki 1 (New 447 paiki) of village Amrapar.

(iii) Also considering this LOI and Lease Grant Order, DILR office, Jamnagar has after due procedure of measurement has provided Lease area map in survey no. 465 paiki 1 (New 447 paiki) of village Amrapar.

(iv) Hon. Gujarat High Court has given direction in Special Civil Application (SCA) No. 5612 of 2021 dated 31/03/2021 in the matter of Dipakkumar Devayatbhai Bhatu versus State of Gujarat that “the Government shall pass an order in writing within a period of six weeks from the date of receipt of this order, for grant of quarry lease to the petitioner in accordance with the Condition mentioned in the LOI.”

(v) The PP also informed that the objections raised by the complainer Shri Bhikhabhai Devabhai Pata and also that raised by Shri Shakilbhai Alarakhabhai Seta are already addressed during the Public Hearing conducted on 20.01.2021. The lease holder has also responded in this regard to Shri Bhikhabhai Devabhai Pata and Shri Shakilbhai Alarakhabhai Seta on 20.01.2021.

The PP displayed above mentioned relevant documents during the SEAC meeting and also submitted these documents to SEAC.

Therefore, considering all above, the committee unanimously decided to recommend SEIAA for **TOR amendment for lease area as 2.50.00 Ha instead of 2.05.00 Ha**.

8. BLACK TRAP MINING, DIST: KUTCH – EC AMENDMENT in Survey Number

Application No	Name of Project	S.No	Village	Taluka	Dist	Lease Area	Validity of lease	ROM	Date of Application Received by SEAC

SIA/GJ/MIN/205248/2021	Daud Ladha Rayma	562 paiki **(Old – 62/P)**	Gadhshisha	Mandvi	Kutch	2.00.00 Ha	-	1000 MTPM	17.05.2021

PP has applied vide application no. SIA/GJ/MIN/205248/2021, dated 17.05.2021 for amendment of Survey Numbers of EC issued to them vide letter no. SEIAA/GUJ/EC/1(a)/3504/2015, dated 31.08.2015. PP has applied to amend **survey numbers as 562 paiki instead of 62/P**. Shri Zalak Savaliya presented the presentation before the Committee on behalf of PP.PP has presented (i) Approved Mining Plan vide lettr no. CGM/MC/KCH/685/1187, dated 10.03.2021, (ii) Lease Document vide letter no.BhuViKha/GK/QL/6842, dated 25.07.2005, (iii) Form - I as a proof of amendment of survey numbers. The committee cross checked the details, provided in original application, its relevant supportive documents submitted, EC issued earlier and after being satisfied, the Committee asked PP to submit Notarized Undertaking for requirement of Amendment after long period of time. Later on PP has submitted the same. Hence, Committee unanimously decided to recommend SEIAA for EC Amendment for **survey numbers as 562 paiki instead of 62/P**.

9. BLACK TRAP MINING, DIST: BHAVNAGAR

Application No	Name of Project	S.No.	Village	Taluka	Dist	Lease Area	Validity of lease	ROM	Nearest Human Habitation	End Use	Investment in Rs	Date of Application Received by SEAC
SIA/GJ/MIN/58131/2020	Sonpari Block D - Black Trap Stone Mine by Mr. Milanbhai P. Dhapa	SURVEY NO. 93 Paiki 3	Sonpari	Palitana	Bhavnagar	4.16 Ha	LoI issued on 27.09.2018 for 30 years	78762 MTPA	Sonpari – 0.58 km	Construction	Rs.1,16,92,922/-	18.05.2021

The project falls under B1 Category – 1(a), i.e. Mining of Minerals as per the provision of EIA Notification, 2006. Project Proponent has applied to obtain Terms of Reference (TOR) for mining of Black Trap.

A. Basic Information of the Project:

1.	Name of Project as per Form I	Sonpari Block D - Black Trap Stone Mine by Mr. Milankumar Parshotmbhai Dhapa

<table>
<tr><td>2.</td><td>Address of the lease</td><td>Survey No.: 93 Paiki 3
Village: Sonpari
Taluka: Palitana
District: Bhavnagar</td></tr>
<tr><td>3.</td><td>Name of lease holder</td><td>Mr. Milankumar Parshotmbhai Dhapa</td></tr>
<tr><td>4.</td><td>Lease area (Ha)</td><td>04.16.00</td></tr>
<tr><td>5.</td><td>Cluster Details</td><td></td></tr>
<tr><td></td><td>a. Total no. of leases in the cluster</td><td>5</td></tr>
<tr><td></td><td>b. No. of TOR granted in cluster</td><td>0</td></tr>
<tr><td></td><td>c. No. of EC granted in cluster</td><td>0</td></tr>
<tr><td></td><td>d. Total area of the cluster</td><td>22.73 Ha</td></tr>
<tr><td></td><td>e. Maximum individual lease area</td><td>05.00.00 Ha</td></tr>
<tr><td></td><td>f. Minimum individual lease area</td><td>04.16.00 Ha</td></tr>
<tr><td>6.</td><td>Validity of lease with the date of expiry</td><td>30 Years</td></tr>
<tr><td>7.</td><td>Rate of Mining (MT/Annum)</td><td>78,762 MTPA</td></tr>
<tr><td>8.</td><td>Details of EC obtained (for expansion projects), if any</td><td>Not applicable</td></tr>
<tr><td>9.</td><td>Name of River Bed</td><td>Not applicable</td></tr>
<tr><td>10</td><td>Is the river perennial / non-perennial?</td><td>Not applicable</td></tr>
<tr><td>11</td><td>Lease area (submerged / in stream / on dry river bed)</td><td>Not applicable</td></tr>
<tr><td>12</td><td>All coordinates of the lease area as per Approved Mining Plan</td><td>
<table>
<tr><td>Pillar No.</td><td>Latitude</td><td>Longitude</td></tr>
<tr><td>BP 1</td><td>21°29'41.31"N</td><td>71°50'15.89"E</td></tr>
<tr><td>BP 2</td><td>21°29'39.18"N</td><td>71°50'25.99"E</td></tr>
<tr><td>BP 3</td><td>21°29'35.00"N</td><td>71°50'24.63"E</td></tr>
<tr><td>BP 4</td><td>21°29'37.32"N</td><td>71°50'14.23"E</td></tr>
</table>
</td></tr>
<tr><td>13</td><td>Manpower requirement</td><td>8 nos</td></tr>
<tr><td>14</td><td>Applicability of CRZ Notification</td><td>NA</td></tr>
<tr><td>15</td><td>Minimum Setback distance proposed to be maintained from River Bed (m)</td><td>NA</td></tr>
<tr><td>16</td><td>Minimum buffer distance from bridge piers / water intake wells / irrigation structures</td><td>NA</td></tr>
<tr><td>17</td><td>Maximum depth of sand removal (3 m or water depth whichever is less)</td><td>NA</td></tr>
<tr><td>18</td><td>Width of Riverbed (m)</td><td>NA</td></tr>
<tr><td>19</td><td>Average depth of water</td><td>NA</td></tr>
</table>

	at lease area (m)	
20	Depth of mining (m)	NA
21	Ground Water Table in meter BGL	NA
22	Does ground water interfere approach road exit? (Yes / No) If yes, status report of CGWA	NA
23	Distance between lease and main road	1.17 km
24	Length of kaccha road (m)	1430 meter
25	Length of pacca road (m)	NA
26	Plan for making pacca road	Common approach road will be made in cluster
27	Source of fresh water	Tankers
28	Water requirement (kLPD)	6.1 LKD
	a. Domestic	0.5 KLD
	b. Dust suppression	2.8 KLD
	c. Gardening / Green belt development	2.8 KLD
	d. others	
29	Whether the Undertaking is submitted for identical information provided in Form I, Approved Mining Plan, Project Details validated by District Geologist, Pre-Feasibility Report, Lease Document, Environment Management Plan and other documents	Yes

B. Environmental Sensitivities:

Sr No.	Environmental Sensitivities	Actual Distance	Minimum Distance	Reference
1	Residential	Sonpari: 0.58 Km, W	100 m (When Blasting is not involved) **Or** 200 m (When Blasting is	As per CPCB Distance Criteria And order of of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020
	Public buildings	None Within 200m radius		
	Inhabited sites	None Within 200m radius		
	Protected monuments,	None Within 200m radius		
	Heritage sites	None Within 200m radius		
	National / State Highway	Talaja – Palitana Highway (SH 31) : 1.17 Km, NE		

		NH 8E: 24.32 Km, SE	involved)	
	District roads	None Within 200m radius		
	Public roads	Talaja – Palitana Highway (SH 31) : 1.17 Km, NE		
	Railway line / area	4.90 Km, NNW		
	Ropeway or Ropeway trestle or station	None Within 200m radius		
	Bridges	None Within 200m radius		
	Dams	Kharo dam : 1.73 km, NE Shatrunjay Dam : 2.02 km in SE		
	Reservoirs	None Within 200m radius		
	River	Rajaval River: 3.08 km, N		
	Canal	No Canal Within 200m radius		
	Lakes	None Within 200m radius		
	Tanks	None Within 200m radius		
2	Eco-Sensitive Zone (if notified)	No wildlife sanctuary, national park or biosphere reserve within 10 Km radius of mine lease area.	>1 km / outside the notified Eco-Sensitive Zone	Vide directives of MOEF&CC dtd 16.07.2020
3	Eco-Sensitive Zone (if not notified)	No wildlife sanctuary, national park or biosphere reserve within 10 Km radius of mine lease area.	>1 km and <10 km = Prior Clearance from NBWL is required	Vide directives of MOEF&CC dtd 16.07.2020
4	Distance of Coastal line from the site	None within 10 km radius of mine lease area	>500 M from HTL	Amended CRZ Notification 2011

C. Details of Mining:

1.	Method of Mining (Manual / Semi-mechanized / Mechanized).	Semi-mechanized
2.	Equipments to be used for Mining bulldozers, hydraulic excavators, JCB, scrapers, loaders, Diesel Pump, etc.)	Excavator, Jack Hammer, Compressor, Trucks
3.	Whether it includes blasting?	Yes
4.	Details of Authorized Blasting Agency with date of validity certificate	Authorized/ Valid agency will be hired for blasting activity
5.	Procedure / SOP (in brief)	Wet drilling will be carried out with the help of jack hammers. The hole will be stacked

		with ammonium nitrate mixed explosive and blasted with the help of electronic detonators.
6.	Details of Blasting Parameters in brief	• Diameter of Hole: 30-32mm • Spacing Between Holes: 1.2m • Depth of each Hole: 1 to 1.5m • Burden of hole: 1.0m • Inclination of hole: 80° from Horizontal • Use of delay detonators: 25 mili second • Detonating fuse: Detonating Cord • Charge per Hole : Three cartridge of 600 gm per hole. • Powder factor: About 7.5 tons per Kg. • Production: 78,762 tons • No of days working: 300 days Per Year • Production per day comes to: 263 tons • **Explosive Requirement per day: 263/7.5 = 35 Kg/Day** • Per Hole Explosive Quantity: 600gm • No of Holes: 35/0.6= 58
7.	Frequency of blasting	No of Blast per day: 6-7 Holes Per Blast: 10 holes No of Holes per delay: 3 holes **Explosive Per Blast: 5.83 i.e. 6 kg/blast**
8.	Impact of blasting	Minor ground vibrations and fly rock generation
9.	Outcome of Vibration study	Peak Particle Velocity calculated as per empirical equation as per DGMS Circular, 1997. PPV comes to 1.6mm/s at a distance of 200m from mine considering 6kg per blast. It will go on reducing with increase of distance it comes to 0.5mm/s at 500m distance while 0.2mm/s at 1000m i.e. 1km distance.
10.	Blasting Activity Management Plan	Will be prepared during EIA studies
11.	Use of any Chemical with quantity	Ammonium Nitrate mixed cartridge will be utilized as explosive.
12.	Precautions taken for Human Safety in brief	The controlled blasting is proposed by adopting all the safety measures as per "MMR 1961" and with the permission of DGMS. Before starting charging, clear audible warning signals by Sirens will be given so that people nearby can take shelter. Blasting operations will be carried out in day times only. Also, in this project, the mining operations are proposed to be carried out in day times. First aid bod will be available at mines office
13.	Crusher provided? If Yes, Measures taken for Air Pollution Control	No
14.	Compliance of DGMS Guidelines for Blasting	Shallow hole blasting of 1.5m depth will be carried out. No Deep hole Blasting will be undertaken. The charge per hole will be only 600gm

		which is within limit of 2kg per hole as per rule. Licensed Portable explosive magazines will be utilized for storage of explosives. The explosive will be handled by authorized blasting party himself and the blasting will be carried out by registered Blaster Certificate as per present practices. Explosives will be issued only to competent persons upon written requisition signed by the blaster or by a official authorised for the purpose, and only against their signature or thumb impression. Such requisition shall be preserved by the person in charge of the magazine or store or premises. Proper log book will be maintained. Blasting will be undertaken only by competent person having Blaster Certificate as per DGMS Guidelines.
15.	Compliance of Sustainable Sand Mine Guidelines published by MoEFCC in 2016	NA
16.	Whether Replenishment Rate Study is approved by District Geologist? If yes, conclude in brief	NA

D. Details of Green Belt Development:

2.	e. Green belt development budget	14.67 lacs
	f. Green belt area / location	1.37 Ha
	g. No. of trees to be planted	3425 trees
	h. Types of trees to be planted	-

E. Details of Environment Management Plan:

1.	**Details of EMP**	**Impact**	**Mitigation Measures**
	a. Land Environment	Mining activity	Measure will be taken to prevent the workings in safety zones, drilling the stone quarry, etc.
	b. Water Environment	Rain water, run off likely to effect surface water quality	No extraction will be done during rainy season
	c. Air Environment	Core zone will experience generation of dust	Dust suppression by water spraying and afforestation around the periphery of the quarry lease area
	d. Noise Environment	Increased level of noise and vibration during drilling,	Controlled technique will be used. Plantation

		blasting, loading and transportation	proposed will act as noise barrier.
	e. Biological Environment	--	Plantation around the periphery of the quarry lease area will be taken up during the 5 years of the lease period
	f. Human Environment	Additional employment will be generated due to increased production	Positive impact on living condition due to direct and indirect employment
	g. Others	-	-
2.	Occupational health & safety measures as per DGMS	The controlled blasting is proposed by adopting all the safety measures as per "MMR 1961" and with the permission of DGMS. Before starting charging, clear audible warning signals by Sirens will be given so that people nearby can take shelter. Blasting operations will be carried out in day times only. Also, in this project, the mining operations are proposed to be carried out in day times. First aid box will be available at mines office	
3.	Safety measures proposed		
	a. Is First Aid facility provided by PP?	Will be provided	
	b. Details of PPEs	Will be provided	
	c. Whether Registration of Workers under Building and other Construction Workers' (regulation of Employment & Conditions of Service) Act, 1996 and as Beneficiaries with the Gujarat Building and other Construction Workers Welfare Boards is obtained or not?	Will be done	
	d. Insurance of Workers	Will be taken	
	e. Health checkup plan of workers	Will be done	

F. Transportation:

1.	No. of vehicles per day carrying Minerals	17 nos
2.	Fugitive dust emission control measures	Tarpaulin will be used; Water sprinkling will be done to control dust emissions
3.	Route plan in brief	As per order

G. Financial details of the Project:

1.	Total cost of the project (Lakh)	-
	a. Upfront cost (Lakh)	26.24 Lacs
	b. Performance Security (Lakh)	-
	c. Total Royalty (Lakh)	-
	d. Weigh Bridge Cost (Lakh)	-
	e. Labor cost equipment (Lakh)	58.80 Lacs
	f. Equipment protection and implementation cost (Lakh)	-

	g. Green Belt Development & maintenance cost (Lakh)	14.67 Lacs
	h. Cost of EMP (Lakh)	19.82 Lacs
	i. Cost of Safety measures (Lakh)	2.79 Lacs
	j. Cost of Post-Closure Mine Plan (Lakh)	2.25 Lacs
2.	Budget allocated for CER (Lakh)	2.51 Lacs
3.	Is need based survey for CER carried out? (Yes / No) If yes, give details of activities along with Budgetary Outlay	No

H. Restoration / Reclamation Plan:

1.	Restoration / Reclamation Details	As per mining plan
2.	Post mining closure plan	As per mine closure plan
3.	Backfilling material and its quantity	As per mine closure plan
4.	Size of void for Rain Water Harvesting after backfilling	As per mine closure plan
5.	Post Closure Liability / Safety aspects and Measures to be taken to avoid wild life and human accidents/ causalities	As per mine closure plan
6.	Display of Caution Boards at strategic locations on the periphery of the pit area	As per mine closure plan
7.	Final Use of reservoir/ reclaimed land	As per mine closure plan

I. Details of Legal Action / Court Case:

1.	Details of Pending Court matter / Public Litigation Cases in any court of Law	No any
2.	Details of Action taken by GPCB, if any	No any
3.	Details of public complaint , if any	No any
4.	Compliance of EC by RO-GPCB or MoEFCC-Bhopal	No any

J. Contact Details:

1.	**Contact details of Applicant**	
2.	Name	Mr. Milankumar Parshotmbhai Dhapa
3.	Address	Sonpari Village, Palitana Taluka, Bhavnagar District, Gujarat
4.	Contact no.	+91 9662193021
5.	Email Id	Bhavnagar.cluster.20.4@gmail.com
6.	**Contact details of Consultant**	
7.	Name	Enviro Resources
8.	Address	1904, Roopnagar CHS, Kandivali West, Mumbai 400067, Maharashtra
9.	Contact no.	9867898844
10.	Email Id	timir@enviroresources.in

Deliberation:

- Shri Timir Shah from M/s. Enviro Resources (QCI/NABET approved consultant) remained present in the meeting on behalf of PP and he has submitted the Authorization letter for same.
- Committee deliberated on method of mining, rate of mining, no. of working hours and workers, the location of the lease w.r.t. Environmental Sensitivities and found as per the criteria prescribed by CPCB etc.
- Committee noted that the mining involves blasting.
- During the presentation, Environmental Management Plan, Restoration / reclamation plan, CER activities and its budget, green belt development etc. was discussed.

After screening and scoping for the aforementioned proposal, committee decided to consider the proposal under B1 category & Hon'ble National Green Tribunal Order dated 13 September 2018 in view. It was decided to recommend TOR approved by SEIAA on 07/03/2019 for **Non Sand Mining with Blasting** for conducting the EIA study to be done for cluster situation evaluating cumulative impact of the mining leases in cluster considering 10 Km radius from the periphery of the mine lease area including public hearing along with project specific TOR as per **Annexure III.**

10. BENTONITE MINING, DIST: KUTCH – TOR Amendment in Name of Project

Application No	Name of Project	S.No.	Village	Taluka	Dist	Lease Area	Validity of lease	ROM	Nearest Human Habitation	End Use	Investment in Rs	Date of Application Received by SEAC
SIA/GJ/MIN/205306/2021	M/s. Dev Mines & Minerals Pro. Chintan Arvindbhai Vora **(Old - M/s. Dev Minerals & Mines Pro. Chintan Arvindbhai Vora**	Survey no. 160/1 paiki & QL No. 12246	Miyani	Abdasa	Kutch	2.69.56 Ha	LoI issued on 08.10.2018 for 10 years	84,182 MTPA	Miyani – 1.03 km	Cement Industry	Rs.50 Lakh	07.05.2021

PP has applied vide application no. SIA/GJ/MIN/205306/2021, dated 07.05.2021 for amendment of Name of the Project of TOR issued to them vide letter no. SEIAA/GUJ/ToR/1(a)/236/2021, dated 18.03.2021. PP has applied to amend **Name of the Project as M/s. Dev Mines & Minerals Pro. Chintan Arvindbhai Vora** instead of **M/s. Dev Minerals & Mines Pro. Chintan Arvindbhai Vora**. PP has presented (i) LoI issued by District geologist, Kutch vide letter no. GKK/QL/12246/9588, dated 08.10.2018, (ii) Approved Mining Plan vide letter dated CGM/MC/KCH/1372/3534,

dated 11.06.2019 as a documentary evidences for amendment inName of Project. The committee cross checked the details, provided in original application, its relevant supportive documents presented, TOR issued earlier and after being satisfied, the Committee decided to recommend TOR Amendment for amendment in Name of Project as **M/s. Dev Mines & Minerals Pro. Chintan Arvindbhai Vora** instead of **M/s. Dev Minerals & Mines Pro. Chintan Arvindbhai Vora**.

11. BENTONITE MINING, DIST: KUTCH

Application No	Name of Project	S.No.	Village	Taluka	Dist	Lease Area	Validity of lease	ROM	Nearest Human Habitation	End Use	Investment in Rs	Date of Application Received by SEAC
SIA/GJ/MIN/61723/2021	Shri Surtansinh Malubha Jadeja & Rajgor Pankaj Khimaji	420 Paiki QL No.-17750	Punadi	Mandvi	Kutch	2.00.00 Ha	LoI issued on 07.02.2019 for 10 years	70,000 MTPA	Punadi Patia – 2.50 km	Cement Industry	Rs.5.41 Cr	18.05.2021

The project falls under B1 Category – 1(a), i.e. Mining of Minerals as per the provision of EIA Notification, 2006. Project Proponent has applied to obtain Terms of Reference (TOR) for mining of Bentonite.

A. Basic Information of the Project:

1.	Name of Project as per Form I	Shri Surtansinh Malubha Jadeja & Rajgor Pankaj Khimaji
2.	Address of the lease	Village: Punadi Taluka: Mandvi, District: Kutch State: Gujarat
3.	Name of lease holder	Shri Surtansinh Malubha Jadeja & Rajgor Pankaj Khimaji
4.	Lease area (Ha)	2.00.00 Ha.
5.	Cluster Details	
	a. Total no. of leases in the cluster	26
	b. No. of TOR granted in cluster	Not applicable
	c. No. of EC granted in cluster	Not applicable
	d. Total area of the cluster	52.35.74 Ha.
	e. Maximum individual lease area	4.75.00 Ha.
	f. Minimum individual lease area	1.00.00 Ha.
6.	Validity of lease with the date of expiry	10 Years from the date of LOI Issued.
7.	Rate of Mining (MT/Annum)	70,000

<table>
<tr><td>8.</td><td>Details of EC obtained (for expansion projects), if any</td><td>Nil</td></tr>
<tr><td>9.</td><td>Name of River Bed</td><td>Not applicable</td></tr>
<tr><td>10.</td><td>Is the river perennial / non-perennial?</td><td>Not applicable</td></tr>
<tr><td>11.</td><td>Lease area (submerged / in stream / on dry river bed)</td><td>Not applicable</td></tr>
<tr><td>12.</td><td>All coordinates of the lease area as per Approved Mining Plan</td><td>
<table>
<tr><th>Pillars</th><th colspan="2">GPS Co-ordinate’s</th></tr>
<tr><td>1</td><td>548966.0339 m E</td><td>2543768.5692m N</td></tr>
<tr><td>2</td><td>549131.6577 m E</td><td>2543880.6795m N</td></tr>
<tr><td>3</td><td>549187.7128 m E</td><td>2543797.8765m N</td></tr>
<tr><td>4</td><td>549022.0889 m E</td><td>2543685.7572m N</td></tr>
</table>
</td></tr>
<tr><td>13.</td><td>Manpower requirement</td><td>10</td></tr>
<tr><td>14.</td><td>Applicability of CRZ Notification</td><td>Not applicable</td></tr>
<tr><td>15.</td><td>Minimum Setback distance proposed to be maintained from River Bed (m)</td><td>Not applicable</td></tr>
<tr><td>16.</td><td>Minimum buffer distance from bridge piers / water intake wells / irrigation structures</td><td>Village Road Bridge- 2.78 Km</td></tr>
<tr><td>17.</td><td>Maximum depth of sand removal (3 m or water depth whichever is less)</td><td>Not Applicable</td></tr>
<tr><td>18.</td><td>Width of Riverbed (m)</td><td>Not Applicable</td></tr>
<tr><td>19.</td><td>Average depth of water at lease area (m)</td><td>30 M- 35 M</td></tr>
<tr><td>20.</td><td>Depth of mining (m)</td><td>12.5 m</td></tr>
<tr><td>21.</td><td>Ground Water Table in meter BGL</td><td>30 M- 35 M</td></tr>
<tr><td>22.</td><td>Does ground water interfere approach road exit? (Yes / No)
If yes, status report of CGWA</td><td>No</td></tr>
<tr><td>23.</td><td>Distance between lease and main road</td><td>1.01 Km</td></tr>
<tr><td>24.</td><td>Length of kaccha road (m)</td><td>400 M</td></tr>
<tr><td>25.</td><td>Length of pacca road (m)</td><td></td></tr>
<tr><td>26.</td><td>Plan for making pacca road</td><td>No</td></tr>
<tr><td>27.</td><td>Source of fresh water</td><td>Drinking water will be Purchase from nearby water suppliers. And for the dust suppression and plantation will be Purchase from nearby tanker suppliers</td></tr>
<tr><td rowspan="5">28.</td><td>Water requirement (KLPD)</td><td>Total – 3.351 KLD</td></tr>
<tr><td>a. Domestic</td><td>0.55 KLD</td></tr>
<tr><td>b. Dust suppression</td><td>1.2 KLD</td></tr>
<tr><td>c. Gardening / Green belt development</td><td>1.6 KLD</td></tr>
<tr><td>d. others</td><td>-</td></tr>
<tr><td>29.</td><td>Whether the Undertaking is submitted for identical information provided in Form I, Approved Mining Plan, Project Details validated by District Geologist, Pre-Feasibility Report, Lease Document, Environment Management Plan and other documents</td><td>No</td></tr>
</table>

B. Environmental Sensitivities:

Sr No.	Environmental Sensitivities	Actual Distance	Minimum Distance	Reference
1.	Residential	Punadi – 2.50 KM	100 m (Blasting is not involved)	As per CPCB Distance Criteria And order of of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020
	Public buildings	Primary school- 2.68 KM		
	Inhabited sites	Nil		
	Protected monuments,	Lakheswar Shiva Temple- 2.64 Km		
	Heritage sites	Vijay Vilas Palace– 27.11 Km		
	National / State Highway	SH 47- 1.59 Km NH 8A- 18.28 Km		
	District roads	1.60 KM		
	Public roads	1.60 KM		
	Railway line / area	20.32 Km		
	Ropeway or Ropeway trestle or station	Deshalpar Railway station- 22.51 Km		
	Bridges	Village Road Bridge- 2.78 Km		
	Dams	Vijay Sagar Dam- 3.20 Km		
	Reservoirs	3.24 Km		
	River	Kankavati River 2.79 KM		
	Canal	13.28 Km		
	Lakes	Nil		
	Tanks	Nil		
2.	Eco-Sensitive Zone (if notified)	Distance of Bustard wildlife Sanctuary Eco Sensitive zone is About 46.04 Km	>1 km / outside the notified Eco-Sensitive Zone	Vide directives of MOEF&CC dtd 16.07.2020
3.	Eco-Sensitive Zone (if not notified)	Not Applicable	>1 km and <10 km = Prior Clearance from NBWL is required	Vide directives of MOEF&CC dtd 16.07.2020

4.	Distance of Coastal line from the site	22.79 Km	>500 M from HTL	Amended CRZ Notification 2011

C. Details of Mining:

1.	Method of Mining (Manual / Semi-mechanized / Mechanized).	Semi-mechanized
2.	Equipment's to be used for Mining bulldozers, hydraulic excavators, JCB, scrapers, loaders, Diesel Pump, etc.)	Hydraulic excavators, loaders
3.	Whether it includes blasting?	Not Applicable
4.	Details of Authorized Blasting Agency with date of validity certificate	Not Applicable
5.	Procedure / SOP (in brief)	Not Applicable
6.	Details of Blasting Parameters in brief	Not Applicable
7.	Frequency of blasting	Not Applicable
8.	Impact of blasting	Not Applicable
9.	Outcome of Vibration study	Not Applicable
10.	Blasting Activity Management Plan	Not Applicable
11.	Use of any Chemical with quantity	Not Applicable
12.	Precautions taken for Human Safety in brief	Not Applicable
13.	Crusher provided? If Yes, Measures taken for Air Pollution Control	Not Applicable
14.	Compliance of DGMS Guidelines for Blasting	Not Applicable
15.	Compliance of Sustainable Sand Mine Guidelines published by MoEFCC in 2016	Not Applicable
16.	Whether Replenishment Rate Study is approved by District Geologist? If yes, conclude in brief	No

D. Details of Green Belt Development:

1.	a. Green belt development budget	
	b. Green belt area / location	Along the statuary barrier and at approach road
	c. No. of trees to be planted	200
	d. Types of trees to be planted	Indigenous, Charu, Khakhara

E. Details of Environment Management Plan:

1.	**Details of EMP**	**Impact**	**Mitigation Measures**
	a. Land Environment	By the extraction of mineral from the lease area impacts to change the land pattern	Restoration of land environment will be done by developing as a Grass land and remaining pit area will be developed as water reservoir by maintaining a slope of 45 degree and fencing around the water reservoir area. .
	b. Water Environment	Pollution of surface run off. Depletion of ground water table.	❖ Ground water table is about 30- 35meter. ❖ Mining will be done till depth of 12.5 meters from general ground level.

			❖ Mining shall not intersect ground table. Domestic wastewater shall be disposed of through septic tank- soak pit
	c. Air Environment	1.Gaseous emission from vehicles and machineries used 2. Dust Pollution	❖ Proponent will Spend Rs 93,600 per year for sprinkling to internal road, loading point all transfer points. ❖ Proponent will develop green belt around the lease area with Rs 50,000 and will spend Rs 9000 per year for the maintenance and replenishment of the plants. ❖ Attached road shall be sprinkle with water daily to prevent fugitive emission during vehicular. Speed of vehicle will only restrict to the 20 km/hour on Kutcha road. ❖ Vehicles used in mines and transportation shall be maintained well to mitigate the fugitive emission.
	d. Noise Environment	Noise due to working through heavy machinery.	❖ Ear muffs will be used during high noise activity. Regular maintenance of machineries shall be done
	e. Biological Environment	Nil	Nil
	f. Human Environment		❖ Suitable and properly maintained first-aid outfit should be kept at the mine for use in case of accident ❖ Safety equipment's like dust masks and ear muffs etc. ❖ Health camps shall be arranged for local villagers and workers.
	g. Others		
2.	Occupational health & safety measures as per DGMS	Nil	
3.	Safety measures proposed		
	a. Is First Aid facility provided by PP?	yes	
	b. Details of PPEs	Safety helmet, Hand gloves Shoes etc.	
	c. Whether Registration of Workers under Building and other Construction Workers' (regulation of	Will be done after the agreement of the lease.	

	Employment & Conditions of Service) Act, 1996 and as Beneficiaries with the Gujarat Building and other Construction Workers Welfare Boards is obtained or not?	
	d. Insurance of Workers	Nil
	e. Health checkup plan of workers	Every six-monthly plan for Health management.

F. Transportation:

1.	No. of vehicles per day carrying Minerals	3
2.	Fugitive dust emission control measures	Attached road with lease shall be sprinkle with water daily to prevent fugitive emission during vehicular. Speed of vehicle will only restrict to the 20 km/hour on Kutcha road
3.	Route plan in brief	Kachha road is 560 about connected with metallic road Miyani to local MDR road connected with state Highway- 47.

G. Financial details of the Project:

1.	Total cost of the project (Lakh)	5.41 Cr
	a. Upfront cost (Lakh)	Nil
	b. Performance Security (Lakh)	Nil
	c. Total Royalty (Lakh)	3.85 Cr
	d. Weigh Bridge Cost (Lakh)	8.0 Lakh
	e. Labor cost equipment (Lakh)	Labor cost- 45 lakh Equipment- 78 Lakh
	f. Environment protection and implementation cost (Lakh)	9.68 lakh
	g. Green Belt Development & maintenance cost (Lakh)	0.95 lakh
	h. Cost of EMP (Lakh)	----
	i. Cost of Safety measures (Lakh)	5.0 lakh
	j. Cost of Post-Closure Mine Plan (Lakh)	9.95 Lakh
2.	Budget allocated for CER (Lakh)	3.06 lakh
3.	Is need based survey for CER carried out? (Yes / No) If yes, give details of activities along with Budgetary Outlay	NO

H. Restoration / Reclamation Plan:

1.	Restoration / Reclamation Details	Restoration of land environment will be done in such a manner that flora fauna and plantation will flourish and also the area can be used for water harvesting and agriculture purposes.
2.	Post mining closure plan	• As per approved mining plan recovery of mineral is 100 % & OB will be generated throughout the mining which will be used for back filling in the bench space. • At the end Lessee will Develop Green belt in the statuary barrier area .and

			back filled area with the Desi Bavad, Imli, Ashoka, Gulmohar. • At the end of mine about 4 feet high boundary/Peripheral wall with barbed will be fenced around the water reservoir area. Water Reservoir will be used for water harvesting and agriculture purpose
	3.	Backfilling material and its quantity	Waste or sub-grade generated from mine.
	4.	Size of void for Rain Water Harvesting after backfilling	--
	5.	Post Closure Liability / Safety aspects and Measures to be taken to avoid wild life and human accidents/ causalities	I. Will be fenced around the water reservoir area. II. 7.5s-meter-thick green belt will be developed around the statuary barrier. Slop of 45 degree will be maintained in the pit.
	6.	Display of Caution Boards at strategic locations on the periphery of the pit area	yes
	7.	Final Use of reservoir/ reclaimed land	Water Harvesting

I. Details of Legal Action / Court Case:

1.	Details of Pending Court matter / Public Litigation Cases in any court of Law	No
2.	Details of Action taken by GPCB, if any	No
3.	Details of public complaint, if any	No
4.	Compliance of EC by RO-GPCB or MoEFCC-Bhopal	No

J. Contact Details:

1.	**Contact details of Applicant**	
2.	Name	Shri Surtansinh Malubha Jadeja & Rajgor Pankaj Khimaji
3.	Address	R/O- Punadi, Taluka- Mandvi, Dist.- Kutch (Guj.) - 370485
4.	Contact no.	7985095843
5.	Email Id	surtanmine1@gmail.com
6.	**Contact details of Consultant**	
7.	Name	Vinay Kumar singh
8.	Address	209 Pramukh Corporate Raysan Gandhinagar -38007.
9.	Contact no.	8141500945
10.	Email Id	Vinugeo007@gmail.com

Deliberation:

- Shri Vinaybhai from M/s. Cognizance Research India PrivateLtd, (Accredited no. NABET/EIA/1922/RA 0151, Valid up to Feb. 3, 2022) remained present in the meeting on behalf of PP and he has submitted the Authorization letter for same.
- Committee deliberated on method of mining, rate of mining, no. of working hours and workers, the location of the lease w.r.t. Environmental Sensitivities and found as per the criteria prescribed by CPCB etc.
- Committee noted that the mining does not involve blasting.

- During the presentation, Environmental Management Plan, Restoration / reclamation plan, CER activities and its budget, green belt development etc. was discussed.

After scoping for the aforementioned proposal, committee decided to consider the proposal under B1 category keeping cluster situation & Hon'ble National Green Tribunal Order dated 13 September 2018 in view, It was decided to recommend TOR approved by SEIAA on 07/03/2019 for **Non sand mining without blasting** for conducting the EIA study to be done for the proposals in cluster considering 10 Km radius from the periphery of the mine lease area including public hearing along with additional TOR to SEIAA as per **Annexure – II**.

12. BLACK TRAP MINING, DIST: KUTCH

Application No	Name of Project	S.No.	Village	Taluka	Dist	Lease Area	Validity of lease	ROM	Nearest Human Habitation	End Use	Investment in Rs	Date of Application Received by SEAC
SIA/GJ/MIN/56632/2020	Shri Sharvansinh Samatsinh Vagela	639 Paiki & QL No-10287	Kera	Bhuj	Kutch	4.00.00 Ha	Lease order date - 26/04/2005. According to GMMCR rule (1)(a) lease will be eligible for extension upto 2030.	33,333 MTPA	Baladia – 1.06 km	Construction	Rs.2.87 Crore	18.05.2021 Existing project

The project falls under B1 Category – 1(a), i.e. Mining of Minerals as per the provision of EIA Notification, 2006. Project Proponent has applied to obtain Terms of Reference (TOR) for mining of Black Trap.

A. Basic Information of the Project:

1.	Name of Project as per Form I	**Shri Sharvansinh Samatsinh Vagela**
2.	Address of the lease	Village: Kera Taluka: Bhuj District: Kutch State: Gujarat
3.	Name of lease holder	**Shri Sharvansinh Samatsinh Vagela**
4.	Lease area (Ha)	4.00.00 Hect.
5.	Cluster Details	Cluster ID-10
	a. Total no. of leases in the cluster	18

<table>
<tr><td></td><td>b. No. of TOR granted in cluster</td><td>Nil</td></tr>
<tr><td></td><td>c. No. of EC granted in cluster</td><td>Nil</td></tr>
<tr><td></td><td>d. Total area of the cluster</td><td>66.96.86</td></tr>
<tr><td></td><td>e. Maximum individual lease area</td><td>9.90.00</td></tr>
<tr><td></td><td>f. Minimum individual lease area</td><td>1.50.00</td></tr>
<tr><td>6.</td><td>Validity of lease with the date of expiry</td><td>10 year from the date of LOI issued.</td></tr>
<tr><td>7.</td><td>Rate of Mining (MT/Annum)</td><td>33,333MTPA</td></tr>
<tr><td>8.</td><td>Details of EC obtained (for expansion projects), if any</td><td>Nil</td></tr>
<tr><td>9.</td><td>Name of River Bed</td><td>Not Applicable</td></tr>
<tr><td>10.</td><td>Is the river perennial / non-perennial</td><td>Not Applicable</td></tr>
<tr><td>11.</td><td>Lease area (submerged / in stream / on dry river bed)</td><td>Not Applicable</td></tr>
<tr><td>12.</td><td>All coordinates of the lease area as per Approved Mining Plan</td><td><table><tr><td>Pillar</td><td colspan="2">GPS -COORDINATE</td></tr><tr><td></td><td>23°5’8.40"N</td><td>69°38’0.60"E</td></tr><tr><td></td><td>23°5’12.30"N</td><td>69°37’59.70"E</td></tr><tr><td></td><td>23°5’14.80"N</td><td>69°38’10.90"E</td></tr><tr><td></td><td>23°5’11.10"N</td><td>69°38’12.00"E</td></tr></table></td></tr>
<tr><td>13.</td><td>Manpower requirement</td><td>12</td></tr>
<tr><td>14.</td><td>Applicability of CRZ Notification</td><td>Not applicable</td></tr>
<tr><td>15.</td><td>Minimum Setback distance proposed to be maintained from River Bed (m)</td><td>Not applicable</td></tr>
<tr><td>16.</td><td>Minimum buffer distance from bridge piers / water intake wells / irrigation structures</td><td>SH 48 - Small Bridge- 7.47 Km</td></tr>
<tr><td>17.</td><td>Maximum depth of sand removal (3 m or water depth whichever is less)</td><td>Not Applicable</td></tr>
<tr><td>18.</td><td>Width of Riverbed (m)</td><td>Not Applicable</td></tr>
<tr><td>19.</td><td>Average depth of water at lease area (m)</td><td>Not Applicable</td></tr>
<tr><td>20.</td><td>Depth of mining (m)</td><td>27 m</td></tr>
<tr><td>21.</td><td>Ground Water Table in meter BGL</td><td>30-35 Bgl</td></tr>
<tr><td>22.</td><td>Does ground water interfere approach road exit? (Yes / No)
If yes, status report of CGWA</td><td>No</td></tr>
<tr><td>23.</td><td>Distance between lease and main road</td><td>524 m</td></tr>
<tr><td>24.</td><td>Length of kaccha road (m)</td><td>524 m</td></tr>
<tr><td>25.</td><td>Length of pacca road (m)</td><td>Nil</td></tr>
<tr><td>26.</td><td>Plan for making pacca road</td><td>No</td></tr>
<tr><td>27.</td><td>Source of fresh water</td><td>Drinking water will be Purchase from nearby water suppliers. And for the dust
suppression and plantation will be Purchase from nearby tanker suppliers</td></tr>
<tr><td>28.</td><td>Water requirement (KLPD)</td><td>Total – 5.59 KLD</td></tr>
<tr><td></td><td>a. Domestic</td><td>0.6 KLD</td></tr>
<tr><td></td><td>b. Dust suppression</td><td>1.56 KLD</td></tr>
<tr><td></td><td>c. Gardening / Green belt development</td><td>3.2 KLD</td></tr>
<tr><td></td><td>d. others</td><td>-</td></tr>
<tr><td>29.</td><td>Whether the Undertaking is submitted for identical information provided in Form I, Approved Mining</td><td>No</td></tr>
</table>

	Plan, Project Details validated by District Geologist, Pre-Feasibility Report, Lease Document, Environment Management Plan and other documents	

B. Environmental Sensitivities:

Sr No.	Environmental Sensitivities	Actual Distance	Minimum Distance	Reference
1.	Residential	Kera = 3.09 Km, Baladia-1.06 KM (Baladia population- 5470 As per 2011 Census)	200 m (When Blasting is involved)	As per CPCB Distance Criteria And order of of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020
	Public buildings	Primary Hospital at Baladia = 2.30 km		
	Inhabited sites	Nil		
	Protected monuments,	Lakheshwar Shiva Temple- 4.05 Km		
	Heritage sites	Sharad Baug Palace – 18.55 Km		
	National / State Highway	SH-48 = 2.95 km SH-47 = 8.13 km		
	District roads	2.68 KM		
	Public roads	125 M		
	Railway line / area	Railway Track – 13.97 Km		
	Ropeway or Ropeway trestle or station	Bhuj Railway station-20.41 Km		
	Bridges	SH 48 - Small Bridge-7.47 Km		
	Dams	Dam = 11.34 Km		
	Reservoirs	Khengar Reservoir = 10.73 km		
	River	River Stream = 4.05 Km		
	Canal	Nil		
	Lakes	Babiya lake – 7.89 km		
	Tanks	Nil		
2	Eco-Sensitive Zone (if notified)	Distance of Eco sensitive zone of Kutch Desert wildlife Sanctuary is About 39.68 Km	>1 km / outside the notified Eco-Sensitive Zone	Vide directives of MOEF&CC dtd 16.07.2020
3	Eco-Sensitive Zone (if not notified)	Not Applicable	>1 km and <10 km = Prior Clearance from NBWL is required	Vide directives of MOEF&CC dtd 16.07.2020

4	Distance of Coastal line from the site	36.98 Km	>500 M from HTL	Amended CRZ Notification 2011

C. Details of Mining:

1.	Method of Mining (Manual / Semi-mechanized / Mechanized).	Semi-mechanized
2.	Equipment's to be used for Mining bulldozers, hydraulic excavators, JCB, scrapers, loaders, Diesel Pump, etc.)	Hydraulic excavators, JCB, loaders
3.	Whether it includes blasting?	Yes
4.	Details of Authorized Blasting Agency with date of validity certificate	Not Applicable
5.	Procedure / SOP (in brief)	Drilling- 3-6 meter Planting of Blasting Material- Geleting and Connecting in a circuit with detonator Blasting
6.	Details of Blasting Parameters in brief	❖The diameter of holes used in all the blasts will be 100 mm. ❖The depth of blast holes generally will be 6 m. ❖The total number of holes in a blasting round will be varying from 5 to 50. ❖Burden and spacing values in all the blasts will be depend on depth and diameter of holes. ❖The ground Vibration recorded in all the blasts near the residential/domestic and industrial structures were within safe limit as per DGMS circular 7 of 1997. ❖No fly rock will be observed in any controlled blasting. The throws of the blasted materials will be also control and restrict within the blasting areas only. ❖Before blasting the upper surface of the bench shall be cleaned off any stones lying above. ❖The control of fly rock will achieve through proper blast design patterns along with their proper implementation and supervision of the total blasting operations. Blasting shall be done by using short delay detonator to reduce ground vibration and control blasting shall be practiced only in Day time
7.	Frequency of blasting	Once in a weak
8.	Impact of blasting	• Fire and Explosion and dust generation • Noise generation
9.	Outcome of Vibration study	We will be submitted with EIA report
10.	Blasting Activity Management Plan	❖ Blasting to be performed strictly as per the guidelines specified under MMR,1961; ❖ Proper design of blast with correct spacing, burden and optimum charge/delay; ❖ Supervision of drilling and blasting operations to ensure blast design geometry as per planning; ❖ Sub-drilling will be kept adequate to eliminate toe

<table>
<tr><td></td><td></td><td>formation;
❖ Blasting operations will be carried out only during day time as per DGMS guidelines;
❖ Proper warning signals will be used;
❖ Adequate safe distance from habitation as per standards from center of blasting be maintained;
❖ Drilling parameters like burden, depth, diameter and spacing will be properly designed to ensure proper blast;
Effective stemming of the explosives be done in the drill holes</td></tr>
<tr><td>11.</td><td>Use of any Chemical with quantity</td><td>1.A.N.F.O (A.N. 95%, F.O6%)
2.Special Gelatine</td></tr>
<tr><td>12.</td><td>Precautions taken for Human Safety in brief</td><td>❖ Suitable and properly maintained first-aid outfit should be kept at the mine for use in case of accident
❖ Safety equipment’s like dust masks and ear muffs etc.
❖ Safety helmet where falling objects may create a hazard shall be provided.
❖ Health camps shall be arranged for local villagers and workers.</td></tr>
<tr><td>13.</td><td>Crusher provided? If Yes, Measures taken for Air Pollution Control</td><td>Nil</td></tr>
<tr><td>14.</td><td>Compliance of DGMS Guidelines for Blasting</td><td>
<table>
<tr><th>S. No.</th><th>DGMS Guideline for Blasting (As per MMR 1961)</th><th>Compliance</th></tr>
<tr><td>1</td><td>Blasting should be done only by the authorized blaster</td><td>Blasting will be done by the authorized blaster.</td></tr>
<tr><td>2</td><td>Blasting will be done in noon time</td><td>Blasting always done in noon time, when there will be no local farmer working in their fields.</td></tr>
<tr><td>3</td><td>Horn or whistle should be kept at side to blow before blasting</td><td>Horn will be equipped at the mining site, will blow ½ hour before blasting</td></tr>
<tr><td>4</td><td>Blasting material like Nitrate mixture and gelatin should be kept separate and safely for security.</td><td>Mine holder will not store any type of blasting material or equipment ,blaster will take care of that.</td></tr>
</table>
</td></tr>
</table>

		5	Noise level should not exceed 145 DB at time of blasting at 4 meter distance from the point of bursting.	Only control blasting and wet drilling will be done .Which will comply this condition.
		6.	A distance of 15 meters surrounding the magazine or store house shall be kept clear of dried grass or bash or flammable materials	Blaster will comply this.
		7.	Where in any mine or part it is proposed to work by a system of deep-hole blasting and/or with the help of heavy machinery for its digging, excavation and removal in such manner as would not permit of compliance with the requirement of sub-regulation (1) the owner, agent or manager shall, not less than 60 days before starting such work, give notice in writing of the method of working to the Chief Inspector and the Regional Inspector; and no such work shall be commenced to carried out except in accordance with accordance with such conditions as the Chief Inspector may specify by an order in writing. Every such notice shall be in duplicate, and shall give the details of the method of working including the precautions that are proposed to be taken against the anger from falls of sides and material. (Rule no. 106(2)(B)	Will be comply
		8	Every magazine, or store or premises, where explosives are stored shall be inchargeofacompetentpersonwho shall be responsible for the proper receipt, storage an issue of explosives. **Rule no. 156 (1)**	Not any explosives and magazines will store at mining site.
		9	Explosives shall be issued only to competent persons upon written requisition signed by the blaster or by a official authorized for thepurpose, and only against their signature or thumb impression. Such requisitionshall be preserved by the person in charge of the	Authorized Blaster will take care .

			magazine or store or premises. **(Rule no. 156 (3)**	
		10	The person in charge of the magazine or store or premises shall maintain, in a bound paged book kept for the purpose, a clear and accurate record of explosives issued to each competent person and a similar record of explosives returned to the magazine or store or premises. **Rule no. 156 (4)**	No Blasting material will store at the mining site.
		11	The preparation of charges an the charging and stemming of holes shall be carried out by or under the personal supervision of a competent person, in these regulations referred to as a 'blaster'. The blaster shall fire the shots himself. **Rule no. 160 (1)**	Will be comply
		12	No person shall be appointed to be a blaster unless he is the holder of Manager's, Foreman's Mate's or Blaster's certificate. **Rule no. 160 (2)**	Lease owner will appoint a mining mate
		13	Provided further that if the shortest distance from the place of firing to any part of such building or structure is less than 50 meters irrespective of the amount of the charge, no blasting shall be done except with the permission in writing of the Chief Inspector or the Regional Inspector and subject to such conditions as he may specify therein. **Rule no. (164 (1-B)(a)**	Not any permanent residential or commercial infrastructure building is falling under 200 meter radius of the lease area.
15.	Compliance of Sustainable Sand Mine Guidelines published by Mo EFCC in 2016	Not Applicable		
16.	Whether Replenishment Rate Study is approved by District Geologist? If yes, conclude in brief	Not applicable		

D. Details of Green Belt Development:

1.	a. Green belt development budget	60,000 Rs
	b. Green belt area / location	At statuary barrier and approach road
	c. No. of trees to be planted	400
	d. Types of trees to be planted	Indigenous

E. Details of Environment Management Plan:

1.	**Details of EMP**	**Impact**	**Mitigation Measures**

		a. Land Environment	By the extraction of mineral from the lease area impacts to change the land pattern	Restoration of land environment will be done in such a manner that flora fauna and plantation will flourish and also the area can be used for water harvesting and agriculture purposes	
		b. Water Environment	During rains water will precipitate within the Lease mine and in the vicinity. Water flows in its normal course. There will be no hindrance or sudden rush of water due to mining activities, which may lead to erosion of water At the 'conceptual stage' as area of a part of the Lease area will be converted into water reservoir which will serve as recharge pits. Besides, there will be no toxic element in the mined out material, which may contaminate ground/ surface water. It is, therefore apparent that there will be negligible impact of mining on the surface water regime. **Impact on Ground Water** The water table in this region is at a depth of 30-35 m below general ground level. Mining will be carried out above the ground water table. No chemical having toxic elements will	**Surface Water Management** (i). Proper imitative measures will be taken up to control the pollutants within prescribed standards and limiting the emissions to site only. (ii). Garland drains will be provided to prevent the entry of rainwater into the mining pit. **Ground Water Management** (i). Mining shall not intersect the ground water table of the area. (ii). Natural pits will be used for rainwater conservation and harvesting. (iii). Rain water harvesting practices shall be done which will lead to ground water recharge. (iv). At the end of the life of mine artificial water reservoir shall be prepared. **Water Conservation** The project does not consume any process water except for drinking, dust suppression and plantation. Plantation is proposed, which will increase the water holding capacity and help in recharging of ground water. Artificial rainwater harvesting is proposed for the present project	

			be used for carrying out mining activity. Also, neither Building Stone nor overburden contains any kind of toxic element which can contaminate the water. Rainwater expected to be accumulated in the pit will be pumped out and will be discharged into storm water drains provided for the purpose which will join the natural surface water drains existing in the area. The mining pits will create water harvesting that will increase the water table.		
		c. Air Environment	1.Gaseous emission from vehicles and machineries used 2. Dust Pollution	❖ Proponent will Spend Rs 1,40,400 per year for sprinkling to internal road, loading point all transfer points. ❖ Proponent will develop green belt around the lease area with Rs 1,00,000 and will spend Rs 8,000 per year for the maintenance and replenishment of the plants. ❖ Attached road shall be sprinkle with water daily to prevent fugitive emission during vehicular. Speed of vehicle will only restrict to the 20 km/hour on Kutcha road. ❖ Vehicles used in mines and transportation shall be maintained well to mitigate the fugitive emission.	
		d. Noise Environment	Noise due to working through heavy machinery.	❖ Ear muffs will be used during high noise activity. Regular maintenance of machineries shall be done	
		e. Biological Environment	Nil	Nil	
		f. Human Environment		❖ Suitable and properly maintained first-aid outfit should be kept at the mine for use in case of accident ❖ Safety equipment's like dust masks and ear muffs etc. ❖ Health camps shall be arranged for local villagers and workers.	

	g. Others		
2.	Occupational health & safety measures as per DGMS	Nil	
3.	Safety measures proposed		
	a. Is First Aid facility provided by PP?	yes	
	b. Details of PPEs	Safety helmet, Hand gloves Shoes etc.	
	c. Whether Registration of Workers under Building and other Construction Workers' (regulation of Employment & Conditions of Service) Act, 1996 and as Beneficiaries with the Gujarat Building and other Construction Workers Welfare Boards is obtained or not?	Will be done after the agreement of the lease.	
	d. Insurance of Workers	Nil	
	e. Health checkup plan of workers	Every six-monthly plan for Health management.	

F. Transportation:

1.	No. of vehicles per day carrying Minerals	3-4 No of Truck
2.	Fugitive dust emission control measures	Attached road with lease shall be sprinkle with water daily to prevent fugitive emission during vehicular. Speed of vehicle will only restrict to the 20 km/hour on Kutcha road
3.	Route plan in brief	Kachha road is about 156 m connected with local MDR Road, local MDR Road connected with SH-48

G. Financial details of the Project:

1.	Total cost of the project (Lakh)	2.87 Cr.
	a. Upfront cost (Lakh)	
	b. Performance Security (Lakh)	
	c. Total Royalty (Lakh)	63.09 lac
	d. Weigh Bridge Cost (Lakh)	Nil
	e. Labor cost equipment (Lakh)	Labor cost – 54.0 lac Equipment (Hitachi & Dumper)- 80 lac Drilling & blasting = 56.08 lac
	f. Environment protection and implementation cost (Lakh)	11.08 lakh
	g. Green Belt Development & maintenance cost (Lakh)	1.60 lakh
	h. Cost of EMP (Lakh)	Nil
	i. Cost of Safety measures (Lakh)	Safety Cost = 6,00,000 Rs Fencing cost + LPS =Rs.1,50,000
	j. Cost of Post-Closure Mine Plan (Lakh)	13.65 lac
2.	Budget allocated for CER (Lakh)	4.47 lac

3.	Is need based survey for CER carried out? (Yes / No) If yes, give details of activities along with Budgetary Outlay	No

H. Restoration / Reclamation Plan:

1.	Restoration / Reclamation Details	❖ Restoration of land environment will be done in such a manner that flora fauna and plantation will flourish and also the area can be used for water harvesting and agriculture purposes.
2.	Post mining closure plan	• As per approved mining plan recovery of mineral is 90 % and 10 % waste will generate so about 14,022 MT will be generated throughout the mining which will be used for back filling in the lease area • At the end Lessee will Develop Green belt in the statuary barrier area .and back filled area with the Desi Bavad, Imli, Ashoka, Gulmohar. • At the end of mine about 4 feet high boundary/Peripheral wall with barbed will be fenced around the water reservoir area. Water Reservoir will be used for water harvesting and agriculture purpose
3.	Backfilling material and its quantity	Waste or sub-grade generated from mine.
4.	Size of void for Rain Water Harvesting after backfilling	2.55.45 Hect
5.	Post Closure Liability / Safety aspects and Measures to be taken to avoid wild life and human accidents/ causalities	III. Will be fenced around the water reservoir area. IV. 7.5-meter-thick green belt will be developed around the statuary barrier. V. Slop of 45 degree will be maintained in the pit.
6.	Display of Caution Boards at strategic locations on the periphery of the pit area	yes
7.	Final Use of reservoir/ reclaimed land	Water Harvesting

I. Details of Legal Action / Court Case:

1.	Details of Pending Court matter / Public Litigation Cases in any court of Law	No
2.	Details of Action taken by GPCB, if any	No
3.	Details of public complaint, if any	No
4.	Compliance of EC by RO-GPCB or MoEFCC-Bhopal	No

J. Contact Details:

1.	**Contact details of Applicant**	
2.	Name	**Shri Sharvansinh Samatsinh Vagela**
3.	Address	R/o- 1-168, Rabari Vaas Kotada, Taluka-Anjar, District- Kutch (Guj.)

	4.	Contact no.	9140939476
	5.	Email Id	rahulmine1@gmail.com
	6.	**Contact details of Consultant**	
	7.	Name	**Vinay Kumar Singh**
	8.	Address	209 Pramukh Corporate Raysan Gandhinagar -38007.
	9.	Contact no.	8141500945
	10.	Email Id	Vinugeo007@gmail.com

Deliberation:

- Shri Vinaybhai from M/s. Cognizance Research India Private Ltd, (Accredited no. NABET/EIA/1922/RA 0151, Valid up to Feb. 3, 2022) remained present in the meeting on behalf of PP and he has submitted the Authorization letter for same.
- Committee deliberated on method of mining, rate of mining, no. of working hours and workers, the location of the lease w.r.t. Environmental Sensitivities and found as per the criteria prescribed by CPCB etc.
- Committee noted that the mining involves blasting.
- During the presentation, Environmental Management Plan, Restoration / reclamation plan, CER activities and its budget, green belt development etc. was discussed.
- Committee noted that it is an existing lease and the consultant presented production details validated by District Geologist, Kutch vide letter no. Gkk/QL/10287/1140, dated 09.03.2021 as below:

S. N.	Year	Production in MTPA
1.	2015-16	142764
2.	2016-17	63567
3.	2017-18	6359
4.	2018-19	21711
5.	2019-20	32168

- Committee noted that the production was continued after 31.03.2016. PP presented the acknowledgement slip of earlier TOR / EC application dated 28.12.2015, i.e. before 13.04.2018.

Referring to the order of Honorable National Green Tribunal dtd.13.01.2015 in the O.A.No.123/2014 and M.A.419 of 2014, Himmat Singh Shekhawat v/s State of Rajasthan and order of Honorable National Green Tribunal dtd.04.05.2016 in the O.A.No.34/2016, NareshZargar v/s of Madhya Pradesh and order of Honorable National Green Tribunal dtd.30.06.2020 in the O.A. No 136/2017, Tamil Nadu Small Mine Owners Federation v/s Ministry of Environment Forest and Climate Change Government of India, Committee noted that proposal falls under violation to EIA Notification 2006. It is also noted that PP has applied for TOR on 28.12.2015. Hence, unanimously decided to recommend for **TOR under violation to EIA Notification 2006 as per Annexure - I and TOR for Non-Sand Mining with blasting as per Annexure – III.**

13. BENTONITE MINING, DIST: KUTCH

Application No	Name of Project	S.No.	Village	Taluka	Dist	Lease Area	Validity of lease	ROM	Nearest Human Habitation	End Use	Investment in Rs	Date of Application Received by SEAC
SIA/GJ/MIN/62283/2021	Shree Motta Mines & Minerals	191 Paiki QL No.-17763	Faradi	Mandvi	Kutch	2.48.03 Ha	LoI issued on 06.04.2017 for 10 years	51,960 MTPA	Nani Tumbadi – 2.89 km	Cement Industry	Rs.4.16 Crore	19.05.2021

The project falls under B1 Category – 1(a), i.e. Mining of Minerals as per the provision of EIA Notification, 2006. Project Proponent has applied to obtain Terms of Reference (TOR) for mining of Bentonite.

A. Basic Information of the Project:

1.	Name of Project as per Form I	M/s Shree Motta Mines & Minerals
2.	Address of the lease	Village: Faradi Taluka: Mandvi, District: Kutch State: Gujarat
3.	Name of lease holder	M/s Shree Motta Mines & Minerals
4.	Lease area (Ha)	2.48.03 Ha.
5.	Cluster Details	
	a. Total no. of leases in the cluster	26
	b. No. of TOR granted in cluster	Not applicable
	c. No. of EC granted in cluster	Not applicable
	d. Total area of the cluster	52.35.74 Ha.
	e. Maximum individual lease area	4.75.00 Ha.
	f. Minimum individual lease area	1.00.00 Ha.
6.	Validity of lease with the date of expiry	10 Years from the date of LOI Issued.
7.	Rate of Mining (MT/Annum)	51,960
8.	Details of EC obtained (for expansion projects), if any	Nil
9.	Name of River Bed	Not applicable
10.	Is the river perennial / non-perennial?	Not applicable
11.	Lease area (submerged / in stream / on dry river bed)	Not applicable
12.	All coordinates of the lease area as per Approved Mining Plan	

Pillars	Latitude	Longitude
1	22° 59’41.40"N	69°30’27.90"E
2	22° 59’42.10"N	69°30’30.40"E
3	22° 59’41.30"N	69°30’33.92"E
4	22° 59’41.10"N	69°30’34.70"E
5	22° 59’38.30"N	69°30’35.20"E
6	22° 59’37.00"N	69°30’30.70"E

		7	22° 59’36.90"N	69°30’30.20"E
		8	22° 59’37.00"N	69°30’28.60"E
13.	Manpower requirement	10		
14.	Applicability of CRZ Notification	Not applicable		
15.	Minimum Setback distance proposed to be maintained from River Bed (m)	Not applicable		
16.	Minimum buffer distance from bridge piers / water intake wells / irrigation structures	Village Road Bridge- 1.97 Km		
17.	Maximum depth of sand removal (3 m or water depth whichever is less)	Not Applicable		
18.	Width of Riverbed (m)	Not Applicable		
19.	Average depth of water at lease area (m)	120 m		
20.	Depth of mining (m)	18 m		
21.	Ground Water Table in meter BGL	30 M- 35 M		
22.	Does ground water interfere approach road exit? (Yes / No) If yes, status report of CGWA	No		
23.	Distance between lease and main road	1.01 Km		
24.	Length of kaccha road (m)	698 M		
25.	Length of pacca road (m)			
26.	Plan for making pacca road	No		
27.	Source of fresh water	Drinking water will be Purchase from nearby water suppliers. And for the dust suppression and plantation will be Purchase from nearby tanker suppliers		
28.	Water requirement (KLPD)	Total – 4.61 KLD		
	a. Domestic	0.65 KLD		
	b. Dust suppression	1.98 KLD		
	c. Gardening / Green belt development	1.98 KLD		
	d. others	-		
29.	Whether the Undertaking is submitted for identical information provided in Form I, Approved Mining Plan, Project Details validated by District Geologist, Pre-Feasibility Report, Lease Document, Environment Management Plan and other documents	No		

B. Environmental Sensitivities:

Sr No.	Environmental Sensitivities	Actual Distance	Minimum Distance	Reference
1.	Residential	Faradi – 5.27 KM, Nani Tumbadi- 2.89 Km	100 m (Blasting is not involved)	As per CPCB Distance Criteria And order of of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020
	Public buildings	Primary school- 3.09 KM		
	Inhabited sites	Nil		
	Protected monuments,	Lakheswar Shiva Temple- 13.46 Km		
	Heritage sites	Vijay Vilas Palace– 28.93 Km		

	National / State Highway	SH 47- 4.68 Km NH 8A/41- 16.83 Km		
	District roads	1.98 KM		
	Public roads	1.98 KM		
	Railway line / area	21.17 Km		
	Ropeway or Ropeway trestle or station	Deshalpar Railway station- 24.21 Km		
	Bridges	Village Road Bridge- 1.97 Km		
	Dams	Gajod Dam- 5.84 Km		
	Reservoirs	5.78 Km		
	River	Kankavati River- 5. 99 KM		
	Canal	12.82 Km		
	Lakes	Babiya Lake- 9.95 Km		
	Tanks	Nil		
2.	Eco-Sensitive Zone (if notified)	Distance of Bustard wildlife Sanctuary Eco Sensitive zone is About 49.96 Km	>1 km / outside the notified Eco-Sensitive Zone	Vide directives of MOEF&CC dtd 16.07.2020
3.	Eco-Sensitive Zone (if not notified)	Not Applicable	>1 km and <10 km = Prior Clearance from NBWL is required	Vide directives of MOEF&CC dtd 16.07.2020
4.	Distance of Coastal line from the site	23.43 Km	>500 M from HTL	Amended CRZ Notification 2011

C. Details of Mining:

1.	Method of Mining (Manual / Semi-mechanized / Mechanized).	Semi-mechanized
2.	Equipment's to be used for Mining bulldozers, hydraulic excavators, JCB, scrapers, loaders, Diesel Pump, etc.)	Hydraulic excavators, loaders
3.	Whether it includes blasting?	Not Applicable
4.	Details of Authorized Blasting Agency with date of validity certificate	Not Applicable
5.	Procedure / SOP (in brief)	Not Applicable

6.	Details of Blasting Parameters in brief	Not Applicable
7.	Frequency of blasting	Not Applicable
8.	Impact of blasting	Not Applicable
9.	Outcome of Vibration study	Not Applicable
10.	Blasting Activity Management Plan	Not Applicable
11.	Use of any Chemical with quantity	Not Applicable
12.	Precautions taken for Human Safety in brief	Not Applicable
13.	Crusher provided? If Yes, Measures taken for Air Pollution Control	Not Applicable
14.	Compliance of DGMS Guidelines for Blasting	Not Applicable
15.	Compliance of Sustainable Sand Mine Guidelines published by MoEFCC in 2016	Not Applicable
16.	Whether Replenishment Rate Study is approved by District Geologist? If yes, conclude in brief	No

D. Details of Green Belt Development:

1.	a. Green belt development budget	
	b. Green belt area / location	Along the statuary barrier and at approach road
	c. No. of trees to be planted	248
	d. Types of trees to be planted	Indigenous, Charu, Khakhara

E. Details of Environment Management Plan:

1.	**Details of EMP**	**Impact**	**Mitigation Measures**
	a. Land Environment	By the extraction of mineral from the lease area impacts to change the land pattern	Restoration of land environment will be done by developing as a Grass land and remaining pit area will be developed as water reservoir by maintaining a slope of 45 degree and fencing around the water reservoir area. .
	b. Water Environment	Pollution of surface run off. Depletion of ground water table.	❖ Ground water table is about 30- 35meter. ❖ Mining will be done till depth of 18 meters from general ground level. ❖ Mining shall not intersect ground table. Domestic wastewater shall be disposed of through septic tank- soak pit
	c. Air Environment	1.Gaseous emission from vehicles and machineries used 2. Dust Pollution	❖ Proponent will Spend Rs 1,54,440 per year for sprinkling to internal road, loading point all transfer points. ❖ Proponent will develop green belt around the lease area with Rs 62,000 and will spend Rs 9000 per year for the maintenance and replenishment of the plants.

			❖ Attached road shall be sprinkle with water daily to prevent fugitive emission during vehicular. Speed of vehicle will only restrict to the 20 km/hour on Kutcha road. ❖ Vehicles used in mines and transportation shall be maintained well to mitigate the fugitive emission.
	d. Noise Environment	Noise due to working through heavy machinery.	❖ Ear muffs will be used during high noise activity. Regular maintenance of machineries shall be done
	e. Biological Environment	Nil	Nil
	f. Human Environment		❖ Suitable and properly maintained first-aid outfit should be kept at the mine for use in case of accident ❖ Safety equipment's like dust masks and ear muffs etc. ❖ Health camps shall be arranged for local villagers and workers.
	g. Others		
2.	Occupational health & safety measures as per DGMS	Nil	
3.	Safety measures proposed		
	a. Is First Aid facility provided by PP?	yes	
	b. Details of PPEs	Safety helmet, Hand gloves Shoes etc.	
	c. Whether Registration of Workers under Building and other Construction Workers' (regulation of Employment & Conditions of Service) Act, 1996 and as Beneficiaries with the Gujarat Building and other Construction Workers Welfare Boards is obtained or not?	Will be done after the agreement of the lease.	
	d. Insurance of Workers	Nil	
	e. Health checkup plan of workers	Every six-monthly plan for Health management.	

F. Transportation:

1.	No. of vehicles per day carrying Minerals	3
2.	Fugitive dust emission control measures	Attached road with lease shall be sprinkle

		with water daily to prevent fugitive emission during vehicular. Speed of vehicle will only restrict to the 20 km/hour on Kutcha road
3.	Route plan in brief	Kachha road is 1.08 Km about connected with metallic road Miyani to local MDR road connected with state Highway- 47.

G. Financial details of the Project:

1.	Total cost of the project (Lakh)	4.16 Cr
	a. Upfront cost (Lakh)	Nil
	b. Performance Security (Lakh)	Nil
	c. Total Royalty (Lakh)	2.57 Cr
	d. Weigh Bridge Cost (Lakh)	8.0 Lakh
	e. Labor cost equipment (Lakh)	Labor cost- 45 lakh Equipment- 78 Lakh
	f. Environment protection and implementation cost (Lakh)	12.72 lakh
	g. Green Belt Development & maintenance cost (Lakh)	0.92 lakh
	h. Cost of EMP (Lakh)	----
	i. Cost of Safety measures (Lakh)	5.0 lakh
	j. Cost of Post-Closure Mine Plan (Lakh)	10.20 Lakh
2.	Budget allocated for CER (Lakh)	3.06 lakh
3.	Is need based survey for CER carried out? (Yes / No) If yes, give details of activities along with Budgetary Outlay	NO

H. Restoration / Reclamation Plan:

1.	Restoration / Reclamation Details	Restoration of land environment will be done in such a manner that flora fauna and plantation will flourish and also the area can be used for water harvesting and agriculture purposes.
2.	Post mining closure plan	• As per approved mining plan recovery of mineral is 80 % and 15 % rejected will generate so about 29956 MT will be generated throughout the mining which will be used for back filling in the bench space. • At the end Lessee will Develop Green belt in the statuary barrier area .and back filled area with the Desi Bavad, Imli, Ashoka, Gulmohar. • At the end of mine about 4 feet high boundary/Peripheral wall with barbed will be fenced around the water reservoir area. Water Reservoir will be used for water harvesting and agriculture purpose
3.	Backfilling material and its quantity	Waste or sub-grade generated from mine. 9987 MT
4.	Size of void for Rain Water Harvesting after backfilling	--
5.	Post Closure Liability / Safety aspects and	VI. Will be fenced around the water

		Measures to be taken to avoid wild life and human accidents/ causalities	reservoir area. VII. 7.5s-meter-thick green belt will be developed around the statuary barrier. Slop of 45 degree will be maintained in the pit.
	6.	Display of Caution Boards at strategic locations on the periphery of the pit area	yes
	7.	Final Use of reservoir/ reclaimed land	Water Harvesting

I. Details of Legal Action / Court Case:

1.	Details of Pending Court matter / Public Litigation Cases in any court of Law	No
2.	Details of Action taken by GPCB, if any	No
3.	Details of public complaint, if any	No
4.	Compliance of EC by RO-GPCB or MoEFCC-Bhopal	No

J. Contact Details:

1.	**Contact details of Applicant**	
2.	Name	M/s Shree Motta Mines & Minerals
3.	Address	R/O- Ground Floor, 4th Nandu Villa, Nehru road, near post office, Mulund, West Mumbai, Maharashtra.
4.	Contact no.	9140939476
5.	Email Id	mottamines1@gmail.com
6.	**Contact details of Consultant**	
7.	Name	Vinay Kumar singh
8.	Address	209 Pramukh Corporate Raysan Gandhinagar -38007.
9.	Contact no.	8141500945
10.	Email Id	Vinugeo007@gmail.com

Deliberation:

- Shri Vinaybhai from M/s. Cognizance Research India Private Ltd, (Accredited no. NABET/EIA/1922/RA 0151, Valid up to Feb. 3, 2022) remained present in the meeting on behalf of PP and he has submitted the Authorization letter for same.
- Committee deliberated on method of mining, rate of mining, no. of working hours and workers etc.
- During the presentation, Environmental Management Plan, Restoration / reclamation plan, CER activities and its budget, green belt development etc. was discussed.
- Committee noted that the mining does notinvolve blasting.
- The location of the lease w.r.t. Environmental Sensitivities was discussed. Committee noted that the excavation in the lease area was seen through Satellite image presented during the presentation.

Committee asked the consultant and PP for the seen excavation in the lease area, but no satisfactory reply was given by the consultant during the meeting. Hence, Committee unanimously decided to consider the proposal in upcoming SEAC meeting upon submission of below mentioned details:

a. Justification of the excavation seen in the lease area through Satellite image with documentary evidences issued by Competent Authority
b. Justification for 'whether the lease isExisting and it is the case of TOR Violation'? along with documentary evidences issued by Competent Authority
c. If the lease is existing, submit production details validated by District geologist
d. Acknowledgement slip of earlier application made to obtain TOR / EC, if any.

14. BAUXITE MINING, DIST: KHEDA – TOR VIOLATION

Application No	Name of Project	S.No.	Village	Taluka	Dist	Lease Area	Validity of lease	ROM	Nearest Human Habitation	End Use	Investment in Rs	Date of Application Received by SEAC
SIA/GJ/MIN/61734/2021	Taiyabpura Bauxite Mine (JANAK KUMAR KANTILAL SADHU)	Survey No. 100 & 328 P	Taiyabpura	Kapadvanj	Kheda	7.83 Ha	Lease was granted on 31.01.1986 and is valid up to 29.06.2036	1,50,000 TPA	Taiyabpura – 0.01 km	Cement industry	Rs.1.10 Crore	18.05.2021 Existing Lease

The project falls under B1 Category – 1(a), i.e. Mining of Minerals as per the provision of EIA Notification, 2006. Project Proponent has applied to obtain Terms of Reference (TOR) for mining of Bauxite.

A. Basic Information of the Project:

1.	Name of Project as per Form I	Taiyabpura Bauxite Mine
2.	Address of the lease	Survey No.:100 & 328P Village:Taiyabpura Taluka:Kapadvanj District: Kheda
3.	Name of lease holder	Janak Kumar Kantilal Sadhu
4.	Lease area (Ha)	7.83 Hectares
5.	Cluster Details	Not Applicable
	a. Total no. of leases in the cluster	
	b. No. of TOR granted in cluster	
	c. No. of EC granted in cluster	
	d. Total area of the cluster	
	e. Maximum individual lease area	
	f. Minimum individual lease area	
6.	Validity of lease with the date of expiry	Lease was granted on 31.01.1986 and is valid up to 29.06.2036
7.	Rate of Mining (MT/Annum)	1,50,000 TPA (ROM)
8.	Details of EC obtained (for expansion projects), if any	Not Applicable

9.	Name of River Bed	Not Applicable
10.	Is the river perennial / non-perennial?	Not Applicable
11.	Lease area (submerged / in stream / on dry river bed)	Not Applicable
12.	All coordinates of the lease area as per Approved Mining Plan	

Boundary Pillar No.	**Latitude**	**Longitude**
A	23°02'21.32"N	73°04'56.58"E
B	23°02'20.24"N	73°05'07.62"E
C	23°02'19.69"N	73°05'07.60"E
D	23°02'17.57"N	73°05'14.48"E
E	23°02'13.58"N	73°05'13.55"E
F	23°02'14.12"N	73°05'08.17"E
G	23°02'14.66"N	73°05'07.21"E
H	23°02'15.50"N	73°04'58.79"E
I	23°02'15.71"N	73°04'56.96"E

13.	Manpower requirement	

Designation	**Qualification**	**Number**
Mine Manager under Reg. 34 of MMR 1961 cum Mining Engineer as per MCDR'2017	2nd Class Mine Manager's certificate of competency	1
Geologist as per MCDR'2017	M.Sc. (Geology)	1
Mining Mate as per MMR	Certificate of Competency	1
Skilled	-	3
Semi-skilled	-	-
Unskilled	-	20
	Total	**26**

14.	Applicability of CRZ Notification	Not Applicable		
15.	Minimum Setback distance proposed to be maintained from River Bed (m)	Not Applicable		
16.	Minimum buffer distance from bridge piers / water intake wells / irrigation structures	Mahor Nadi	1.37	W
		Narmda Canal	6.0	SW
		Varansi river	2.41	W
		Dhamni River	4.41	NE
17.	Maximum depth of sand removal (3 m or water depth whichever is less)	Not Applicable		
18.	Width of Riverbed (m)	Not Applicable		
19.	Average depth of water at lease area (m)	15m BGL		
20.	Depth of mining (m)	10m BGL		
21.	Ground Water Table in meter BGL	15m BGL		
22.	Does ground water interfere approach road exit? (Yes / No) If yes, status report of CGWA	No		
23.	Distance between lease and main road	NH No. 59 at about 0.75 in SE		
24.	Length of kaccha road (m)	8 meter in SW of the lease area		
25.	Length of pacca road (m)	160 meter		

26.	Plan for making pacca road	-
27.	Source of fresh water	Tankers from nearby villages
28.	Water requirement (kLPD)	Total water requirement is about 8-9 KLD.
	a. Domestic	2.50 KLD – 3.00 KLD
	b. Dust suppression	3.50 KLD – 4.00 KLD
	c. Gardening / Green belt development	2.00 KLD – 2.00 KLD
	d. others	-
29.	Whether the Undertaking is submitted for identical information provided in Form I, Approved Mining Plan, Project Details validated by District Geologist, Pre-Feasibility Report, Lease Document, Environment Management Plan and other documents	-

B. Environmental Sensitivities:

Sr No.	Environmental Sensitivities	Actual Distance	Minimum Distance	Reference
1.	Residential	0.83 km in SW	100 m (When Blasting is not involved) **Or** 200 m (When Blasting is involved)	As per CPCB Distance Criteria And order of of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020
	Public buildings	0.88 km		
	Inhabited sites	0.01 km in south		
	Protected monuments,	None		
	Heritage sites	None		
	National / State Highway	NH No. 59 is at about 0.75 km towards SE. SH No. 141 is at about 2.20 km towards SW.		
	District roads	None		
	Public roads	Village road is Passing through the lease area in SW		
	Railway line / area	Kapadvanj 2.03 km in SW		
	Ropeway or Ropeway trestle or station	None		
	Bridges	None		
	Dams	None		
	Reservoirs	None		
	River	Mahor Nadi – 1.37 – W Narmda Canal – 6.0 – SW Varansi river – 2.41 – W Dhamni River – 4.41 – NE		
	Canal	Narmada Canal at 6.0 km		
	Lakes	None		

	Tanks	None		
2.	Eco-Sensitive Zone (if notified)	Not Applicable	>1 km / outside the notified Eco-Sensitive Zone	Vide directives of MOEF&CC dtd 16.07.2020
3.	Eco-Sensitive Zone (if not notified)	Not Applicable	>1 km and <10 km = Prior Clearance from NBWL is required	Vide directives of MOEF&CC dtd16.07.2020
4.	Distance of Coastal line from the site	Not Applicable	>500 M from HTL	Amended CRZ Notification 2011

C. Details of Mining:

1.	Method of Mining (Manual / Semi-mechanized / Mechanized).	Semi-mechanized
2.	Equipments to be used for Mining bulldozers, hydraulic excavators, JCB, scrapers, loaders, Diesel Pump, etc.)	

Name/ Type of Machinery	**In Use (No.)**	**Electrical/ Non-electrical**	**Used in Opencast/ underground**
JCB/ Excavator (with rock breaker attachment 0.9 cum)	2	Non-electrical	Opencast
Tipper	4	Non-electrical	Opencast
Tractor with Trolley	2	Non-electrical	Opencast
Water Tanker	1	Non-electrical	Opencast

3.	Whether it includes blasting?	Not applicable
4.	Details of Authorized Blasting Agency with date of validity certificate	
5.	Procedure / SOP (in brief)	
6.	Details of Blasting Parameters in brief	
7.	Frequency of blasting	
8.	Impact of blasting	
9.	Outcome of Vibration study	
10.	Blasting Activity Management Plan	
11.	Use of any Chemical with quantity	
12.	Precautions taken for Human Safety in brief	
13.	Crusher provided? If Yes, Measures taken for Air Pollution Control	

14.	Compliance of DGMS Guidelines for Blasting	
15.	Compliance of Sustainable Sand Mine Guidelines published by MoEFCC in 2016	
16.	Whether Replenishment Rate Study is approved by District Geologist? If yes, conclude in brief	

D. Details of Green Belt Development:

1.	a. Green belt development budget	70,000/-
	b. Green belt area / location	Total Plantation (3.1220 Hectares) will be done along the boundary barrier (0.3915 hectares from Pillar I to Pillar G & on the Unworked area (2.7305 hectares)alongside the labour quarters & near Pillar D to E.
	c. No. of trees to be planted	3122
	d. Types of trees to be planted	Neem, Subabool, GulmohorKaranj and similar type of species which can grow easily in this area.

E. Details of Environment Management Plan:

1.	**Details of EMP**	**Impact**	**Mitigation Measures**
	a. Land Environment	Total lease area is 7.83 hectare and as per revenue record is Government wasteland. The mining activity will have localized impact and will create physical change in the existing land use and environment.	Total 3.1220 hectare area will be covered under plantation. Plantation will be done the boundary barrier from Pillar I to Pillar G, alongside the labour quarters & on the unworked area near Pillar D to E. Total excavated area is 4.0 Hectares & 3.96 hectares will be used for rain water accumulation.thus overall impact on the Land environment will be positive.
	b. Water Environment	Total excavated area is 4.0	Total excavated area is

			Hectares & 3.96 hectares will be used for rain water accumulation Depth of mining will 10m BGL and thus it will not intersect the ground water level. Apart this, mineral is non toxic in nature thus there will be no negative impact of mining on the water environment of the area.	4.0 Hectares & 3.96 hectares will be used for rain water accumulation. This will help in the development of the ground water level and will also help the local residents during the period of water scarcity. Mining will not interfere with the ground water table and any drainage pattern No effluent will be generated due to mining activities. Monitoring of ground water will be carried out as per CPCB norms.	
		c. Air Environment	The opencast mining operations are generally prone to generation of PM10, PM2.5 and SO2, NOx due to fossil fuel based vehicles, machines. The dust liberated in mining and other related operations is injurious to heath if inhaled in sufficient quantity. There will be generation of fugitive emission during material handling & transportation etc. hence impact is there.	Dust generated during the mining process, loading and transportation may cause impact on the air but the measures followed will control the air pollutions. No drilling or blasting is involved in the mining process. Plantation over an area of 33percent of the lease area will act as a cover to control the spread of dust fugitives. Water spraying on the mine roads of the applied	

				area. Use of Dust masks. Periodic & proper maintenance of vehicles. Green belt development in and around mines area etc. Periodic Monitoring of Ambient Air as per CPCB Guideline	
		d. Noise Environment	There is no heavy traffic, industry or noisy habitation in the area except few mines. With the increase in scale of mining operations, deployment of machinery, blasting operation and men and noise levels area expected to increase. Operation of machinery, movement of trucks and involvement of drilling & blasting so noise generation is envisaged.	Green belt around mining area Personal protective equipment i.e. Ear Muffs/ Ear Plugs will be provided. Proper maintenance of Machineries. Controlled and occasional Blasting will be adopted.	
		e. Biological Environment	The area comprises of government waste land thus the local plants/tree with thorny bushes are the major assets found in and around the applied area. The fauna in the vicinity of the mine is restricted to few common small species. Since the mining area not having forest land, the fauna within the region may be not affected by the	The project activities will have insignificant effect on the existing flora and fauna of the lease area. The greenery and plantation development will eventually attract micro fauna, birds etc. in the area.	

			mining operation.	
		f. Human Environment	Taiyabpura is at about 0.83 km in South West. & nearest habitation at about 0.01km in south. Presently agriculture and mining industry is the chief source of income in this area. The project will provide direct & indirect job opportunities which will improve economic condition of the nearby people. Improved infrastructure and community facilities will make positive economic and social impact on the demography of the area.	No rehabilitation is required as the project area is devoid of habitation. More employment opportunities in the area will generatewhich will improve living standard of the nearby villagers. The Mining will also give more contribution to the government revenue.
		g. Others	-	-
	2.	Occupational health & safety measures as per DGMS	Following measures will be implemented:- Dust Extraction System. Regular Water Sprinkling for dust suppressions. Initial medical examination of workers is proposed. Rest shelter and Toilets facilities will be provided. All the safety equipments such as helmets, shoes, goggles, dust mask and ear plugs will be provided. Medical facilities will be provided to the workers. A well-equipped first aid facility will be maintained at the area.	
	3.	Safety measures proposed		
		a. Is First Aid facility provided by PP?	A well-equipped first aid facility will be maintained at the area.	
		b. Details of PPEs	Helmet, Safety Shoes, Hand Gloves, Dust Masks,	
		c. Whether Registration of Workers under Building and other Construction Workers' (regulation of Employment & Conditions of Service) Act,	Not Applicable	

	1996 and as Beneficiaries with the Gujarat Building and other Construction Workers Welfare Boards is obtained or not?	
	d. Insurance of Workers	Not Applicable
	e. Health checkup plan of workers	Initial medical examination of workers is proposed as per the Mines Act & rules.

F. Transportation:

1.	No. of vehicles per day carrying Minerals	15-20
2.	Fugitive dust emission control measures	Water spraying on the mine roads of the applied area. Wet drilling to be practiced or use of Dry dust extractor. Use of Dust masks. Periodic & proper maintenance of vehicles. Green belt development in and around mines area etc. Periodic Monitoring of Ambient Air as per CPCB Guideline
3.	Route plan in brief	Existing road network will be adequate. No new road/rail required.

G. Financial details of the Project:

1.	Total cost of the project (Lakh)	110
	a. Upfront cost (Lakh)	Nil
	b. Performance Security (Lakh)	-
	c. Total Royalty (Lakh)	-
	d. Weigh Bridge Cost (Lakh)	-
	e. Labor cost equipment (Lakh)	-
	f. Equipment protection and implementation cost (Lakh)	4.5 Lakh
	g. Green Belt Development & maintenance cost (Lakh)	0.70Lakh
	h. Cost of EMP (Lakh)	4.40 Lakh
	i. Cost of Safety measures (Lakh)	2.5 Lakh
	j. Cost of Post-Closure Mine Plan (Lakh)	1.40 Lakh
2.	Budget allocated for CER (Lakh)	2.20 Lakh
3.	Is need based survey for CER carried out? (Yes / No) If yes, give details of activities along with Budgetary Outlay	

S.NO.	ACTIVITY	Budget		
		1st year	2nd year	3rd year

1	Rain water structure & Network system in Government Secondary School.	30,000 /-	-	-
2	Provide computer assembly in Government Secondary School.	-	50000/-	-
3	Provide almirahs, Fan, Table – Chair, etc in Government Secondary School.	40,000 /-	-	-
4	Boundary Wall, Furniture and other Maintenance in Government Secondary School.	-	-	50,000 /-
5.	Drinking Water Facility (Water Cooler) in Government Secondary School.	25000/-	-	25000/-
Total		95000/-	50000/-	75000/-

H. Restoration / Reclamation Plan:

1.	Restoration / Reclamation Details	Restoration of land environment will be done in such a manner that flora fauna and plantation will flourish and also the area can be used for water harvesting and agriculture purposes.
2.	Post mining closure plan	Total excavated area is 4.0 Hectares & 3.96 hectares will be used for rain water accumulation.

3.	Backfilling material and its quantity	There is no overburden to be generated afresh during the next five years and even after up to mine life except alluvium/ soil which shall need disposal immediately.
4.	Size of void for Rain Water Harvesting after backfilling	3.96 hectares
5.	Post Closure Liability / Safety aspects and Measures to be taken to avoid wild life and human accidents/ causalities	Will be fenced around the water reservoir area. 7.5-meter-thick green belt will be developed around the statuary barrier. Slop of 45 degree will be maintained in the pit
6.	Display of Caution Boards at strategic locations on the periphery of the pit area	Yes
7.	Final Use of reservoir/ reclaimed land	Water harvesting

I. Details of Legal Action / Court Case:

1.	Details of Pending Court matter / Public Litigation Cases in any court of Law	Not Applicable
2.	Details of Action taken by GPCB, if any	Not Applicable
3.	Details of public complaint , if any	Not Applicable
4.	Compliance of EC by RO-GPCB or MoEFCC-Bhopal	Not Applicable

J. Contact Details:

1.	**Contact details of Applicant**	
2.	Name	Janak Kumar KantiLal Sadhu
3.	Address	R/o-2531, Alkapuri Society Opp. Pranami temple, Post- Dakor, Kheda (Gujarat)-388225
4.	Contact no.	9712247589
5.	Email Id	taiyabpurabauxitemine@gmail.com
6.	**Contact details of Consultant**	
7.	Name	R. K. Consultants
8.	Address	17- E/777, C. H. B, Jodhpur
9.	Contact no.	9829021098
10.	Email Id	rkconsultantsjodhpur@gmail.com

Deliberation:

- The representative of M/s. R. K. Consultants remained present in the meeting on behalf of PP.
- Committee deliberated on method of mining, rate of mining, no. of working hours and workers etc.
- Committee noted that the mining does not involve blasting.

- During the presentation, Environmental Management Plan, Restoration / reclamation plan, CER activities and its budget, green belt development etc. was discussed.
- Committee also deliberated on the location of the lease w.r.t. Environmental Sensitivities and found the village road passing through the lease area through satellite images presented during the presentation.
- Several human habitations were also seennear the lease area, i.e. within 100 m distance from the lease boundaryin the Satellite image presented by the PP.
- Committee noted that it is an existing lease and the consultant presented production details validated by District Geologist, Kutch vide letter no. GK/ML/production/20-21/710, dated 08.03.2021 as below:

S. N.	**Year**	**Production in MTPA**	**Year**	**Production in MTPA**
1.	1987	1662.5	2004-05	568
2.	1988	920.83	2005-06	64
3.	1989	868.5	2006-07	166
4.	1990	1336	2007-08	491
5.	1991	171	2008-09	480
6.	1992	147	2009-10	1129
7.	1993	605	2010-11	606
8.	1994	138	2011-12	7350
9.	1995	254	2012-13	27
10.	1996	197	2013-14	22
11.	1997	51	2014-15	17
12.	1998	163	2015-16	13
13.	1999	40	2016-17	11
14.	2000	42	2017-18	0
15.	2001	51	2018-19	0
16.	2002	31	2019-20	84000
17.	2003	34	2020-21	113800
18.	Jan to March 2004	12	-	-

- Committee noted that the production was continued after 31.03.2016. Regarding the earlier TOR/EC application, the Consultant presented the acknowledgment slip of earlier EC application dated 06.08.2016, i.e. before 13.04.2018.

It is pertinent to note that the PP has submitted the supplementary documents dated 05.06.2021 in continuation to the discussion held during SEAC meeting dated **28.05.2021**regarding the human habitations located within 100 m radius from the lease area. In this regards, PP has enclosed a letter dated 25.05.2021 written by him to Sarpanch / Talati cum Mantri, Taiyabpura for shifting the illegalkaccha slum located nearby the lease, which was not established at the time of grant of lease in 1986. PP has also enclosed the letter ofPresident, Taiyabpura Gram Panchayat, dated

01.06.2021, which states that, the complain for illegal human habitations near the lease area is considered and the Gram Panchayat has decided to remove the shelters and the same shall be reported to competent authority.

The representation was considered during SEAC meeting scheduled on a later date**16.06.2021** andShri R. K. Purohit presented the presentation before SEAC on behalf of the PP. He claimed to consider their proposal and Grant TOR Vioaltion considering their representation submitted by the PP on 05.06.2021.

However, the Committee didn't find the supplementary representation satisfactory and found that irrespective of the legal or illegal status of Human Habitations within the 100 m radius of the lease area violates the the distance criteria given in the Order of Hon'ble NGT Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020.

In view of the above, Committee noted that

(i) The proposal falls under violation to EIA Notification 2006, as per Hon'ble NGT Order dtd.13.01.2015 in the O.A.No. 123/2014 and M.A.419 of 2014, Himmat Singh Shekhawat v/s State of Rajasthan and order of Honorable National Green Tribunal dtd. 04.05.2016 in the O.A.No 34/2016, Naresh Zargar v/s of Madhya Pradesh and order of Honorable National Green Tribunal dtd.30.06.2020 in the O.A. No. 136/2017, Tamil Nadu Small Mine Owners Federation v/s Ministry of Environment Forest and Climate Change Government of India.

(ii) The location of the lease is not as per the criteria prescribed in order of Hon'ble NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020 in terms of the village road passing through the lease area and human habitations found within 100 m radius of the lease.

Hence, in view of order of Hon'ble NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020and MoEFCC OM dated 09.09.2019, Committee unanimously decided to reject the proposal and recommend SEIAA to initiate credible legal action against the project proponent under Section 19 of the E.P. Act 1986 for violation of the provisions of the EIA Notification, 2006 through Gujarat Pollution Control Board under intimation to the SEAC & SEIAA in this regard.

15. BAUXITE MINING, DIST: KHEDA – TOR VIOLATION

Application No	Name of Project	S. No.	Village	Taluka	Dist	Lease Area	Validity of lease	ROM	Nearest Human Habitation	End Use	Investment in Rs	Date of Application Received by SEAC

SIA/GJ/MIN/61751/2021	Taiyabpura Bauxite Mine (JANAK KUMAR KANTILAL SADHU)	328P	Taiyabpura	Kapadvanj	Kheda	1.00.00 Ha	Lease valid up to 27.01.2041	10,000 MTPA	Taiyabpura – 0.54 km	Manufacturing of refractory, abrasive and chemicals, cement industry	0.90 Crore	18.05.2021 Existing Lease

The project falls under B1 Category – 1(a), i.e. Mining of Minerals as per the provision of EIA Notification, 2006. Project Proponent has applied to obtain Terms of Reference (TOR) for mining of Bauxite.

A. Basic Information of the Project:

1.	Name of Project as per Form I	Taiyabpura Bauxite Mine
2.	Address of the lease	Survey No.: 328P Village: Taiyabpura Taluka:Kapadvanj District: Kheda
3.	Name of lease holder	Janak Kumar Kantilal Sadhu
4.	Lease area (Ha)	1.00 Hectares
5.	Cluster Details	Not Applicable
	a. Total no. of leases in the cluster	
	b. No. of TOR granted in cluster	
	c. No. of EC granted in cluster	
	d. Total area of the cluster	
	e. Maximum individual lease area	
	f. Minimum individual lease area	
6.	Validity of lease with the date of expiry	Lease was granted on 03.08.1990 and is valid up to 27.01.2041
7.	Rate of Mining (MT/Annum)	10000 TPA (ROM)
8.	Details of EC obtained (for expansion projects), if any	Not Applicable
9.	Name of River Bed	Not Applicable
10.	Is the river perennial / non-perennial?	Not Applicable
11.	Lease area (submerged / in stream / on dry river bed)	Not Applicable

12.	All coordinates of the lease area as per Approved Mining Plan	

Boundary Pillar No.	**Latitude**	**Longitude**
A	23°02'28.72"N	73°04'47.46"E
B	23°02'28.43"N	73°05'48.22"E
C	23°02'27.56"N	73°05'48.85"E
D	23°02'26.91"N	73°05'49.69"E
E	23°02'26.07"N	73°04'50.61"E
F	23°02'24.89"N	73°04'51.43"E
G	23°02'23.17"N	73°04'52.20"E
H	23°02'22.12"N	73°04'50.23"E
I	23°02'23.13"N	73°04'49.46"E
J	23°02'23.92"N	73°04'49.66"E
K	23°02'24.42"N	73°04'49.50"E
L	23°02'25.51"N	73°04'49.12"E
M	23°02'26.71"N	73°04'48.45"E
N	23°02'27.41"N	73°04'47.56"E

13.	Manpower requirement	

Designation	**Qualification**	**Number**
Mine Manager under Reg. 34 of MMR 1961 cum Mining Engineer as per MCDR'2017	2nd Class Mine Manager's certificate of competency	1
Geologist as per MCDR'2017	M.Sc. (Geology)	1
Mining Mate as per MMR	Certificate of Competency	1
Skilled	-	3
Semi-skilled	-	-
Unskilled	-	10
	Total	**16**

14.	Applicability of CRZ Notification	Not Applicable
15.	Minimum Setback distance proposed to be maintained from River Bed (m)	Not Applicable
16.	Minimum buffer distance from bridge piers / water intake wells / irrigation structures	

Mahor Nadi	0.74	NW
Narmada Canal	6.01	SW
Varansi river	2.28	W
Dhamni River	4.51	NE
Bagahas village pond	9.85	NE

17.	Maximum depth of sand removal (3 m or water depth whichever is less)	Not Applicable
18.	Width of Riverbed (m)	Not Applicable
19.	Average depth of water at lease area (m)	15m BGL
20.	Depth of mining (m)	10m BGL
21.	Ground Water Table in meter BGL	15m BGL
22.	Does ground water interfere approach road exit? (Yes / No) If yes, status report of CGWA	No
23.	Distance between lease and main road	NH No. 59 at about 1.35 in SE

24.	Length of kaccha road (m)	8 meter in SW of the lease area
25.	Length of pacca road (m)	160 meter
26.	Plan for making pacca road	-
27.	Source of fresh water	Tankers from nearby villages
28.	Water requirement (kLPD)	Total water requirement is about 2-3 KLD.
	a. Domestic	0.50 KLD – 0.75 KLD
	b. Dust suppression	1.00 KLD – 1.25 KLD
	c. Gardening / Green belt development	0.50 KLD – 1.00 KLD
	d. others	-
29.	Whether the Undertaking is submitted for identical information provided in Form I, Approved Mining Plan, Project Details validated by District Geologist, Pre-Feasibility Report, Lease Document, Environment Management Plan and other documents	YES

B. Environmental Sensitivities:

Sr No.	Environmental Sensitivities	Actual Distance	Minimum Distance	Reference
1.	Residential	0.54 km in SE	100 m (When Blasting is not involved) **Or** 200 m (When Blasting is involved)	As per CPCB Distance Criteria And order of of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020
	Public buildings	-		
	Inhabited sites	0.54 km in south east		
	Protected monuments,	None		
	Heritage sites	None		
	National / State Highway	NH No. 59 is at about 1.35 km towards SE. SH No. 141 is at about 1.97 km towards SW.		
	District roads	None		
	Public roads	Village road is about 0.02 km W.		
	Railway line / area	Kapadvanj 2.29 km in SW		
	Ropeway or Ropeway trestle or station	None		
	Bridges	None		
	Dams	None		
	Reservoirs	None		
	River	Mahor Nadi – 0.74 – NW Narmda Canal – 6.01 – SW Varansi river – 2.28 – W Dhamni River – 4.51 – NE		
	Canal	Narmada Canal at 6.01 km		
	Lakes	None		

	Tanks	None		
2.	Eco-Sensitive Zone (if notified)	Not Applicable	>1 km / outside the notified Eco-Sensitive Zone	Vide directives of MOEF&CC dtd 16.07.2020
3.	Eco-Sensitive Zone (if not notified)	Not Applicable	>1 km and <10 km = Prior Clearance from NBWL is required	Vide directives of MOEF&CC dtd16.07.2020
4.	Distance of Coastal line from the site	Not Applicable	>500 M from HTL	Amended CRZ Notification 2011

C. Details of Mining:

1.	Method of Mining (Manual / Semi-mechanized / Mechanized).	Semi-mechanized
2.	Equipments to be used for Mining bulldozers, hydraulic excavators, JCB, scrapers, loaders, Diesel Pump, etc.)	

Name/ Type of Machinery	**In Use (No.)**	**Electrical/ Non-electrical**	**Used in Opencast/ underground**
JCB/ Excavator (with rock breaker attachment 0.9 cum)	2	Non-electrical	Opencast
Tipper	4	Non-electrical	Opencast
Tractor with Trolley	2	Non-electrical	Opencast
Water Tanker	1	Non-electrical	Opencast

3.	Whether it includes blasting?	Not applicable
4.	Details of Authorized Blasting Agency with date of validity certificate	
5.	Procedure / SOP (in brief)	
6.	Details of Blasting Parameters in brief	
7.	Frequency of blasting	
8.	Impact of blasting	
9.	Outcome of Vibration study	
10.	Blasting Activity Management Plan	
11.	Use of any Chemical with quantity	
12.	Precautions taken for Human Safety in brief	
13.	Crusher provided? If Yes, Measures taken for Air Pollution Control	

14.	Compliance of DGMS Guidelines for Blasting	
15.	Compliance of Sustainable Sand Mine Guidelines published by MoEFCC in 2016	
16.	Whether Replenishment Rate Study is approved by District Geologist? If yes, conclude in brief	

D. Details of Green Belt Development:

1.	a. Green belt development budget	40,000/-
	b. Green belt area / location	Total Plantation (0.33 Hectares) will be done along the boundary barrier (0.3915 hectares from Pillar I to Pillar G & on the Unworked area (2.7305 hectares) alongside the labour quarters & near Pillar D to E.
	c. No. of trees to be planted	330
	d. Types of trees to be planted	Neem, Subabool, Gulmohor Karanj and similar type of species which can grow easily in this area.

E. Details of Environment Management Plan:

1.	**Details of EMP**	**Impact**	**Mitigation Measures**
	a. Land Environment	Total lease area is 1.00 hectare and as per revenue record is Government wasteland. The mining activity will have localized impact and will create physical change in the existing land use and environment.	Total 0.33 hectare area will be covered under plantation. Plantation will be done the boundary barrier from Pillar I to Pillar G, alongside the labour quarters & on the unworked area near Pillar D to E. Total excavated area is 0.70 Hectares & 0.70 hectares will be used for rain water accumulation. thus overall impact on the Land environment will be positive.
	b. Water Environment	Total excavated area is 0.70 Hectares will be used for rain water accumulation	Total excavated area is 0.70 Hectares will be used for rain water

			Depth of mining will 10m BGL and thus it will not intersect the ground water level. Apart this, mineral is non toxic in nature thus there will be no negative impact of mining on the water environment of the area.	accumulation. This will help in the development of the ground water level and will also help the local residents during the period of water scarcity. Mining will not interfere with the ground water table and any drainage pattern No effluent will be generated due to mining activities. Monitoring of ground water will be carried out as per CPCB norms.	
		c. Air Environment	The opencast mining operations are generally prone to generation of PM10, PM2.5 and SO2, NOx due to fossil fuel based vehicles, machines. The dust liberated in mining and other related operations is injurious to heath if inhaled in sufficient quantity. There will be generation of fugitive emission during material handling & transportation etc. hence impact is there.	Dust generated during the mining process, loading and transportation may cause impact on the air but the measures followed will control the air pollutions. No drilling or blasting is involved in the mining process. Plantation over an area of 33 percent of the lease area will act as a cover to control the spread of dust fugitives. Water spraying on the mine roads of the applied area. Use of Dust masks. Periodic & proper	

				maintenance of vehicles. Green belt development in and around mines area etc. Periodic Monitoring of Ambient Air as per CPCB Guideline	
		d. Noise Environment	There is no heavy traffic, industry or noisy habitation in the area except few mines. With the increase in scale of mining operations, deployment of machinery, blasting operation and men and noise levels area expected to increase. Operation of machinery, movement of trucks and involvement of drilling & blasting so noise generation is envisaged.	Green belt around mining area Personal protective equipment i.e. Ear Muffs/ Ear Plugs will be provided. Proper maintenance of Machineries. Controlled and occasional Blasting will be adopted.	
		e. Biological Environment	The area comprises of government waste land thus the local plants/tree with thorny bushes are the major assets found in and around the applied area.	Due to sparse vegetation in the surrounding area there is insignificant fauna in the immediate vicinity. The vegetation is practically very less in the lease area as well as near the pit.	
		f. Human Environment	Taiyabpura is at about 0.54 km in South West. & nearest habitation at about 0.54km in south.Presently agriculture and mining industry is the chief source of income in this area. The project will provide	No rehabilitation is required as the project area is devoid of habitation. More employment opportunities in the area will generate which will improve living standard	

		direct & indirect job opportunities which will improve economic condition of the nearby people. Improved infrastructure and community facilities will make positive economic and social impact on the demography of the area.	of the nearby villagers. The Mining will also give more contribution to the government revenue.
	g. Others	-	-
2.	Occupational health & safety measures as per DGMS	Following measures will be implemented:- Dust Extraction System. Regular Water Sprinkling for dust suppressions. Initial medical examination of workers is proposed. Rest shelter and Toilets facilities will be provided. All the safety equipments such as helmets, shoes, goggles, dust mask and ear plugs will be provided. Medical facilities will be provided to the workers. A well-equipped first aid facility will be maintained at the area.	
3.	Safety measures proposed		
	a. Is First Aid facility provided by PP?	A well-equipped first aid facility will be maintained at the area.	
	b. Details of PPEs	Helmet, Safety Shoes, Hand Gloves, Dust Masks,	
	c. Whether Registration of Workers under Building and other Construction Workers' (regulation of Employment & Conditions of Service) Act, 1996 and as Beneficiaries with the Gujarat Building and other Construction Workers Welfare Boards is obtained or not?	Not Applicable	
	d. Insurance of Workers	Not Applicable	
	e. Health checkup plan of workers	Initial medical examination of workers is proposed as per the Mines Act & rules.	

F. Transportation:

1.	No. of vehicles per day carrying Minerals	10-15
2.	Fugitive dust emission control measures	Water spraying on the mine roads of the applied area.

		Wet drilling to be practiced or use of Dry dust extractor. Use of Dust masks. Periodic & proper maintenance of vehicles. Green belt development in and around mines area etc. Periodic Monitoring of Ambient Air as per CPCB Guideline
3.	Route plan in brief	Existing road network will be adequate. No new road/rail required.

G. Financial details of the Project:

1.	Total cost of the project (Lakh)	90
	a. Upfront cost (Lakh)	Nil
	b. Performance Security (Lakh)	-
	c. Total Royalty (Lakh)	-
	d. Weigh Bridge Cost (Lakh)	-
	e. Labor cost equipment (Lakh)	-
	f. Equipment protection and implementation cost (Lakh)	2.5 Lakh
	g. Green Belt Development & maintenance cost (Lakh)	0.40Lakh
	h. Cost of EMP (Lakh)	2.70 Lakh
	i. Cost of Safety measures (Lakh)	2.0 Lakh
	j. Cost of Post-Closure Mine Plan (Lakh)	1.40 Lakh
2.	Budget allocated for CER (Lakh)	1.80 Lakh
3.	Is need based survey for CER carried out? (Yes / No) If yes, give details of activities along with Budgetary Outlay	

S.NO.	ACTIVITY	Budget		
		1st year	2nd year	3rd year
1	Rain water structure & Network system in Government Secondary School.	30,000 /-	-	-
2	Provide computer assembly in Government Secondary School.	-	30000/-	-

		3	Solar lights in village area	30,000 /-	-	-
		4	Boundary Wall, Furniture and other Maintenance in Government Secondary School.	-	-	40,000 /-
		5.	Drinking Water Facility (Water Cooler) in Village area	25000/-	-	25000/-
		Total		85000/-	30000/-	65000/-

H. Restoration / Reclamation Plan:

1.	Restoration / Reclamation Details	Restoration of land environment will be done in such a manner that flora fauna and plantation will flourish and also the area can be used for water harvesting and agriculture purposes.
2.	Post mining closure plan	Total excavated area is 0.70 Hectares will be used for rain water accumulation.
3.	Backfilling material and its quantity	There is no overburden to be generated afresh during the next five years and even after up to mine life except alluvium/ soil which shall need disposal immediately.
4.	Size of void for Rain Water Harvesting after backfilling	0.70 hectares
5.	Post Closure Liability / Safety aspects and Measures to be taken to avoid wild life and human accidents/ causalities	Will be fenced around the water reservoir area. 7.5-meter-thick green belt will be developed around the statuary barrier. Slop of 45 degree will be maintained in the pit
6.	Display of Caution Boards at strategic locations on the periphery of the pit area	Yes
7.	Final Use of reservoir/ reclaimed land	Water harvesting

I. Details of Legal Action / Court Case:

1.	Details of Pending Court matter / Public Litigation Cases in any court of Law	Not Applicable
2.	Details of Action taken by GPCB, if any	Not Applicable
3.	Details of public complaint , if any	Not Applicable
4.	Compliance of EC by RO-GPCB or MoEFCC-Bhopal	Not Applicable

J. Contact Details:

1.	**Contact details of Applicant**	
2.	Name	Janak Kumar Kanti Lal Sadhu
3.	Address	R/o-2531, Alkapuri Society Opp. Pranami temple, Post- Dakor, Kheda (Gujarat)-388225
4.	Contact no.	9712247589
5.	Email Id	taiyabpurabauxitemine@gmail.com
6.	**Contact details of Consultant**	
7.	Name	R. K. Consultants
8.	Address	17- E/777, C. H. B, Jodhpur
9.	Contact no.	9829021098
10.	Email Id	rkconsultantsjodhpur@gmail.com

Deliberation:

- The representative of M/s. R. K. Consultants remained present in the meeting on behalf of PP.
- Committee deliberated on method of mining, rate of mining, no. of working hours and workers etc.
- Committee noted that the mining does not involve blasting.
- During the presentation, Environmental Management Plan, Restoration / reclamation plan, CER activities and its budget, green belt development etc. was discussed.
- Committee also deliberated on the location of the lease w.r.t. Environmental Sensitivities and found as prescribed by the standards of CPCB.
- Committee noted that it is an existing lease and the consultant presented production details validated by District Geologist, Kutch vide letter no. GK/ML/production/20-21/709, dated 08.03.2021 as below:

Year	**Production in MTPA**	**Year**	**Production in MTPA**
1991	65	2006-07	568
1992	98	2007-08	2467
1993	189	2008-09	505
1994	83	2009-10	17609
1995	314	2010-11	5440

1996	126	2011-12	715
1997	50	2012-13	25
1998	145	2013-14	22
1999	63	2014-15	18
2000	24	2015-16	13
2001	52	2016-17	12
2002	24	2017-18	0
2003	39	2018-19	0
Jan to March 2004	15	2019-20	50000
2004-05	3311	2020-21	0
2005-06	117	-	-

- Committee noted that the production was continued after 31.03.2016. Asking upon the earlier TOR/EC application, the Consultant presented the acknowledgment slip of earlier EC application dated 06.08.2016, i.e. before 13.04.2018.

Referring to the order of Honorable National Green Tribunal dtd.13.01.2015 in the O.A.No.123/2014 and M.A.419 of 2014, Himmat Singh Shekhawat v/s State of Rajasthan and order of Honorable National Green Tribunal dtd.04.05.2016 in the O.A.No.34/2016, Naresh Zargar v/s of Madhya Pradesh and order of Honorable National Green Tribunal dtd.30.06.2020 in the O.A. No 136/2017, Tamil Nadu Small Mine Owners Federation v/s Ministry of Environment Forest and Climate Change Government of India, Committee noted that proposal falls under violation to EIA Notification 2006. It is also noted that PP has applied for EC on 10.02.2016. Hence, unanimously decided to recommend for **TOR under violation to EIA Notification 2006 as per Annexure - I and TOR for Non-Sand Mining without blasting as per Annexure – II.**

16. ORDINARY SAND MINING, DIST: CHHOTAUDEPUR

Application No	Name of Project	S.No.	Village	Taluka	Dist	Lease Area	Validity of lease	ROM	River	Nearest Human Habitation	End Use	Investment in Rs	Date of Application Received by SEAC
SIA/GJ/MIN/60177/2021	PAVI ORDINARY SAND BLOCK - 04	Survey No. 1/2,2/1,2/2 & 2/3	Pavi	Jetpurpavi	Chhotaudepur	2.20.00 Ha	LoI issued on 14.11.2019 for 5 years	37620 MTPA	Orsang	Pavi – 0.15 km	Construction	Rs.48.01 Lakh	18.05.2021

	(SHRI SANJAY KALUBHAI VAGHANI)	Ne Lagu Orsang River Bed											

The project falls under B1 Category – 1(a), i.e. Mining of Minerals as per the provision of EIA Notification, 2006. Project Proponent has applied to obtain Terms of Reference (TOR) for mining of Ordinary Sand.

A. Basic Information of the Project:

1.	Name of Project as per Form I	Pavi Ordinary Sand Block-4
2.	Address of the lease	Survey No.: 1/2, 2/1, 2/2 & 2/3 Orsang Riverbed Village: Pavi Taluka: Jetpur Pavi District: Chhotaudepur
3.	Name of lease holder	Sh. Sanjaybhai Kalubhai Vaghani
4.	Lease area (Ha)	02.20.00Ha
5.	Cluster Details	
	a. Total no. of leases in the cluster	317
	b. No. of TOR granted in cluster	15
	c. No. of EC granted in cluster	186
	d. Total area of the cluster	1203.53.61 Ha
	e. Maximum individual lease area	10.00.00Ha
	f. Minimum individual lease area	00.28.00Ha
6.	Validity of lease with the date of expiry	5Yearsfromthedateofleasedeed
7.	Rate of Mining (MT/Annum)	37620 MTPA
8.	Details of EC obtained (for expansion projects), if any	NA
9.	Name of River Bed	Orsang Riverbed
10.	Is the river perennial / non-perennial?	Non-Perennial
11.	Lease area (submerged / in stream / on dry river bed)	On dry river bed
12.	All coordinates of the lease area as per Approved Mining Plan	

Pillar No.	Latitude	Longitude
4	22°20'16.98"N	73°50'43.20"E
5	22°20’17.47" N	73°50'49.83"E
25	22°20'13.79"N	73°50'49.94"E
26	22°20'13.11"N	73°50'43.40"E

13.	Manpower requirement	15 localpersonswillbeemployeddirectly. while indirectly15peoplewillgetemployment.
14.	Applicability of CRZ Notification	NA

15.	Minimum Setback distance proposed to be maintained from River Bed (m)	More than 10 mts
16.	Minimum buffer distance from bridge piers / water intake wells / irrigation structures	No structures are found.
17.	Maximum depth of sand removal (3 m or water depth whichever is less)	3 m
18.	Width of Riverbed (m)	1 km
19.	Average depth of water at lease area (m)	Dry River bed
20.	Depth of mining (m)	UltimateDepth of Mining-3m
21.	Ground Water Table in meter BGL	10to 15 m
22.	Does ground water interfere approach road exit? (Yes / No) If yes, status report of CGWA	No
23.	Distance between lease and main road	0.58Km
24.	Length of kaccha road (m)	400m-NH 56
25.	Length of pacca road (m)	
26.	Plan for making pacca road	Makingofapproachroadfromminetonearvillageroadonhiredbasis. Cost of making approach road:- AverageRs.1,20,000/- whichisincludedincapitalcostof EMP.
27.	Source of fresh water	Well/WaterTanker
28.	Water requirement (kLPD)	Total=3.00 KLD
	a. Domestic	0.5
	b. Dust suppression	2.0
	c. Gardening / Green belt development	0.5
	d. Others	-
29.	Whether the Undertaking is submitted for identical information provided in Form I, Approved Mining Plan, Project Details validated by District Geologist, Pre-Feasibility Report, Lease Document, Environment Management Plan and other documents	Attachedhereinthemail

B. Environmental Sensitivities:

Sr NO	**Environmental Sensitivities**	**Actual Distance**	Minimum Distance	**Reference**

1	Residential	Pavi Village- 0.15 km	100 m (When Blasting is not involved)	As per order of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020
	Public buildings	Hospital at Jetpur-1.2 km Sr. Sec. School at Jetpur- 1.0 km		As per order of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020
	Inhabited sites	Nonewithin1Km		
2	A. Major Bridge	NA	1 km	On both sides of the lease (as per Sustainable Sand Mine Guideline of MOEF&CC)
	B. Highway	NH 56- 0.41 KM	1 km	On both sides of the lease (as per Sustainable Sand Mine Guideline of MOEF&CC)
OR				
3.	Bridge(Span of Bridge as X)	NA	c. 5X in upstream or 250 m. d. 10X in down stream or 500 m	As per Sustainable Sand Mine Guideline of MOEF&CC
4.	Public Structure including water intake wells	a. NA	c. 5X in upstream or 250 m. d. 10X in down stream or 500 m	As per Sustainable Sand Mine Guideline of MOEF&CC
5.	Depth of working	3 M	1 M or water level whichever is early	As per order of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020)
6.	Set Back Distance to prevent river bank erosion	More than 10 M	10 M or 1/4th of width of river	As per order of Honorable SC dtd 27.02.2020 and Sustainable Sand Mine Guideline of MOEF&CC

7.	Mineable Material per Hectare area for actual mining shall not exceed maximum production	37,620 MTPA	60,000 MTPA Per Hectare	As per Sustainable Sand Mine Guideline of MOEF&CC
8.	Water supply Scheme/Irrigation structure	NA	200 M	As per Sustainable Sand Mine Guideline of MOEF&CC
9.	Railway Line	Jetpur Pavi Railway station-0.42 km	100 M	As per Sustainable Sand Mine Guideline of MOEF&CC
10.	Reservoir/Canal	NA	100 M	As per CPCB Distance Criteria And order of of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020
11.	Other Road	NA	100 M	As per CPCB Distance Criteria And order of of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020
12.	Eco-Sensitive Zone (if notified)	NA	>1 km / outside the notified Eco-Sensitive Zone	Vide directives of MOEF&CC dtd 16.07.2020
13.	Eco-Sensitive Zone (if not notified)	Jambughoda Wildlife Sanctuary-13.35 km Ratanmahal Wildlife Sanctuary- 15.35 km	>1 km and <10 km = Prior Clearance from NBWL is required	Vide directives of MOEF&CC dtd 16.07.2020
14.	Distance of Coastal line from the site	NA	>500 M from HTL	Amended CRZ Notification 2011

C. Details of Mining:

1.	Method of Mining (Manual / Semi-mechanized / Mechanized).	SemiMechanizedOpencastMining
2.	Equipments to be used for Mining bulldozers, hydraulic excavators, JCB, scrapers, loaders, Diesel Pump, etc.)	Excavator/JCB

3.	Whether it includes blasting?	No
4.	Details of Authorized Blasting Agency with date of validity certificate	NA
5.	Procedure / SOP (in brief)	NA
6.	Details of Blasting Parameters in brief	NA
7.	Frequency of blasting	NA
8.	Impact of blasting	NA
9.	Outcome of Vibration study	NA
10.	Blasting Activity Management Plan	NA
11.	Use of any Chemical with quantity	NA
12.	Precautions taken for Human Safety in brief	NA
13.	Crusher provided? If Yes, Measures taken for Air Pollution Control	NA
14.	Compliance of DGMS Guidelines for Blasting	NA
15.	Compliance of Sustainable Sand Mine Guidelines published by MoEFCC in 2016	Yes
16.	Whether Replenishment Rate Study is approved by District Geologist? If yes, conclude in brief	

D. Details of Green Belt Development:

1.	a. Green belt development budget	• Capital Cost:- Rs. 30,000/- • Recurring Cost:- Rs. 15,000/-
	b. Green belt area / location	A green belt area will be developed near block area and 50 trees will be planted and maintained during block period.
	c. No. of trees to be planted	50 trees
	d. Types of trees to be planted	Mainly local species such as Neem, Kada, Mango, Mahuda, Timarva will be planted.

E. Details of Environment Management Plan:

1.	**Details of EMP**	**Impact**	**Mitigation Measures**
	a. Land Environment	• Theleaseareaisgovernment waste land andminingwill leadtochangein landuse pattern.	• Plantation activities to bedonealongthekaccharoad. • The area is hilly terrain,thereforeground surface willnotbechanged.
	b. Water Environment	• Wastewatergeneratedfrom mineoffice	• Waste watergeneratedfrom office building will bedivertedtosepticktank followedbysoak pit
	c. Air Environment	•The sources of air pollution aredustgenerateddueto excavation, loading and unloading ofmaterial,movementofdumpers.Itmaycaus epollutioninenvironment.	• Sprinklingofwaterwillbedoneonroadsaswell asstockpile • Propermaintenanceof vehiclestominimizethep

		Impact onhealth duetofugitive dustemissions.	ollutants. • Thetruckswillbecovered while moving thematerial. • Developmentofgreen belt/plantationnearby road.
	d. Noise Environment	• Movementof trucks • Operation of machineries	Noise will be produced during transportation of mineral. Necessary steps will be taken as per guidelines given by SEIAA.
	e. Biological Environment	• AsitSandmining project,activitieswillbeconfined to core zone only.Thusnodirectimpactisforeseenontheflora&faunaofthesurroundingareawhereasactivitiesrelatedtominingastransportationofmineralsand passage of workers toandfrommingareawill haveanadverse impact.	• Miningactivitieswillbe restrictedtodaytimesoth at fauna will not disturbatnight. • Tar road will be used fortransportation to minimizefugitive emissions. • Material will be coveredduringtransportation. • Watersprinklingwillbe doneonhaulroadstocontrolfugitiveemissions.
	f. Human Environment	• Fugitivedustemission couldhavepotentialimpactonhumanhealth	• Personsworkingindustyareatobe providedwithprotectivegearssuchashelmets, dust masks, earmuff etc.; • Regular water sprinklingat dust generating areas,haulroads. Occupational health checkupofallworkersworkinginmineandpulmonary function test forworkersworkingindusty • areas.
	g. Others	-	-
2.	Occupational health & safety measures as per DGMS	• Regularhealthcheckupofalltheworkersworkingin mine.	
3.	Safety measures proposed		

	a. Is First Aid facility provided by PP?	Yes
	b. Details of PPEs	Helmet,SafetyShoes,HandGloves,DustMask,Ear Plugs
	c. Whether Registration of Workers under Building and other Construction Workers' (regulation of Employment & Conditions of Service) Act, 1996 and as Beneficiaries with the Gujarat Building and other Construction Workers Welfare Boards is obtained or not?	No
	d. Insurance of Workers	NA
	e. Health checkup plan of workers	Healthcheck-upforworkersonceinyear.

F. Transportation:

1.	No. of vehicles per day carrying Minerals	50
2.	Fugitive dust emission control measures	Sprinkling of water twice in a day
3.	Route plan in brief	Block Area- Approach Road- Village Road- State Highway/NH

G. Financial details of the Project:

1.	Total cost of the project (Lakh)	Rs.48.01 Lakh
	a. Upfront cost (Lakh)	Rs.12.71/-
	b. Performance Security (Lakh)	
	c. Total Royalty (Lakh)	Rs.75.24/-
	d. Weigh Bridge Cost (Lakh)	Rs. 1.0/-
	e. Labor cost equipment (Lakh)	Rs.5/-
	f. Equipment protection and implementation cost (Lakh)	Rs.26.25/-
	g. Green Belt Development & maintenance cost (Lakh)	Rs. 5.7/-
	h. Cost of EMP (Lakh)	• CapitalCost:-Rs.95,000/- • RecurringCost:-Rs.60,000 /-
	i. Cost of Safety measures (Lakh)	• RecurringCost:-Rs.28,000/-
	j. Cost of Post-Closure Mine Plan (Lakh)	Rs.1.00/-
2.	Budget allocated for CER (Lakh)	Rs.95,000/-
3.	Is need based survey for CER carried out? (Yes / No) If yes, give details of activities along with Budgetary Outlay	SN | Activity | Budget (1st year | 2nd year | 3rd year)

H. Restoration / Reclamation Plan:

1.	Restoration / Reclamation Details	The area will be reclaimed during monsoon.
2.	Post mining closure plan	Area will be self-reclaimed
3.	Backfilling material and its quantity	NA
4.	Size of void for Rain Water Harvesting after backfilling	NA
5.	Post Closure Liability / Safety aspects and Measures to be taken to avoid wild life and human accidents/ causalities	Financial assurance will be given as a part of mine closure plan
6.	Display of Caution Boards at strategic locations on the periphery of the pit area	Will be done as per GMMCR 2017
7.	Final Use of reservoir/ reclaimed land	Plantation will be carried out as per OM of MoEF dated & CC dated on 14/01/2020

I. Details of Legal Action / Court Case:

1.	Details of Pending Court matter / Public Litigation Cases in any court of Law	NA
2.	Details of Action taken by GPCB, if any	NA
3.	Details of public complaint , if any	NA
4.	Compliance of EC by RO-GPCB or MoEFCC-Bhopal	NA

J. Contact Details:

1.	**Contact details of Applicant**	
2.	Name	Sanjaybhai Kalubhai Vaghani
3.	Address	61, Shree Nathji Banglow, Mota Varacha, Surat (Gujarat)
4.	Contact no.	9909888288
5.	Email Id	snjyp44@gmail.com
6.	**Contact details of Consultant**	
7.	Name	Allied Engineering & Consultancy Services
8.	Address	95-S, Kankulia Road, Kolkata-700029
9.	Contact no.	8777749868/ 9433348858
10.	Email Id	**spsengupta13@gmail.com ; dipankarsg13@gmail.com**

Deliberation:

Shri Arun Kumar from M/s. Ultratech Environmental Consultancy and Laboratory remained present during the SEAC meeting on behalf of PP. During the presentation, Committee found that the lease is located at the distance of 0.41 km from the Highway against the criteria of 1 km as per Sustainable Sand Mining Guidelines, 2016. Shri Arun Kumar informed that the Committee that the project was originally allotted to M/s. Allied Engineering & Consultancy Services and then was allotted to their firm by CGM and

hence, they couldn't get enough time to verify the details of the project due to shortage of time. Hence requested to consider the proposal in upcoming SEAC meeting. Committee unanimously decided to defer the proposal and consider the same in upcoming SEAC meeting.

17. ORDINARY SAND MINING, DIST: CHHOTAUDEPUR

Application No	Name of Project	S.No.	Village	Taluka	Dist	Lease Area	Validity of lease	ROM	River	Nearest Human Habitation	End Use	Investment in Rs	Date of Application Received by SEAC
SIA/GJ/MIN/60399/2021	MOTI RASALI ORDINARY SAND BLOCK – 04 (JAYESHKUMAR VISHNUBHAI PATEL)	Block No. 04, Survey No. 86 & 87 Ne Lagu Orsang River Bed	Moti Rasali	Jetpur pavi	Chhotaudepur	2.00.00 Ha	LoI issued on 17.09.2019 for 5 years	33240 MTPA	Orsang	Pratapnagar – 628 m	Construction	Rs.83.41 Lakh	18.05.2021

The project falls under B1 Category – 1(a), i.e. Mining of Minerals as per the provision of EIA Notification, 2006. Project Proponent has applied to obtain Terms of Reference (TOR) for mining of Ordinary Sand.

A. Basic Information of the Project:

1.	Name of Project as per Form I	Moti Rasali Ordinary Sand Block-4
2.	Address of the lease	Survey No.: 86 & 87 Orsang Riverbed Village: Moti Rasali Taluka: Jetpur Pavi District: Chhotaudepur
3.	Name of lease holder	Sh. Jayesh Vishnubhai Patel
4.	Lease area (Ha)	02.00.00Ha
5.	Cluster Details	
	a. Total no. of leases in the cluster	317
	b. No. of TOR granted in cluster	15
	c. No. of EC granted in cluster	186
	d. Total area of the cluster	1203.53.61 Ha
	e. Maximum individual lease area	10.00.00Ha
	f. Minimum individual lease area	00.28.00Ha

<table>
<tr><td>6.</td><td>Validity of lease with the date of expiry</td><td>5Yearsfromthedateofleasedeed</td></tr>
<tr><td>7.</td><td>Rate of Mining (MT/Annum)</td><td>33240 MTPA</td></tr>
<tr><td>8.</td><td>Details of EC obtained (for expansion projects), if any</td><td>NA</td></tr>
<tr><td>9.</td><td>Name of River Bed</td><td>Orsang Riverbed</td></tr>
<tr><td>10.</td><td>Is the river perennial / non-perennial?</td><td>Non-Perennial</td></tr>
<tr><td>11.</td><td>Lease area (submerged / in stream / on dry river bed)</td><td>On dry river bed</td></tr>
<tr><td>12.</td><td>All coordinates of the lease area as per Approved Mining Plan</td><td>
<table>
<tr><th>Pillar No.</th><th>Latitude</th><th>Longitude</th></tr>
<tr><td>4</td><td>22°19'36.99"N</td><td>73°49'28.80"E</td></tr>
<tr><td>5</td><td>22°19’39.33" N</td><td>73°49'33.71"E</td></tr>
<tr><td>12</td><td>22°19'36.13"N</td><td>73°49'39.39"E</td></tr>
<tr><td>13</td><td>22°19'33.59"N</td><td>73°49'31.88"E</td></tr>
</table>
</td></tr>
<tr><td>13.</td><td>Manpower requirement</td><td>15 localpersonswillbeemployeddirectly. while indirectly15peoplewillgetemployment.</td></tr>
<tr><td>14.</td><td>Applicability of CRZ Notification</td><td>NA</td></tr>
<tr><td>15.</td><td>Minimum Setback distance proposed to be maintained from River Bed (m)</td><td>More than 10 mts</td></tr>
<tr><td>16.</td><td>Minimum buffer distance from bridge piers / water intake wells / irrigation structures</td><td>No structures are found.</td></tr>
<tr><td>17.</td><td>Maximum depth of sand removal (3 m or water depth whichever is less)</td><td>3 m</td></tr>
<tr><td>18.</td><td>Width of Riverbed (m)</td><td>1 km</td></tr>
<tr><td>19.</td><td>Average depth of water at lease area (m)</td><td>Dry River bed</td></tr>
<tr><td>20.</td><td>Depth of mining (m)</td><td>UltimateDepth of Mining-3m</td></tr>
<tr><td>21.</td><td>Ground Water Table in meter BGL</td><td>10to 15 m</td></tr>
<tr><td>22.</td><td>Does ground water interfereapproach road exit? (Yes / No)

If yes, status report of CGWA</td><td>No</td></tr>
<tr><td>23.</td><td>Distance between lease and main road</td><td>0.58Km</td></tr>
<tr><td>24.</td><td>Length of kaccha road (m)</td><td>900m-NH 56</td></tr>
<tr><td>25.</td><td>Length of pacca road (m)</td><td></td></tr>
<tr><td>26.</td><td>Plan for making pacca road</td><td>Makingofapproachroadfromminetonearvillageroadonhiredbasis.
Cost of making approach road:-
AverageRs.1,20,000/-
whichisincludedincapitalcostof EMP.</td></tr>
</table>

27.	Source of fresh water	Well/WaterTanker
28.	Water requirement (kLPD)	Total=3.00 KLD
	a. Domestic	0.5
	b. Dust suppression	2.0
	c. Gardening / Green belt development	0.5
	d. Others	-
29.	Whether the Undertaking is submitted for identical information provided in Form I, Approved Mining Plan, Project Details validated by District Geologist, Pre-Feasibility Report, Lease Document, Environment Management Plan and other documents	Attachedhereinthemail

B. Environmental Sensitivities:

Sr NO	**Environmental Sensitivities**	**Actual Distance**	Minimum Distance	**Reference**
1	Residential	Moti Rasali Village-1.09 km Pratapnagar-0.628 km	100 m (When Blasting is not involved)	As per order of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020
	Public buildings	Hospital at Jetpur-3.10 km Govt. Sr. Sec. School at Jetpur-2.84 km		As per order of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020
	Inhabited sites	Nonewithin1Km		
2	A. Major Bridge	NA	1 km	On both sides of the lease (as per Sustainable Sand Mine Guideline of MOEF&CC)
	B. Highway	NH56- 0.9 KM	1 km	On both sides of the lease (as per Sustainable Sand Mine Guideline of MOEF&CC)
OR				

3.	Bridge(Span of Bridge as X)	NA	e. 5X in upstream or 250 m. f. 10X in down stream or 500 m	As per Sustainable Sand Mine Guideline of MOEF&CC
4.	Public Structure including water intake wells	b. NA	e. 5X in upstream or 250 m. f. 10X in down stream or 500 m	As per Sustainable Sand Mine Guideline of MOEF&CC
5.	Depth of working	3 M	1 M or water level whichever is early	As per order of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020)
6.	Set Back Distance to prevent river bank erosion	More than 10 M	10 M or 1/4th of width of river	As per order of Honorable SC dtd 27.02.2020 and Sustainable Sand Mine Guideline of MOEF&CC
7.	Mineable Material per Hectare area for actual mining shall not exceed maximum production	33,240 MTPA	60,000 MTPA Per Hectare	As per Sustainable Sand Mine Guideline of MOEF&CC
8.	Water supply Scheme/Irrigation structure	NA	200 M	As per Sustainable Sand Mine Guideline of MOEF&CC
9.	Railway Line	Pavi Railway station-5.50 km	100 M	As per Sustainable Sand Mine Guideline of MOEF&CC
10.	Reservoir/Canal	NA	100 M	As per CPCB Distance Criteria And order of of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020
11.	Other Road	NA	100 M	As per CPCB Distance Criteria And order of of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020

12.	Eco-Sensitive Zone (if notified)	NA	>1 km / outside the notified Eco-Sensitive Zone	Vide directives of MOEF&CC dtd 16.07.2020
13.	Eco-Sensitive Zone (if not notified)	Jambughoda Wildlife Sanctuary-11.86 km	>1 km and <10 km = Prior Clearance from NBWL is required	Vide directives of MOEF&CC dtd 16.07.2020
14.	Distance of Coastal line from the site	NA	>500 M from HTL	Amended CRZ Notification 2011

C. Details of Mining:

1.	Method of Mining (Manual / Semi-mechanized / Mechanized).	SemiMechanizedOpencastMining
2.	Equipments to be used for Mining bulldozers, hydraulic excavators, JCB, scrapers, loaders, Diesel Pump, etc.)	Excavator/JCB
3.	Whether it includes blasting?	No
4.	Details of Authorized Blasting Agency with date of validity certificate	NA
5.	Procedure / SOP (in brief)	NA
6.	Details of Blasting Parameters in brief	NA
7.	Frequency of blasting	NA
8.	Impact of blasting	NA
9.	Outcome of Vibration study	NA
10.	Blasting Activity Management Plan	NA
11.	Use of any Chemical with quantity	NA
12.	Precautions taken for Human Safety in brief	NA
13.	Crusher provided? If Yes, Measures taken for Air Pollution Control	NA
14.	Compliance of DGMS Guidelines for Blasting	NA
15.	Compliance of Sustainable Sand Mine Guidelines published by MoEFCC in 2016	Yes
16.	Whether Replenishment Rate Study is approved by District Geologist? If yes, conclude in brief	

D. Details of Green Belt Development:

1.	a. Green belt development budget	• Capital Cost:- Rs. 30,000/- • Recurring Cost:- Rs. 15,000/-
	b. Green belt area / location	A green belt area will be developed near block area and 50 trees will be planted and maintained during block period.
	c. No. of trees to be planted	50 trees

	d. Types of trees to be planted	Mainly local species such as Neem, Kada, Mango, Mahuda, Timarva will be planted.

E. Details of Environment Management Plan:

1.	Details of EMP	Impact	Mitigation Measures
	a. Land Environment	• Theleaseareaisgovernment waste land andminingwill leadtochangein landuse pattern.	• Plantation activities to bedonealongthekaccharoad. • The area is hilly terrain,thereforeground surface willnotbechanged.
	b. Water Environment	• Wastewatergeneratedfrom mineoffice	• Waste watergeneratedfrom office building will bedivertedtoseptictank followedbysoak pit
	c. Air Environment	•The sources of air pollution aredustgenerateddueto excavation, loading and unloading ofmaterial,movementofdumpers.Itmaycausepollutioninenvironment. Impact onhealth duetofugitive dustemissions.	• Sprinklingofwaterwillbedoneonroadsaswell asstockpile • Propermaintenanceofvehiclestominimizethepollutants. • Thetruckswillbecovered while moving thematerial. • Developmentofgreen belt/plantationnearby road.
	d. Noise Environment	• Movementof trucks • Operation of machineries	Noise will be produced during transportation of mineral. Necessary steps will be taken as per guidelines given by SEIAA.
	e. Biological Environment	• AsitSandmining project,activitieswillbeconfined to core zone only.Thusnodirectimpactisforeseenonthefl ora&faunaofthesurroundingareawhereasactivitiesrelatedtominingastransportationofmineralsand passage of workers toandfromminingareawill haveanadverse impact.	• Miningactivitieswillberestrictedtodaytimesoth at fauna will not disturbatnight. • Tar road will be used fortransportation to minimizefugitive emissions. • Material will be coveredduringtransportation. • Watersprinklingwillbedoneonhaulroadstocontrolfugitiveemissions.

	f. Human Environment	• Fugitivedustemission couldhavepotentialimpactonhumanhealth	• Personsworkingindustyareatobe providedwithprotectivegearssuchashelmets, dust masks, earmuff etc.; • Regular water sprinklingat dust generating areas,haulroads. Occupational health checkupofallworkersworkinginmineandpulmonary function test forworkersworkingindusty • areas.
	g. Others	-	-
2.	Occupational health & safety measures as per DGMS	• Regularhealthcheckupofalltheworkersworkingin mine.	
3.	Safety measures proposed		
	a. Is First Aid facility provided by PP?	Yes	
	b. Details of PPEs	Helmet,SafetyShoes,HandGloves,DustMask,Ear Plugs	
	c. Whether Registration of Workers under Building and other Construction Workers' (regulation of Employment & Conditions of Service) Act, 1996 and as Beneficiaries with the Gujarat Building and other Construction Workers Welfare Boards is obtained or not?	No	
	d. Insurance of Workers	NA	
	e. Health checkup plan of workers	Healthcheck-upforworkersonceinyear.	

F. Transportation:

1.	No. of vehicles per day carrying Minerals	50
2.	Fugitive dust emission control measures	Sprinkling of water twice in a day

3.	Route plan in brief	Block Area- Approach Road- Village Road- State Highway/NH

G. Financial details of the Project:

1.	Total cost of the project (Lakh)	Rs.83.41 Lakh
	a. Upfront cost (Lakh)	Rs.4.44/-
	b. Performance Security (Lakh)	
	c. Total Royalty (Lakh)	Rs.66.48/-
	d. Weigh Bridge Cost (Lakh)	Rs. 1.0/-
	e. Labor cost equipment (Lakh)	Rs.43.87/-
	f. Equipment protection and implementation cost (Lakh)	Rs.26.25/-
	g. Green Belt Development & maintenance cost (Lakh)	Rs. 4.85/-
	h. Cost of EMP (Lakh)	• CapitalCost:-Rs.95,000/- • RecurringCost:-Rs.60,000 /-
	i. Cost of Safety measures (Lakh)	• RecurringCost:-Rs.28,000/-
	j. Cost of Post-Closure Mine Plan (Lakh)	Rs.1.00/-
2.	Budget allocated for CER (Lakh)	Rs.95,000/-
3.	Is need based survey for CER carried out? (Yes / No) If yes, give details of activities along with Budgetary Outlay	

SN	Activity	Budget		
		1st year	2nd year	3rd year

H. Restoration / Reclamation Plan:

1.	Restoration / Reclamation Details	The area will be reclaimed during monsoon.
2.	Post mining closure plan	Area will be self-reclaimed
3.	Backfilling material and its quantity	NA
4.	Size of void for Rain Water Harvesting after backfilling	NA
5.	Post Closure Liability / Safety aspects and Measures to be taken to avoid wild life and human accidents/ causalities	Financial assurance will be given as a part of mine closure plan
6.	Display of Caution Boards at strategic locations on the periphery of the pit area	Will be done as per GMMCR 2017
7.	Final Use of reservoir/ reclaimed land	Plantation will be carried out as per OM of MoEF dated & CC dated on 14/01/2020

I. Details of Legal Action / Court Case:

1.	Details of Pending Court matter / Public Litigation Cases in any court of Law	NA
2.	Details of Action taken by GPCB, if any	NA
3.	Details of public complaint , if any	NA
4.	Compliance of EC by RO-GPCB or MoEFCC-Bhopal	NA

J. Contact Details:

1.	**Contact details of Applicant**	

	2.	Name	Jayesh Vishnubhai Patel
	3.	Address	H-304, Vande Mataram Homes, Chainpur Road, Opp. Chainpur Bus Station, Near IOC Petrol Pump, New Randip, Ahmedabad, Gujarat
	4.	Contact no.	909946991
	5.	Email Id	jayeshkumarmine2@gmail.com
	6.	**Contact details of Consultant**	
	7.	Name	Allied Engineering & Consultancy Services
	8.	Address	95-S, Kankulia Road, Kolkata-700029
	9.	Contact no.	8777749868/ 9433348858
	10.	Email Id	**spsengupta13@gmail.com ; dipankarsg13@gmail.com**

Deliberation:

Shri Arun Kumar from M/s. Ultratech Environmental Consultancy and Laboratory remained present during the SEAC meeting on behalf of PP. During the presentation, Committee found that the lease is located at the distance of 0.9 km from the Highway against the criteria of 1 km as per Sustainable Sand Mining Guidelines, 2016. Shri Arun Kumar informed that the Committee that the project was originally allotted to M/s. Allied Engineering & Consultancy Services and then was allotted to their firm by CGM and hence, they couldn't get enough time to verify the details of the project due to shortage of time. Hence requested to consider the proposal in upcoming SEAC meeting. Committee unanimously decided to defer the proposal and consider the same in upcoming SEAC meeting.

18. LIMESTONE MINING, DIST: PORBANDAR – TOR Violation

Application No	Name of Project	S.No.	Village	Taluka	Dist	Lease Area	Validity of lease	ROM	Nearest Human Habitation	End Use	Investment in Rs	Date of Application Received by SEAC
SIA/GJ/MIN/62165/2021	Dolatgadh Limestone Mine (ARSHIBHAI V. ODEDRA)	265(P)	Dolatgadh	Ranavav	Porbandar	2.00.00 Ha	Valid up to 09.01.2052	37,285 MTPA	Dolatgadh – 0.13 km	Construction	Rs.75 Lakh	19.05.2021 Existing project

Project Proponent has informed to remain absent during the meeting due to Covid-19 and requested to consider the proposal in upcoming SEAC meeting vide E-Mail dated

25.05.2021. Hence, Committee unanimously decided to defer the proposal and consider the same in upcoming SEAC meeting.

19. ORDINARY SAND MINING, DIST: MEHSANA

Application No	Name of Project	S. No.	Village	Taluka	Dist	Lease Area	Validity of lease	ROM	River	Nearest Human Habitation	End Use	Investment in Rs	Date of Application Received by SEAC
SIA/GJ/MIN/61660/2021	DHANPURA (GHANTU)-5 ORDINARY SAND BLOCK NO. 5 (MAHENDRAKUMAR HARGOVANDBHAI PATEL)	Survey No. 1025 paiki Sabarmati Riverbed	Dhanpura (Ghantu)	Vijapur	Mehsana	4.00.00 Ha	LoI issued on 03.03.2020 for 5 years	61,440 MTPA	Sabarmati	Dhanpura (Ghantu) village – 2.77 km	construction	Rs.81,69,921/-	18.05.2021

The project falls under B1 Category – 1(a), i.e. Mining of Minerals as per the provision of EIA Notification, 2006. Project Proponent has applied to obtain Terms of Reference (TOR) for mining of Ordinary Sand.

A. Basic Information of the Project:

1.	Name of Project as per Form I	Mining of River bed ordinary sand from Dhanpura (Ghantu) Ordinary Sand Block D-5 on the Sabarmati River, near Village: - Dhanpura (Ghantu), Taluka: - Vijapur, District: Mehsana, State: - Gujarat
2.	Address of the lease	Survey No.: 1025 ne lagu Sabarmati Riverbed Village: Dhanpura (Ghantu), Taluka: Vijapur District: Mehsana
3.	Name of lease holder	Shri Mahendrakumar Hargovanbhai Patel
4.	Lease area (Ha)	4.00.00 Ha
5.	Cluster Details	
	a. Total no. of leases in the cluster	182

<table>
<tr><td></td><td>b. No. of TOR granted in cluster</td><td>72</td></tr>
<tr><td></td><td>c. No. of EC granted in cluster</td><td>70</td></tr>
<tr><td></td><td>d. Total area of the cluster</td><td>506.76.61 Ha</td></tr>
<tr><td></td><td>e. Maximum individual lease area</td><td>9.75.00 Ha</td></tr>
<tr><td></td><td>f. Minimum individual lease area</td><td>0.34.50 Ha</td></tr>
<tr><td>6.</td><td>Validity of lease with the date of expiry</td><td>5 years (01-01-2025)</td></tr>
<tr><td>7.</td><td>Rate of Mining (MT/Annum)</td><td>61440 MTPA</td></tr>
<tr><td>8.</td><td>Details of EC obtained (for expansion projects), if any</td><td>NA</td></tr>
<tr><td>9.</td><td>Name of River Bed</td><td>Sabarmati River Bed</td></tr>
<tr><td>10.</td><td>Is the river perennial / non-perennial?</td><td>Non - Perennial</td></tr>
<tr><td>11.</td><td>Lease area (submerged / in stream / on dry river bed)</td><td>4.00.00 Ha</td></tr>
<tr><td>12.</td><td>All coordinates of the lease area as per Approved Mining Plan</td><td><table><tr><th>Point</th><th>Latitude</th><th>Longitude</th></tr><tr><td>A</td><td>23°33'18.8547" N</td><td>72°48'59.5053"E</td></tr><tr><td>B</td><td>23°33'21.8040" N</td><td>72°49'02.6339"E</td></tr><tr><td>C</td><td>23°33'15.7942" N</td><td>72°49'10.9369"E</td></tr><tr><td>D</td><td>23°3 3'12.5640" N</td><td>72°49'07.2736"E</td></tr></table></td></tr>
<tr><td>13.</td><td>Manpower requirement</td><td>10-15</td></tr>
<tr><td>14.</td><td>Applicability of CRZ Notification</td><td>NA</td></tr>
<tr><td>15.</td><td>Minimum Setback distance proposed to be maintained from River Bed (m)</td><td>Minimum Setback distance from riverbank is maintained up to 10m.</td></tr>
<tr><td>16.</td><td>Minimum buffer distance from bridge piers / water intake wells / irrigation structures</td><td>As per mining rules the minimum buffer distance to be maintained is 500 m from the bridge piers/water intake wells/ irrigation structures. All the above said structures are more than 500 m away from lease area</td></tr>
<tr><td>17.</td><td>Maximum depth of sand removal (3 m or water depth whichever is less)</td><td>Maximum Depth of sand removal 1 m</td></tr>
<tr><td>18.</td><td>Width of Riverbed (m)</td><td>362 m</td></tr>
<tr><td>19.</td><td>Average depth of water at lease area (m)</td><td>In the Summer season water is not available in the mining area. In the monsoon season 3-4 m water is available in this area.</td></tr>
<tr><td>20.</td><td>Depth of mining (m)</td><td>1 m</td></tr>
<tr><td>21.</td><td>Ground Water Table in meter BGL</td><td>20-25 m</td></tr>
<tr><td>22.</td><td>Does ground water interfere approach road exit? (Yes / No)

If yes, status report of CGWA</td><td>No</td></tr>
<tr><td>23.</td><td>Distance between lease and main road</td><td>7.85 km</td></tr>
<tr><td>24.</td><td>Length of kaccha road (m)</td><td>1.08 km</td></tr>
<tr><td>25.</td><td>Length of pacca road (m)</td><td>7.85 km</td></tr>
<tr><td>26.</td><td>Plan for making pacca road</td><td>No</td></tr>
<tr><td>27.</td><td>Source of fresh water</td><td>Water Tankers</td></tr>
<tr><td>28.</td><td>Water requirement (kLPD)</td><td></td></tr>
<tr><td></td><td>a. Domestic</td><td>1 KLD</td></tr>
<tr><td></td><td>b. Dust suppression</td><td>2 KLD</td></tr>
<tr><td></td><td>c. Gardening / Green belt development</td><td>1 KLD</td></tr>
<tr><td></td><td>d. others</td><td>-</td></tr>
</table>

29.	Whether the Undertaking is submitted for identical information provided in Form I, Approved Mining Plan, Project Details validated by District Geologist, Pre-Feasibility Report, Lease Document, Environment Management Plan and other documents	Yes

B. Environmental Sensitivities:

Sr NO	Environmental Sensitivities	Actual Distance	Minimum Distance	Reference
1.	Residential	Dhanpura (Ghantu) – 2.77 km, South-west	100 m (When Blasting is not involved)	As per order of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020
	Public buildings	Mahudi Temple 7.85 km, South-west		
	Inhabited sites	Not in 10 km of study area		As per order of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020
2.	A. Major Bridge	Not in 10 km of study area	1 km	On both sides of the lease (as per Sustainable Sand Mine Guideline of MOEF&CC)
	B. Highway	State Highway No. 138 – 9.07 km, West	1 km	On both sides of the lease (as per Sustainable Sand Mine Guideline of MOEF&CC)
OR				
3.	Bridge(Span of Bridge as X)	Not in 10 km of project study area	g. 5X in upstream or 250 m. h. 10X in down stream or 500 m	As per Sustainable Sand Mine Guideline of MOEF&CC
4.	Public Structure including water intake wells	Not in 10 km of project study area	g. 5X in upstream or 250 m. h. 10X in down stream or	As per Sustainable Sand Mine Guideline of MOEF&CC

			500 m	
5.	Depth of working	1 m	1 M or water level whichever is early	As per order of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020)
6.	Set Back Distance to prevent river bank erosion	10 m	10 M or 1/4th of width of river	As per order of Honorable SC dtd 27.02.2020 and Sustainable Sand Mine Guideline of MOEF&CC
7.	Mineable Material per Hectare area for actual mining shall not exceed maximum production	61440 MTPA	60,000 MTPA Per Hectare	As per Sustainable Sand Mine Guideline of MOEF&CC
8.	Water supply Scheme/Irrigation structure	Not applicable	200 M	As per Sustainable Sand Mine Guideline of MOEF&CC
9.	Railway Line	Vijapur Railway Station – 7.22 km, West	100 M	As per Sustainable Sand Mine Guideline of MOEF&CC
10.	Reservoir/Canal	NA	100 M	As per CPCB Distance Criteria And order of of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020
11.	Other Road	State Highway 138 – 9.07 km, West	100 M	As per CPCB Distance Criteria And order of of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020
12.	Eco-Sensitive Zone (if notified)	Not in 10 km of project area	>1 km / outside the notified Eco-Sensitive Zone	Vide directives of MOEF&CC dtd 16.07.2020
13.	Eco-Sensitive Zone (if not notified)	Not in 10 km of project area	>1 km and <10 km = Prior Clearance from NBWL is required	Vide directives of MOEF&CC dtd 16.07.2020

14.	Distance of Coastal line from the site	NA	>500 M from HTL	Amended CRZ Notification 2011

C. Details of Mining:

1.	Method of Mining (Manual / Semi-mechanized / Mechanized).	Open cast, Semi-mechanized
2.	Equipments to be used for Mining bulldozers, hydraulic excavators, JCB, scrapers, loaders, Diesel Pump, etc.)	Hydraulic excavator will be used for excavation and loading of sand. Trucks and dumper will be used for transportation.
3.	Whether it includes blasting?	No Blasting will be done, because Ordinary Sand is in Soft Nature.
4.	Details of Authorized Blasting Agency with date of validity certificate	NA
5.	Procedure / SOP (in brief)	NA
6.	Details of Blasting Parameters in brief	NA
7.	Frequency of blasting	NA
8.	Impact of blasting	NA
9.	Outcome of Vibration study	NA
10.	Blasting Activity Management Plan	NA
11.	Use of any Chemical with quantity	NA
12.	Precautions taken for Human Safety in brief	NA
13.	Crusher provided? If Yes, Measures taken for Air Pollution Control	NA
14.	Compliance of DGMS Guidelines for Blasting	NA
15.	Compliance of Sustainable Sand Mine Guidelines published by MoEFCC in 2016	YES
16.	Whether Replenishment Rate Study is approved by District Geologist? If yes, conclude in brief	YES

D. Details of Green Belt Development:

1.	a. Green belt development budget	1,00,000
	b. Green belt area / location	Green belt will be developed along river bank, haul road and nearby villages
	c. No. of trees to be planted	1,000 @ Rs.100/- per sample in year (Total amount Rs.1,00,000/).
	d. Types of trees to be planted	Plantation of species as per EC conditions Peepal, Mango, Bel, Amla, Amaltas, Banyan, Neem , Bahada, Acacia etc. and others as suggested by SPCB/Forest Department

E. Details of Environment Management Plan:

1.	**Details of EMP**	**Impact**	**Mitigation Measures**
	a. Land Environment	Temporary changes in the land use due to excavation	Mining will be done by Opencast Semi Mechanized method. There will be temporary changes in land

			use due to excavation process; however the area will be naturally reclaimed monsoon seasons
	b. Water Environment	There are no competing users. The total water requirement will be 4 KLD for dust suppression (2 KLD), domestic (1 KLD) and plantation (1 KLD), which will be sourced from water tanker.	Sewage water will be passed into soak pit of septic tanks. Discharge of sewage or other effluents to water or the land is not expected.
	c. Air Environment	Dust emission during excavation and transportation, vehicular movement	Water sprinkling will be done on the roads regularly Care will be taken to prevent spillage by covering the carrying vehicles with tarpaulin and sprinkling of water, if in dry form Proper tuning of Engine of vehicles will be ensured to keep the gas emissions from the vehicles within the prescribed norms. Plantation of trees along the roads will be done to attenuate the impact of dust in the nearby villages /surrounding area.
	d. Noise Environment	Noise generated from extraction, exploration of minerals & from vehicles (dumpers, trucks and excavation etc.)	Regular maintenance of machinery will keep the generated noise level below the minimum prescribed limits Minimum use of Horns at the village area Timely maintenance of vehicles and their silencers to minimize vibration and sound Phasing out of old and worn out trucks. Awareness will be imparted prior to mining operations to all the operators & other persons concerned, so that they must be aware of detrimental effects of noise pollution
	e. Biological Environment	Minimum disturbance to local flora and fauna due to mining activity.	Green belt plantation will be done along the haul roads

	f. Human Environment	Employment generation	Occupational health check-up for the workers shall be carried out Safety training from time to time to all staff Providing Helmet, Safety Shoes & Hand Gloves Various amenities like drinking water, rest shelter & toilet will be provided to workers.
	g. Others		
2.	Occupational health & safety measures as per DGMS	Occupational health safety measures will be taken as per DGMS	
3.	Safety measures proposed		
	a. Is First Aid facility provided by PP?	First aid facility will be provided by the project proponent	
	b. Details of PPEs	Providing Helmet, Safety Shoes & Hand Gloves	
	c. Whether Registration of Workers under Building and other Construction Workers' (regulation of Employment & Conditions of Service) Act, 1996 and as Beneficiaries with the Gujarat Building and other Construction Workers Welfare Boards is obtained or not?	yes	
	d. Insurance of Workers	Occupational health check-up for the workers shall be carried out and insurance will be done	
	e. Health checkup plan of workers	Occupational health check-up for the workers shall be carried out	

F. Transportation:

1.	No. of vehicles per day carrying Minerals	18 vehicles per day
2.	Fugitive dust emission control measures	Regular control of fugitive dust emissions from the source. Water spraying on haul roads, loading and at transfer points. Truck mounted water tanker to be used from dust suppression during mining and transportation
3.	Route plan in brief	Mined out ordinary sand will be transported through the pucca road

G. Financial details of the Project:

1.	Total cost of the project (Lakh)	Rs. 81,69,921/-
	a. Upfront cost (Lakh)	Rs. 1,61,219/-

	b. Performance Security (Lakh)	Rs. 8,06,093/-
	c. Total Royalty (Lakh)	Rs. 24,57,600/-
	d. Weigh Bridge Cost (Lakh)	Rs. 4,50,000/-
	e. Labor cost equipment (Lakh)	Rs. 15,75,000/-
	f. Equipment protection and implementation cost (Lakh)	Rs. 20,00,000/-
	g. Green Belt Development & maintenance cost (Lakh)	Rs.1,00,000/- capital cost Rs.20,000/- recurring cost
	h. Cost of EMP (Lakh)	Rs.3,00,000/-
	i. Cost of Safety measures (Lakh)	Rs.3,00,000/-
	j. Cost of Post-Closure Mine Plan (Lakh)	-
2.	Budget allocated for CER (Lakh)	Rs.3,00,000/- (Three Lakh) as principal amount and 50,000/- (Fifty thousand) as recurring amount has been allotted for Environmental management plan. It is proposing to invest ~Rs.3,00,000/- for social environmental development over a period of next 3 years, to be considered for implementing the activities in the context of the local scenario of the area as a part of EMP. Proposed Heads are as below.
3.	Is need based survey for CER carried out? (Yes / No) If yes, give details of activities along with Budgetary Outlay	

SN	Activity	Budget		
		1st year	2nd year	3rd year
	Plantation of Trees in Nearby Area	40,000	30,000	30,000
	Drinking water in villages	20.000	20,000	20,000
	Health checkup twice year (in winter & summer) & supply of medicine	50,000	50,000	40,000
	total	1,10,000	1,00,000	90,000

H. Restoration / Reclamation Plan:

1.	Restoration / Reclamation Details	The area will get naturally reclaimed due the Replenishment of sand in the monsoon seasons.
2.	Post mining closure plan	At the end of current Five Years mining plan maximum depth of pit will be 3 m. The excavated pits will be replenished by the sand transported by river flow every year in

		monsoon. The river bed will remain as river bed only. So there is no need for reclamation or progressive closure of mine of the stage.
3.	Backfilling material and its quantity	The area will get naturally reclaimed due the Replenishment of sand in the monsoon seasons.
4.	Size of void for Rain Water Harvesting after backfilling	-
5.	Post Closure Liability / Safety aspects and Measures to be taken to avoid wild life and human accidents/ causalities	-
6.	Display of Caution Boards at strategic locations on the periphery of the pit area	-
7.	Final Use of reservoir/ reclaimed land	-

I. Details of Legal Action / Court Case:

1.	Details of Pending Court matter / Public Litigation Cases in any court of Law	NA
2.	Details of Action taken by GPCB, if any	NA
3.	Details of public complaint , if any	NA
4.	Compliance of EC by RO-GPCB or MoEFCC-Bhopal	NA

J. Contact Details:

1.	**Contact details of Applicant**	
2.	Name	Shri Mahendrakumar Hargovanbhai Patel
3.	Address	R/O – 7, M.K. Bunglows, OPP – Sahjanand Gurukul, Koteshwar, Gandhinagar, Gujarat - 380005
4.	Contact no.	+91 9727773465
5.	Email Id	patelratnesh177@gmail.com
6.	**Contact details of Consultant**	
7.	Name	ULTRATECH ENVIRONMENTAL CONSULTANCY AND LABORATORY(Gazetted By MoEF) Accredited EIA Consultant Organization by NABET, QCI NABET/EIA/1720/RA0094
8.	Address	Head Office : 206, Jai Commercial Complex, Khopat Thane (W), Maharashtra
9.	Contact no.	9674488198/8587053336
10.	Email Id	Kolkata@ultratech.in

Deliberation:

- Shri Arun Kumar from M/s. Ultratech Environmental Consultancy and Laboratory remained present during the SEAC meeting on behalf of PP and he has submitted the Authorization letter of PP for same.

- Committee deliberated on method of mining, depth of mining, replenishment rate, instruments to be used for mining, no. of working hours and no. of workers, transportation of the mined mineral etc.
- EMP, CER activities, green belt development etc. was also discussed during the meeting.
- It is noted that proposed lease area is in dry river bed and does not include in stream mining.

After scoping for the aforementioned proposal, committee decided to consider the proposal under B1 category &Hon'ble National Green Tribunal Order dated 13 September 2018 in view. It was decided to recommend TOR approved by SEIAA on 07/03/2019 for **river bed sand mining** for conducting the EIA study to be done for cluster situation evaluating cumulative impact of the mining leases in cluster considering 10 Km radius from the periphery of the mine lease area including public hearing including projectspecific TOR as per **Annexure – IV**.

20. ORDINARY SAND MINING, DIST: SABARKANTHA

Application No	Name of Project	S. No.	Village	Taluka	Dist	Lease Area	Validity of lease	ROM	River	Nearest Human Habitation	End Use	Investment in Rs	Date of Application Received by SEAC
SIA/GJ/MIN/61594/2021	VAGHPUR ORDINARY SAND BLOCK NO. 3 (CHIRAG KEVADIYA)	Survey No. 642 nelagu Sabarmati Riverbed paiky	Vaghpur	Prantij	Sabarkantha	2.80.00 Ha	LoI issued on 24.01.2020 for 5 years	44,352 MTPA	Sabarmati	Vaghpur village – 1.31 km	Construction	Rs.68.74 Lakh	18.05.2021

The project falls under B1 Category – 1(a), i.e. Mining of Minerals as per the provision of EIA Notification, 2006. Project Proponent has applied to obtain Terms of Reference (TOR) for mining of Ordinary Sand.

A. Basic Information of the Project:

1.	Name of Project as per Form I	Mining of River bed ordinary sand from VAGHPUR BLOCK – 03 on the Sabarmati River, near Village: - Vaghpur, Taluka: - Prantij, District: - Sabarkantha, State: - Gujarat
2.	Address of the lease	Survey No.: 642 ne lagu Sabarmati Riverbed Village: Vaghpur, Taluka: Prantij District: Sabarkantha
3.	Name of lease holder	Shri Chiragbhai Kevadiya
4.	Lease area (Ha)	2.80.00 Ha
5.	Cluster Details	
	a. Total no. of leases in the cluster	182
	b. No. of TOR granted in cluster	72
	c. No. of EC granted in cluster	70
	d. Total area of the cluster	506.76.61 Ha
	e. Maximum individual lease area	9.75.00 Ha
	f. Minimum individual lease area	0.34.50 Ha
6.	Validity of lease with the date of expiry	5 years (01-01-2025)
7.	Rate of Mining (MT/Annum)	44352 MTPA
8.	Details of EC obtained (for expansion projects), if any	NA
9.	Name of River Bed	Sabarmati River Bed
10.	Is the river perennial / non-perennial?	Non - Perennial
11.	Lease area (submerged / in stream / on dry river bed)	2.80.00 Ha
12.	All coordinates of the lease area as per Approved Mining Plan	

Point	Latitude	Longitude
A	23°29'01.91"N	72°48'42.09"E
B	23°29'04.48"N	72°48'39.68"E
C	23°29'.8.68"N	72°48'48.10"E
D	23°29'06.91"N	72°48'51.30"E

13.	Manpower requirement	10-15
14.	Applicability of CRZ Notification	NA
15.	Minimum Setback distance proposed to be maintained from River Bed (m)	Minimum Setback distance from riverbank is maintained up to 10m.
16.	Minimum buffer distance from bridge piers / water intake wells / irrigation structures	As per mining rules the minimum buffer distance to be maintained is 500 m from the bridge piers/water intake wells/ irrigation structures. All the above said structures are more than 500 m away from lease area
17.	Maximum depth of sand removal (3 m or water depth whichever is less)	Maximum Depth of sand removal 1 m
18.	Width of Riverbed (m)	737 m
19.	Average depth of water at lease area (m)	In the Summer season water is not available in the mining area. In the monsoon season 3-4 m water is available in this area.
20.	Depth of mining (m)	1 m
21.	Ground Water Table in meter BGL	20-25 m

22.	Does ground water interfere approach road exit? (Yes / No) If yes, status report of CGWA	No
23.	Distance between lease and main road	2.47 km
24.	Length of kaccha road (m)	1.53 km
25.	Length of pacca road (m)	2.47 km
26.	Plan for making pacca road	No
27.	Source of fresh water	Water Tankers
28.	Water requirement (kLPD)	
	a. Domestic	1 KLD
	b. Dust suppression	2 KLD
	c. Gardening / Green belt development	1 KLD
	d. others	-
29.	Whether the Undertaking is submitted for identical information provided in Form I, Approved Mining Plan, Project Details validated by District Geologist, Pre-Feasibility Report, Lease Document, Environment Management Plan and other documents	Yes

B. Environmental Sensitivities:

Sr NO	Environmental Sensitivities	Actual Distance	Minimum Distance	Reference
1.	Residential	Vaghpur Village 1.31 km, South-west	100 m (When Blasting is not involved)	As per order of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020
	Public buildings	Mahudi Temple 3.18 km, North-west Atul Poly Technic College 5.10 km, North-west		As per order of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020
	Inhabited sites	Not in 10 km of study area		
2.	A. Major Bridge	Lakroda Dam – 4.29 km, South	1 km	On both sides of the lease (as per Sustainable Sand Mine Guideline of MOEF&CC)

	B. Highway	State Highway No. 138 – 4.46 km, South	1 km	On both sides of the lease (as per Sustainable Sand Mine Guideline of MOEF&CC)
OR				
3.	Bridge(Span of Bridge as X)	Not in 10 km of project study area	i. 5X in upstream or 250 m. j. 10X in down stream or 500 m	As per Sustainable Sand Mine Guideline of MOEF&CC
4.	Public Structure including water intake wells	Not in 10 km of project study area	i. 5X in upstream or 250 m. j. 10X in down stream or 500 m	As per Sustainable Sand Mine Guideline of MOEF&CC
5.	Depth of working	1 m	1 M or water level whichever is early	As per order of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020)
6.	Set Back Distance to prevent river bank erosion	10 m	10 M or 1/4th of width of river	As per order of Honorable SC dtd 27.02.2020 and Sustainable Sand Mine Guideline of MOEF&CC
7.	Mineable Material per Hectare area for actual mining shall not exceed maximum production	44352 MTPA	60,000 MTPA Per Hectare	As per Sustainable Sand Mine Guideline of MOEF&CC
8.	Water supply Scheme/Irrigation structure	Not applicable	200 M	As per Sustainable Sand Mine Guideline of MOEF&CC
9.	Railway Line	Kanbha Railway Station – 9.01	100 M	As per Sustainable Sand Mine Guideline of MOEF&CC

		km, North-west		
10.	Reservoir/Canal	Canal - 3.39 km, South	100 M	As per CPCB Distance Criteria And order of of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020
11.	Other Road	National Highawy 8 – 7.38 km, East Mahudi – Pilvai Road – 2.47 km, West	100 M	As per CPCB Distance Criteria And order of of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020
12.	Eco-Sensitive Zone (if notified)	Not in 10 km of project area	>1 km / outside the notified Eco-Sensitive Zone	Vide directives of MOEF&CC dtd 16.07.2020
13.	Eco-Sensitive Zone (if not notified)	Not in 10 km of project area	>1 km and <10 km = Prior Clearance from NBWL is required	Vide directives of MOEF&CC dtd 16.07.2020
14.	Distance of Coastal line from the site	NA	>500 M from HTL	Amended CRZ Notification 2011

C. Details of Mining:

1.	Method of Mining (Manual / Semi-mechanized / Mechanized).	Open cast, Semi-mechanized
2.	Equipments to be used for Mining bulldozers, hydraulic excavators, JCB, scrapers, loaders, Diesel Pump, etc.)	Hydraulic excavator will be used for excavation and loading of sand. Trucks and dumper will be used for transportation.
3.	Whether it includes blasting?	No Blasting will be done, because Ordinary Sand is in Soft Nature.
4.	Details of Authorized Blasting Agency with date of validity certificate	NA
5.	Procedure / SOP (in brief)	NA
6.	Details of Blasting Parameters in brief	NA
7.	Frequency of blasting	NA
8.	Impact of blasting	NA
9.	Outcome of Vibration study	NA
10.	Blasting Activity Management Plan	NA
11.	Use of any Chemical with quantity	NA
12.	Precautions taken for Human Safety in brief	NA

13.	Crusher provided? If Yes, Measures taken for Air Pollution Control	NA
14.	Compliance of DGMS Guidelines for Blasting	NA
15.	Compliance of Sustainable Sand Mine Guidelines published by MoEFCC in 2016	YES
16.	Whether Replenishment Rate Study is approved by District Geologist? If yes, conclude in brief	YES

D. Details of Green Belt Development:

1.	a. Green belt development budget	1,00,000
	b. Green belt area / location	Green belt will be developed along river bank, haul road and nearby villages
	c. No. of trees to be planted	1,000 @ Rs.100/- per sample in year (Total amount Rs.1,00,000/).
	d. Types of trees to be planted	Plantation of species as per EC conditions Peepal, Mango, Bel, Amla, Amaltas, Banyan, Neem , Bahada, Acacia etc. and others as suggested by SPCB/Forest Department

E. Details of Environment Management Plan:

1.	**Details of EMP**	**Impact**	**Mitigation Measures**
	a. Land Environment	Temporary changes in the land use due to excavation	Mining will be done by Opencast Semi Mechanized method. There will be temporary changes in land use due to excavation process; however the area will be naturally reclaimed monsoon seasons
	b. Water Environment	There are no competing users. The total water requirement will be 4 KLD for dust suppression (2 KLD), domestic (1 KLD) and plantation (1 KLD), which will be sourced from water tanker.	Sewage water will be passed into soak pit of septic tanks. Discharge of sewage or other effluents to water or the land is not expected.
	c. Air Environment	Dust emission during excavation and transportation, vehicular movement	Water sprinkling will be done on the roads regularly Care will be taken to prevent spillage by covering the carrying vehicles with tarpaulin and sprinkling of water, if in dry form Proper tuning of Engine of vehicles will be ensured to keep the gas emissions from the vehicles within the prescribed norms.

			Plantation of trees along the roads will be done to attenuate the impact of dust in the nearby villages /surrounding area.
	d. Noise Environment	Noise generated from extraction, exploration of minerals & from vehicles (dumpers, trucks and excavation etc.)	Regular maintenance of machinery will keep the generated noise level below the minimum prescribed limits Minimum use of Horns at the village area Timely maintenance of vehicles and their silencers to minimize vibration and sound Phasing out of old and worn out trucks. Awareness will be imparted prior to mining operations to all the operators & other persons concerned, so that they must be aware of detrimental effects of noise pollution
	e. Biological Environment	Minimum disturbance to local flora and fauna due to mining activity.	Green belt plantation will be done along the haul roads
	f. Human Environment	Employment generation	Occupational health check-up for the workers shall be carried out Safety training from time to time to all staff Providing Helmet, Safety Shoes & Hand Gloves Various amenities like drinking water, rest shelter & toilet will be provided to workers.
	g. Others		
2.	Occupational health & safety measures as per DGMS	Occupational health safety measures will be taken as per DGMS	
3.	Safety measures proposed		
	a. Is First Aid facility provided by PP?	First aid facility will be provided by the project proponent	
	b. Details of PPEs	Providing Helmet, Safety Shoes & Hand Gloves	
	c. Whether Registration of Workers under Building and other Construction Workers' (regulation of Employment &	yes	

	Conditions of Service) Act, 1996 and as Beneficiaries with the Gujarat Building and other Construction Workers Welfare Boards is obtained or not?	
	d. Insurance of Workers	Occupational health check-up for the workers shall be carried out and insurance will be done
	e. Health checkup plan of workers	Occupational health check-up for the workers shall be carried out

F. Transportation:

1.	No. of vehicles per day carrying Minerals	18 vehicles per day
2.	Fugitive dust emission control measures	Regular control of fugitive dust emissions from the source. Water spraying on haul roads, loading and at transfer points. Truck mounted water tanker to be used from dust suppression during mining and transportation
3.	Route plan in brief	Mined out ordinary sand will be transported through the pucca road

G. Financial details of the Project:

1.	Total cost of the project (Lakh)	Rs. 68,74,347/-
	a. Upfront cost (Lakh)	Rs. 1,94,641/-
	b. Performance Security (Lakh)	Rs. 17,74,000/-
	c. Total Royalty (Lakh)	Rs. 17,94,240/-
	d. Weigh Bridge Cost (Lakh)	To be installed in Vaghpur Block 2
	e. Labor cost equipment (Lakh)	Rs. 14,64,500/-
	f. Equipment protection and implementation cost (Lakh)	Rs. 17,50,000/-
	g. Green Belt Development & maintenance cost (Lakh)	Rs.1,00,000/- capital cost Rs.20,000/- recurring cost
	h. Cost of EMP (Lakh)	Rs.3,00,000/-
	i. Cost of Safety measures (Lakh)	Rs.3,00,000/-
	j. Cost of Post-Closure Mine Plan (Lakh)	-
2.	Budget allocated for CER (Lakh)	Rs.3,00,000/- (Three Lakh) as principal amount and 50,000/- (Fifty thousand) as recurring amount has been allotted for Environmental management plan. It is proposing to invest ~Rs.3,00,000/- for social environmental development over a period of next 3 years, to be considered for implementing the activities in the context of the local scenario of the area as a part of EMP. Proposed Heads are as below.

3.	Is need based survey for CER carried out? (Yes / No) If yes, give details of activities along with Budgetary Outlay	SN	Activity	Budget		
				1st year	2nd year	3rd year
			Plantation of Trees in Nearby Area	40,000	30,000	30,000
			Drinking water in villages	20.000	20,000	20,000
			Health checkup twice year (in winter & summer) & supply of medicine	50,000	50,000	40,000
			total	1,10,000	1,00,000	90,000

H. Restoration / Reclamation Plan:

1.	Restoration / Reclamation Details	The area will get naturally reclaimed due the Replenishment of sand in the monsoon seasons.
2.	Post mining closure plan	At the end of current Five Years mining plan maximum depth of pit will be 3 m. The excavated pits will be replenished by the sand transported by river flow every year in monsoon. The river bed will remain as river bed only. So there is no need for reclamation or progressive closure of mine of the stage.
3.	Backfilling material and its quantity	The area will get naturally reclaimed due the Replenishment of sand in the monsoon seasons.
4.	Size of void for Rain Water Harvesting after backfilling	-
5.	Post Closure Liability / Safety aspects and Measures to be taken to avoid wild life and human accidents/ causalities	-
6.	Display of Caution Boards at strategic locations on the periphery of the pit area	-
7.	Final Use of reservoir/ reclaimed land	-

I. Details of Legal Action / Court Case:

1.	Details of Pending Court matter / Public Litigation Cases in any court of Law	NA
2.	Details of Action taken by GPCB, if any	NA
3.	Details of public complaint , if any	NA

4.	Compliance of EC by RO-GPCB or MoEFCC-Bhopal	NA

J. Contact Details:

1.	**Contact details of Applicant**	
2.	Name	Shri Chiragbhai Kevadiya
3.	Address	R/O – Rushikesh Bunglows, Hariom Nagar, Ghodasar, Smruti Mandir, Ahmedabad Gujarat - 380050.
4.	Contact no.	9537298009
5.	Email Id	darshit.savani1994@gmail.com
6.	**Contact details of Consultant**	
7.	Name	ULTRATECH ENVIRONMENTAL CONSULTANCY AND LABORATORY(Gazetted By MoEF) Accredited EIA Consultant Organization by NABET, QCI NABET/EIA/1720/RA0094
8.	Address	Head Office : 206, Jai Commercial Complex, Khopat Thane (W), Maharashtra
9.	Contact no.	9674488198/8587053336
10.	Email Id	Kolkata@ultratech.in

Deliberation:

- Shri Arun Kumar from M/s. Ultratech Environmental Consultancy and Laboratory remained present during the SEAC meeting on behalf of PP and he has submitted the Authorization letter of PP for same.
- Committee deliberated on method of mining, depth of mining, replenishment rate, instruments to be used for mining, no. of working hours and no. of workers, transportation of the mined mineral etc.
- EMP, CER activities, green belt development etc. was also discussed during the meeting.
- It is noted that proposed lease area is in dry river bed and does not include in stream mining.

After scoping for the aforementioned proposal, committee decided to consider the proposal under B1 category &Hon'ble National Green Tribunal Order dated 13 September 2018 in view. It was decided to recommend TOR approved by SEIAA on 07/03/2019 for **river bed sand mining** for conducting the EIA study to be done for cluster situation evaluating cumulative impact of the mining leases in cluster considering 10 Km radius from the periphery of the mine lease area including public hearing along with projectspecific TOR as per **Annexure – IV**.

21. ORDINARY SAND MINING, DIST: SABARKANTHA

Application No	Name of Project	S.No.	Village	Taluka	Dist	Lease Area	Validity of lease	ROM	River	Nearest Human Habitation	End Use	Investment in Rs	Date of Application Received by SEAC
SIA/GJ/MIN/59904/2021	VAGHPUR ORDINARY SAND BLOCK NO. 29 (SAVITABEN RAMANBHAI MACHHI)	Survey No. 642 Ne Lagu Sabarmati Riverbed paiki	Vaghpur	Prantij	Sabarkantha	2.80.00 ha	LoI issued on 24.01.2020 for 5 years	44856 MTPA	Sabarmati	Vaghpur – 2.27 km	Construction	Rs.74,58,902/-	17.05.2021

The project falls under B1 Category – 1(a), i.e. Mining of Minerals as per the provision of EIA Notification, 2006. Project Proponent has applied to obtain Terms of Reference (TOR) for mining of Ordinary Sand.

A. Basic Information of the Project:

1.	Name of Project as per Form I	Mining of River bed ordinary sand from VAGHPUR BLOCK – 29 on the Sabarmati River, near Village: - Vaghpur, Taluka: - Prantij, District: - Sabarkantha, State: - Gujarat
2.	Address of the lease	Survey No.: 642 ne lagu Sabarmati Riverbed paiki Village: Vaghpur, Taluka: Prantij District: Sabarkantha
3.	Name of lease holder	M/s Bhavin Construction C/O Smt. Savitaben Machhi
4.	Lease area (Ha)	2.80.00 Ha
5.	Cluster Details	
	a. Total no. of leases in the cluster	182
	b. No. of TOR granted in cluster	72
	c. No. of EC granted in cluster	70
	d. Total area of the cluster	506.76.61 Ha
	e. Maximum individual lease area	9.75.00 Ha
	f. Minimum individual lease area	0.34.50 Ha
6.	Validity of lease with the date of expiry	5 years (01-01-2025)
7.	Rate of Mining (MT/Annum)	44856 MTPA
8.	Details of EC obtained (for expansion projects), if any	NA
9.	Name of River Bed	Sabarmati River Bed
10.	Is the river perennial / non-perennial?	Non - Perennial

<table>
<tr><td>11.</td><td>Lease area (submerged / in stream / on dry river bed)</td><td>2.80.00 Ha</td></tr>
<tr><td>12.</td><td>All coordinates of the lease area as per Approved Mining Plan</td><td>
<table>
<tr><th>Point</th><th>Latitude</th><th>Longitude</th></tr>
<tr><td>A</td><td>23°29'55.08"N</td><td>72°49'21.79"E</td></tr>
<tr><td>B</td><td>23°29'55.26"N</td><td>72°49'18.66"E</td></tr>
<tr><td>C</td><td>23°30'56.38"N</td><td>72°49'16.58"E</td></tr>
<tr><td>D</td><td>23°30'00.02"N</td><td>72°49'15.64"E</td></tr>
<tr><td>E</td><td>23°30'02.07"N</td><td>72°49'21.84"E</td></tr>
</table>
</td></tr>
<tr><td>13.</td><td>Manpower requirement</td><td>10-15</td></tr>
<tr><td>14.</td><td>Applicability of CRZ Notification</td><td>NA</td></tr>
<tr><td>15.</td><td>Minimum Setback distance proposed to be maintained from River Bed (m)</td><td>Minimum Setback distance from riverbank is maintained up to 10m.</td></tr>
<tr><td>16.</td><td>Minimum buffer distance from bridge piers / water intake wells / irrigation structures</td><td>As per mining rules the minimum buffer distance to be maintained is 500 m from the bridge piers/water intake wells/ irrigation structures. All the above said structures are more than 500 m away from lease area</td></tr>
<tr><td>17.</td><td>Maximum depth of sand removal (3 m or water depth whichever is less)</td><td>Maximum Depth of sand removal 1 m</td></tr>
<tr><td>18.</td><td>Width of Riverbed (m)</td><td>500 m</td></tr>
<tr><td>19.</td><td>Average depth of water at lease area (m)</td><td>In the Summer season water is not available in the mining area. In the monsoon season 3-4 m water is available in this area.</td></tr>
<tr><td>20.</td><td>Depth of mining (m)</td><td>1 m</td></tr>
<tr><td>21.</td><td>Ground Water Table in meter BGL</td><td>20 m</td></tr>
<tr><td>22.</td><td>Does ground water interfere approach road exit? (Yes / No)

If yes, status report of CGWA</td><td>No</td></tr>
<tr><td>23.</td><td>Distance between lease and main road</td><td>5.21 km</td></tr>
<tr><td>24.</td><td>Length of kaccha road (m)</td><td>1.22 km</td></tr>
<tr><td>25.</td><td>Length of pacca road (m)</td><td>5.21 km</td></tr>
<tr><td>26.</td><td>Plan for making pacca road</td><td>No</td></tr>
<tr><td>27.</td><td>Source of fresh water</td><td>Water Tankers</td></tr>
<tr><td rowspan="5">28.</td><td>Water requirement (kLPD)</td><td></td></tr>
<tr><td>a. Domestic</td><td>1 KLD</td></tr>
<tr><td>b. Dust suppression</td><td>2 KLD</td></tr>
<tr><td>c. Gardening / Green belt development</td><td>1 KLD</td></tr>
<tr><td>d. others</td><td>-</td></tr>
<tr><td>29.</td><td>Whether the Undertaking is submitted for identical information provided in Form I, Approved Mining Plan, Project Details validated by District Geologist, Pre-Feasibility Report, Lease Document, Environment Management Plan and other documents</td><td>Yes</td></tr>
</table>

B. Environmental Sensitivities:

Sr NO	Environmental Sensitivities	Actual Distance	Minimum Distance	Reference
1.	Residential	Vaghpur Village 2.28 km, South	100 m (When Blasting is not involved)	As per order of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020
	Public buildings	Mahudi Temple 4.09 km, South-west Atul Poly Technic College 5.81 km, West		As per order of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020
	Inhabited sites	Not in 10 km of study area		
2.	A. Major Bridge	Lakroda Dam – 5.86 km – South	1 km	On both sides of the lease (as per Sustainable Sand Mine Guideline of MOEF&CC)
	B. Highway	State Highway No. 138 direction 6.1 km, South	1 km	On both sides of the lease (as per Sustainable Sand Mine Guideline of MOEF&CC)
OR				
3.	Bridge(Span of Bridge as X)	Not in 10 km of project study area	k. 5X in upstream or 250 m. l. 10X in down stream or 500 m	As per Sustainable Sand Mine Guideline of MOEF&CC
4.	Public Structure including water intake wells	Not in 10 km of project study area	k. 5X in upstream or 250 m. l. 10X in down stream or 500 m	As per Sustainable Sand Mine Guideline of MOEF&CC

5.	Depth of working	1 m	1 M or water level whichever is early	As per order of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020)
6.	Set Back Distance to prevent river bank erosion	10 m	10 M or 1/4th of width of river	As per order of Honorable SC dtd 27.02.2020 and Sustainable Sand Mine Guideline of MOEF&CC
7.	Mineable Material per Hectare area for actual mining shall not exceed maximum production	44856 MTPA	60,000 MTPA Per Hectare	As per Sustainable Sand Mine Guideline of MOEF&CC
8.	Water supply Scheme/Irrigation structure	Not applicable	200 M	As per Sustainable Sand Mine Guideline of MOEF&CC
9.	Railway Line	Salal Railway Station 7.58 East	100 M	As per Sustainable Sand Mine Guideline of MOEF&CC
10.	Reservoir/Canal	Canal – 5.82 km, South	100 M	As per CPCB Distance Criteria And order of of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020
11.	Other Road	National Highway – 6.80 km, South-east	100 M	As per CPCB Distance Criteria And order of of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020
12.	Eco-Sensitive Zone (if notified)	Not in 10 km of project area	>1 km / outside the notified Eco-Sensitive Zone	Vide directives of MOEF&CC dtd 16.07.2020
13.	Eco-Sensitive Zone (if not notified)	Not in 10 km of project area	>1 km and <10 km = Prior Clearance from NBWL is required	Vide directives of MOEF&CC dtd 16.07.2020

14.	Distance of Coastal line from the site	NA	>500 M from HTL	Amended CRZ Notification 2011

C. Details of Mining:

1.	Method of Mining (Manual / Semi-mechanized / Mechanized).	Open cast, Semi-mechanized
2.	Equipments to be used for Mining bulldozers, hydraulic excavators, JCB, scrapers, loaders, Diesel Pump, etc.)	Hydraulic excavator will be used for excavation and loading of sand. Trucks and dumper will be used for transportation.
3.	Whether it includes blasting?	No Blasting will be done, because Ordinary Sand is in Soft Nature.
4.	Details of Authorized Blasting Agency with date of validity certificate	NA
5.	Procedure / SOP (in brief)	NA
6.	Details of Blasting Parameters in brief	NA
7.	Frequency of blasting	NA
8.	Impact of blasting	NA
9.	Outcome of Vibration study	NA
10.	Blasting Activity Management Plan	NA
11.	Use of any Chemical with quantity	NA
12.	Precautions taken for Human Safety in brief	NA
13.	Crusher provided? If Yes, Measures taken for Air Pollution Control	NA
14.	Compliance of DGMS Guidelines for Blasting	NA
15.	Compliance of Sustainable Sand Mine Guidelines published by MoEFCC in 2016	YES
16.	Whether Replenishment Rate Study is approved by District Geologist? If yes, conclude in brief	YES

D. Details of Green Belt Development:

1.	a. Green belt development budget	1,00,000
	b. Green belt area / location	Green belt will be developed along river bank, haul road and nearby villages
	c. No. of trees to be planted	1,000 @ Rs.100/- per sample in year (Total amount Rs.1,00,000/).
	d. Types of trees to be planted	Plantation of species as per EC conditions Peepal, Mango, Bel, Amla, Amaltas, Banyan, Neem , Bahada, Acacia etc. and others as suggested by SPCB/Forest Department

E. Details of Environment Management Plan:

1.	**Details of EMP**	**Impact**	**Mitigation Measures**
	a. Land Environment	Temporary changes in the land use due	Mining will be done by Opencast Semi

		to excavation	Mechanized method. There will be temporary changes in land use due to excavation process; however the area will be naturally reclaimed monsoon seasons
	b. Water Environment	There are no competing users. The total water requirement will be 4 KLD for dust suppression (2 KLD), domestic (1 KLD) and plantation (1 KLD), which will be sourced from water tanker.	Sewage water will be passed into soak pit of septic tanks. Discharge of sewage or other effluents to water or the land is not expected.
	c. Air Environment	Dust emission during excavation and transportation, vehicular movement	Water sprinkling will be done on the roads regularly Care will be taken to prevent spillage by covering the carrying vehicles with tarpaulin and sprinkling of water, if in dry form Proper tuning of Engine of vehicles will be ensured to keep the gas emissions from the vehicles within the prescribed norms. Plantation of trees along the roads will be done to attenuate the impact of dust in the nearby villages /surrounding area.
	d. Noise Environment	Noise generated from extraction, exploration of minerals & from vehicles (dumpers, trucks and excavation etc.)	Regular maintenance of machinery will keep the generated noise level below the minimum prescribed limits Minimum use of

			Horns at the village area Timely maintenance of vehicles and their silencers to minimize vibration and sound Phasing out of old and worn out trucks. Awareness will be imparted prior to mining operations to all the operators & other persons concerned, so that they must be aware of detrimental effects of noise pollution
	e. Biological Environment	Minimum disturbance to local flora and fauna due to mining activity.	Green belt plantation will be done along the haul roads
	f. Human Environment	Employment generation	Occupational health check-up for the workers shall be carried out Safety training from time to time to all staff Providing Helmet, Safety Shoes & Hand Gloves Various amenities like drinking water, rest shelter & toilet will be provided to workers.
	g. Others		
2.	Occupational health & safety measures as per DGMS	Occupational health safety measures will be taken as per DGMS	
3.	Safety measures proposed		
	a. Is First Aid facility provided by PP?	First aid facility will be provided by the project proponent	
	b. Details of PPEs	Providing Helmet, Safety Shoes & Hand Gloves	
	c. Whether Registration of Workers under Building and other Construction Workers' (regulation of Employment & Conditions of	yes	

	Service) Act, 1996 and as Beneficiaries with the Gujarat Building and other Construction Workers Welfare Boards is obtained or not?	
	d. Insurance of Workers	Occupational health check-up for the workers shall be carried out and insurance will be done
	e. Health checkup plan of workers	Occupational health check-up for the workers shall be carried out

F. Transportation:

1.	No. of vehicles per day carrying Minerals	18 vehicles per day
2.	Fugitive dust emission control measures	Regular control of fugitive dust emissions from the source. Water spraying on haul roads, loading and at transfer points. Truck mounted water tanker to be used from dust suppression during mining and transportation
3.	Route plan in brief	Mined out ordinary sand will be transported through the pucca road

G. Financial details of the Project:

1.	Total cost of the project (Lakh)	Rs. 74,58,902/-
	a. Upfront cost (Lakh)	Rs. 2,51,194/-
	b. Performance Security (Lakh)	Rs. 12,55,968/-
	c. Total Royalty (Lakh)	Rs. 17,94,240/-
	d. Weigh Bridge Cost (Lakh)	To be installed in Vaghpur Block 27
	e. Labor cost equipment (Lakh)	Rs. 16,87,500/-
	f. Equipment protection and implementation cost (Lakh)	Rs. 17,50,000/-
	g. Green Belt Development & maintenance cost (Lakh)	Rs.1,00,000/- capital cost Rs.20,000/- recurring cost
	h. Cost of EMP (Lakh)	Rs.3,00,000/-
	i. Cost of Safety measures (Lakh)	Rs.3,00,000/-
	j. Cost of Post-Closure Mine Plan (Lakh)	-
2.	Budget allocated for CER (Lakh)	Rs.3,00,000/- (Three Lakh) as principal amount and 50,000/- (Fifty thousand) as recurring amount has been allotted for Environmental management plan. It is proposing to invest ~Rs.3,00,000/- for social environmental development over a period of next 3 years, to be considered for implementing the activities in the context of the local scenario of the area as a part of EMP. Proposed Heads are as below.

3.	Is need based survey for CER carried out? (Yes / No) If yes, give details of activities along with Budgetary Outlay	SN	Activity	Budget		
				1st year	2nd year	3rd year
			Plantation of Trees in Nearby Area	40,000	30,000	30,000
			Drinking water in villages	20.000	20,000	20,000
			Health checkup twice year (in winter & summer) & supply of medicine	50,000	50,000	40,000
			total	1,10,000	1,00,000	90,000

H. Restoration / Reclamation Plan:

1.	Restoration / Reclamation Details	The area will get naturally reclaimed due the Replenishment of sand in the monsoon seasons.
2.	Post mining closure plan	At the end of current Five Years mining plan maximum depth of pit will be 3 m. The excavated pits will be replenished by the sand transported by river flow every year in monsoon. The river bed will remain as river bed only. So there is no need for reclamation or progressive closure of mine of the stage.
3.	Backfilling material and its quantity	The area will get naturally reclaimed due the Replenishment of sand in the monsoon seasons.
4.	Size of void for Rain Water Harvesting after backfilling	-
5.	Post Closure Liability / Safety aspects and Measures to be taken to avoid wild life and human accidents/ causalities	-
6.	Display of Caution Boards at strategic locations on the periphery of the pit area	-
7.	Final Use of reservoir/ reclaimed land	-

I. Details of Legal Action / Court Case:

1.	Details of Pending Court matter / Public Litigation Cases in any court of Law	NA
2.	Details of Action taken by GPCB, if any	NA
3.	Details of public complaint , if any	NA

4.	Compliance of EC by RO-GPCB or MoEFCC-Bhopal	NA

J. Contact Details:

1.	**Contact details of Applicant**	
2.	Name	M/s. Bhavin Construction C/O Smt. Savitaben Machhi
3.	Address	Daniya post, Champeli, Taluka- Lunawada, District- Mahisagar, Gujarat.
4.	Contact no.	9099797077
5.	Email Id	msavitbenmine@gmail.com
6.	**Contact details of Consultant**	
7.	Name	ULTRATECH ENVIRONMENTAL CONSULTANCY AND LABORATORY(Gazetted By MoEF) Accredited EIA Consultant Organization by NABET, QCI NABET/EIA/1720/RA0094
8.	Address	Head Office : 206, Jai Commercial Complex, Khopat Thane (W), Maharashtra
9.	Contact no.	9674488198/8587053336
10.	Email Id	Kolkata@ultratech.in

Deliberation:

- Shri Arun Kumar from M/s. Ultratech Environmental Consultancy and Laboratory remained present during the SEAC meeting on behalf of PP and he has submitted the Authorization letter of PP for same.
- Committee deliberated on method of mining, depth of mining, replenishment rate, instruments to be used for mining, no. of working hours and no. of workers, transportation of the mined mineral etc.
- EMP, CER activities, green belt development etc. was also discussed during the meeting.
- It is noted that proposed lease area is in dry river bed and does not include in stream mining.

After scoping for the aforementioned proposal, committee decided to consider the proposal under B1 category &Hon'ble National Green Tribunal Order dated 13 September 2018 in view. It was decided to recommend TOR approved by SEIAA on 07/03/2019 for **river bed sand mining** for conducting the EIA study to be done for cluster situation evaluating cumulative impact of the mining leases in cluster considering 10 Km radius from the periphery of the mine lease area including public hearing including projectspecific TOR as per **Annexure – IV**.

22. BLACK TRAP MINING, DIST: ARAVALLI

Application No	Name of Project	S.No.	Village	Taluka	Dist	Lease Area	Validity of lease	ROM	Nearest Human Habitation	End Use	Investment in Rs	Date of Application Received by SEAC
SIA/GJ/MIN/62105/2021	BHANUVANT RAMANLAL SHAH	Vatrak River paiki	Vatrakgadh	Bayad	Aravalli	2.35.00 Ha	LoI issued on 29.06.1996	78,948 MTPA	Vatrakgadh – 1.02 km	Construction	Rs.98.23 Lakh	19.05.2021 Existing project

The project falls under B1 Category – 1(a), i.e. Mining of Minerals as per the provision of EIA Notification, 2006. Project Proponent has applied to obtain Terms of Reference (TOR) for mining of Black Trap.

A. Basic Information of the Project:

1.	Name of Project as per Form I	Mining of Black Trap from Vatrak River paiki, Village: -Vatrakgadh, Taluka: -Bayad, District: -Aravalli, State: -Gujarat - 383325.
2.	Address of the lease	Survey No.: Vatrak River paiki Village: Vatrakgadh Taluka: Bayad District: Aravalli
3.	Name of lease holder	M/s. Trimurti Quarry Works, C/o Bhanuvant Ramanlal Shah
4.	Lease area (Ha)	2.35.00 Ha
5.	Cluster Details	
	a. Total no. of leases in the cluster	4
	b. No. of TOR granted in cluster	0
	c. No. of EC granted in cluster	0
	d. Total area of the cluster	8.35.00 Ha
	e. Maximum individual lease area	2.35.00 Ha
	f. Minimum individual lease area	1.00.00 Ha
6.	Validity of lease with the date of expiry	10 Year
7.	Rate of Mining (MT/Annum)	78948 MTPA
8.	Details of EC obtained (for expansion projects), if any	NA
9.	Name of River Bed	NA
10.	Is the river perennial / non-perennial?	Non – Perennial
11.	Lease area (submerged / in stream / on dry river bed)	2.35.00 Ha

12.	All coordinates of the lease area as per Approved Mining Plan	<table><tr><th>Point</th><th>Latitude</th><th>Longitude</th></tr><tr><td>A</td><td>23°15'18.72"N</td><td>73°10'34.39"E</td></tr><tr><td>B</td><td>23°15'20.27"N</td><td>73°10'41.7"E</td></tr><tr><td>C</td><td>23°15'21.28"N</td><td>73°10'46.45"E</td></tr><tr><td>D</td><td>23°15'18.86"N</td><td>73°10'46.78"E</td></tr><tr><td>E</td><td>23°15'16.81"N</td><td>73°10'34.39"E</td></tr></table>
13.	Manpower requirement	12-16
14.	Applicability of CRZ Notification	NA
15.	Depth of mining (m)	32 m
16.	Ground Water Table in meter BGL	80-85 m
17.	Does ground water interfere approach road exit? (Yes / No) If yes, status report of CGWA	No
18.	Distance between lease and main road	3.41 km
19.	Length of kaccha road (m)	0.24 km
20.	Length of pacca road (m)	3.41 km
21.	Plan for making pacca road	No
22.	Source of fresh water	Water Tankers
23.	Water requirement (kLPD)	6 KLD
	a. Domestic	1 KLD
	b. Dust suppression	3 KLD
	c. Gardening / Green belt development	2 KLD
	d. Others	-
24.	Whether the Undertaking is submitted for identical information provided in Form I, Approved Mining Plan, Project Details validated by District Geologist, Pre-Feasibility Report, Lease Document, Environment Management Plan and other documents	Yes

B. Environmental Sensitivities:

Sr No.	Environmental Sensitivities	Actual Distance	Minimum Distance	Reference
1.	Residential	Vatrakgadh – 1.02 km, North	100 m (When Blasting is not involved) Or 200 m (When Blasting is	As per CPCB Distance Criteria And order of of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020
	Public buildings	Not available in 100 m		
	Inhabited sites	Not available in 100 m		
	Protected monuments,	Not available in 100 m		
	Heritage sites	Not available in 100 m		
	National / State	State Highway No. 69-		

	Highway	4.03 km, South, State Highway No. 59-3.41 km, East	involved)	
	District roads	State Highway No. 59-3.41 km, East		
	Public roads	State Highway No. 68-8.88 km, North-west		
	Railway line / area	Railway Station, Bayad-4.53 km, South-east		
	Ropeway or Ropeway trestle or station	Not available		
	Bridges	4.7 km, East		
	Dams	Vatrak 24.07 km, North-east		
	Reservoirs	Vatrak Reservoir - 24.10 km, North-east		
	River	Lease Located on - Vatrak River		
	Canal	NA		
	Lakes	Dhansura Lake - 11.17 km North-east		
	Tanks	NA		
2.	Eco-Sensitive Zone (if notified)	NA	>1 km / outside the notified Eco-Sensitive Zone	Vide directives of MOEF&CC dtd 16.07.2020
3.	Eco-Sensitive Zone (if not notified)	NA	>1 km and <10 km = Prior Clearance from NBWL is required	Vide directives of MOEF&CC dtd 16.07.2020
4.	Distance of Coastal line from the site	NA	>500 M from HTL	Amended CRZ Notification 2011

C. Details of Mining:

1.	Method of Mining (Manual / Semi-mechanized / Mechanized).	Open cast, Semi-mechanized
2.	Equipments to be used for Mining bulldozers, hydraulic excavators, JCB, scrapers, loaders, Diesel Pump, etc.)	Hydraulic excavator will be used for excavation and loading of Black Trap. Trucks and dumper will be used for transportation. Black Trap is transported by truck and dumpers. i. Drilling Machines- The proposed

		mining envisages exploitation of minerals by excavator with deep hole drilling and blasting. However, jack hammer drilling & blasting may be performed whenever required. One jack hammer shall be deployed. ii. Loading Equipment- Hydraulic excavator and JCB iii. Transport from mine head to the destination- Mineral will be transported by hired trucks. The machine will be deployed on hired basis.
3.	Whether it includes blasting?	Controlled blasting will be done (if requires)
4.	Details of Authorized Blasting Agency with date of validity certificate	As suggested & recommended by CGM
5.	Procedure / SOP (in brief)	This is open cast mine. Semi mechanised method of mining will be applied to explore black trap on contract basis by M/s. Priyank Quarry as per market demand. Stata is hard and compact, drilling and blasting are required to break the strata. The DTH drill machine with capacity of drilling hole of 100 mm diameter with portable compressor will be used. The staggered drilling hole pattern will be used with spacing of 2.5 m and depth 5.5 m and subgrade drilling of 0.5 m with class II explosive, boosters, excel and short delay detonators.
6.	Details of Blasting Parameters in brief	Length of shot holes – 1.5 m Diameter of shot hole – 32 mm Burden 0.8 m Spacing 1 m Pattern of shot hole V pattern with multiple rows as per strata.
7.	Frequency of blasting	As per market demand
8.	Impact of blasting	This is for short time does not have significant impact.
9.	Outcome of Vibration study	The aim of blasting in the proposed project is to give optimum fragmentation with minimum vibration. There is not significant vibration that affects human settlement or environmental settling.
10.	Blasting Activity Management Plan	Submitted during EIA study
11.	Use of any Chemical with quantity	Explosive Primer Explosive – 3.0 kg/hole Booster - 9.0 kg/hole Total – 12 kg/ hole Short delay detonator – 01 Excel - 11
12.	Precautions taken for Human Safety in brief	Mining will be carried out under the supervision of mining engineer/ manager who are certified to conduct mine-operation.

		These are safety taken as precautionary measures: All safety precautions and provisions as per MMR 1961 rules Mining operation as per approved mine plan Regular testing and maintenance of all mining equipment as per manufacturersguideline and grantee figure. Periodic checking fire- fighting equipment and fire inhouse - training of workers working in the project. Entry ban of unauthorized persons at work place in mine Checking ang regular maintenance of garland drainage earthen bunds to avoid any inflow of surface water into mine- pit. As a part of disaster management plan, rescue team will be formed by imparting specialized training in case on emergency for rescue of worker.
13.	Crusher provided? If Yes, Measures taken for Air Pollution Control	No
14.	Compliance of DGMS Guidelines for Blasting	Comped and permission will be taken prior to the blasting.
15.	Compliance of Sustainable Non-Sand Mine Guidelines published by MoEFCC in 2016	YES
16.	Whether Replenishment Rate Study is approved by District Geologist? If yes, conclude in brief	YES

D. Details of Green Belt Development:

1.	a. Green belt development budget	1,00,000
	b. Green belt area / location	Green belt will be developed along river bank, haul road and nearby villages
	c. No. of trees to be planted	1,000 @ Rs.100/- per sample in year (Total amount Rs.1,00,000/).
	d. Types of trees to be planted	Plantation of species as per EC conditions Peepal, Mango, Bel, Amla, Amaltas, Banyan, Neem , Bahada, Acacia etc. and others as suggested by SPCB/Forest Department

E. Details of Environment Management Plan:

1.	**Details of EMP**	**Impact**	**Mitigation Measures**
	a. Land Environment	Temporary changes in the land use due to excavation	Mining will be done by Opencast Semi Mechanized method. There will be changes in land use due to excavation process; Area is backfilled as per approved mining plan.
	b. Water Environment	There are no competing	Sewage water will be passed into

		users. The total water requirement will be 6 KLD for dust suppression (3 KLD), domestic (1 KLD) and plantation (2 KLD), which will be sourced from water tanker.	soak pit of septic tanks. Discharge of sewage or other effluents to water or the land is not expected.
	c. Air Environment	Dust emission during excavation and transportation, vehicular movement	Water sprinkling will be done on the roads regularly Care will be taken to prevent spillage by covering the carrying vehicles with tarpaulin and sprinkling of water, if in dry form Proper tuning of Engine of vehicles will be ensured to keep the gas emissions from the vehicles within the prescribed norms. Plantation of trees along the roads will be done to attenuate the impact of dust in the nearby villages /surrounding area.
	d. Noise Environment	Noise generated from extraction, exploration of minerals & from vehicles (dumpers, trucks and excavation etc.)	Regular maintenance of machinery will keep the generated noise level below the minimum prescribed limits Minimum use of Horns at the village area Timely maintenance of vehicles and their silencers to minimize vibration and sound Phasing out of old and worn out trucks. Awareness will be imparted prior to mining operations to all the operators & other persons concerned, so that they must be aware of detrimental effects of noise pollution
	e. Biological Environment	Minimum disturbance to local flora and fauna due to mining activity.	Green belt plantation will be done along the haul roads
	f. Human Environment	Employment generation	Occupational health check-up for the workers shall be carried out Safety training from time to time to all staff

			Providing Helmet, Safety Shoes & Hand Gloves Various amenities like drinking water, rest shelter & toilet will be provided to workers.
	g. Others		
2.	Occupational health & safety measures as per DGMS	Occupational health safety measures will be taken as per DGMS	
3.	Safety measures proposed		
	a. Is First Aid facility provided by PP?	First aid facility will be provided by the project proponent	
	b. Details of PPEs	Providing Helmet, Safety Shoes & Hand Gloves	
	c. Whether Registration of Workers under Building and other Construction Workers' (regulation of Employment & Conditions of Service) Act, 1996 and as Beneficiaries with the Gujarat Building and other Construction Workers Welfare Boards is obtained or not?	yes	
	d. Insurance of Workers	Occupational health check-up for the workers shall be carried out and insurance will be done	
	e. Health checkup plan of workers	Occupational health check-up for the workers shall be carried out	

F. Transportation:

1.	No. of vehicles per day carrying Minerals	15 vehicles per day
2.	Fugitive dust emission control measures	Regular control of fugitive dust emissions from the source. Water spraying on haul roads, loading and at transfer points. Truck mounted water tanker to be used from dust suppression during mining and transportation
3.	Route plan in brief	Mined out blacktrap will be transported through the pucca road

G. Financial details of the Project:

1.	Total cost of the project (Lakh)	Rs. 98,22,660/-
	a. Upfront cost (Lakh)	--
	b. Performance Security (Lakh)	Rs. 3,00,000/-
	c. Total Royalty (Lakh)	Rs. 35,52,660/-
	d. Weigh Bridge Cost (Lakh)	Rs. 4,50,000/-
	e. Labor cost equipment (Lakh)	Rs. 27,00,000/-
	f. Equipment protection and	Rs. 21,00,000/-

	implementation cost (Lakh)	
	g. Green Belt Development & maintenance cost (Lakh)	Rs.1,00,000/- capital cost Rs.20,000/- recurring cost
	h. Cost of EMP (Lakh)	Rs.3,00,000/-
	i. Cost of Safety measures (Lakh)	Rs.3,00,000/-
	j. Cost of Post-Closure Mine Plan (Lakh)	-
2.	Budget allocated for CER (Lakh)	Rs.3,00,000/- (Three Lakh) as principal amount and 50,000/- (Fifty thousand) as recurring amount has been allotted for Environmental management plan. It is proposing to invest ~Rs.3,00,000/- for social environmental development over a period of next 3 years, to be considered for implementing the activities in the context of the local scenario of the area as a part of EMP. Proposed Heads are as below.
3.	Is need based survey for CER carried out? (Yes / No) If yes, give details of activities along with Budgetary Outlay	

SN	Activity	Budget		
		1st year	2nd year	3rd year
	Plantation of Trees in Nearby Area	40,000	30,000	30,000
	Drinking water in villages	20.000	20,000	20,000
	Health checkup twice year (in winter & summer) & supply of medicine	50,000	50,000	40,000
	total	1,10,000	1,00,000	90,000

H. Restoration / Reclamation Plan:

1.	Restoration / Reclamation Details	Part of excavated land will be backfilled/reclaimed with overburden & local species will be planted.
2.	Post mining closure plan	At the end of current Five Years mining plan maximum depth of pit will be 32 m. The excavated pits will be backfilled. The local species will be planted
3.	Backfilling material and its quantity	Part of excavated land will be backfilled/reclaimed with overburden & local species will be planted.
4.	Size of void for Rain Water Harvesting after backfilling	-
5.	Post Closure Liability / Safety aspects and	-

	Measures to be taken to avoid wild life and human accidents/ causalities	
6.	Display of Caution Boards at strategic locations on the periphery of the pit area	-
7.	Final Use of reservoir/ reclaimed land	-

I. Details of Legal Action / Court Case:

1.	Details of Pending Court matter / Public Litigation Cases in any court of Law	NA
2.	Details of Action taken by GPCB, if any	NA
3.	Details of public complaint , if any	NA
4.	Compliance of EC by RO-GPCB or MoEFCC-Bhopal	NA

J. Contact Details:

1.	**Contact details of Applicant**	
2.	Name	M/s Trimurti Quarry Works, C/o Bhanuvant Ramanlal Shah
3.	Address	Village & Post office - Vatrakgadh, Taluka- Bayad, District- Aravalli State-Gujarat– 383325
4.	Contact no.	+91 9978915891
5.	Email Id	ravipatel6200@gmail.com
6.	**Contact details of Consultant**	
7.	Name	ULTRATECH ENVIRONMENTAL CONSULTANCY AND LABORATORY(Gazetted By MoEF) Accredited EIA Consultant Organization by NABET, QCI NABET/EIA/1720/RA0094
8.	Address	Head Office : 206, Jai Commercial Complex, Khopat Thane (W), Maharashtra
9.	Contact no.	9674488198/9558117469
10.	Email Id	Kolkata@ultratech.in

Deliberation:

- Shri Arun Kumar from M/s. Ultratech Environmental Consultancy and Laboratory remained present during the SEAC meeting on behalf of PP and he has submitted the Authorization letter of PP for same.
- Committee deliberated on method of mining, rate of mining, instruments to be used for mining, no. of working hours and no. of workers, transportation of the mined mineral etc.
- EMP, CER activities, green belt development etc. was also discussed during the meeting.
- While deliberating on the distance of Environmental Sensitivities from the lease area, Committee noted that the distance of public buildings, inhabited sites, protected monuments, heritage sites etc. was not given properly.

Hence, Committee unanimously decided to consider the proposal in upcoming SEAC meeting upon submission of below mentioned details:

a. Complete details of the distance of Environmental Sensitivities from the lease area
b. Justification for the Compliance of Order of Hon'ble NGT Principal Bench (WZ) in the matter of O.A. No.85/2018, dated 30.09.2020 in the matter of Sabarmati Majoor Kamdar Sahkari Mandli Ltd. Vs. State of Gujarat & Ors. w.r.t. the distance criteria of the lease from river Vatrak
c. Production details validated by District Geologist since grant of the lease, i.e. since 1996
d. Acknowledgement slip of earlier EC / TOR application made, if any

23. BLACK TRAP MINING, DIST: ARAVALLI

Application No	Name of Project	S.No.	Village	Taluka	Dist	Lease Area	Validity of lease	ROM	Nearest Human Habitation	End Use	Investment in Rs	Date of Application Received by SEAC
SIA/GJ/MIN/62062/2021	PRIYANK QUARRY WORKS PRIVATE LIMITED	96	Alvakampa	Bayad	Aravalli	1.00.00 Ha	GH/QL/4630/2426 to 2429, dated 17.04.2007 for 10 years	68,421 MTPA	Bayad – 6.67 km	Construction	Rs.91.48 Lakh	19.05.2021 Existing project

The project falls under B1 Category – 1(a), i.e. Mining of Minerals as per the provision of EIA Notification, 2006. Project Proponent has applied to obtain Terms of Reference (TOR) for mining of Black Trap.

A. Basic Information of the Project:

1.	Name of Project as per Form I	Mining of Black Trap from Survey No. 96 near Village: -Alvakampa, Taluka: -Bayad, District: -Aravalli, State: -Gujarat.
2.	Address of the lease	Survey No.: 96 Village: Alvakampa Taluka: Bayad District: Aravalli
3.	Name of lease holder	Priyank Quarry Works
4.	Lease area (Ha)	1.00.00 Ha
5.	Cluster Details	
	a. Total no. of leases in the cluster	25

<table>
<tr><td></td><td>b. No. of TOR granted in cluster</td><td>20</td></tr>
<tr><td></td><td>c. No. of EC granted in cluster</td><td>20</td></tr>
<tr><td></td><td>d. Total area of the cluster</td><td>45.63.32 Ha</td></tr>
<tr><td></td><td>e. Maximum individual lease area</td><td>4.30.00 Ha</td></tr>
<tr><td></td><td>f. Minimum individual lease area</td><td>0.46.54 Ha</td></tr>
<tr><td>6.</td><td>Validity of lease with the date of expiry</td><td>10 years</td></tr>
<tr><td>7.</td><td>Rate of Mining (MT/Annum)</td><td>68421 MTPA</td></tr>
<tr><td>8.</td><td>Details of EC obtained (for expansion projects), if any</td><td>NA</td></tr>
<tr><td>9.</td><td>Name of River Bed</td><td>NA</td></tr>
<tr><td>10.</td><td>Is the river perennial / non-perennial?</td><td>NA</td></tr>
<tr><td>11.</td><td>Lease area (submerged / in stream / on dry river bed)</td><td>1.00.00 Ha</td></tr>
<tr><td>12.</td><td>All coordinates of the lease area as per Approved Mining Plan</td><td><table><tr><th>Point</th><th>Latitude</th><th>Longitude</th></tr><tr><td>A</td><td>23°17' 6.6768" N</td><td>73°13'31.6548" E</td></tr><tr><td>B</td><td>23°17' 5.2092" N</td><td>73°13'32.6948" E</td></tr><tr><td>C</td><td>23°17' 2.9935" N</td><td>73°13'26.0035" E</td></tr><tr><td>D</td><td>23°17' 4.7628" N</td><td>73°13'25.7845" E</td></tr></table></td></tr>
<tr><td>13.</td><td>Manpower requirement</td><td>10-15</td></tr>
<tr><td>14.</td><td>Applicability of CRZ Notification</td><td>NA</td></tr>
<tr><td>15.</td><td>Minimum Setback distance proposed to be maintained from River Bed (m)</td><td>NA</td></tr>
<tr><td>16.</td><td>Minimum buffer distance from bridge piers / water intake wells / irrigation structures</td><td>NA</td></tr>
<tr><td>17.</td><td>Maximum depth of sand removal (3 m or water depth whichever is less)</td><td>NA</td></tr>
<tr><td>18.</td><td>Width of Riverbed (m)</td><td>NA</td></tr>
<tr><td>19.</td><td>Average depth of water at lease area (m)</td><td>NA</td></tr>
<tr><td>20.</td><td>Ground Water Table in meter BGL</td><td>50 m</td></tr>
<tr><td>21.</td><td>Does ground water interfere approach road exit? (Yes / No)

If yes, status report of CGWA</td><td>No</td></tr>
<tr><td>22.</td><td>Distance between lease and main road</td><td>1.74 km</td></tr>
<tr><td>23.</td><td>Length of kaccha road (m)</td><td>1.08 km</td></tr>
<tr><td>24.</td><td>Length of pacca road (m)</td><td>1.86 km</td></tr>
<tr><td>25.</td><td>Plan for making pacca road</td><td>No</td></tr>
<tr><td>26.</td><td>Source of fresh water</td><td>Water Tankers</td></tr>
<tr><td>27.</td><td>Water requirement (kLPD)</td><td>6 KLD</td></tr>
<tr><td></td><td>a. Domestic</td><td>1 KLD</td></tr>
<tr><td></td><td>b. Dust suppression</td><td>3 KLD</td></tr>
<tr><td></td><td>c. Gardening / Green belt development</td><td>2 KLD</td></tr>
<tr><td></td><td>d. Others</td><td>-</td></tr>
</table>

28.	Whether the Undertaking is submitted for identical information provided in Form I, Approved Mining Plan, Project Details validated by District Geologist, Pre-Feasibility Report, Lease Document, Environment Management Plan and other documents	Yes

B. Environmental Sensitivities:

Sr No.	Environmental Sensitivities	Actual Distance	Minimum Distance	Reference
1.	Residential	Bayad – 6.67 km, South-west	100 m (When Blasting is not involved) Or 200 m (When Blasting is involved)	As per CPCB Distance Criteria And order of of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020
	Public buildings	Not available in 100 m		
	Inhabited sites	Not available in 100 m		
	Protected monuments,	Not available in 100 m		
	Heritage sites	Not available in 100 m		
	National / State Highway	NH 145 – 1.74 km, West SH 59 – 6.13 km, North		
	District roads	0.28 km, West		
	Public roads	SH -59: 6.13 km, N		
	Railway line / area	1.91 km, West		
	Ropeway or Ropeway trestle or station	Not available		
	Bridges	3.40 km, South		
	Dams	18.71 km, North-east		
	Reservoirs	18.72, North-east		
	River	2.24 km, South		
	Canal	205.2 m, South		
	Lakes	NA		
	Tanks	NA		

2.	Eco-Sensitive Zone (if notified)	NA	>1 km / outside the notified Eco-Sensitive Zone	Vide directives of MOEF&CC dtd 16.07.2020
3.	Eco-Sensitive Zone (if not notified)	NA	>1 km and <10 km = Prior Clearance from NBWL is required	Vide directives of MOEF&CC dtd 16.07.2020
4.	Distance of Coastal line from the site	NA	>500 M from HTL	Amended CRZ Notification 2011

C. Details of Mining:

1.	Method of Mining (Manual / Semi-mechanized / Mechanized).	Open cast, Semi-mechanized
2.	Equipments to be used for Mining bulldozers, hydraulic excavators, JCB, scrapers, loaders, Diesel Pump, etc.)	Hydraulic excavator with dumper and few manual tools like crow-bar, pick-axe, spade etc. will be used with occasional adoption of drilling and blasting. Black Trap is transported by truck and dumpers. i. Drilling Machines - The proposed mining envisages exploitation of minerals by excavator with deep hole drilling and blasting. However, Jack hammer drilling & blasting may be performed whenever required. One jack hammer shall be deployed. ii. Loading Equipment- hydraulic excavator and JCB iii. Transport from mine head to the destination - Mineral will be transported by hired trucks. * The machineries will be deployed on hired basis.
3.	Whether it includes blasting?	Controlled blasting will be done (if requires)
4.	Details of Authorized Blasting Agency with date of validity certificate	As suggested & recommended by CGM

5.	Procedure / SOP (in brief)	This is open cast mine. Semi mechanised method of mining will be applied to explore black trap on contract basis by M/s. Priyank Quarry as per market demand. Stata is hard and compact, drilling and blasting are required to break the strata. The DTH drill machine with capacity of drilling hole of 100 mm diameter with portable compressor will be used. The staggered drilling hole pattern will be used with spacing of 2.5 m and depth 5.5 m and subgrade drilling of 0.5 m with class II explosive, boosters, excel and short delay detonators.
6.	Details of Blasting Parameters in brief	Length of shot holes – 5.0 m Diameter of shot hole – 100 mm Burden 2 m Spacing 2.5 m Pattern of shot hole V pattern with multiple rows as per strata.
7.	Frequency of blasting	As per market demand
8.	Impact of blasting	This is for short time does not have significant impact.
9.	Outcome of Vibration study	The aim of blasting in the proposed project is to give optimum fragmentation with minimum vibration. There is not significant vibration that affects human settlement or environmental settling.
10.	Blasting Activity Management Plan	Submitted during EIA study
11.	Use of any Chemical with quantity	Explosive Primer Explosive – 3.0 kg/hole Booster - 9.0 kg/hole Total – 12 kg/ hole Short delay detonator – 01 Excel - 11
12.	Precautions taken for Human Safety in brief	Mining will be carried out under the supervision of mining engineer/ manager who are certified to conduct mine-operation. These are safety taken as precautionary measures: All safety precautions and provisions as per MMR 1961 rules Mining operation as per approved mine plan Regular testing and maintenance of all mining equipment as per manufacturers' guideline and grantee figure. Periodic checking fire- fighting equipment and fire inhouse - training of workers working in the project. Entry ban of unauthorized persons at work place in mine Checking ang regular maintenance of garland drainage earthen bunds to avoid any inflow of surface water into mine- pit. As a part of disaster management plan,

		rescue team will be formed by imparting specialized training in case on emergency for rescue of worker.
13.	Crusher provided? If Yes, Measures taken for Air Pollution Control	No
14.	Compliance of DGMS Guidelines for Blasting	Comped and permission will be taken prior to the blasting.
15.	Compliance of Sustainable Non Sand Mine Guidelines published by MoEFCC in 2016	YES
16.	Whether Replenishment Rate Study is approved by District Geologist? If yes, conclude in brief	YES

D. Details of Green Belt Development:

1.	a. Green belt development budget	1,00,000
	b. Green belt area / location	Green belt will be developed along river bank, haul road and nearby villages
	c. No. of trees to be planted	1,000 @ Rs.100/- per sample in year (Total amount Rs.1,00,000/).
	d. Types of trees to be planted	Plantation of species as per EC conditions Peepal, Mango, Bel, Amla, Amaltas, Banyan, Neem , Bahada, Acacia etc. and others as suggested by SPCB/Forest Department

E. Details of Environment Management Plan:

1.	**Details of EMP**	**Impact**	**Mitigation Measures**
	a. Land Environment	Temporary changes in the land use due to excavation	Mining will be done by Opencast Semi Mechanized method. There will be changes in land use due to excavation process; Area is backfilled as per approved mining plan.
	b. Water Environment	There are no competing users. The total water requirement will be 6 KLD for dust suppression (3 KLD), domestic (1 KLD) and plantation (2 KLD), which will be sourced from water tanker.	Sewage water will be passed into soak pit of septic tanks. Discharge of sewage or other effluents to water or the land is not expected.
	c. Air Environment	Dust emission during excavation and transportation, vehicular movement	Water sprinkling will be done on the roads regularly Care will be taken to prevent spillage by covering the carrying vehicles with tarpaulin and sprinkling of water, if in dry form Proper tuning of Engine of

			vehicles will be ensured to keep the gas emissions from the vehicles within the prescribed norms. Plantation of trees along the roads will be done to attenuate the impact of dust in the nearby villages /surrounding area.
	d. Noise Environment	Noise generated from extraction, exploration of minerals & from vehicles (dumpers, trucks and excavation etc.)	Regular maintenance of machinery will keep the generated noise level below the minimum prescribed limits Minimum use of Horns at the village area Timely maintenance of vehicles and their silencers to minimize vibration and sound Phasing out of old and worn out trucks. Awareness will be imparted prior to mining operations to all the operators & other persons concerned, so that they must be aware of detrimental effects of noise pollution
	e. Biological Environment	Minimum disturbance to local flora and fauna due to mining activity.	Green belt plantation will be done along the haul roads
	f. Human Environment	Employment generation	Occupational health check-up for the workers shall be carried out Safety training from time to time to all staff Providing Helmet, Safety Shoes & Hand Gloves Various amenities like drinking water, rest shelter & toilet will be provided to workers.
	g. Others		
2.	Occupational health & safety measures as per DGMS	Occupational health safety measures will be taken as per DGMS	
3.	Safety measures proposed		
	a. Is First Aid facility provided by PP?	First aid facility will be provided by the project proponent	
	b. Details of PPEs	Providing Helmet, Safety Shoes & Hand Gloves	

	c. Whether Registration of Workers under Building and other Construction Workers' (regulation of Employment & Conditions of Service) Act, 1996 and as Beneficiaries with the Gujarat Building and other Construction Workers Welfare Boards is obtained or not?	yes
	d. Insurance of Workers	Occupational health check-up for the workers shall be carried out and insurance will be done
	e. Health checkup plan of workers	Occupational health check-up for the workers shall be carried out

F. Transportation:

1.	No. of vehicles per day carrying Minerals	18 vehicles per day
2.	Fugitive dust emission control measures	Regular control of fugitive dust emissions from the source. Water spraying on haul roads, loading and at transfer points. Truck mounted water tanker to be used from dust suppression during mining and transportation
3.	Route plan in brief	Mined out blacktrap will be transported through the pucca road

G. Financial details of the Project:

1.	Total cost of the project (Lakh)	Rs. 91,48,945/-
	a. Upfront cost (Lakh)	--
	b. Performance Security (Lakh)	Rs. 1,00,000/-
	c. Total Royalty (Lakh)	Rs. 30,78,945/-
	d. Weigh Bridge Cost (Lakh)	Rs. 4,50,000/-
	e. Labor cost equipment (Lakh)	Rs. 27,00,000/-
	f. Equipment protection and implementation cost (Lakh)	Rs. 21,00,000/-
	g. Green Belt Development & maintenance cost (Lakh)	Rs.1,00,000/- capital cost Rs.20,000/- recurring cost
	h. Cost of EMP (Lakh)	Rs.3,00,000/-
	i. Cost of Safety measures (Lakh)	Rs.3,00,000/-
	j. Cost of Post-Closure Mine Plan (Lakh)	-
2.	Budget allocated for CER (Lakh)	Rs.3,00,000/- (Three Lakh) as principal amount and 50,000/- (Fifty thousand) as recurring amount has been allotted for Environmental management plan. It is proposing to invest ~Rs.3,00,000/- for social environmental development over a period of next 3 years, to be considered for implementing the activities in the context of the local scenario of the area as a part of EMP. Proposed Heads are as below.

3.	Is need based survey for CER carried out? (Yes / No) If yes, give details of activities along with Budgetary Outlay	

SN	Activity	Budget		
		1st year	2nd year	3rd year
	Plantation of Trees in Nearby Area	40,000	30,000	30,000
	Drinking water in villages	20.000	20,000	20,000
	Health checkup twice year (in winter & summer) & supply of medicine	50,000	50,000	40,000
	total	1,10,000	1,00,000	90,000

H. Restoration / Reclamation Plan:

1.	Restoration / Reclamation Details	Part of excavated land will be backfilled/reclaimed with overburden & local species will be planted.
2.	Post mining closure plan	At the end of current Five Years mining plan maximum depth of pit will be 50 m. The excavated pits will be backfilled. The local species will be planted
3.	Backfilling material and its quantity	Part of excavated land will be backfilled/reclaimed with overburden & local species will be planted.
4.	Size of void for Rain Water Harvesting after backfilling	-
5.	Post Closure Liability / Safety aspects and Measures to be taken to avoid wild life and human accidents/ causalities	-
6.	Display of Caution Boards at strategic locations on the periphery of the pit area	-
7.	Final Use of reservoir/ reclaimed land	-

I. Details of Legal Action / Court Case:

1.	Details of Pending Court matter / Public Litigation Cases in any court of Law	NA
2.	Details of Action taken by GPCB, if any	NA
3.	Details of public complaint , if any	NA
4.	Compliance of EC by RO-GPCB or MoEFCC-Bhopal	NA

J. Contact Details:

1.	**Contact details of Applicant**	
2.	Name	Priyank Quarry Works
3.	Address	Village & Post office - Alvakampa, Taluka- Bayad, District- Aravalli, State-Gujarat 383260
4.	Contact no.	+91 8141800088
5.	Email Id	Rockwellminerals@gmail.com
6.	**Contact details of Consultant**	
7.	Name	ULTRATECH ENVIRONMENTAL CONSULTANCY AND LABORATORY(Gazetted By MoEF) Accredited EIA Consultant Organization by NABET, QCI NABET/EIA/1720/RA0094
8.	Address	Head Office : 206, Jai Commercial Complex, Khopat Thane (W), Maharashtra
9.	Contact no.	9674488198/9558117469
10.	Email Id	Kolkata@ultratech.in

Deliberation:

- Shri Arun Kumar from M/s. Ultratech Environmental Consultancy and Laboratory remained present during the SEAC meeting on behalf of PP and he has submitted the Authorization letter of PP for same.
- Committee deliberated on method of mining, rate of mining, instruments to be used for mining, no. of working hours and no. of workers, transportation of the mined mineral etc.
- EMP, CER activities, green belt development etc. was also discussed during the meeting.
- While deliberating on the distance of Environmental Sensitivities from the lease area, Committee noted that the distance of public buildings, inhabited sites, protected monuments, heritage sites etc. was not given properly.

Hence, Committee unanimously decided to consider the proposal in upcoming SEAC meeting upon submission of below mentioned details:

a. Complete details of the distance of Environmental Sensitivities from the lease area
b. Production details validated by District Geologist since grant of the lease, i.e. since 1996
c. Acknowledgement slip of earlier EC / TOR application made, if any

ADDITIONAL DETAILS SOUGHT:

24. ORDINARY SAND MINING, DIST: GANDHINAGAR

Application No	Name of Project	S.No.	Village	Taluka	Dist	Lease Area	Validity of lease	ROM	River	Nearest Human Habitation	End Use	Investment in Rs	Date of Application Received by SEAC
SIA/GJ/MIN/59295/2020	Anodiya Ordinary Sand Block No. 5 (Lesee - Naresh bhai Kalubhai Vaghani)	1194 ne lagu Sabarmati Riverbed paik i	Anodiya	Mansa	Gandhinagar	2.85.00 Ha	LoI issued on 22.11.2019 for 5 years	40,356 MTPA	Sabarmati	Vaghpur village – 1.29 km	Construction	Rs.33.65 Lakh	23.12.2020 ADS on 05.02.2021

- During SEAC meeting dated **05.02.2021**, PP was asked to submit below mentioned details:
  a. Photographs of the lease area for pre-monsoon as well as post-monsoon period for the period of 5 years
- **On 30.04.2021,** PP has submitted Google Earth images dated 14.01.2021, 21.01.2019, 07.12.2018 and 14.02.2016.

- During SEAC meeting dated **28.05.2021**, the reply was considered. Shri ArunKumar from M/s. Ultratech Environmental Consultancy and Laboratory presented before SEAC on behalf of PP.
- Looking to the Staellite images of above mentioned dates, Committee noted that the lease is submerged in riverine water of River Sabarmati during pre-monsoon as well as post monsoon season.

Committee referred order of Hon'ble National Green Tribunal dated 30/05/2017 in the O.A. NO 78/2015 (CZ) and noted clause No 18 of the order as below:

> *"In light of the above the issue as to whether sand mining can be permitted within the 'submergence' area as contented by the Applicant we are of the view that the issue stands answered with the provisions having been on the principal of precautionary approach as well as sustainable development in the guideline of 2016 extract of which quoted hereinabove. Alternatively, since in the order of the Hon'ble High Court dated 21.07.2015 the term used is "Environment issue arising*

out of carrying our mining activities particularly of sand in 'submerged area' is concerned the Sustainable Sand Mining Guidelines 2016 clearly prohibit any instream mining and further that rivers sand mining can be carried out only upto a depth of 3 meters / till water level is reached whichever is less. Therefore, clearly in accordance with the guidelines which was required to be considered as the guiding factor before EC or consent can be granted ***no river sand mining can be carried out in any area nowithstanding the same being part of the leased area in case it is 'submerged' or lies within the submerged area."***

Hence, in view of the above, Committee unanimously decided to recommend the proposal for rejection.

25. ORDINARY SAND MINING, DIST: GANDHINAGAR

Application No	Name of Project	S.No.	Village	Taluka	Dist	Lease Area	Validity of lease	ROM	River	Nearest Human Habitation	End Use	Investment in Rs	Date of Application Received by SEAC
SIA/GJ/MIN/59300/2020	Anodiya Ordinary Sand Block No. 6 (Lesee - Ankur Rajeshbhai Bhuva)	1194 nelagu Sabarmati Riverbed paiki	Anodiya	Mansa	Gandhinagar	1.86.00 Ha	LoI issued on 22.11.2019 for 5 years	26,338MTPA	Sabarmati	Vaghpur village – 1.10 km	Construction	Rs.32.66 Lakh	23.12.2020 ADS on 05.02.2021

- During SEAC meeting dated **05.02.2021**, PP was asked to submit below mentioned details:
  a. Photographs of the lease area for pre-monsoon as well as post-monsoon period for the period of 5 years
- **On 30.04.2021,** PP has submitted Google Earth images dated 14.01.2021, 21.01.2019, 07.12.2018 and 14.02.2016.

- During SEAC meeting dated **28.05.2021**, the reply was considered. Shri Arun Kumar from M/s. Ultratech Environmental Consultancy and Laboratory presented before SEAC on behalf of PP.
- Looking to the Staellite images of above cited dates, Committee noted that the lease is submerged in riverine water of River Sabarmati during pre-monsoon as well as post monsoon season.

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Hence, in view of the above, Committee unanimously decided to recommend the proposal for rejection.

26. GRANITE MINING, DIST: MEHSANA– B1 Appraisal

Application No	Name of Project	S.No.	Village	Taluka	Dist	Lease Area	Validity of lease	ROM	Nearest Human Habitation	End Use	Investment in Rs.	Date of Application Received by SEAC

SIA/GJ/MIN/58039/2020	M/s Safal Constructions (India) Private Limited.	Survey No. 295 Paiki (Old Survey No.68 Paiki)	Rangpur	Satlasana	Mehsana	7.72 Ha	LoI issued on 21.01.2019 for 30 years	33,333 MTPA	Otalpur & Rangpur – 1.7 km	Construction	Rs.1.66 Crore	18.11.2020 ADS on 06.01.2021

- During SEAC meeting dated **06.01.2021**, PP was asked to submit below mentioned details:
  a. The Action Plan for need based public issues raised during the public hearing and asked to prepare action plan for budgetary provisions for same
  b. To submit identified need based activities and its period for completion

- On **06.05.2021**, PP has submitted reply through E-Mail as below:
  a. PP has submitted the Action Plan for need based public issues raised during public hearing and has prepared action plan for budgetary provisions as below:

Sr. No.	Name of the Representative	Details of the points submitted	Response given by the representative of the Industry	Remarks
1	Shri. Adaji Thakor Village: Otalpur Ta. Satalasana Dist. Mehsana	How many persons of the village will get employment?	As per the details of the slide No-28 in the recent presentation by the respected person- Skill labour-4, Unskilled labour-10, Chawkidar, Driver, Mining Man, all total 22 persons will be given appointment.	
2	Shri. Govind sinh Udesinh Parmar.Village: Kanedia Ta. Satalasana Dist. Mehsana	• Has the approval of Gram Panchayat/Taluka Panchayat been obtained? • Has the approval to demolish 'Aad Dam' constructed under MANREGA been obtained ? • Has the approval to demolish 'Aad Bandh' obtained? If yes, give copy of it.	As per the opinion of the Revenue Department of the Government, this entire parcle of land is 'Goverment Land' hence there is no need to obtain any such permission of Gram Panchayat. The Prant Officer has also given this opinion. This parcel of land is not private land. The Government has given mining permission to the successful bidders in the auction. The action taken now is of temporary nature. The structure constructed	It was informed by representative of the Member Secretary that, The advertisement in English and Gujarati Medium news papers have been published before this public hearing. The copy of the same has also been sent for information to the Sarpanchs / Talati of the affected villages . It was informed by representative of the Member Secretary that, This point has

			now is for time being and done only to move the vehicles smoothly. The portion seems damage would be repaired as before by today evening.	no relevance with today's hearing. To discuss with the Prant Officer after the hearing. It was informed by representative of the Member Secretary that, the copy of the approval f it is required to be obtained will be produced. It was informed by the Chairperson that the questions with regard to environment are only required to be submitted.. Your questions will be heard by the Company and submit only if you feel any loss.
		It is our demand that you can not demolish 'Aad Bandh' till old Survey Number-68 as per our record which is in Rangpur Combined Gram Panchayat till the boundary limit is earmarked.	The boundary is earmarked. In slide 10 of the presentation shows the boundary of Rangpur Village. You can get the clarification about boundary from the Prant Office. I have shown the same Map to you which has been furnished to me.	
3	Shree Balwantji Pathuji Thakor Village- Rangpur Gadh, Ta. Satlasana. Dist.Mehsana	The Granite Mining Company is coming to Rangpur village. Is is not required to inform about the public hearing to villagers of Rangpur ? Has anyone informed us about that?	The area allocated for lease is under Rangpur village as per map. The parcel of 7.72 Hector of land is a Government land.The lease has been granted by the Government by auction on rent to the Company. The owner of the land is the Government and will always remained the owner also. It is inform you for dusting while mining work is going on, as shown in the last slide, the skill development, road maintenance ,and plant maintenance will be done in 1^{st},2^{nd},3^{rd},4^{th} and 5^{th} year.The details of the expenditure is shown in Table.	It was informed by representative of the Member Secretary that, Rangpur village taken into study area. The copy has been given to the Talati-Sarpanch of Rangpur Mr. Navalsinh Chauhan so it is their duty to inform the villagers. It was informed by representative of the Member Secretary that We take cognisance of your submission in our record. The representative of the Member Secretary that informed that no individual intimation is required. The letter
		WE have not been informed by Sarpanch/Talati. We have a group Panchayat which comprised of villags Kanedia, Radhupura and Rangpur		
		The villagers are living on this hills. They use its product like grass for feeding cattle, burning dry-wood. The villagers are dependant upon these hills. We will not use the products of this hills as 7.72 Hectares of land will be allocated for mining to Safal Constructions. What will be done regarding cattle farming? The farms		

		nearby will be also be polluted with mining dust which will cause damage to farms. The survey should be done first as there is a dispute of boundary between Rangpur and Kanodia Gram Panchayats.		has been sent to the Sarpanch/Talati of the village. It is the reponsibility of the Sarpanch to inform. The advertisement is also published in the news paper and we have it's proof also. We have already furnished and if you ask again. They had examined all the proofs in person during public hearing.
		Which will be the other benefits than of employment?	The fund to the tune of 5.10 Lakh for the next five years has been allocated for cleanliness of the village, maintenance of the roads and other activities.	
		My question in regard with the allocation of fund for cleanliness, health ect. is that our Gram Panchayat is Kanodia. So will only Group Gram Panchayat Kanodia will get benefit of it or other villages will also be benefitted? Will the expenditure be spent in one village or three villages? Survey for Rangpur-Otalpur Villages should be done to earmark their boundaries so as no conflict may arise between two villages.	We do not have to pay you directly. We will allocate to the Committee authorised by the collector or the Government. The concerned authorised officer will allocate the village as per the requirement. There are 64 villages included in study for 10 k.m Area. It will allocated as per the requirement of the village by the concerned officer of Mehsana District. The Map has been shown to you earlier also. It indicates the area of Villages Otalpur and Rangpur. The authentic map obtained from the Government has been shown to you. The Government has already surveyed all the hills till Kanedia with Satellite effect and earmarked the area and allocated 7.72 hector of land for mining lease to Safal. The entire details	

			isavailable in the records of Prant Office, Mehsana.	
		Will the surrounding private land have any damage?	The due care will be taken to see that no damage occurs to the private land.	
		The demolition of 'Aad Bandh' itself is a loss.	As told to Parmar sir that it was demolished to pass the vehicle which will be repair today itself.	
		Will there be any blast in this project?	No blasting will be done in this project.	
		Survey No. 68 farm is located nearby. What if there is personal loss?	The definition of your personal loss is not realized. Dust will be controlled. Work will be done by fencing. all round development work will be done indirectly irrespective of the budget decided by the government.	
		What about the fact that none has informed us? We have not signed due to that. We have come becuase the 'Aad Bandh' is broken. No intimation has been conveyed.	As informed you earlier that we have already sent the reports and received also.	
4	Shree. Pathuji Arjanji Thakor Village- Rangpur Gadh,. Ta. Satlasana. Dist. Mehsana	The project for pond nearby this land is under consideration by the villagers. Have they obtained any approval for that project? The water level has go be down as there is scanty rain.	The land allocated is owned by the Government and has been allocated to the Company on lease in auction.	
5.	Shri Govind sinh Udesinh Parmar. Village: Kanedia, Ta. Satlasana, Dist. Mehsana	We have to file F.I.R. No intimation was made before demolition of 'Aad Bandh' and even T.D.O is not aware of it. If advance intimation was done, kindly furnish the copy of it.		The representative of the Member Secretary informed that the complain in this regard can be lodged before the Prant Officer.
6.	Shree Balwantji Pathuji Thakor, Village: Rangpur Gadh, Ta. Satlasana, Dist. Mehsana	It has been decided in the group meetings of the villages that water shoudl be added in the 'Aad Bandh'. The pipe lineof Dharoi dam is passing nearby. We have not been informed and thousand of	The representative of your village Shri. Navalbhai Chauhan has been informed and he has signed with stamp.	It was informed by the Chairperson that this question is not relevant. The solution of the questions will be sorted out. However, the purpose of today is

		cattle and people will get benefit. We have come to submit our questions only.		that the land is owned by the government and the Safal Constructions has been allocated work by the Government who had paid more money in auction and having found beneficial, the secretary level committee has decided so. We all have met as the approval of the environment department is required to be obtained before commencement of the work so that any damage to it may be avoided hence only questions with regard to environment are require to submitted. We do not have to take any decision. The video recording is required to be submitted to the Central Government and the decision will be taken by them only.

b. PP has submitted details of need based activities as below:

S. No.	**Activities**	**Fund allocated (Rs. in Lakhs) and completion Year**				
		2021-2022	**2022-2023**	**2023-2024**	**2024-2025**	**2025-2026**
1	Sanitation	0.10	0.10	0.10	0.10	0.10
2	Skill Development	0.15	0.15	0.15	-	-
3	Avenue Plantation both Sides of Mettle Road Near Mine Site	0.30	0.10	-	-	-
4	Maintenance of plants	-	0.50	0.50	-	-
5	Road upkeep	0.50	0.25	0.22	-	-
Total		1.05	1.10	0.97	0.1	0.1
Grand Total- Three Lakhs and Thirty Two thousand only		**3.32**				

Environment Activity budget for M/s. Safal Constructions (Ind.) Pvt. Ltd.

S. No.	Activities	Fund allocated (Rs. in Lakhs) and completion Year				
		2021-2022	2022-2023	2023-2024	2024-2025	2025-2026
1	Air Pollution & Noise Control	0.50	0.20	0.20	0.20	0.20
2	Water Pollution Control and Rainwater Harvesting	0.30	0.10	0.10	0.10	0.10
3	Greenbelt Development	1.30	0.30	0.30	0.30	0.30
4	Awareness programme-environment conservation	0.30	0.1	0.1	0.1	0.10
5	Dust Suppression	3.48	3.48	3.48	3.48	3.48
	Total	5.88	4.18	4.18	4.18	4.18
Total		**22.60**				
Grand total		**Twenty Two Lakhs and Sixty Thousand only**				

- During SEAC meeting dated **28.05.2021**, the reply was considered. Shri Ashishbhai Kumar presented before SEAC on behalf of PP.
- Committee found the reply satisfactory.

After appraisal, considering the anticipated impacts of mining, mitigation measures proposed by the lease holder, committee unanimously decided to recommend the above proposal for grant of environmental clearance to SEIAA, subject to the strict implementation of conditions mentioned for **Non-Sand mining without blasting** for the project approved by SEAC on 09/08/2017 and by SEIAA on 16/09/2017 with specific conditions as per **Annexure – V**.

27. BUILDING LIMESTONE MINING, DIST: GIR SOMNATH

Application No	Name of Project	S.No.	Village	Taluka	Dist	Lease Area	Validity of lease	ROM	Nearest Human Habitation	End Use	Investment in Rs	Date of Application Received by SEAC
PMIN - 412	Mohemediqbal UsmanganiSorathiya	759/ Paiki 1 Paiki /2 Pvt. Land	Amodra	Una	Gir Somnath	00.40.47 Ha	LOI No. GG/QL/ 92/654 dated 07.03.2 020	17,647 MTPA	Amodra – 0.15 km	Construction	Rs.29,58,780/-	05.02.2021 ADS on 19.03.2021

							for 5 years					

- During SEAC meeting dated **19.03.2021**, PP was asked to submit below mentioned details:
  a. The letter issued by competent authority of Department of Forest, Govt. of Gujarat regarding the nearest distance of Gir-Somnath Wildlife Sanctuary from the lease area
  b. Superimposed map issued by GCZMA to verify the applicability of CRZ

- On **18.05.2021**, PP has submitted reply through E-mail as below:
  a. The boundary of Eco-Sensitive zone Gir Wildlife Sanctuary is 11.09 km away from lease area.Gir Wildlife Sanctuary is 16.39 km away from our lease area.Gir National Park is 34.03 km away from our lease area.
  b. Superimposed map issued by GCZMA showing the Aerial distance of 5.02 km from CRZ coastal line is submitted.

- During SEAC meeting dated **28.05.2021**, the reply was considered. Shri Zalak Savaliya presented the reply before the Committee.
- Committee noted that PP has submitted Google images instead of the letter issued by competent authority of Department of Forest, Govt. of Gujarat regarding the nearest distance of Gir-Somnath Wildlife Sanctuary from the lease area as asked to submit during SEAC meeting dated 19.03.2021.
- Shri Zalakbhai informed the Committee that the distance of the lease from the boundary of Eco-Sensitive zone Gir Wildlife Sanctuary is 11.09 km and hence, Department of Forest refused to issue the letter as the distance is >10 kmw.r.t.MoEFCC Notification no. S.O. 3370(E), dated 25.10.2016.
- Committee asked Shri Zalakbhai to present the application made to the Department of Forest to obtain the desired Certificate, but he couldn't furnish the same.
- Committee deliberated on superimposed map issued by GCZMA showing the Aerial distance of 5.02 km from CRZ coastal line and found satisfactory.

After detailed discussion, Committee unanimously decided to consider the proposal upon submission of below mentioned details:

a. The letter issued by competent authority of Department of Forest, Govt. of Gujarat regarding the nearest distance of Gir-Somnath Wildlife Sanctuary from the lease area as asked in SEAC meeting dated 19.03.2021 along with the application made by PP to obtain the letter from Department of Forest, Govt. of Gujarat.

28. LIMESTONE MINING, DIST: JUNAGADH – B1 Appraisal

Application No	Name of Project	S.No.	Village	Taluka	Dist	Lease Area	Validity of lease	ROM	Nearest Human Habitation	End Use	Investment in Rs	Date of Application Received by SEAC
SIA/GJ/MIN/59579/2021	Januda Shantipura Limestone (Shivam Mining)	25,26,31 P& 78 P	Shantipura and Januda	Malia Hatina	Junagadh	41 Ha Working area 20.9757 Ha	Lease is valid upto 22.01.2028	Expansion from 3,50,000 MTPA to 12,00,000 MTPA	Januda – 620 m	Cement Industry	Rs.75 Lakh	08.02.2021 ADS on 26.02.2021

- During SEAC meeting dated **26.02.2021**, PP was asked to submit below mentioned details:
  a. Amount of CER is different in documents submitted
  b. No monitoring station within 500 m downwind direction in the periphery of the lease area is chosen at the time of baseline monitoring
  c. Photographs of green belt area with co-ordinates / GPS location
  d. Conceptual Plan and Section of the mine lease area is not included in EIA report
  e. Revised Environment Management Plan for expanded production is not incorporated in EIA report
  f. Approved mining plan
  g. Analysis report for Minerological Composition of PM_{10}
  h. Monitoring results of soil and noise are not given date wise as mentioned in TOR
  i. Fluoride, phenolic compound content in the ground water is reflected high and is not clearly addressed

- On **19.05.2021**, PP has submitted reply as below:
  a. The project proponent carries out many additional activities, which incurs higher expenditure than required as per OM dated 1 May 2018. Final list of Corporate Environment Responsibility to be considered as per the reply submitted by PP.
  b. As per siting criteria, there is no habitation (or any other activity) within 500 m from mine site. We have carried out sampling at nearest habitation, Januda village. Nearest village in downwind direction, Kinderva was also monitored.

Further, we have got the ambient air monitoring results of same season (winter) 2020 and in this season, we have also collected air sample at the nearby village Shantipura, the same is attached as Appendix-II for your kind consideration.

c. The photographs of greenbelt developed within lease area mentioning GPS locations issubmitted by PP.
d. The same were part of EIA report as Annexure-V of EIA report. Full copy of EIA report attached for your kind consideration.
e. The Environment Management Plan included in the EIA report (Chapter-10) is for proposed activities only. Implementation of existing EMP is already ongoing and hence cost part considered in operational expenses. All required mitigations measures will be taken for pollution control
f. The same were part of EIA report as Annexure-V. Full copy of EIA report attached for your kind consideration.
g. Minerological Composition of PM10 is mentioned at Page no. 79 of EIA report. (table 3.11)
h. The monitoring dates of soil and noise are given in attached EIA report Annexure-VIII.
i. The concentration of fluoride And Phenolic compounds is mentioned in table 3.17 and in section 3.5. The remedial measures have not been addressed because this project is not going to intersect ground water. Further, there will not be any wastewater generation/discharge from mining activity. So, there will not no impact on surface water from this project.

- The reply i.e. the revised details submitted by the PP were perused and looked into by the Committee during the SEAC meeting dated **28.05.2021**. Shri Manoj Jain presented the reply before SEAC. The committee found the reply for all above points - except point no. g) and i) - to be satisfactory.
- However, PP has not yet submitted the NABL accredited Laboratory analysis report for Minerological Composition of PM_{10} (i.e. free silica). Also the mitigation measures for the high values of Flouride and Phenolic compounds appearing in the Ground Water Quality are not discussed / clearly addressed.

Looking to the above, the Committee unanimously decided to consider the proposal in upcoming SEAC meeting after re -submission of following details by the PP.

a. NABL Accredited Laboratory Analysis report for Minerological Composition of PM_{10} (i.e. free silica).
b. Fluoride and Phenolic compound content in the ground water is reflected high and is not clearly addressed. Mitigation measures for the same are to be discussed and submitted.

29. BLACKTRAP MINING, DIST: BHARUCH

Application No	Name of Project	S.No.	Village	Taluka	Dist	Lease Area	Validity of lease	ROM	Nearest Human Habitation	End Use	Investment in Rs	Date of Application Received by SEAC
PMIN-310	M/s. KadarkhanAbdulshakurPathan	316	Kantipada	Jhagadiya	Bharuch	0.75.25 Hect	Geologist vide letter dated 17/11/2018 have stated that according to GMMCR amendment 09/03/2018 & by the rule no-12 (i) (a) lease is eligible for extension till 2030	22,000 MTPA	Kantipada 0.600 Km	Construction	Rs.15 Lakh	04.09.2020 ADS on 12.10.2020

During SEAC meeting dated **12.10.2020**, PP was asked to submit below mentioned details:

a. To submit the current working status of the mine with details of production since grant of lease

On **19.05.2021**, PP has submitted reply as below:

a. PP has submitted production details validated by District Geologist, Bharuch vide letter no. AG/BH/QL/3286/Blacktrap/6, dated 01.01.2021 as below:

S.N.	Year	Production (MTPA)
1	2013-14	7703.525
2	2014-15	0
3	2015-16	282
4	2016-17	1763.50
5	2017-18	3943
6	2018-19	0
7	2019-20	9337.620
8	2020-21 (till Nov.20)	2679.61

During SEAC meeting dated **28.05.2021**, the reply was considered. Shri Gyanendrabhai presented the reply before the Committee. Committee noted that the production was continued after 31.03.2016. Regarding earlier TOR / EC application made, PP showed the forwarding letter of the application made at the Office of District Geologist, Bharuch vide dated 21.07.2014, which stated that they had applied to obtain EC vide dated 17.07.2014 and the same was attached with the forwarding letter showed to the Committee dated 21.07.2014. Committee asked PP to display the application letter dated 17.07.2014, he couldn/t display the same. Hence, Committee unanimously decided to consider the proposal in upcoming SEAC meeting upon submission of credible documentary evidences for earlier EC applicated dated 17.07.2014.

30. ORDINARY SAND MINING, DIST: BOTAD

Application No	Name of Project	S.No.	Village	Taluka	Dist	Lease Area	Validity of lease	ROM	Nearest Human Habitation	End Use	Investment in Rs	Date of Application Received by SEAC
PMIN-390	Jayrajsinh Takhubha Jadeja	42 nelagu Oota walinadi pattapaiky	Timbala	Barwala	Botad	1.00.00 Ha	Existing lease is granted vide No. AGA/QL/RETI/2057/2325 dated 04.08.2009 78,900 MTPA	78,900 MTPA	Timbala – 0.53 km	Construction	Rs.72.09 Lakh	03.12.2020 ADS on 21.01.2021

During SEAC meeting dated **21.01.2021**, PP was asked to submit below mentioned details:

a. To submit Replenishment Rate Study Report and Production Details validated by District Geologist as the lease is existing since 2008

On **20.05.2021**, PP has submitted reply as below:

a. PP presented the replenishment rate study report validated by District Geologist, Botad mentioning the replenishment rate as 66%. PP also presented the production details validated by District Geologist, Botad as below:

S.N.	Year	Production, MTPA
1	04.08.2009 to March – 2010	20880
2	2010-11	6890

3	2011-12	6750
4	2012-13	12360
5	2013-14	296
6	2014-15	100
7	2015-16	18264.46
8	2016-17	11741.22
9	2017-18	4122
10	2018-19	2108
11	2019-20	5280.04
12	2020-21	2440.5

During SEAC meeting dated **28.05.2021**, the reply was considered. Shri Bhanjibhai presented the reply before SEAC.

Committee noted that production was continued after 31.03.2016. Committee also noted that sand replenishment is not 100% and the rate of sand replenishment is not clearly mentioned w.r.t the rate of mining.

Hence, Committee unanimously decided to consider the proposal in upcoming SEAC meeting after submission of below mentioned details:

a. PP shall submit revised documents (project details, approved mining plan, PFR etc.) with reduced ROM and also the approved sand replenishment report with a clear opinion on rate of sand replenishment w.r.t. the rate of sand mining.
b. Acknowledgement slip of earlier TOR / EC application, if any.

Meeting was concluded with thanks from Chair.

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Minutes Approved By:

1	Shri A. K. Saxena, Chairman	
2	Dr. S. C. Pant, Vice Chairman, SEAC	
3	Dr. M. N. Patel, Member, SEAC	
4	Shri D. C. Chaudhari, Member, SEAC	
5	Shri J. K. Vyas, Member, SEAC	
6	Shri Anand Zinzala, Member, SEAC	
7	Shri B. M. Tailor, Member, SEAC	

8	Shri A. V. Shah, Secretary, SEAC	

ANNEXURE I

TERMS OF REFERENCE FOR THE PROJECTS FALLING UNDER CATEGORY 1 (a), (MINING SECTOR) INCLUDING PROJECT SPECIFIC TOR FOR VIOLATION OF EIA NOTIFICATION 2006

1. Year-wise production details since 1994 should be given, clearly stating the highest production achieved in any one year prior to 1994. It may also be categorically informed whether there had been any increase in production after the EIA Notification 1994 came into force, w.r.t. the highest production achieved prior to 1994.
2. A copy of the document in support of the fact that the Proponent is the rightful lessee of the mine should be given.
3. All documents including approved mine plan, EIA and Public Hearing should be compatible with one another in terms of the mine lease area, production levels, waste generation and its management, mining technology etc. and should be in the name of the lessee.
4. All corner coordinates of the mine lease area, superimposed on a High Resolution Imagery/ toposheet, topographic sheet, geomorphology and geology of the area should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone).
5. Information should be provided in Survey of India Toposheet in 1:50,000 scale indicating geological map of the area, geomorphology of land forms of the area, existing minerals and mining history of the area, important water bodies, streams and rivers and soil characteristics.
6. Details about the land proposed for mining activities should be given with information as to whether mining conforms to the land use policy of the State; land diversion for mining should have approval from State land use board or the concerned authority.
7. It should be clearly stated whether the proponent Company has a well laid down Environment Policy approved by its Board of Directors? If so, it may be spelt out in the EIA Report with description of the prescribed operating process/procedures to bring into focus any infringement/deviation/ violation of the environmental or forest norms/ conditions? The hierarchical system or administrative order of the Company to deal with the environmental issues and for ensuring compliance with the EC conditions may also be given. The system of reporting of non-compliances / violations of environmental norms to the Board

of Directors of the Company and/or shareholders or stakeholders at large,may also be detailed in the EIA Report.

8. Issues relating to Mine Safety, including subsidence study in case of underground mining and slope study in case of open cast mining, blasting study etc. should be detailed. The proposed safeguard measures in each case should also be provided.
9. The study area will comprise of 10 km zone around the mine lease from lease periphery and the data contained in the EIA such as waste generation etc. should be for the life of the mine / lease period.
10. Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated. Land use plan of the mine lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.
11. Details of the land for any Over Burden Dumps outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be given.
12. A Certificate from the Competent Authority in the State Forest Department should be provided, confirming the involvement of forest land, if any, in the project area. In the event of any contrary claim by the Project Proponent regarding the status of forests, the site may be inspected by the State Forest Department along with the Regional Office of the Ministry to ascertain the status of forests, based on which, the Certificate in this regard as mentioned above be issued. In all such cases, it would be desirable for representative of the State Forest Department to assist the Expert Appraisal Committees.
13. Status of forestry clearance for the broken up area and virgin forestland involved in the Project including deposition of net present value (NPV) and compensatory afforestation (CA) should be indicated. A copy of the forestry clearance should also be furnished.
14. Implementation status of recognition of forest rights under the Scheduled Tribes and other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 should be indicated.
15. The vegetation in the RF / PF areas in the study area, with necessary details, should be given.
16. A study shall be got done to ascertain the impact of the Mining Project on wildlife of the study area and details furnished. Impact of the project on the

wildlife in the surrounding and any other protected area and accordingly, detailed mitigative measures required, should be worked out with cost implications and submitted.

17. Location of National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, Ramsar site Tiger/ Elephant Reserves/(existing as well as proposed), if any, within 10 km of the mine lease should be clearly indicated, supported by a location map duly authenticated by Chief Wildlife Warden. Necessary clearance, as may be applicable to such projects due to proximity of the ecologically sensitive areas as mentioned above, should be obtained from the Standing Committee of National Board of Wildlife and copy furnished.
18. A detailed biological study of the study area [core zone and buffer zone (10 km radius of the periphery of the mine lease)] shall be carried out. Details of flora and fauna, endangered, endemic and RET Species duly authenticated, separately for core and buffer zone should be furnished based on such primary field survey, clearly indicating the Schedule of the fauna present. In case of any scheduled-I fauna found in the study area, the necessary plan alongwith budgetary provisions for their conservation should be prepared in consultation with State Forest and Wildlife Department and details furnished. Necessary allocation of funds for implementing the same should be made as part of the project cost.
19. Proximity to Areas declared as 'Critically Polluted' or the Project areas likely to come under the 'Aravali Range', (attracting court restrictions for mining operations), should also be indicated and where so required, clearance certifications from the prescribed Authorities, such as the SPCB or State Mining Department should be secured and furnished to the effect that the proposed mining activities could be considered.
20. Similarly, for coastal Projects, A CRZ map duly authenticated by one of the authorized agencies demarcating LTL. HTL, CRZ area, location of the mine lease w.r.t CRZ, coastal features such as mangroves, if any, should be furnished. (Note: The Mining Projects falling under CRZ would also need to obtain approval of the concerned Coastal Zone Management Authority).
21. R&R Plan/compensation details for the Project Affected People (PAP) should be furnished. While preparing the R&R Plan, the relevant State/National Rehabilitation & Resettlement Policy should be kept in view. In respect of SCs /STs and other weaker sections of the society in the study area, a need based sample survey, family-wise, should be undertaken to assess their requirements, and action programmes prepared and submitted accordingly, integrating the

sectoral programmes of line departments of the State Government. It may be clearly brought out whether the village(s) located in the mine lease area will be shifted or not. The issues relating to shifting of village(s) including their R&R and socio-economic aspects should be discussed in the Report.

22. One season (non-monsoon) [i.e. March-May (Summer Season); October-December (post monsoon season) ; December-February (winter season) primary baseline data on ambient air quality as per CPCB Notification of 2009, water quality, noise level, soil and flora and fauna shall be collected and the AAQ and other data so compiled presented date-wise in the EIA and EMP Report. Site-specific meteorological data should also be collected. The location of the monitoring stations should be such as to represent whole of the study area and justified keeping in view the pre-dominant downwind direction and location of sensitive receptors. There should be at least one monitoring station within 500 m of the mine lease in the pre-dominant downwind direction. The mineralogical composition of PM10, particularly for free silica, should be given.
23. Air quality modeling should be carried out for prediction of impact of the project on the air quality of the area. It should also take into account the impact of movement of vehicles for transportation of mineral. The details of the model used and input parameters used for modeling should be provided. The air quality contours may be shown on a location map clearly indicating the location of the site, location of sensitive receptors, if any, and the habitation. The wind roses showing pre-dominant wind direction may also be indicated on the map.
24. The water requirement for the Project, its availability and source should be furnished. A detailed water balance should also be provided. Fresh water requirement for the Project should be indicated.
25. Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the Project should be provided.
26. Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided.
27. Impact of the Project on the water quality, both surface and groundwater, should be assessed and necessary safeguard measures, if any required, should be provided.
28. Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided. In case the working will intersect groundwater table, a detailed Hydro Geological Study should be undertaken and Report furnished. The Report inter-

alia, shall include details of the aquifers present and impact of mining activities on these aquifers. Necessary permission from Central Ground Water Authority for working below ground water and for pumping of ground water should also be obtained and copy furnished.

29. Details of any stream, seasonal or otherwise, passing through the lease area and modification / diversion proposed, if any, and the impact of the same on the hydrology should be brought out.
30. Information on site elevation, working depth, groundwater table etc. Should be provided both in AMSL and bgl. A schematic diagram may also be provided for the same.
31. A time bound Progressive Greenbelt Development Plan shall be prepared in a tabular form (indicating the linear and quantitative coverage, plant species and time frame) and submitted, keeping in mind, the same will have to be executed up front on commencement of the Project. Phase-wise plan of plantation and compensatory afforestation should be charted clearly indicating the area to be covered under plantation and the species to be planted. The details of plantation already done should be given.The plant species selected for green belt should have greater ecological value and should be of good utility value to the local population with emphasis on local and native species and the species which are tolerant to pollution.
32. Impact on local transport infrastructure due to the Project should be indicated. Projected increase in truck traffic as a result of the Project in the present road network (including those outside the Project area) should be worked out, indicating whether it is capable of handling the incremental load. Arrangement for improving the infrastructure, if contemplated (including action to be taken by other agencies such as State Government) should be covered. Project Proponent shall conduct Impact of Transportation study as per Indian Road Congress Guidelines.
33. Details of the onsite shelter and facilities to be provided to the mine workers should be included in the EIA Report.
34. Conceptual post mining land use and Reclamation and Restoration of mined out areas (with plans and with adequate number of sections) should be given in the EIA report.
35. Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be

incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed.

36. Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocations.
37. Measures of socio economic significance and influence to the local community proposed to be provided by the Project Proponent should be indicated. As far as possible, quantitative dimensions may be given with time frames for implementation.
38. Detailed environmental management plan (EMP) to mitigate the environmental impacts which,should inter-alia include the impacts of change of land use, loss of agricultural and grazing land, if any, occupational health impacts besides other impacts specific to the proposed Project.
39. Public Hearing points raised and commitment of the Project Proponent on the same along with time bound Action Plan with budgetary provisions to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project.
40. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
41. The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of EMP should be clearly spelt out.
42. A Disaster management Plan shall be prepared and included in the EIA/EMP Report.
43. Benefits of the Project if the Project is implemented should be spelt out. The benefits of the Project shall clearly indicate environmental, social, economic, employment potential, etc.
44. Besides the above, the below mentioned general points are also to be followed:-
    1. Executive Summary of the EIA/EMP Report
    2. All documents to be properly referenced with index and continuous page numbering.
    3. Where data are presented in the Report especially in Tables, the period in which the data were collected and the sources should be indicated.
    4. Project Proponent shall enclose all the analysis/testing reports of water, air, soil, noise etc. using the MoEF&CC/NABL accredited laboratories. All the original analysis/testing reports should be available during appraisal of the Project.

5. Where the documents provided are in a language other than English, an English translation should be provided.
6. The Questionnaire for environmental appraisal of mining projects as devised earlier by the Ministry shall also be filled and submitted.
7. While preparing the EIA report, the instructions for the Proponents and instructions for the Consultants issued by MoEF&CC vide O.M. No. J-11013/41/2006-IA.II(I)dated 4th August, 2009, which are available on the website of this Ministry, should be followed.
8. Changes, if any made in the basic scope and project parameters (as submitted in Form-I and the PFR for securing the TOR) should be brought to the attention of MoEF&CC with reasons for such changes and permission should be sought, as the TOR may also have to be altered. Post Public Hearing changes in structure and content of the draft EIA/EMP (other than modifications arising out of the P.H. process) will entail conducting the PH again with the revised documentation.
9. As per the circular no. J-11011/618/2010-IA.II(I) dated 30.5.2012, certified report of the status of compliance of the conditions stipulated in the environment clearance for the existing operations of the project, should be obtained from the Regional Office of Ministry of Environment, Forest and Climate Change, as may be applicable.
10. The EIA report should also include (i) surface plan of the area indicating contours of main topographic features, drainage and mining area, (ii) geological maps and sections and (iii) sections of the mine pit and external dumps, if any, clearly showing the land features of the adjoining area.

Beside above standard TOR, following additional TORs are recommended:

1. Project site specific details such as distance of the project site from nearest (1) Village (2) Water Body : River / Creek / Nallah / Lake / Pond / Reservoir / Canal (3) National Highway (4) State Highway (5) Railway line (6) Heritage site (7) National Park / Wild Life Sanctuary /Reserve Forest / Protected Forest shall be included in the rapid EIA report to be prepared covering one season (other than monsoon) data. A map indicating the aerial distance of the lease area from these entities.

2. Distance of nearby mining lease areas from the periphery of the proposed project including a map covering distance of 1 Km from the periphery of the proposed project. In case of no mining lease areas are existing within 500 meter periphery of the proposed project, certificate of the concerned geologist in this regard.

3. Copies of all requisite permissions including permissions from District Collector, Commissioner of Geology & Mining, Indian Bureau of Mines, GPCB, current lease renewal status from Industries and Mine department, Government of Gujarat with opinion of the district geologist regarding compliance of all the conditions in lease deed and copy of renewed lease (if any) etc. to be incorporated.

4. Approved mining plan including progressive mine closure plan shall be provided with EIA report. Letter of approval of IBM shall also be incorporated with compliance of all the recommendations mentioned in approved mining plan.

5. Specific Terms of Reference for the project on assessment of ecological damage, remediation plan and natural and community resource augmentation plan.

1. Ecological damage shall be assessed with respect to air, water, land and other project & location specific environment attributes. The collection and analysis of data shall be done by an environment laboratory duly notified under Environment (Protection) Act, 1986, or an environment laboratory accredited by NABL, or a laboratory of a council of Scientific and Industrial Research (CSIR) institution working in the field of environment.
2. The Environment Management Plan shall be prepared which shall comprise of the remediation plan and community & natural resource augmentation plan corresponding to the ecological damage assessed and economic benefits derived due to violation. The remediation plan and the natural & community resource augmentation plan prepared shall be included as an independent chapter in the EIA report.
3. The project proponent shall be required to submit a bank guarantee considering 4% of the project cost (i.e*.double than the highest percentage mentioned in CER vide OM of MOEF&CC dated 01/05/2018) or amount comes from the an indicative guideline after assessing the environmental damage as mentioned in Annexure A whichever is higher* with the GPCB prior to the grant of Environmental Clearance. The quantum shall be recommended by the SEAC and finalized by the regulatory authority. The bank guarantee shall be released after successful implementation of the remediation plan and Natural and Community Resource Augmentation Plan, and after recommendation by regional office of the Ministry followed by recommendations of the SEAC and approval of the regulatory authority.

4. Gujarat Pollution Control Board shall initiate credible legal action against the project proponent under the provisions of the Environment (Protection) Act, 1986, and further no consent to operate to be issued till the project is granted Environmental Clearance.
5. A notarized undertaking stating that (1).Any such violation shall not be repeated in future, (2). All the statutory requirements shall be fully complied with and (3). A status quo shall be maintained at the project site and remaining activity shall be carried out only after obtaining Environmental Clearance from SEIAA.
6. Applicability of CRZ Notification, 2011 shall be verified for the project and if found applicable, due procedure shall be followed as per the CRZ Notification,2011.

6. <u>Project Specific Conditions:</u>

Honorable supreme court vide judgment dated 2nd August 2017 with writ petition (Civil) No 114 of 2014 in the matter of common cause versus union of India and others has passed order interpreting section 21(5) of the MMDR Act and directed payment of 100% Penalty for illegal mining operation with reference to the relevant statues, which inter alia include Environment (Protection) Act 1986, the Water(Prevention and Control of Pollution)Act 1974 and Air(Prevention and Control of pollution)Act 1981,The Forest(Conservation)Act 1980 and the Mines and Minerals(Development &Regulation)Act 1957. In this context In order to additionally comply with the direction of Hon'ble Supreme Court dated 02/08/2017 vide writ petition (Civil) NO 114 of 2014 Following additional conditions in TOR are required to address and comply.

1. The project proponent shall give an undertaking by way of affidavit to comply with all the statutory requirements and judgment of Hon'ble Supreme Court dated 2nd August 2017 in Writ Petition (Civil) No: 114 of 2014 in the matter of common cause versus Union of India and others before grant of TOR/EC. The undertaking inter alia include commitment of PP not to repeat any such violation in future.

2. In case of violation of above undertaking, the TOR/EC shall be liable to be terminated forthwith.

3. The Environmental Clearance will not be operational till such time the project proponent complies with all the statutory requirements and judgment of Hon'ble Supreme Court dated 2nd August 2017 in Writ Petition (Civil) No 114 of 2014 in the matter of Common Cause versus Union of India and others.

4. State government concerned shall ensure that mining operation shall not commence till entire compensation levies, if any, for illegal mining paid by the Project proponent through Their respective department of Mining and Geology in strict compliance of judgment of ofHon'ble Supreme Court dated 2nd August 2017 in Writ Petition (Civil) No 114 of 2014 in the matter of Common Cause versus Union of India and others.

7. Validity of ToR:

- The ToR prescribed for the project will be valid for a period of four years for submission of EIA & EMP report vide amended EIA Notification 2006, S.O. 751(E) dtd 17.02.2020. 751(E)

The above-mentioned project specific TORs/additional TORs and the model TORs available in the MoEFCC's sector specific EIA Manual for Mining Projects shall be considered as generic TORs for preparation of the EIA report in addition to all the relevant information as per the generic structure of EIA given in Appendix III in the EIA Notification, 2006. The project shall be appraised on receipt of the final EIA report.

Annexure A

An indicative guideline for assessing the amount of remediation plan and natural and community resource augmentation plan is as under :

EMP Sub-Components									
AP	**WP**	**SHW**	**TP**	**NV**	**GB**	**HG**	**RH/OHS**	**SC**	**CSR/SE**
Air Pollution	**Water Pollution**	**Solid &Haz. Waste**	**Trabnsportation**	**Noise & Vibration**	**Green belt**	**Hydro-Geology**	**Risk Hazards/ Occupational Health & Safety**	**Soil Conservation**	**Corporate Social Responsibility**

Following model calculation shall be used to conclude cost in RS per Day.

Attributes	**Cost Estimation**	**Rs. Per day**
AP	• Water requirement per day for sprinkling of water to curb fugitive emission =	
	• Cost of 1 KL water for sprinkling =	
	Total cost of AP per day	
WP	• Major water pollution envisioned 1. Explore possibility of ground water table	

	intersection. 2. Run off water outside the lease and estimate damage caused considering period of violation in RS.Per day	
SHW	**When there is an overburden** 1. For 1 Ha Lease area equivalent to 10,000 M2 (1 Ha land area)* overburden bed height* Sp Gr of mineral = Tonnage of OB 2. Over burden Tonnage per day: Tonnage of OB/No of working days in a year = MTPD. 3. Over Burden * Rs ABC Per Ton handling charge= Rs Per Day assuming fresh-first year mining	
	When there is no Overburden, only mining waste handling charges are to be considered. 1. Annual Rate of Mining * Avg Percentage of Mining waste per MT * Handling charge in Rs per MT /Nos of days in a year assuming fresh-first year mining	
TP	• Nos. of covered truck plying from the mine lease to main road carrying minerals per day. • Water sprinkling required (KLPD)to curb fugitive emission due to vehicle movement • Cost of Water sprinkling in Rs. Per day:	
	• Compensatory tree plantation to encounter vehicular emission in Nos of tree for five year. • Cost of Tree plantation in Rs per Day.	
NV	• Existence of properties/env. entities within 500 meter of blasting site and if damaged due to blasting. • Nos of such properties/env. Entities. • Buiilt up area of each property/env. Entities • Cost of reconstruction of properties (total)	

	considering current construction cost say Rs 20,000 per Sq. Meter.	
GB	• Green Belt developed in 10% of leased area :Graan belt area in M2. • Presume 1 plant per 4 m2 is to be planted. • Cost of single plant: RS ABC for 5 years. • Lease Area *10% GB = M2 of Green Belt. • M2 of gren belt/4 M2 :Nos of trees/plants. • Cost of Green belt= Rs per tree * NOs of trees / 5 * 300=	
HG	• No major HG issues envisioned, considering ground water is not intercepted	
	• If intersection of ground water is made, cost of one time remediation plan after estimating extent of contamination of ground water	
RH/OHS	• For 1 Ha mine lease = Nos of worker required. • Annual cost of health check for the workers • Cost of health check per day:	
	• Cost of PPE per worker= Rs ABC • Total cost of PPE = Nos of workers * Rs. ABC	
	• Total cost of PPE = health check up + PPE = RS XYZ • Cost of OHS per day =XYZ/300 (days) =	
SC	Cost of preservation, Handling and reuse of Top soil : Rs Per day	
CSR/SE	2% of the project cost per annum (Project cost) * 0.02 / 300 (Days) =	
	Total	**Rs PQR**

Considering above following details shall be furnished.

(A). Cost incurred due to EMP = Rs ( ) * 300 (Nos. of days) = ( ).

(B) Benefits earned due to violation= Production per annum under violation x Sale price announced x % of profit due to violation = BBB.

(C) Cost of Environmental Damage = (A) + (B)

Based on the affected attributes and considering environmental damage, natural resource and Community resource augmentation plan shall be prepared keeping activities mentioned in CER vide OM of MOEF&CC dated 01/05/2018 in view.

ANNEXURE – II
(Terms of Reference for Non Sand Mining Proposals without Blasting)

1. Authentication of ground water level data through concerned agency in order to prevent ground water intersection due to working of mine shall be addressed in detail in EIA.
2. A progressive fencing to be put up surrounding to the mine pit under progress is to be facilitated to prevent casualty during work.
3. Community Health Centre for the entire cluster shall be facilitated on permanent basis through a corpus of cluster members.
4. To form a corpus among the lease holders in cluster to identify need of the villages in vicinity and use fund under CER for effective utilization in consultation with local gram-panchayat /local body for the activities mentioned in OM of MOEF&CC for CER dtd 01.05.2018.
5. To implement all safety measures including protection of lighting in mine as per the guidance manual of DGMS vide circular No: DGMS(Tech) Circular No: 10 of 2020 dtd. 23 June 2020.
6. To conduct survey for the approach road for the entire cluster and making a pacca road/s to be used by the concerned lease holders to be used by vehicles carrying mineral up to main road.
7. To address all safety measures as per the guideline of DGMS including Following:

Sr. No.	Rules	Details
1	Metalliferous Mines Regulations, 1961 Rule 106 (2) (B)	Where in any mine or part it is proposed to work by a system of deep-hole blasting and/or with the help of heavy machinery for its digging, excavation and removal in such manner as would not permit of compliance with the requirement of sub-regulation (1) the owner, agent or manager shall, not less than 60 days before starting such work, give notice in writing of the method of working to the Chief Inspector and the Regional Inspector; and no such work shall be commenced to carried out except in accordance with such conditions as the Chief Inspector may specify by an order in

		writing. Every such notice shall be in duplicate, and shall give the details of the method of working including the precautions that are proposed to be taken against the anger from falls of sides and material.
2	Rule 164 (1-B) (a)	Provided further that if the shortest distance from the place of firing to any part of such building or structure is less than 50 meters irrespective of the amount of the charge, no blasting shall be done except with the permission in writing of the Chief Inspector or the Regional Inspector and subject to such conditions as he may specify therein.
3	Rule 156 (1)	Every magazine, or store or premises, where explosives are stored shall be in charge of a competent person who shall be responsible for the proper receipt, storage an issue of explosives.
4	Rule 156 (3)	Explosives shall be issued only to competent persons upon written requisition signed by the blaster or by a official authorized for the purpose, and only against their signature or thumb impression. Such requisition shall be preserved by the person in charge of the magazine or store or premises.

5	Rule 156 (4)	The person in charge of the magazine or store or premises shall maintain, in a bound paged book kept for the purpose, a clear and accurate record of explosives issued to each competent person and a similar record of explosives returned to the magazine or store or premises.
6	Rule 160 (1)	The preparation of charges an the charging and stemming of holes shall be carried out by or under the personal supervision of a competent person, in these regulations referred to as a 'blaster'. The blaster shall fire the shots himself.
7	Rule 160 (2)	No person shall be appointed to be a blaster unless he is the holder of Manager's, Foreman's Mate's or Blaster's certificate.

8. Vide letter of MOEF&CC dtd 07.07.2020, EIA,EMP submitted shall have Plagiarism report complying all the conditions mentioned therein.
9. Environmental Management Plan with details of capital and recurring cost including following details shall be included in EIA:
   a. *Measures after post closure/working of mine, measures to be adopted as per OM of MOEF&CC dated 16/01/2020 addressing that after ceasing mining operations, PP shall undertake re-grassing of the mining area and any other area which have been disturbed due to mining activities and restore the land to a condition which is for the growth of fodder, flora and fauna.*
   b. *Details of Dust mitigation measures due to mining, handling of mineral, loading, unloading, transportation and other allied activities similar to the applicable measures guided in Notification issued by MOEF&CC dated 25/01/2018 vide GSR 94(E).*

ANNEXURE – III
(Terms of Reference for Non Sand Mining Proposals with Blasting)

1. To prepare SOP for blasting including details measures to be taken to warn trespassers/public in vicinity for blasting and address in EIA.
2. Authentication of ground water level data through concerned agency in order to prevent ground water intersection due to working of mine shall be addressed in detail in EIA.
3. A progressive fencing to be put up surrounding to the mine pit under progress is to be facilitated to prevent casualty during work.
4. Community Health Centre for the entire cluster shall be facilitated on permanent basis through a corpus of cluster members.
5. To carry out activities under CER as mentioned in OM of MOEF&CC dtd 01.05.2018, betterment of Great Bustard sanctuary in consultation with DFO shall be explored and implemented along with its upkeep.
6. To conduct survey for the approach road for the entire cluster and making a pacca road/s to be used by the concerned lease holders to be used by vehicles carrying mineral upto main road.
7. A cumulative environmental impact assessment study shall be carried out considering existing and proposed crushing units in study area.
8. To address all safety measures as per the guideline of DGMS including following:

Sr.No.	Rules	Details
1	Metalliferous Mines Regulations, 1961 Rule 106 (2) (B)	Where in any mine or part it is proposed to work by a system of deep-hole blasting and/or with the help of heavy machinery for its digging, excavation and removal in such manner as would not permit of compliance with the requirement of sub-regulation (1) the owner, agent or manager shall, not less than 60 days before starting such work, give notice in writing of the method of working to the Chief Inspector and the Regional Inspector; and no such work shall be commenced to carried out except in accordance with such conditions as the Chief Inspector may specify by an order in writing. Every such notice shall be in duplicate, and shall give the details of the method of working including the precautions that are proposed to be taken against the anger from falls of sides and material.

2	Rule 164 (1-B) (a)	Provided further that if the shortest distance from the place of firing to any part of such building or structure is less than 50 meters irrespective of the amount of the charge, no blasting shall be done except with the permission in writing of the Chief Inspector or the Regional Inspector and subject to such conditions as he may specify therein.
3	Rule 156 (1)	Every magazine, or store or premises, where explosives are stored shall be in charge of a competent person who shall be responsible for the proper receipt, storage an issue of explosives.
4	Rule 156 (3)	Explosives shall be issued only to competent persons upon written requisition signed by the blaster or by a official authorized for the purpose, and only against their signature or thumb impression. Such requisition shall be preserved by the person in charge of the magazine or store or premises.
5	Rule 156 (4)	The person in charge of the magazine or store or premises shall maintain, in a bound paged book kept for the purpose, a clear and accurate record of explosives issued to each competent person and a similar record of explosives returned to the magazine or store or premises.
6	Rule 160 (1)	The preparation of charges an the charging and stemming of holes shall be carried out by or under the personal supervision of a competent person, in these regulations referred to as a ‘blaster’. The blaster shall fire the shots himself.
7	Rule 160 (2)	No person shall be appointed to be a blaster unless he is the holder of Manager’s,

		Foreman's Mate's or Blaster's certificate.

9. To implement all safety measures regarding protection of lighting in mine as per the guidance manual of DGMS vide circular No: DGMS(Tech) Circular No: 10 of 2020 dtd. 23 June 2020.

10. Carry out need based survey for CER and give details of budgetary provision for five years for effective utilization of the same.

11. Vide letter of MOEF&CC dtd 07.07.2020, EIA,EMP submitted shall have Plagiarism report complying all the conditions mentioned therein.

12. Environmental Management Plan with details of capital and recurring cost including following details shall be included in EIA:

a. *Measures after post closure/working of mine, measures to be adopted as per OM of MOEF&CC dated 16/01/2020 addressing that after ceasing mining operations, PP shall undertake re-grassing of the mining area and any other area which have been disturbed due to mining activities and restore the land to a condition which is for the growth of fodder, flora and fauna.*

b. *Details of Dust mitigation measures due to mining, handling of mineral, loading, unloading, transportation and other allied activities similar to the applicable measures guided in Notification issued by MOEF&CC dated 25/01/2018 vide GSR 94(E).*

ANNEXURE – IV
(Terms of Reference for Ordinary Sand Mining Proposals)

1. Rate of Mining shall be restricted up to the depth of 1 m or the replenishment rate, whichever is less.
2. Authentication of ground water level data through concerned agency in order to prevent ground water intersection due to working of mine shall be addressed in detail in EIA report.
3. Community Health Centre for the entire cluster shall be facilitated on permanent basis through a corpus of cluster members.
4. PP shall submit replenishment rate study report prepared by department of Geology and Mining justifying rate of proposed mining is in accordance to rate of replenishment keeping guideline addressed in Sustainable Sand Mining 2016 and its amendment from time to time issued by MOEF&CC.
5. To form a corpus among the lease holders in cluster to identify need of the villages and commitments made by the project proponent to address concerns raised during the public consultation with inclusion of all the activities proposed by the PP or prescribed by SEAC as the case may be to be part of EMP. A mechanism to monitor implementation of these activities shall be framed by the members making a body among cluster.
6. To implement all safety measures regarding protection of lighting in mine as per the guidance manual of DGMS vide circular No: DGMS(Tech) Circular No: 10 of 2020 dtd. 23 June 2020.
7. To address all the concerns raised during the public consultation and to propose need-based activities preferably covering environmental aspects by the PP and shall be part of EMP vide OM dtd 30.09.2020.
8. To conduct survey for the approach road for the entire cluster and making a pacca road/s to be used by the concerned lease holders to be used by vehicles carrying mineral up to main road.
9. Vide letter of MOEF&CC dtd 07.07.2020, EIA,EMP submitted shall have Plagiarism report complying all the conditions mentioned therein.
10. Environmental Management Plan with details of capital and recurring cost including following details shall be included in EIA:

    a. *Measures after post closure/working of mine, measures to be adopted as per OM of MOEF&CC dated 16/01/2020 addressing that after ceasing mining operations, PP shall undertake re-grassing of the mining area and any other area which have been disturbed due to mining activities and restore the land to a condition which is for the growth of fodder, flora and fauna.*
    b. *Details of Dust mitigation measures due to mining, handling of mineral, loading, unloading, transportation and other allied activities similar to the applicable measures guided in Notification issued by MOEF&CC dated 25/01/2018 vide GSR 94(E).*

ANNEXURE –V
(Conditions for Environment Clearance for Non-Sand Mining without Blasting Proposals)

1. PP shall carry out entire plantation as proposed in first year and maintain the same in subsequent years of lease period.
2. Validity of the EC shall be coterminous with validity of parvana or work order whichever is early.
3. PP shall carry out entire plantation as proposed in first year and maintain the same in subsequent years of lease period.
4. PP shall construct a pacca approach road connecting lease area to the main road with periodic regular maintenance to prevent fugitive dust emission.
5. PP shall implement all the measures proposed in EMP in letter and spirit.
6. PP Shall pursue CER activities in consultation with local authorities / TalukaPanchayat/Gram Panchayat based on need of the local people.
7. No ground water extraction shall be done from within the lease/permit area
8. Pillars mentioning boundary of the lease area shall be provided as per the provision of mining rules/Acts to identify the lease area.
9. Transportation route for vehicles carrying mineral shall have lease minimum pass near human habitation. PP Shall pursue CER activities as proposed in declaration.
10. Dust mitigation measures due to mining, handling of mineral, loading, unloading, transportation and other allied activities shall be implemented in letter and spirit similar to the applicable measures guided in Notification issued by MOEF&CC dated 25/01/2018 vide GSR 94(E).
11. Vide OM of MOEF&CC dated 16/01/2020, PP shall after ceasing mining operations, undertake re-grassing of the mining area and any other area which have been disturbed due to their mining activities and restore the land to a condition which is fit for the growth of fodder, flora and fauna.