

**Minutes of the 273<sup>rd</sup> meeting of the State Level Expert Appraisal Committee held on 08.09.2021 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 273<sup>rd</sup> meeting of the State Level Expert Appraisal Committee (SEAC) was held online by Video Conferencing on NIC was organized on 08.09.2021 at 01.30 pm.

Following members attended the meeting.

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

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. LIMESTONE MINING, DIST: PORBANDAR - TOR VIOLATION – Refer Back from SEIAA**

Application No	Name of Project	S.No.	Village	Taluka	Dist	Lease Area	Validity of lease	ROM	Near est Human Habitation	End Use	Investment in Rs	Date of Application Received by SEAC
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SIA/GJ/M IN/59897/ 2021	Dolatgadh Limestone Mine  Vinja Bhai A. Odedra	Survey No. :- 265 (P)	Dolatgadh	Ranavav	Porbandar	2.0 0.0 0 Ha	Extendable up to 09.01 .2052	45, 00 0 MT PA	Dolatgadh - 0.12 km	Construction	Rs.80 Lakh	16.03 .2021
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The proposal was considered during SEAC meeting dated **26.03.2021**.

The Minutes of Meeting dated 26.03.2021 is as below:

‘Committee deliberated on method of mining, rate of mining, no. of workers and working hours etc. committee deliberated on the location of the lease and distance of same from the nearby Environmental Sensitivities. Committee noted that it is the existing lease. The representative presented the details of production validated by District Geologist, Porbandar vide letter dated 26.08.2020 and also informed the Committee that they had earlier applied for EC on 09.02.2016. While deliberating on the production details, Committee noted that the production was carried out after 31.03.2016 and hence, it is the case of TOR Violation. During the presentation, it was noted by the Committee that the distance of the ESZ boundary from the lease area is just 0.37 km. Considering the distance of ESZ, i.e. 0.37 km and distance criteria, Committee unanimously decided to recommend the proposal for rejection of TOR.’

SEIAA vide its letter no. SEIAA/GUJ/TOR/1(a)/823/2021, dated 11.06.2021 has requested SEAC to reconsider the TOR case for M/s. Dolatgadh Limestone Mine (Vinjabhai A. Odedara) w.r.t. the following point:

‘To verify the proposal in line to the Ministry of Environment, Forest and Climate Change, New Delhi OM F.No. 22-43/2018-IA.III, dated 8<sup>th</sup> August 2019.’

The referred back proposal was scheduled in SEAC meeting dated 08.09.2021 and Shri Rakesh Purohit, EIA Coordinate & Proprietor of M/s R.K Consultants, Jodhpur presented the case before the Committee. Committee noted the below mentioned points:

- The distance of the lease is 0.370 km from the boundary of Eco-Sensitive Zone of Barda Wildlife Sanctuary.
- The distance of the lease is 5.96 km from the boundary of Notified Barda Wildlife Sanctuary.

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Committee referred MoEFCC OM vide F.No. 22-43/2018-IA.III, dated 8<sup>th</sup> August 2019 and MoEFCC letter vide F. No. 6-60/2020WL Part (1), dated 16<sup>th</sup> July 2020 in accordance with order of the Hon'ble Supreme Court dated 04.08.2006 in the matter of T.N. Godavarman Thirumulpad Vs. UOI in W.P.(C) No. 202 of 1995 and noted that the lease area is located outside the Notified Eco-Sensitive Zone of Barda Wildlife Sanctuary and the distance of the lease from the boundary of Notified Barda Wildlife Sanctuary is 5.96 km, which complies the distance criteria as per prevailing rules and regulations as mentioned above. Committee asked to submit Notarized Undertaking stating the clear distance of the lease area from the boundary of Eco-sensitive zone and from the Wildlife Sanctuary. Subsequently, the PP has submitted the Notarized Undertaking dated 20.09.2021 to SEAC through E-Mail.

Committee also noted that it is the case of TOR violation for which PP had applied to obtain EC in past, i.e. on 09.02.2016 and the production details validated by the District Geologist, Porbandar vide letter no. Bhupo/M.L./AKD/1912, dated 26.08.2020 are as below:

Year	Production (Ton)	Year	Production (Ton)
2002	0	2011-12	10
2003	0	2012-13	31
2003-04	6	2013-14	22
2004-05	7	2014-15	22
2005-06	7	2015-16	27
2006-07	5	2016-17	40
2007-08	5	2017-18	40
2008-09	8	2018-19	20
2009-10	8	2019-20	80
2010-11	10	-	-

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 09.02.2016. 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**.

## 2. ORDINARY SAND MINING, DIST: VADODARA

Application No	Name of Project	S.No.	Village	Taluka	District	Lease Area	Validity of lease	River	ROM	Nearest Human Habitation	End Use	Investment in Rs	Date of Application Received by SEAC
SIA/GJ/MIN/63982/2021	MENDPARA SANJAYBHAI D	279 & 280 ne laguNarmada riverbed  Govt. Land	Mandva	Sinor	Vadodara	03.00.00 Ha	LoI issued on 10.12.2020 for 5 years	Narmada	45360 MT PA	Mandva – 1.6 kms	Construction	Rs.59 Lakh	17.08.2021  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	<b>MENDPARA SANJAYBHAI D</b>	
2.	Address of the lease	Survey No. 279 & 280 ne lagu narmada riverbed, Village- Mandva, Taluka- Sinor, District-Vadodara, State: Gujarat.	
3.	Name of lease holder	<b>MENDPARA SANJAYBHAI D</b>	
4.	Lease area (Ha)	<b>3.00.00Ha.</b>	
5.	Cluster Details	applicable	
	a. Total no. of leases in the cluster	17	
	b. No. of TOR granted in cluster	0	
	c. No. of EC granted in cluster	9	
	d. Total area of the cluster	49.27.00 ha.	
	e. Maximum individual lease area	3.50.00 ha.	
	f. Minimum individual lease area	2.00.00 ha.	
6.	Validity of lease with the date of expiry	<ul style="list-style-type: none"> <li>LOI No. GCU/Auction/Minor/Ordinary Sand-Gravel/Mandva/2020-21/5172, Date : 10/12/2020</li> </ul>	
7.	Rate of Mining (MT/Annum)	45,360 MT	
8.	Details of EC obtained (for expansion projects), if any	--	
9.	Name of River Bed	Narmada riverbed	
10.	Is the river perennial / non-perennial?	No	
11.	Lease area (submerged / in stream / on dry river bed)	Dry riverbed	
12.	All coordinates of the lease area as per Approved Mining Plan	<b>Pillar</b>	<b>Latitude</b>
		<b>1</b>	<b>21° 54'17.17"N</b>
			<b>Longitude</b>
			<b>73°17'16.32"E</b>

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		2	21° 54'11.55"N	73°17'11.71"E
		3	21° 54'14.42"N	73°17'7.98"E
		4	21° 54'20.02"N	73°17'12.61"E
13.	Manpower requirement	10 person		
14.	Applicability of CRZ Notification	Not applicable		
15.	Minimum Setback distance proposed to be maintained from River Bed (m)	Approx. 188.89 meter		
16.	Minimum buffer distance from bridge piers / water intake wells / irrigation structures	Not a Such Area Within 1 km. from the proposed project site		
17.	Maximum depth of sand removal (3 m or water depth whichever is less)	1 mtr		
18.	Width of Riverbed (m)	898.84 meter		
19.	Average depth of water at lease area (m)	The ground water table is 7 m (minimum) to 10 m (maximum).		
20.	Depth of mining (m)	1 mtr		
21.	Ground Water Table in meter BGL	The ground water table is 7 m (minimum) to 10 m (maximum).		
22.	Does ground water interfere approach road exit? (Yes / No)  If yes, status report of CGWA	no		
23.	Distance between lease and main road	4.32 km from SH 160		
24.	Length of kaccha road (m)	8.5 mtr		
25.	Length of pacca road (m)	3.9 mtr		
26.	Plan for making pacca road	Pucca road from mining site to Village Road – 0.37 km.		
27.	Source of freshwater	tanker		
28.	Water requirement (kLPD)	2.0		
	a. Domestic	--		
	b. Dust suppression	1.0		
	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	yes		

**B. Environmental Sensitivities:**

Sr NO	Environmental Sensitivities	Actual Distance	Minimum Distance	Reference
1.	Residential	1.72 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	1.72 km.		
	Inhabited sites	0.28 km.		

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2.	A. Major Bridge	Not such area available within 1 km.	1 km	On both sides of the lease (as per Sustainable Sand Mine Guideline of MOEF&CC)
	B. Highway	Not such area available 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)	Not a such area available within 0.50 km.	a.5X in upstream or 250 m. b.10X in downstream or 500 m	As per Sustainable Sand Mine Guideline of MOEF&CC
4.	Public Structure including water intake wells	Not such area available within 0.50 km.	a.5X in upstream or 250 m. b.10X in downstream 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	188.89 meter	10 m or 1/4 <sup>th</sup> 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	45,360 MTPA	60,000 MTPA Per Hectare	As per Sustainable Sand Mine Guideline of MOEF&CC
8.	Water supply Scheme/Irrigation structure	Not such area available within 200 Meter.	200 m	As per Sustainable Sand Mine Guideline of MOEF&CC
9.	Railway Line	Not such area available within 100 Meter.	100 m	As per Sustainable Sand Mine Guideline of MOEF&CC
10.	Reservoir/Canal	Not such area available	100 m	As per CPCB Distance Criteria And order of of NGT

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		within 100 Meter.		before Principal Bench in the O.A. NO 85/2018 ( WZ) dtd 30.09.2020
11.	Other Road	Not such area available within 100 Meter.	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 such area available within 10 km.	(i) Outside the Eco-Sensitive Zone (if located within Notified Eco-Sensitive Zone, Prior Clearance of NBWL required)	As per 3(i) of MoEFCC letter vide no. 6-60/2020WLPart(1), dated 16.07.2020
			(ii) >1 km and <10 km of National Park / Wildlife Sanctuary (Prior Clearance of NBWL may not be applicable)	As per 4(ii) & 4(iv) of MoEFCC OM vide no. 22-43/2018-IA.III, dated 08.08.2019
			(iii) Proposal involving mining of mineral within 1 km from boundary of National Park and Sanctuaries is prohibited	As per 4(iv) of MoEFCC OM vide no. 22-43/2018-IA.III, dated 08.08.2019 in accordance with the order of the Hon'ble Supreme Court dated 04.08.2006 in the matter of T.N. GodavarmanThirumulpad Vs. UOI in W.P.(C) No. 202 of 1995
13.	Eco-Sensitive Zone (if not notified)	Not such area available within 10 km.	(i) Outside the Eco-Sensitive Zone (ii) >1 km and <10 km of National Park / Wildlife Sanctuary (Prior Clearance of NBWL required)	As per 3(ii) of MoEFCC letter vide no. 6-60/2020WLPart(1), dated 16.07.2020
14.	Attraction of General Conditions for change in category from 'B' to 'A'.	Not such area available within 10 km.	0 to 5 km from the boundary of Environmental sensitivities prescribed in the referred Notification	MoEFCC Notification no. S.O. 1599(E), dated 25.06.2014
15.	Distance of Coastal line from the site	Not such area	>500 m from HTL	Amended CRZ Notification 2011

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		available within 500 meter.		
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**C. Details of Mining:**

1.	Method of Mining (Manual / Semi-mechanized / Mechanized).	semi – mechanized open – cast method
2.	Equipments to be used for Mining bulldozers, hydraulic excavators, JCB, scrapers, loaders, Diesel Pump, etc.)	Hitachi – 1 Dumper - 2
3.	Whether it includes blasting?	No
4.	Details of Authorized Blasting Agency with date of validity certificate	--
5.	Procedure / SOP (in brief)	Surface Mining – Site Preparation (Pole Marking) - Excavation and Loading – Haulage and Transportation
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	yes
16.	Whether Replenishment Rate Study is approved by District Geologist?  If yes, conclude in brief	We have Submitted Replenishment Study report is approved by District Geologist After EIA.

**D. Details of Green Belt Development:**

1.	a. Green belt development budget	43,000/-
	b. Green belt area / location	Plantation will be carried out near mining lease area either on riverbank.
	c. No. of trees to be planted	600
	d. Types of trees to be planted	Neem, Babul, Peepal, Amla, Ashopalav

**E. Details of Environment Management Plan:**

S. No.	Parameter	IMPACT	Mitigation Measures
1	<b>AIR ENVIRONMENT</b>	The major sources of air pollution in the proposed mine is in the form of Particulate Matter (PM10) due to various activities like drilling, blasting, excavation, loading & unloading of Ordinary Sand and transportation and	Safe handling practices be adopted to minimize the creation of dust and handling will be limited during windy conditions. Water sprinkling system

	<p>to a limited extent SO<sub>2</sub>, NO<sub>x</sub> due to fossil fuel based vehicles, machines and blasting using explosive and fuel combustion etc.</p> <p>In order to mitigate fugitive dust emissions and other air emissions from the project activities, the following measures are proposed to be adopted.</p>	<p>will be provided in the mine area.</p> <p>Transportation of Ordinary Sand will be in covered vehicles to prevent fugitive dust emission.</p> <p>Speed limit of Truck/trolley will be restricted to 20 Km/h.</p> <p>Plantation will be done around the mine and along the roads.</p> <p>Regular maintenance of vehicles and machinery will be carried out &amp; Pollution under Control (PUC) certified vehicle will be used during transportation in order to control emissions;</p> <p>The road will be properly maintained.</p> <p>Periodical monitoring of Air quality will be done to adopt corrective actions needed.</p>
<p>2 NOISE ENVIRONMENT</p>	<p>There is no continuous source of noise generation from mining activity. Noise generation in mining is due to (1) Vehicle movements (running of trucks.</p> <p>Baseline Noise levels are observed to be well within the prescribe standard of CPCB in the monitored villages</p>	<p>The equipment/machinery will be used during daytime only.</p> <p>Proper preventive maintenance of noise generating machinery including transport vehicles.</p> <p>Plantation will be taken up along the approach roads. The plantation minimizes propagation of noise and also arrests dust.</p> <p>Greenbelt development will be done to reduce ambient noise in the buffer zone of the operations by providing a natural barrier</p> <p>Since it is small scale quarrying, where there is no drilling and blasting is proposed, there will be no back ground noise levels at the site. The area is away from roads where frequent traffic is encountered. General noise levels are expected</p>

		to be less than 80 dBA in the working of the mine
BIOLOGICAL ENVIRONMENT	<p>There are no wildlife sanctuaries or national parks within 10 km radius from the mine boundary. No forest land exists in the leasehold area. Maximum of the Govt. waste land is envisaged to be degraded due to the project.</p> <p>The generation of fugitive dust and airborne dust are controlled at source. Settling of dust over the crop land or vegetation in the surrounding buffer zone will also be negligible.</p> <p>Due to sparse vegetation in the surrounding area, there is insignificant fauna in the immediate vicinity; hence, no adverse impact is anticipated.</p>	<p>The Ordinary Sand mines of this region mainly exist in barren land having moderate rainfall and predominantly semi-arid climatic environment. In such conditions not many species of wildlife exist. For the conservation of fauna, conservation plan as suggested by Forest Officials has been drawn. Besides this, development of greenbelt and plantation in and around the mining area integral part of all mining plans and over a period of time growth of plants will naturally attract variety of animals, which will also help in conservation of fauna.</p> <p>The following specific mitigation measures may help in providing a cleaner environment.</p> <p>Fauna - Since the lease area is not having forest land, no major flora and fauna is found within the region so they may not be affected by the mining operation. Proper measures are anticipated for conservation for the endangered species.</p> <p>Forest Area - No forest area in the ML area. Impact is not anticipated. So, measures are not required.</p>
LAND ENVIRONMENT	<p>Generation of Over Burden / Rejects / Hazardous Waste, If any.</p> <p>Generation of MSW and Incidental waste.</p> <p>Land contamination (by Diesel, oil etc.).</p>	<p>No over burden or waste will be generated during mining activity.</p> <p>It is an Ordinary Sand mining project; no mine waste generation is anticipated.</p> <p>Workers will be hired locally to avoid permanent housing at site, thus the MSW waste generation</p>

		<p>will be minimized.</p> <p>For collection of incidental waste dustbin will be provided at suitable places which will be further disposed off at gram panchayat dump site at regular intervals.</p> <p>Equipments will be regularly serviced and inspected to make sure there are no leaks of oil, diesel, fuel, detergents or hydraulic fluids.</p> <p>No night parking of vehicles in the mining lease area.</p> <p>The depth of mining shall be restricted to 3 m/water level, whichever is less</p>
WATER ENVIRONMENT	<p>Mining is generally carried out to a sufficient depth from the surface.</p> <p>No wastewater discharge is anticipated. During the monsoon rainwater would accumulate in the mining pits, which recharge the water table of the area and accumulated water in the pits will be utilized for sprinkling on haul roads, in working areas etc.</p> <p>There are no streams or nallahs passing through the project site.</p>	<p>Make shift toilets will be made available to the workers near project site.</p> <p>No disposal of sewage will occur on or near the site.</p> <p>Toilets will be provided by the proponent in accordance with DW &amp; S requirements.</p> <p>The ground water table in the mine area is not likely to be effected as no toxic chemicals are present No water body in the mine area.</p> <p>Maximum mining will be 3 meters and ground water table is around 65 meter hence working will not intersect ground water table.</p> <p>No major natural drainage is observed in the mining lease areas.</p> <p>Suitable garland drainage system shall be provided to prevent surface water from entering into mines directly, to reduce soil wash off.</p>
SOCIOECONOMIC ENVIRONMENT	<p>The mining activity will generate socio-economic benefits to the people.</p> <p>In mining activity number of skilled and unskilled workers is employed</p>	<p>Employment opportunities will improve the overall economic development of the labours.</p>

	<p>resulting to generate direct or indirect employment. Additional facilities such as medical, educational and infrastructural development will also take place. While assessing the socio-economic and sociological impact; it has been noticed that, economic level and living standard of people will generally increase. The quality of residential houses and commercial complexes etc. will improve in the surrounding areas.</p> <p>Since the project site area is away from the villages and is on a Government waste land, the resettlement &amp; rehabilitation is not required. Hence, compensation for the land to the villagers will not be applicable. The lessee will take all possible efforts to improve the social life of the surrounding villagers by generating direct &amp; indirect employment. Further, additional aid will be provided to schools, panchayat under social development activity.</p>	<p>Laborers will be provided with onsite basic first aid (first aid box) facility and personal protective equipments (PPE) viz. Face masks, safety shoes etc.</p> <p>First Aid facility and training to workers.</p> <p>Provisions of rest shelter for mine workers with facility of drinking water.</p> <p>Workmen compensation policy.</p> <p>Awareness on safety and ensure using of personal protective equipments (PPE) by workers.</p> <p>Regular maintenance and testing of equipments.</p> <p>Periodical medical examination of all workers and its record will be maintained.</p>
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**F. Transportation:**

1.	No. of vehicles per day carrying Minerals	13									
2.	Fugitive dust emission control measures	<ul style="list-style-type: none"> <li>○ Dust suppression measures like spraying / sprinkling of water</li> <li>○ Transportation of Sand will be in covered vehicles to prevent fugitive dust emission.</li> <li>○ The road will be properly maintained.</li> </ul>									
3.	Route plan in brief	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 60%;">Status of Access road</th> <th style="width: 20%;">Type</th> <th style="width: 20%;">Width of road</th> </tr> </thead> <tbody> <tr> <td>Kachha Road from mining site Nearest</td> <td>Kachcha road</td> <td>8.5 mtr</td> </tr> <tr> <td>Pucca road from mining site to Village Road – 0.37 km.</td> <td>Pucca road</td> <td>3.9 mtr</td> </tr> </tbody> </table>	Status of Access road	Type	Width of road	Kachha Road from mining site Nearest	Kachcha road	8.5 mtr	Pucca road from mining site to Village Road – 0.37 km.	Pucca road	3.9 mtr
Status of Access road	Type	Width of road									
Kachha Road from mining site Nearest	Kachcha road	8.5 mtr									
Pucca road from mining site to Village Road – 0.37 km.	Pucca road	3.9 mtr									

**G. Financial details of the Project:**

1.	Total cost of the project (Lakh)	<b>59,00,000 /-</b>
	a. Upfront cost (Lakh)	1,08,864/-
	b. Performance Security (Lakh)	5,44,320/-
	c. Total Royalty (Lakh)	<b>29,72,816/-</b>
	d. Weigh Bridge Cost (Lakh)	1,00,000
	e. Labor cost equipment & Equipment protection and implementation cost (Lakh)	15,00,000/-

	g. Green Belt Development & maintenance cost (Lakh)	43,000
	h. Cost of EMP (Lakh)	1,51,000
	i. Cost of Safety measures (Lakh)	1,80,000
	j. Cost of Post-Closure Mine Plan (Lakh)	--
2.	Budget allocated for CER (Lakh)	1,11,000 /-
3.	Is need based survey for CER carried out? (Yes / No)  If yes, give details of activities along with Budgetary Outlay	<ul style="list-style-type: none"> <li>As per the Office Memorandum dated 01/05/2018 of Ministry of Mines, Forest and Climate Change, GOI, our project falls under the Greenfield project category having capital investment of Rs. 59,00,000/-</li> <li>We will submit particular break-up details of reserve fund after details need base survey at The time of Baseline Study.</li> </ul>

**H. Restoration / Reclamation Plan:**

1.	Restoration / Reclamation Details	Details are given is approved mining plan.
2.	Post mining closure plan	
3.	Backfilling material and its quantity	
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	NO
2.	Details of Action taken by GPCB, if any	--
3.	Details of public complaint , if any	--
4.	Compliance of EC by RO-GPCB or MoEFCC-Bhopal	--

**J. Contact Details:**

1.	<b>Contact details of Applicant</b>	<b>MENDPARA SANJAYBHAI D</b> B 14, Shayona Krupa Bunglos 116, Nagrik Society, Red Tank, Bhavanagar City, At Post : Bhavnagar , Ta & Dist : Bhavnagar , Gujarat – 364003 <a href="mailto:Sanjay.d.mendpara@gmail.com">Sanjay.d.mendpara@gmail.com</a> +91 9825168051
2.	Name	
3.	Address	
4.	Contact no.	
5.	Email Id	
6.	<b>Contact details of Consultant</b>	Alep Management LLP Zalak Savaliya
7.	Name	

8.	Address	1316, Fortune Business Hub, Nr. Science City Road , Sola, Ahmedabad – 380060 Mobile No. – 8866644142 keshavenviro@gmail.com
9.	Contact no.	
10.	Email Id	

### Deliberation:

- The Project proponent Shri Sanjaybhai Mendpara remained present in the SEAC meeting dated 08.09.2021. Shri Zalak Savaliya from M/s. Alep Management LLP presented the details of the project before the Committee on his behalf during SEAC meeting and he has submitted the Authorization letter for same.
- Committee deliberated on method of mining, rate of mining, no. of working hours and no. of workers, EMP, CER budget and its activities, Green belt development etc.
- He informed the Committee that the proposal for mining of ordinary sand involves semi-mechanized mining.
- Distance of the lease from Environmental Sensitivities was also discussed.
- While deliberating on the Satellite images presented by the consultant, Committee noted that two co-ordinates of the lease are submerged in the riverine water of River Narmada, which is a perennial river.
- The consultant presented satellite images for different years, i.e. from 2016 to 2020, in which the lease was seen under submergence.
- The PP informed the Committee that there is a diversion given to the flow of the river water due to the construction work of Bridge since 2017.
- It is pertinent to note that while deliberating on the submergence aspects during the meeting, the PP set aside the decorum and all the etiquettes of the meeting and started putting the irrelevant & unnecessary points and absurd arguments vociferously before the committee. In spite of this, the Committee tried to explain the PP regarding the prevailing provisions and general stand of the Committee for the Submergence cases. But the PP neither remained calm nor heeded to the words of the Committee. The Committee took a serious note of the misbehavior of the PP exhibited before the Committee during the meeting and also noted that even though the Consultant was knowing all the prevailing provisions for submergence cases, he neither bothered to mediate nor made the PP understand the facts in light of legal provisions.

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:

**273<sup>rd</sup> SEAC meeting through Video Conference dated 08.09.2021**

*“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 notwithstanding the same being part of the leased area in case it is ‘submerged’ or lies within the submerged area.**”*

- Committee noted that the lease area is under submergence and it is the case of instream mining. In view of the above, the Committee unanimously decided to recommend the proposal to SEIAA for rejection.

### 3. CHINA CLAY MINING, DIST: KUTCH – 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/39511/2021	Ganeshbhaailakhmanbhailodani	Private Sr. No. 682/1/5/1 & 682/1/5/2Paiky	Nadapa	Bhuj	Kutch	48441Ha	lease valid up to 2035	70,000 MTPA	Mamuar a – 2.50 km	Ceramic industry	Rs.50 Lakh	17.08.2021  Existing project

The consultant of the PP, Shri Bhanjibhai has requested to list the proposal in upcoming SEAC meeting vide E-Mail dated 07.09.2021 as he cannot make the presentation due to unavoidable circumstances during SEAC meeting dated 08.09.2021. Hence, **273<sup>rd</sup> SEAC meeting through Video Conference dated 08.09.2021**

Committee unanimously decided to defer the proposal and consider the same in upcoming SEAC meeting.

#### 4. BUILDING 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/56642/2021	KarubharjangaJadya	Private Sr. No. 1/13	Miyani	Porbandar	Porbandar	01.00 Ha	Lease agreement dated 21.04.2006	36,000 TPA	Miyani – 0.96 km	Construction	Rs.61.10 Lakh	13.08.2021 Existing

The consultant of the PP, Shri Bhanjibhai has requested to list the proposal in upcoming SEAC meeting vide E-Mail dated 07.09.2021 as he cannot make the presentation due to unavoidable circumstances during SEAC meeting dated 08.09.2021. Hence, Committee unanimously decided to defer the proposal and consider the same in upcoming SEAC meeting.

#### 5. 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
SIA/GJ/MIN/63824/2021	Mining of River bed ordinary sand from ANODIYA ORDINARY SAND BLOCK NO. 7  (HITENDRASINH CHHOTUBHA	Survey No. 1031 Adjoining to Sabarmati Riverbed  Govt. Land	Anodiya	Mansa	Gandhinagar	02.13.00 Ha	LoI issued on 22.11.2019 for 5 years	Sabarmati	30,161 MTPA	Vaghpur – 0.80 km	Construction	Rs.63.98 Lakh	13.08.2021 New project

**273<sup>rd</sup> SEAC meeting through Video Conference dated 08.09.2021**

ZALA)												
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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 ANODIYA BLOCK-7 on the Sabarmati River, near Village: - Anodiya,, Taluka: - Mansa, District: - Gandhinagar, State: - Gujarat															
2.	Address of the lease	Survey No.: 1031 Ne lagu Sabarmati River Bed Paiki Village: Anodiya, Taluka: Mansa District: Gandhinagar															
3.	Name of lease holder	ShriHitendrasinh C. Zala															
4.	Lease area (Ha)	2.13.00 Ha															
5.	Cluster Details																
	a. Total no. of leases in the cluster	135															
	b. No. of TOR granted in cluster	70															
	c. No. of EC granted in cluster	70															
	d. Total area of the cluster	376.71.89 Ha															
	e. Maximum individual lease area	9.75.00 Ha															
	f. Minimum individual lease area	0.60.70 Ha															
6.	Validity of lease with the date of expiry	5 years															
7.	Rate of Mining (MT/Annum)	30161 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)	On Dry River Bed															
12.	All coordinates of the lease area as per Approved Mining Plan	<table border="1"> <thead> <tr> <th>Point</th> <th>Latitude</th> <th>Longitude</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>23°28'24.6119"N</td> <td>72°49'04.1425"E</td> </tr> <tr> <td>B</td> <td>23°28'23.8419"N</td> <td>72°49'02.2233"E</td> </tr> <tr> <td>C</td> <td>23°28'36.3629"N</td> <td>72°48'56.2522"E</td> </tr> <tr> <td>D</td> <td>23°28'36.8939"N</td> <td>72°48'57.6127"E</td> </tr> </tbody> </table>	Point	Latitude	Longitude	A	23°28'24.6119"N	72°49'04.1425"E	B	23°28'23.8419"N	72°49'02.2233"E	C	23°28'36.3629"N	72°48'56.2522"E	D	23°28'36.8939"N	72°48'57.6127"E
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D	23°28'36.8939"N	72°48'57.6127"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.															

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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 3 m.
18.	Width of Riverbed (m)	414.10 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	20m
22.	Does ground water interfere approach road exit? (Yes / No)  If yes, status report of CGWA	No
23.	Distance between lease and main road	2.70km
24.	Length of kaccha road (m)	0.90 km
25.	Length of pacca road (m)	1.50 km
26.	Plan for making pacca road	No
27.	Source of fresh water	Water Tankers
28.	Water requirement (kLPD)	4
	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	Anodiya Village – 3.30 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 - 3.85 km,		

		North-west		
	Inhabited sites	Not in 10 km of study area		
2.	A. Major Bridge	Not Applicable	1 km	On both sides of the lease (as per Sustainable Sand Mine Guideline of MOEF&CC)
	B. Highway	NH- 8-6.29 km, East SH No. 138 – 3.20 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 downstream 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 downstream 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 <sup>th</sup> 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	30161 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	Prantij Railway Station – 6.90 km, South-east	100 m	As per Sustainable Sand Mine Guideline of MOEF&CC
10.	Reservoir/Canal	Not in 1 km of project study area	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 – 2.59 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	(iv) Outside the Eco-Sensitive Zone (if located within Notified Eco-Sensitive Zone, Prior Clearance of NBWL required)	As per 3(i) of MoEFCC letter vide no. 6-60/2020WLPart(1), dated 16.07.2020
			(v) >1 km and <10 km of National Park / Wildlife Sanctuary (Prior Clearance of NBWL may not be applicable)	As per 4(ii) & 4(iv) of MoEFCC OM vide no. 22-43/2018-IA.III, dated 08.08.2019
			(vi) Proposal involving mining of mineral within 1 km from boundary of	As per 4(iv) of MoEFCC OM vide no. 22-43/2018-IA.III, dated 08.08.2019 in accordance with the order of the Hon'ble Supreme Court dated 04.08.2006 in the matter

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			National Park and Sanctuaries is prohibited	of T.N. Godavarman Thirumulpad Vs. UOI in W.P.(C) No. 202 of 1995
13.	Eco-Sensitive Zone (if not notified)	Not in 10 km of project area	(iii) Outside the Eco-Sensitive Zone  (iv) >1 km and <10 km of National Park / Wildlife Sanctuary (Prior Clearance of NBWL required)	As per 3(ii) of MoEFCC letter vide no. 6-60/2020WLP(1), dated 16.07.2020
14.	Attraction of General Conditions for change in category from 'B' to 'A'.	Not applicable	0 to 5 km from the boundary of Environmental sensitivities prescribed in the referred Notification	MoEFCC Notification no. S.O. 1599(E), dated 25.06.2014
15.	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).	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	No

**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.)	<p>Regular maintenance of machinery will keep the generated noise level below the minimum prescribed limits</p> <p>Minimum use of Horns at the village area</p> <p>Timely maintenance of vehicles and their silencers to minimize vibration and sound</p> <p>Phasing out of old and worn out trucks.</p> <p>Awareness will be imparted prior to mining operations to all the operators &amp; other persons concerned, so that they must be aware of detrimental effects of noise pollution</p>
	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	<p>Occupational health check-up for the workers shall be carried out</p> <p>Safety training from time to time to all staff</p> <p>Providing Helmet, Safety Shoes &amp; Hand Gloves</p> <p>Various amenities like drinking water, rest shelter &amp; toilet will be provided to workers.</p>
	g. Others		
<b>2.</b>	Occupational health & safety measures as per DGMS	Occupational health safety measures will be taken as per DGMS	
<b>3.</b>	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	yes	

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	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.63,97,927/-
	a. Upfront cost (Lakh)	Rs. 97,057/-
	b. Performance Security (Lakh)	Rs. 3,61,930/-
	c. Total Royalty (Lakh)	Rs. 12,06,440/-
	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. 18, 75,000/-
	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	-
<b>I. Details of Legal Action / Court Case:</b>		
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
<b>J. Contact Details:</b>		
1.	<b>Contact details of Applicant</b>	
2.	Name	ShriHitendrasinh C. Zala
3.	Address	At. Rajrajeshwer Society, Behind Sunrise School, Dalmil Road, Surendranagar, Taluka& District – Surendranagar, Gujarat - 363001
4.	Contact no.	9624201111
5.	Email Id	hitendrasinhzala2021@gmail.com
6.	<b>Contact details of Consultant</b>	
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	gujarat@ultratech.in

### Deliberation:

- Shri Arun Kumar presented the details of the project before the Committee on behalf the PP during SEAC meeting dated 08.09.2021 and he has submitted the Authorization letter for same.
- Committee deliberated on method of mining, rate of mining, no. of working hours and no. of workers, EMP, CER budget and its activities, Green belt development etc.
- He informed the Committee that the proposal for mining of ordinary sand involves semi-mechanized mining.
- Distance of the lease from Environmental Sensitivities was also discussed. While deliberating on the Satellite images, Shri Arun Kumar informed the Committee that the lease area is submerged in the riverine water of River Sabarmati. He

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presented satellite images for past few years, dated 14.01.2021, 21.01.2019, 29.11.2018, 14.02.2016 etc.

- Committee noted that the lease area is submerged and it is the case of instream mining.

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 notwithstanding the same being part of the leased area in case it is ‘submerged’ or lies within the submerged area.**”*

In view of the above, the Committee unanimously decided to recommend the proposal to SEIAA for rejection.

#### 6. 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

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SIA/GJ/M IN/63911/ 2021	Mining of River bed ordinary sand from ANODIYA ORDINA RY SAND BLOCK NO. 9 on the Sabarmati River,  (HITEND RASINH CHHOTU BHA ZALA )	Survey No. 977, 1022 & 103 Adjoinin g to Sabarm ati Riverbe d  Govt. Land	Ano diya	Man sa	G an dh in ag ar	02.3 8.00 Ha	Lol issue d on 22.1 1.20 19 for 5 years	Sab arm ati	34, 986 MT PA	Vaghp ur village - 1.09 km	Cons tructi on	Rs.62 .96 Lakh	13.08. 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 ANODIYA BLOCK NO. 9 on the Sabarmati River, near Village: - Anodiya, Taluka: - Mansa, District: - Gandhinagar, State: - Gujarat
2.	Address of the lease	Survey No: 977, 1022 & 103 Adjoining to Sabarmati Riverbed Village: Anodiya, Taluka: Mansa District: Gandhinagar
3.	Name of lease holder	ShriHitendrasinh C. Zala
4.	Lease area (Ha)	2.38.00
5.	Cluster Details	
	a. Total no. of leases in the cluster	135
	b. No. of TOR granted in cluster	70
	c. No. of EC granted in cluster	70
	d. Total area of the cluster	376.71.89Ha
	e. Maximum individual lease area	9.75.00 Ha
	f. Minimum individual lease area	0.60.70Ha
6.	Validity of lease with the date of expiry	5 years
7.	Rate of Mining (MT/Annum)	34,986 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

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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	Point	Latitude	Longitude
		A	23°28'52.5748"N	72°48'42.2047"E
		B	23°28'51.1255"N	72°48'39.6409"E
		C	23°28'59.4898"N	72°48'34.3248"E
		D	23°29'00.7854"N	72°48'36.5246"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 3 m.		
18.	Width of Riverbed (m)	659.48		
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	20m		
22.	Does ground water interfere approach road exit? (Yes / No)  If yes, status report of CGWA	No		
23.	Distance between lease and main road	2.09km		
24.	Length of kaccha road (m)	1.19 km		
25.	Length of pacca road (m)	1.65 km		
26.	Plan for making pacca road	No		
27.	Source of fresh water	Water Tankers		
28.	Water requirement (KLPD)	4		
	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	Yes		

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**B. Environmental Sensitivities:**

Sr NO	Environmental Sensitivities	Actual Distance	Minimum Distance	Reference
1.	Residential	Vaghpur Village, 1.09 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 2.95 km, North-west		
	Inhabited sites	Not in 10 km of study area		
2.	A. Major Bridge	N/A	1 km	On both sides of the lease (as per Sustainable Sand Mine Guideline of MOEF&CC)
	B. Highway	NH No. 8 – 8.18 km, East  SH No. 138 – 3.87 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 downstream 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 downstream 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 <sup>th</sup> 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	34986 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	Prantij Railway Station – 7.96 km, South-east	100 m	As per Sustainable Sand Mine Guideline of MOEF&CC
10.	Reservoir/Canal	Not in 1 km of project study area	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 - 2.15 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	(i) Outside the Eco-Sensitive Zone (if located within Notified Eco-Sensitive Zone, Prior Clearance of NBWL required)	As per 3(i) of MoEFCC letter vide no. 6-60/2020WLPart(1), dated 16.07.2020
			(ii) >1 km and <10 km of National Park / Wildlife Sanctuary (Prior Clearance of NBWL may not be applicable)	As per 4(ii) & 4(iv) of MoEFCC OM vide no. 22-43/2018-IA.III, dated 08.08.2019

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			(iii) Proposal involving mining of mineral within 1 km from boundary of National Park and Sanctuaries is prohibited	As per 4(iv) of MoEFCC OM vide no. 22-43/2018-IA.III, dated 08.08.2019 in accordance with the order of the Hon'ble Supreme Court dated 04.08.2006 in the matter of T.N. Godavarman Thirumulpad Vs. UOI in W.P.(C) No. 202 of 1995
13.	Eco-Sensitive Zone (if not notified)	Not in 10 km of project area	(i) Outside the Eco-Sensitive Zone  (ii) >1 km and <10 km of National Park / Wildlife Sanctuary (Prior Clearance of NBWL required)	As per 3(ii) of MoEFCC letter vide no. 6-60/2020WLP(1), dated 16.07.2020
14.	Attraction of General Conditions for change in category from 'B' to 'A'.	NA	0 to 5 km from the boundary of Environmental sensitivities prescribed in the referred Notification	MoEFCC Notification no. S.O. 1599(E), dated 25.06.2014
15.	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

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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	No

**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

			<p>form</p> <p>Proper tuning of Engine of vehicles will be ensured to keep the gas emissions from the vehicles within the prescribed norms.</p> <p>Plantation of trees along the roads will be done to attenuate the impact of dust in the nearby villages /surrounding area.</p>
	d. Noise Environment	Noise generated from extraction, exploration of minerals & from vehicles (dumpers, trucks and excavation etc.)	<p>Regular maintenance of machinery will keep the generated noise level below the minimum prescribed limits</p> <p>Minimum use of Horns at the village area</p> <p>Timely maintenance of vehicles and their silencers to minimize vibration and sound</p> <p>Phasing out of old and worn out trucks.</p> <p>Awareness will be imparted prior to mining operations to all the operators &amp; other persons concerned, so that they must be aware of detrimental effects of noise pollution</p>
	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	<p>Occupational health check-up for the workers shall be carried out</p> <p>Safety training from time to time to all staff</p> <p>Providing Helmet, Safety Shoes &amp; Hand Gloves</p> <p>Various amenities like drinking water, rest shelter &amp; toilet will be provided to workers.</p>
	g. Others		
<b>2.</b>	Occupational health & safety measures as per DGMS	Occupational health safety measures will be taken as per DGMS	

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<b>3.</b>	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:**

<b>1.</b>	No. of vehicles per day carrying Minerals	18 vehicles per day
<b>2.</b>	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
<b>3.</b>	Route plan in brief	Mined out ordinary sand will be transported through the pucca road

**G. Financial details of the Project:**

	Total cost of the project (Lakh)	Rs.62,96,224/-
	a. Upfront cost (Lakh)	Rs. 1,94,452/-
	b. Performance Security (Lakh)	Rs. 4,19,832/-
	c. Total Royalty (Lakh)	Rs. 13,99,440/-
	d. Weigh Bridge Cost (Lakh)	Will be installed in Anodiya Block-7
	e. Labor cost equipment (Lakh)	Rs. 16,87,500/-
<b>1.</b>	f. Equipment protection and implementation cost (Lakh)	Rs. 18, 75,000
	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)	-
<b>2.</b>	Budget allocated for CER (Lakh)	Rs.3,00,000/- (Three Lakh) as principal amount

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

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	human accidents/ casualties	
6.	Display of Caution Boards at strategic locations on the periphery of the pit area	-
7.	Final Use of reservoir/ reclaimed land	-
<b>I. Details of Legal Action / Court Case:</b>		
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
<b>J. Contact Details:</b>		
1.	<b>Contact details of Applicant</b>	
2.	Name	ShriHitendrasinh C. Zala
3.	Address	At. Rajrajeshwer Society, Behind Sunrise School, Dalmil Road, Surendranagar, Taluka& District – Surendranagar, Gujarat - 363001
4.	Contact no.	9624201111
5.	Email Id	hitendrasinhzala2021@gmail.com
6.	<b>Contact details of Consultant</b>	
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	gujarat@ultratech.in

### Deliberation:

- Shri Arun Kumar presented the details of the project before the Committee on behalf the PP during SEAC meeting dated 08.09.2021 and he has submitted the Authorization letter for same.
- Committee deliberated on method of mining, rate of mining, no. of working hours and no. of workers, EMP, CER budget and its activities, Green belt development, cluster situation etc.
- He informed the Committee that the proposal for mining of ordinary sand involves semi-mechanized mining.
- Distance of the lease from Environmental Sensitivities was also discussed and found as per the prescribed criteria. He informed the Committee that the lease

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area is not under submergence and it is not the case of instream mining. He also presented satellite images of last five years showing the lease area dry.

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 – III.**

#### 7. ORDINARY SAND MINING, DIST: GANDHINAGAR

Application No	Name of Project	S.No.	Village	Taluka	District	Lease Area	Validity of lease	River	ROM	Nearest Human Habitation	End Use	Investment in Rs	Date of Application Received by SEAC
SIA/GJ/MIN/63892/2021	Mining of River bed ordinary sand from ANODIYA ORDINARY SAND BLOCK NO. 8 on the Sabarmati River, (HITEND RASINH CHHOTU BHA ZALA)	Survey No. 1031 Adjoining to Sabarmati Riverbed  Govt. Land	Anodiya	Mansa	Gandhinagar	2.83 .00 Ha	Lol issued on 22.11.2019 for 5 years	Sabarmati	41,601 MT PA ha	Vaghpur village – 0.95 km	Construction	Rs.63 .02 Lakh	13.08.2021  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 ANODIYA BLOCK NO. 8 on the Sabarmati River, near Village: - Anodiya, Taluka: - Mansa, District: - Gandhinagar, State: - Gujarat
2.	Address of the lease	Survey No. 1031 Adjoining to Sabarmati Riverbed

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		Village: Anodiya, Taluka: Mansa District: Gandhinagar																		
3.	Name of lease holder	Shri Hitendrasinh C. Zala																		
4.	Lease area (Ha)	2.83.00																		
5.	Cluster Details																			
	a. Total no. of leases in the cluster	135																		
	b. No. of TOR granted in cluster	70																		
	c. No. of EC granted in cluster	70																		
	d. Total area of the cluster	376.71.89 Ha																		
	e. Maximum individual lease area	9.75.00 Ha																		
	f. Minimum individual lease area	0.60.70 Ha																		
6.	Validity of lease with the date of expiry	5 years																		
7.	Rate of Mining (MT/Annum)	41,601 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)	On Dry River Bed																		
12.	All coordinates of the lease area as per Approved Mining Plan	<table border="1"> <thead> <tr> <th>Point</th> <th>Latitude</th> <th>Longitude</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>23°28'51.1255"N</td> <td>72°48'39.6409"E</td> </tr> <tr> <td>B</td> <td>23°28'52.5748"N</td> <td>72°48'42.2047"E</td> </tr> <tr> <td>C</td> <td>23°28'44.5595"N</td> <td>72°48'47.7494"E</td> </tr> <tr> <td>D</td> <td>23°28'42.6252"N</td> <td>72°48'45.2325"E</td> </tr> <tr> <td>E</td> <td>23°28'43.1292"N</td> <td>72°48'44.4364"E</td> </tr> </tbody> </table>	Point	Latitude	Longitude	A	23°28'51.1255"N	72°48'39.6409"E	B	23°28'52.5748"N	72°48'42.2047"E	C	23°28'44.5595"N	72°48'47.7494"E	D	23°28'42.6252"N	72°48'45.2325"E	E	23°28'43.1292"N	72°48'44.4364"E
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D	23°28'42.6252"N	72°48'45.2325"E																		
E	23°28'43.1292"N	72°48'44.4364"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 3 m																		
18.	Width of Riverbed (m)	572.76m																		
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	20m																		
22.	Does ground water interfere approach road exit? (Yes / No)	No																		

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	If yes, status report of CGWA	
23.	Distance between lease and main road	2.21 km
24.	Length of kaccha road (m)	1.14 km
25.	Length of pacca road (m)	1.53 km
26.	Plan for making pacca road	No
27.	Source of fresh water	Water Tankers
28.	Water requirement (KLPD)	4
	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	Vagpur Village, 0.95 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 3.20 km, North-west		
	Inhabited sites	Not in 10 km of study area		
2.	A. Major Bridge	N/A	1 km	On both sides of the lease (as per Sustainable Sand Mine Guideline of MOEF&CC)
	B. Highway	NH No. 8 - 7.35 km, East SH No. 138 – 3.68 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	As per Sustainable Sand Mine Guideline of MOEF&CC

			downstream or 500 m	
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 downstream 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 <sup>th</sup> 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	41601 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	Prantij Railway Station – 7.64 km, South-east	100 m	As per Sustainable Sand Mine Guideline of MOEF&CC
10.	Reservoir/Canal	Not in 1 km of project study area	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	GandhinagarVijapur Road – 8.27 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	(iv) Outside the Eco-Sensitive Zone (if located	As per 3(i) of MoEFCC letter vide no. 6-60/2020WLP(1), dated 16.07.2020

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			within Notified Eco-Sensitive Zone, Prior Clearance of NBWL required)	
			(v) >1 km and <10 km of National Park / Wildlife Sanctuary (Prior Clearance of NBWL may not be applicable)	As per 4(ii) & 4(iv) of MoEFCC OM vide no. 22-43/2018-IA.III, dated 08.08.2019
			(vi) Proposal involving mining of mineral within 1 km from boundary of National Park and Sanctuaries is prohibited	As per 4(iv) of MoEFCC OM vide no. 22-43/2018-IA.III, dated 08.08.2019 in accordance with the order of the Hon'ble Supreme Court dated 04.08.2006 in the matter of T.N. GodavarmanThirumulpad Vs. UOI in W.P.(C) No. 202 of 1995
13.	Eco-Sensitive Zone (if not notified)	Not in 10 km of project area	(iii) Outside the Eco-Sensitive Zone  (iv) >1 km and <10 km of National Park / Wildlife Sanctuary (Prior Clearance of NBWL required)	As per 3(ii) of MoEFCC letter vide no. 6-60/2020WLP(1), dated 16.07.2020
14.	Attraction of General Conditions for change in category from 'B' to 'A'.	NA	0 to 5 km from the boundary of Environmental sensitivities prescribed in the referred Notification	MoEFCC Notification no. S.O. 1599(E), dated 25.06.2014
15.	Distance of Coastal line from the site	NA	>500 m from HTL	Amended CRZ Notification 2011

**C. Details of Mining:**

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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	No

**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	Sewage water will be passed into soak pit of septic tanks. Discharge

		requirement will be 4 KLD for dust suppression (2 KLD), domestic (1 KLD) and plantation (1 KLD), which will be sourced from water tanker.	of sewage or other effluents to water or the land is not expected.
	c. Air Environment	Dust emission during excavation and transportation, vehicular movement	<p>Water sprinkling will be done on the roads regularly</p> <p>Care will be taken to prevent spillage by covering the carrying vehicles with tarpaulin and sprinkling of water, if in dry form</p> <p>Proper tuning of Engine of vehicles will be ensured to keep the gas emissions from the vehicles within the prescribed norms.</p> <p>Plantation of trees along the roads will be done to attenuate the impact of dust in the nearby villages /surrounding area.</p>
	d. Noise Environment	Noise generated from extraction, exploration of minerals & from vehicles (dumpers, trucks and excavation etc.)	<p>Regular maintenance of machinery will keep the generated noise level below the minimum prescribed limits</p> <p>Minimum use of Horns at the village area</p> <p>Timely maintenance of vehicles and their silencers to minimize vibration and sound</p> <p>Phasing out of old and worn out trucks.</p> <p>Awareness will be imparted prior to mining operations to all the operators &amp; other persons concerned, so that they must be aware of detrimental effects of noise pollution</p>
	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	<p>Occupational health check-up for the workers shall be carried out</p> <p>Safety training from time to time to</p>

			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.66,02,089/-				
	a. Upfront cost (Lakh)	Rs. 1,56,337/-				
	b. Performance Security (Lakh)	Rs. 4,99,212/-				
	c. Total Royalty (Lakh)	Rs. 16,64,040/-				
	d. Weigh Bridge Cost (Lakh)	Will be Installed in Anodiya Block-7				
	e. Labor cost equipment (Lakh)	Rs. 16,87,500/-				
	f. Equipment protection and implementation cost (Lakh)	Rs. 18, 75,000				
	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

**J. Contact Details:**

1.	<b>Contact details of Applicant</b>	
2.	Name	ShriHitendrasinh C. Zala
3.	Address	At. Rajrajeshwer Society, Behind Sunrise School, Dalmil Road, Surendranagar, Taluka& District – Surendranagar, Gujarat - 363001
4.	Contact no.	9624201111
5.	Email Id	hitendrasinhzala2021@gmail.com
6.	<b>Contact details of Consultant</b>	
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	gujarat@ultratech.in

**Deliberation:**

**273<sup>rd</sup> SEAC meeting through Video Conference dated 08.09.2021**

- Shri Arun Kumar presented the details of the project before the Committee on behalf the PP during SEAC meeting dated 08.09.2021 and he has submitted the Authorization letter for same.
- Committee deliberated on method of mining, rate of mining, no. of working hours and no. of workers, EMP, CER budget and its activities, Green belt development, cluster situation etc.
- He informed the Committee that the proposal for mining of ordinary sand involves semi-mechanized mining.
- Distance of the lease from Environmental Sensitivities was also discussed and found as per the prescribed criteria. He informed the Committee that the lease area is not under submergence and it is not the case of instream mining. He also presented satellite images of last five years showing the lease area dry.

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 – III.**

#### 8. 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/M IN/64101/2021	Mining of River bed ordinary sand from VAGHPU R ORDINARY SAND BLOCK NO. 26 on the Sabarmati River near	Survey No. 642 ne lagu Sabarmati Riverbed Govt. Land	Vaghpur	Pra ntij	Sa bar Ka nth a	2.80 .00 Ha	Lol issued on 11.0 3.20 20 for 5 years	Saba rmati	4023 4 MTP A	Vaghp ur village – 2.16 km	Con struction	Rs.78. 40 Lakh	17.08. 2021 New projec t
	H M												

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GRANITE AND MINERAL (HASMU KHBHAI PATEL)														
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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 VAGHPUR ORDINARY SAND BLOCK NO. 26 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	H M Granite And Mineral Proprietor Hashmukh Patel															
4.	Lease area (Ha)	2.80.00															
5.	Cluster Details																
	a. Total no. of leases in the cluster	182															
	b. No. of TOR granted in cluster	75															
	c. No. of EC granted in cluster	70															
	d. Total area of the cluster	506.76.61Ha															
	e. Maximum individual lease area	9.75.00Ha															
	f. Minimum individual lease area	0.34.50 Ha															
6.	Validity of lease with the date of expiry	5 years															
7.	Rate of Mining (MT/Annum)	40,234MTPA															
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)	On Dry River Bed															
12.	All coordinates of the lease area as per Approved Mining Plan	<table border="1"> <thead> <tr> <th>Point</th> <th>Latitude</th> <th>Longitude</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>23°29'56.67"N</td> <td>72°49'12.71"E</td> </tr> <tr> <td>B</td> <td>23°29'57.35"N</td> <td>72°49'7.56"E</td> </tr> <tr> <td>C</td> <td>23°30'4.20"N</td> <td>72°49'7.13"E</td> </tr> <tr> <td>D</td> <td>23°30'4.71"N</td> <td>72°49'10.62"E</td> </tr> </tbody> </table>	Point	Latitude	Longitude	A	23°29'56.67"N	72°49'12.71"E	B	23°29'57.35"N	72°49'7.56"E	C	23°30'4.20"N	72°49'7.13"E	D	23°30'4.71"N	72°49'10.62"E
Point	Latitude	Longitude															
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C	23°30'4.20"N	72°49'7.13"E															
D	23°30'4.71"N	72°49'10.62"E															
13.	Manpower requirement	10-15															
14.	Applicability of CRZ Notification	NA															
15.	Minimum Setback distance	Minimum Setback distance from riverbank is															

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	proposed to be maintained from River Bed (m)	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 3 m.
18.	Width of Riverbed (m)	530 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	26 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	3.53km
24.	Length of kaccha road (m)	1.58 km
25.	Length of pacca road (m)	3.53 km
26.	Plan for making pacca road	No
27.	Source of fresh water	Water Tankers
28.	Water requirement (kLPD)	4
	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, 2.16 km, South-east	100 m	As per order of NGT before Principal Bench in the O.A. NO 85/2018 ( WZ) dtd 30.09.2020
	Public buildings	Mahudi Temple 3.60 km, South-west	(When Blasting is not involved)	

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	Inhabited sites	Not in 10 km of study area		
2.	A. Major Bridge	N/A	1 km	On both sides of the lease (as per Sustainable Sand Mine Guideline of MOEF&CC)
	B. Highway	NH No. 8 – 11.1 km, East SH No. 138 – 6.18 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	e.5X in upstream or 250 m. f. 10X in downstream 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 downstream 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 <sup>th</sup> 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	40234 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 – 9.19	100 m	As per Sustainable Sand Mine Guideline of

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		km, North-west		MOEF&CC
10.	Reservoir/Canal	Not in 1 km of project study area	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 – 3.77 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	(i) Outside the Eco-Sensitive Zone (if located within Notified Eco-Sensitive Zone, Prior Clearance of NBWL required)	As per 3(i) of MoEFCC letter vide no. 6-60/2020WLPart(1), dated 16.07.2020
			(ii) >1 km and <10 km of National Park / Wildlife Sanctuary (Prior Clearance of NBWL may not be applicable)	As per 4(ii) & 4(iv) of MoEFCC OM vide no. 22-43/2018-IA.III, dated 08.08.2019
			(iii) Proposal involving mining of mineral within 1 km from boundary of National Park and Sanctuaries is prohibited	As per 4(iv) of MoEFCC OM vide no. 22-43/2018-IA.III, dated 08.08.2019 in accordance with the order of the Hon'ble Supreme Court dated 04.08.2006 in the matter of T.N. GodavarmanThirumulpad Vs. UOI in W.P.(C) No. 202 of 1995
13.	Eco-Sensitive Zone (if not notified)	Not in 10 km of project area	(v) Outside the Eco-Sensitive Zone	As per 3(ii) of MoEFCC letter vide no. 6-60/2020WLPart(1), dated 16.07.2020

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			(vi) >1 km and <10 km of National Park / Wildlife Sanctuary (Prior Clearance of NBWL required)	
14.	Attraction of General Conditions for change in category from 'B' to 'A'.	NA	0 to 5 km from the boundary of Environmental sensitivities prescribed in the referred Notification	MoEFCC Notification no. S.O. 1599(E), dated 25.06.2014
15.	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	No

**D. Details of Green Belt Development:**

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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

			<p>village area</p> <p>Timely maintenance of vehicles and their silencers to minimize vibration and sound</p> <p>Phasing out of old and worn out trucks.</p> <p>Awareness will be imparted prior to mining operations to all the operators &amp; other persons concerned, so that they must be aware of detrimental effects of noise pollution</p>
	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	<p>Occupational health check-up for the workers shall be carried out</p> <p>Safety training from time to time to all staff</p> <p>Providing Helmet, Safety Shoes &amp; Hand Gloves</p> <p>Various amenities like drinking water, rest shelter &amp; toilet will be provided to workers.</p>
	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	yes	

	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.78,40,684/-				
	a. Upfront cost (Lakh)	Rs. 1,62,304/-				
	b. Performance Security (Lakh)	Rs. 8,11,520/-				
	c. Total Royalty (Lakh)	Rs. 16,09,360/-				
	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/-				
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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	40,000	30,000	30,000

		Area			
		Drinking water in villages	20,000	20,000	20,000
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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:**

<b>1.</b>	<b>Contact details of Applicant</b>	
<b>2.</b>	Name	H M Granite And Mineral Proprietor Hashmukh Patel
<b>3.</b>	Address	R/o. Mohanlal Patel, J-11, satellite Park, Jodhpur Cross Road, Star Bazar, Satellite, Ahmedabad City, AmbawadiVistar, Gujarat-380015.
<b>4.</b>	Contact no.	8980895952
<b>5.</b>	Email Id	hmgranite99@gmail.com
<b>6.</b>	<b>Contact details of Consultant</b>	
<b>7.</b>	Name	ULTRATECH ENVIRONMENTAL CONSULTANCY AND LABORATORY(Gazetted By MoEF) Accredited EIA Consultant Organization by NABET, QCI NABET/EIA/1720/RA0094
<b>8.</b>	Address	Head Office : 206, Jai Commercial Complex, Khopat Thane (W), Maharashtra
<b>9.</b>	Contact no.	9674488198/9558117469
<b>10.</b>	Email Id	gujarat@ultratech.in

#### **Deliberation:**

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- Committee deliberated on method of mining, rate of mining, no. of working hours and no. of workers, EMP, CER budget and its activities, Green belt development, cluster situation etc.
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- Distance of the lease from Environmental Sensitivities was also discussed and found as per the prescribed criteria. He informed the Committee that the lease area is not under submergence and it is not the case of instream mining. He also presented satellite images of last five years showing the lease area dry.

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 – III.**

**9. BLACK TRAP MINING, DIST: JAMNAGAR – 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/62596/2021	KHATIYA BERAJA BLACK TRAP QUARRY AREA)  (SHRI KIRITBHAI RAVJIBHAI KALAWADIA)	Survey No. 10 P  Govt. Land	Khatiya Beraja	Lalpur	Jamnagar	1.00 Ha.	Lease grant no. GJ/QL/8091/2636, dated 28.12.2005	14,966 MTPA	Nana Lakhya – 1.59 km	Construction	Rs.5 Lakh	09.08.2021  Existing Lease

The representative of M/s. Enviro Infra Solutions Pvt. Ltd., Ghaziabad (NCR) has informed vide E-Mail dated 06.09.2021 that ‘the miner is not providing them the details of the project and hence, there is no point in presenting the case in the meeting dated 08.09.2021’. He himself requested the Committee to defer the proposal and consider the same in upcoming SEAC meeting. Committee remarked to the consultant that the details of the project / proposal are to be available to the consultant at the time of application only and the consultant shall try to ensure it timely.

In view of the above, the Committee unanimously decided to defer the proposal and consider the same in upcoming SEAC meeting.

**10. BLACK TRAP MINING, DIST: JAMNAGAR – 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
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SIA/GJ/MIN/62617/2021	KHATIYA BERAJA BLACK TRAP QUARRY AREA  (M/S. KRISHNA CONSTRUCTION)	Survey No. 10 P	Khatiya Beraja	Lalpur	Jamnagar	1.00Ha	Lease agreement dated 21.04.2006 vide no.GJ/QL/8100/2421	14,961 MTPA	2.80 km	Construction	Rs.5 Lakh	09.08.2021  Existing lease
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The representative of M/s. Enviro Infra Solutions Pvt. Ltd., Ghaziabad (NCR) has informed vide E-Mail dated 06.09.2021 that 'the miner is not providing them the details of the project and hence, there is no point in presenting the case in the meeting dated 08.09.2021'. He himself requested the Committee to defer the proposal and consider the same in upcoming SEAC meeting. Committee remarked to the consultant that the details of the project / proposal are to be available to the consultant at the time of application only and the consultant shall try to ensure it timely.

In view of the above, the Committee unanimously decided to defer the proposal and consider the same in upcoming SEAC meeting.

#### 11. BLACK TRAP MINING, DIST: JAMNAGAR – 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/62621/2021	KHATIYA BERAJA BLACK TRAP QUARRY AREA  SHRI NIKETA J. SAPARI	Survey No. 10 P  Govt. Land	Khatiya Beraja	Lalpur	Jamnagar	1.00Ha	Lease grant order no.GJ/QL/8093/2656, dated 16.11.2005	11,991 MTPA	Nana Lakhya – 1.35 km	Construction	Rs.5Lakh	09.08.2021  Existing project

**273<sup>rd</sup> SEAC meeting through Video Conference dated 08.09.2021**

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The representative of M/s. Enviro Infra Solutions Pvt. Ltd., Ghaziabad (NCR) has informed vide E-Mail dated 06.09.2021 that 'the miner is not providing them the details of the project and hence, there is no point in presenting the case in the meeting dated 08.09.2021'. He himself requested the Committee to defer the proposal and consider the same in upcoming SEAC meeting. Committee remarked to the consultant that the details of the project / proposal are to be available to the consultant at the time of application only and the consultant shall try to ensure it timely.

In view of the above, the Committee unanimously decided to defer the proposal and consider the same in upcoming SEAC meeting.

#### 12. BLACK TRAP MINING, DIST: JAMNAGAR– 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/62636/2021	KHATIYA BERAJA BLACK TRAP QUARRY AREA  (SHRI NIKETAN SAPARIYA {B})	Survey No. 10 P	Khatiya Beraja	Lalpur	Jamnagar	1.00 Ha	Lease granted on 21.05.2006 vide no. GJ/QL/8094/2646	11,992 MTPA	3.19 km	Construction	Rs.5Lakh	09.08.2021  Existing project

The representative of M/s. Enviro Infra Solutions Pvt. Ltd., Ghaziabad (NCR) has informed vide E-Mail dated 06.09.2021 that 'the miner is not providing them the details of the project and hence, there is no point in presenting the case in the meeting dated 08.09.2021'. He himself requested the Committee to defer the proposal and consider the same in upcoming SEAC meeting. Committee remarked to the consultant that the

details of the project / proposal are to be available to the consultant at the time of application only and the consultant shall try to ensure it timely.

In view of the above, the Committee unanimously decided to defer the proposal and consider the same in upcoming SEAC meeting.

### 13. BLACK TRAP MINING, DIST: JAMNAGAR–TOR VIOLATION

Application No	Name of Project	S.No.	Village	Taluka	Dist	Lease Area	Validity of lease	RO M	Nearest Human Habitation	End Use	Investment in Rs	Date of Application Received by SEAC
SIA/GJ/MIN/62640/2021	KHATIYA BERAJA BLACK TRAP QUARRY AREA SHRI NIKETAN SAPARIYA (C)	Survey No. 10 P	Khatiya Beraja	Lalpur	Jamnagar	1.00Ha	Lease grant order no.GJ/QL/7393/3801, dated 01.09.2003	14,992 MTPA	Nana lakhiya – 1.43 km	Construction	Rs.5 Lakh	09.08.2021  Existing project

The representative of M/s. Enviro Infra Solutions Pvt. Ltd., Ghaziabad (NCR) has informed vide E-Mail dated 06.09.2021 that ‘the miner is not providing them the details of the project and hence, there is no point in presenting the case in the meeting dated 08.09.2021’. He himself requested the Committee to defer the proposal and consider the same in upcoming SEAC meeting. Committee remarked to the consultant that the details of the project / proposal are to be available to the consultant at the time of application only and the consultant shall try to ensure it timely.

In view of the above, the Committee unanimously decided to defer the proposal and consider the same in upcoming SEAC meeting.

### 14. BLACK TRAP MINING, DIST: JAMNAGAR–TOR VIOLATION

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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/62669/2021	MAKRANI SANOSARA BLACK TRAP QUARRY AREA  (M/S SHAKTI STONE)	Survey No. 195 P  Govt. land	MakraniSarasara	Kalavad	Jamnagar	0.80.85Ha	Lease no. GJ/QL/7917/12142, dated 31.05.2005 for 10 years	19,976 MTPA	MakraniSarasara – 1.74 km	Construction	Rs.404250/-	09.08.2021  Existing project

The representative of M/s. Enviro Infra Solutions Pvt. Ltd., Ghaziabad (NCR) has informed vide E-Mail dated 06.09.2021 that 'the miner is not providing them the details of the project and hence, there is no point in presenting the case in the meeting dated 08.09.2021'. He himself requested the Committee to defer the proposal and consider the same in upcoming SEAC meeting. Committee remarked to the consultant that the details of the project / proposal are to be available to the consultant at the time of application only and the consultant shall try to ensure it timely.

In view of the above, the Committee unanimously decided to defer the proposal and consider the same in upcoming SEAC meeting.

#### 15. SILICA 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
SIA/GJ/MIN/61169/2021	SILICA SAND MINE  (SHRI	Survey No. 83 P  Govt.	Devsar	Chotila	Surenagar	3.62.00 Ha	Lol issued on 31.07.19	38,670 MTPA	Thangadh – 8.56 km	Construction	Rs.18.1 Lakh	09.08.2021  New projec

**273<sup>rd</sup> SEAC meeting through Video Conference dated 08.09.2021**

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The representative of M/s. Enviro Infra Solutions Pvt. Ltd., Ghaziabad (NCR) has informed vide E-Mail dated 06.09.2021 that 'the miner is not providing them the details of the project and hence, there is no point in presenting the case in the meeting dated 08.09.2021'. He himself requested the Committee to defer the proposal and consider the same in upcoming SEAC meeting. Committee remarked to the consultant that the details of the project / proposal are to be available to the consultant at the time of application only and the consultant shall try to ensure it timely.

In view of the above, the Committee unanimously decided to defer the proposal and consider the same in upcoming SEAC meeting.

#### 16. BLACK TRAP 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
SIA/GJ/MIN/61192/2021	MOTA KERALA BLACK TRAP QUARRY AREA (RAMES HBHAI PATEL)	Survey No. BhogavonNadi Govt. Land	Mota Kerala	Sayla	Suren drana gar	2.00.00 Ha	Lol issued on 09.02.2007 for 10 years	9,690 MTPA	Sayla – 6.88 km	Constr uction	Rs.10 Lakh	09.08.2021  New projec t

The representative of M/s. Enviro Infra Solutions Pvt. Ltd., Ghaziabad (NCR) has informed vide E-Mail dated 06.09.2021 that 'the miner is not providing them the details of the project and hence, there is no point in presenting the case in the meeting dated 08.09.2021'. He himself requested the Committee to defer the proposal and consider the same in upcoming SEAC meeting. Committee remarked to the consultant that the

details of the project / proposal are to be available to the consultant at the time of application only and the consultant shall try to ensure it timely.

In view of the above, the Committee unanimously decided to defer the proposal and consider the same in upcoming SEAC meeting.

**17. BLACK TRAP 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
SIA/GJ/MIN/61221/2021	Vastadi Blacktrap Quarry  (DILIP KUMAR TULJAS HANKAR YAGNIK)	Survey No. 811/9P  Govt. Land	Vastadi	Wadhwan	SurenDRanagar	1.0Ha	LoI issued on 18.07.2003 for 10 years	11,984 MTPA	Vastadi – 3 km	Construction	Rs.5.0 Lakh	09.08.2021  New project

The representative of M/s. Enviro Infra Solutions Pvt. Ltd., Ghaziabad (NCR) has informed vide E-Mail dated 06.09.2021 that ‘the miner is not providing them the details of the project and hence, there is no point in presenting the case in the meeting dated 08.09.2021’. He himself requested the Committee to defer the proposal and consider the same in upcoming SEAC meeting. Committee remarked to the consultant that the details of the project / proposal are to be available to the consultant at the time of application only and the consultant shall try to ensure it timely.

In view of the above, the Committee unanimously decided to defer the proposal and consider the same in upcoming SEAC meeting.

**18. BLACK TRAP 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
SIA/GJ/MIN/61235/2021	Vastadi Black trap Quarry Area,  (CHETAN KUMAR)	Survey No. 811/9 P  Govt. Land	Vastadi	Wadhvana	Suren drana gar	0.95.20Ha	Lol issued on 18.07.2003 for 10 years	11,984 MTPA	Vastadi – 3 km	Construction	Rs.5.0 Lakh	09.08.2021  New project

The representative of M/s. Enviro Infra Solutions Pvt. Ltd., Ghaziabad (NCR) has informed vide E-Mail dated 06.09.2021 that 'the miner is not providing them the details of the project and hence, there is no point in presenting the case in the meeting dated 08.09.2021'. He himself requested the Committee to defer the proposal and consider the same in upcoming SEAC meeting. Committee remarked to the consultant that the details of the project / proposal are to be available to the consultant at the time of application only and the consultant shall try to ensure it timely.

In view of the above, the Committee unanimously decided to defer the proposal and consider the same in upcoming SEAC meeting.

#### 19. BLACK TRAP 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
SIA/GJ/MIN/61249/2021	THORIY ALI BLACK TRAP AREA  (AMBAR	194/Paiki  Govt. Land	Thoriyali	Sayla	Suren drana gar	1.00.00Ha	Lol issued on 07.01.2011 for	22,152 MTPA	Thoriyali – 2.05 km	Construction	Rs.5.0 Lakh	09.08.2021  New project

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The representative of M/s. Enviro Infra Solutions Pvt. Ltd., Ghaziabad (NCR) has informed vide E-Mail dated 06.09.2021 that 'the miner is not providing them the details of the project and hence, there is no point in presenting the case in the meeting dated 08.09.2021'. He himself requested the Committee to defer the proposal and consider the same in upcoming SEAC meeting. Committee remarked to the consultant that the details of the project / proposal are to be available to the consultant at the time of application only and the consultant shall try to ensure it timely.

In view of the above, the Committee unanimously decided to defer the proposal and consider the same in upcoming SEAC meeting.

#### 20. BLACK TRAP MINING, DIST: SURENDRANAGAR

Applicati on No	Name of Project	S.No.	Vill ag e	Tal uka	Dist	Lease Area	Validi ty of lease	ROM	Neare st Huma n Habitat ion	End Use	Invest ment in Rs	Date of Applic ation Recei ved by SEAC
SIA/GJ/ MIN/629 97/2021	MOTA KERALA BLACK TRAP MINE  (M/S SANJAYBH AI NATHABHAI VIRADIA)	Surve y No. Bhoga voNad iPaiki  Govt. Land	Mo ta Ker al a	Say la	Suren drana gar	4.00.0 0 Ha	Lol issue d on 20.09 .2010 years	48,00 0 MTP A	Thoriy ali – 0.87 km	constru ction	Rs.20L akh	09.08. 2021  New projec t

The representative of M/s. Enviro Infra Solutions Pvt. Ltd., Ghaziabad (NCR) has informed vide E-Mail dated 06.09.2021 that 'the miner is not providing them the details of the project and hence, there is no point in presenting the case in the meeting dated 08.09.2021'. He himself requested the Committee to defer the proposal and consider the same in upcoming SEAC meeting. Committee remarked to the consultant that the details of the project / proposal are to be available to the consultant at the time of application only and the consultant shall try to ensure it timely.

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In view of the above, the Committee unanimously decided to defer the proposal and consider the same in upcoming SEAC meeting.

## 21. ORDINARY SAND MINING, DIST: KHEDA

Application No	Name of Project	S.No.	Village	Taluka	District	Lease Area	Validity of lease	River	RO M	Nearest Human Habitation	End Use	Investment in Rs	Date of Application Received by SEAC
SIA/GJ/MIN/63498/2021	Sarkhej Sand Quarry Area  (SARKHEJ BLOCK-B)  (Shri Vishnubhai Vadilalbhai Patel)	Survey No- Vartak Riverbed Paiki Adjoining survey no.-5, Block No.-B  Govt. Land	Sarkhej	Kathlal	Kheda	2.37.00Ha	LoI issued on 19.10.2020 for 5 years	Vatrak	1,00,000 MTPA	Kheda – 33.87 km	Construction	Rs.44 Lakh	17.08.2021  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	Sarkhej Sand Quarry Area Village: Sarkhej, Taluka: Kathlal of District: Kheda (Survey No- Vartak Riverbed Paiki Adjoining survey no.-5, Block No.-B) Area- 2.37 Hectare
2.	Address of the lease	Survey No.:Vatrak Riverbed Paiki Adjoining to 5, Block No.-B Village:Sarkhej Taluka:Kathlal District:Kheda
3.	Name of lease holder	Shri Vishnu Vadilalbhai Patel
4.	Lease area (Ha)	2.37Ha
5.	Cluster Details	
	a. Total no. of leases in the cluster	6
	b. No. of TOR granted in cluster	2
	c. No. of EC granted in cluster	2
	d. Total area of the cluster	10.97 Ha
	e. Maximum individual lease area	2.37 Ha

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	f. Minimum individual lease area	1.42 Ha		
6.	Validity of lease with the date of expiry	05 years from the date of LOI issued.		
7.	Rate of Mining (MT/Annum)	100000 MTPA		
8.	Details of EC obtained (for expansion projects), if any	NIL		
9.	Name of River Bed	Vatrak		
10.	Is the river perennial / non-perennial?	Non-perennial		
11.	Lease area (submerged/ in stream / on dry river bed)	Dry riverbed		
12.	All coordinates of the lease area as per Approved Mining Plan	<b>Sr. No</b>	<b>Latitude</b>	<b>Longitude</b>
		A.	22°59'08.85" N	72°53'46.82" E
		B.	22°59'08.76" N	72°53'49.31" E
		C.	22°59'06.34" N	72°53'56.39" E
		D.	22°59'05.78" N	72°53'57.37" E
		E.	22°59'02.91" N	72°53'59.72" E
		F.	22°59'01.71" N	72°53'58.54" E
		G.	22°59'04.55" N	72°53'55.62" E
		H.	22°59'06.80" N	72°53'48.97" E
		I.	22°59'07.20" N	72°53'46.70" 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 m		
16.	Minimum buffer distance from bridge piers / water intake wells / irrigation structures	No irrigation structure near mine area		
17.	Maximum depth of sand removal (3 m or water depth whichever is less)	3 m		
18.	Width of Riverbed (m)	200 m		
19.	Average depth of water at lease area (m)	25 mbgl		
20.	Depth of mining (m)	2 m from the surface		
21.	Ground Water Table in meter BGL	20-25 m		
22.	Does ground water interfere approach road exit? (Yes / No)	No		
	If yes, status report of CGWA			
23.	Distance between lease and main road	SH-2 at a distance of 1.37 km		
24.	Length of kaccha road (m)	877 m		
25.	Length of pacca road (m)	12km		
26.	Plan for making pacca road	No		
27.	Source of fresh water	The rainwater shall accumulate in working pit. No mining activities shall be carried out during rainy season. The drinking water is made available from PHED supply from village Gadvel to applied area by water tank & kept in certain pots by the		

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		labor working at the site.
28.	Water requirement (KLPD)	5 KLPD
	a. Domestic	1.0 KLPD
	b. Dust suppression	2.5 KLPD
	c. Gardening / Green belt development	1.5 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	1.38 m Sarkhej village	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	1.38 m Sarkhej village		
	Inhabited sites	1.38 m Sarkhej village		
2.	A. Major Bridge	SH-2 at a distance of 1.57 Km bridge	1 km	On both sides of the lease (as per Sustainable Sand Mine Guideline of MOEF&CC)
	B. Highway	SH-2 at a distance of 1.37 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)	Nearest bridge is at a distance of 1.57 Km.	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	No Public structure including well are near within mine 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
5.	Depth of working	2 m from the surface	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 1/4 <sup>th</sup> 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	1,00,000 MTPA	60,000 MTPA Per Hectare	As per Sustainable Sand Mine Guideline of MOEF&CC
8.	Water supply Scheme/Irrigation structure	No irrigation structure is required.	200 M	As per Sustainable Sand Mine Guideline of MOEF&CC
9.	Railway Line	Mahemdabad Railway station 23.63 Km	100 M	As per Sustainable Sand Mine Guideline of MOEF&CC
10.	Reservoir/Canal	No reservoir within 10 km of mine lease area	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	No other road near mine lease area within 10 km of area	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)	No Eco-Sensitive Zone within 10 km of mine area	(i) Outside the Eco-Sensitive Zone (if located within Notified Eco-Sensitive Zone, Prior Clearance of NBWL required)	As per 3(i) of MoEFCC letter vide no. 6-60/2020WLP(1), dated 16.07.2020
			(ii) >1 km and <10 km of National Park / Wildlife Sanctuary (Prior Clearance of NBWL may not be applicable)	As per 4(ii) & 4(iv) of MoEFCC OM vide no. 22-43/2018-IA.III, dated 08.08.2019
			(iii) Proposal involving mining of mineral within 1 km from boundary of National Park and Sanctuaries is prohibited	As per 4(iv) of MoEFCC OM vide no. 22-43/2018-IA.III, dated 08.08.2019 in accordance with the order of the Hon'ble Supreme Court dated 04.08.2006 in the matter of T.N. Godavarman Thirumulpad Vs. UOI in W.P.(C) No. 202 of 1995
13.	Eco-Sensitive Zone (if not notified)	No Eco-Sensitive Zone within 10 km of mine area	(i) Outside the Eco-Sensitive Zone (ii) >1 km and <10 km of National Park / Wildlife Sanctuary (Prior Clearance of NBWL required)	As per 3(ii) of MoEFCC letter vide no. 6-60/2020WLP(1), dated 16.07.2020
14.	Distance of Coastal line from the site	There are no coastal line lies in 500 m 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 opencast.
2.	Equipment's 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 is not proposed
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	Blasting not proposed
15.	Compliance of Sustainable Sand Mine Guidelines published by MoEF&CC 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. 29,625/-
	b. Green belt area / location	Along the periphery of the mine lease area.
	c. No. of trees to be planted	250
	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	<ul style="list-style-type: none"> <li>Access roads from public roads will be aligned in such a way that it would cause least damage.</li> <li>Vegetation development is proposed along the lease area as restoration</li> </ul>

		carried out by semi-mechanized, it is expected to affect the land environment essentially.	<p>work.</p> <ul style="list-style-type: none"> <li>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.</li> </ul>
	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.	<ul style="list-style-type: none"> <li>The domestic sewage from the canteen and toilets will be routed to septic tanks.</li> <li>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.</li> </ul>
	c. Air Environment	Dust due to excavation of material and transportation of excavated material from the project site to dumping sites area.	<ul style="list-style-type: none"> <li>Use of Personal Protection Equipment's (PPE) like dust masks, ear plugs etc. by the mine workers.</li> <li>Ambient Air Quality Monitoring will be conducted on regularly basis to assess the quality of ambient air.</li> <li>Regular water sprinkling on haul roads &amp; loading points will be carried out.</li> <li>Development of green belt/plantation around the lease boundary, roads, dumps etc.</li> </ul>
	d. Noise Environment	Noise will only be generated due evacuation, transportation activities.	<ul style="list-style-type: none"> <li>Proper maintenance, oiling and greasing of transport vehicles at regular intervals will be done to reduce the generation of noise.</li> <li>Adequate silencers will be provided in all the diesel engines.</li> <li>Plantation along the sides of approach roads, around office building and mine area will be done to minimize the propagation of noise.</li> </ul>
	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	<ul style="list-style-type: none"> <li>Prior to mining, short awareness program will be conducted for labors to make them aware for way of working.</li> <li>No tree cutting, chopping, lumbering, uprooting of shrubs and herbs will be allowed.</li> <li>No track or new road for movement of labors or vehicles be laid</li> </ul>

		activities.	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.	<ul style="list-style-type: none"> <li>· Training of employees for use of safety appliances and first aid in vocational training center.</li> <li>· Regular maintenance and testing of all equipment as per manufacturers' guidelines.</li> </ul>
	g. Others	--	--
2.	Occupational health & safety measures as per DGMS	<p>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.</p> <p>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:</p> <ul style="list-style-type: none"> <li>• Provision of rest shelters for mine workers with amenities like drinking water etc.</li> <li>• All safety measures like use of safety appliances, such as dust masks, helmets, shoes, safety awareness programs, awards, posters, slogans related to safety etc.</li> <li>• Periodical Medical Examination (PME) of all workers by a Medical Officer</li> <li>• First Aid facility is provided at the mine site.</li> <li>• Close surveillance of the factors in working environment and work practices which may affect environment and worker's health.</li> <li>• Working of mine as per approved mining plan and environmental plans.</li> </ul>	
3.	Safety measures proposed	<ul style="list-style-type: none"> <li>· 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;</li> <li>· Entry of unauthorized persons will be prohibited;</li> <li>· Firefighting and first-aid provisions in the mines office complex and mining area;</li> <li>· 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;</li> </ul>	
	a. Is First Aid facility provided by	Yes	

	PP?	
	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 & Conditions of Service) Act, 1996 and as Beneficiaries with the Gujarat Building and other Construction Workers Welfare Boards is obtained or not?	Registration of Workers shall be done of the lease.
	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	<ul style="list-style-type: none"> <li>• Use of Personal Protection Equipment's (PPE) like dust masks, ear plugs etc. by the mine workers.</li> <li>• Ambient Air Quality Monitoring will be conducted on regularly basis to assess the quality of ambient air.</li> <li>• Regular water sprinkling on haul roads &amp; loading points will be carried out.</li> <li>• Development of green belt/plantation around the lease boundary, roads, dumps etc.</li> </ul>
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-97.

**G. Financial details of the Project:**

1.	Total cost of the project (Lakh)	Rs. 44.0 lakhs		
	a. Upfront cost (Lakh)			
	b. Performance Security (Lakh)	Rs. 5,20,650/-		
	c. Total Royalty (Lakh)	Rs. 24,00,000/-		
	d. Weigh Bridge Cost (Lakh)			
	e. Labor cost equipment (Lakh)			
	f. Equipment protection and implementation cost (Lakh)			
	g. Green Belt Development & maintenance cost (Lakh)	0.30		
	h. Cost of EMP (Lakh)	1.0 (Proposed)		
	i. Cost of Safety measures (Lakh)	0.30		
j. Cost of Post-Closure Mine Plan (Lakh)	2.0			
2.	Budget allocated for CER (Lakh)	1.0		
3.	Is need based survey for CER carried out? (Yes / No)  If yes, give details of activities along with Budgetary Outlay	<b>S. No.</b>	<b>Activities</b>	<b>Allocation of Fund (Rs. Lacs)</b>
		1	Rain Water harvesting	0.40
		2	Awareness to local farmers to increase yield of crop and fodder	0.30
		3	Electrification including solar Power	0.30
			<b>Total</b>	<b>1.0</b>

**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	There is no human settlement within the lease area. No human settlement will be disturbed due to the mining activity. So, no Rehabilitation and Resettlement is proposed. The un-mined 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	NIL
5.	Post Closure Liability / Safety aspects and Measures to be taken to avoid wild life and human accidents/ causalities	Fencing will be 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 will be developed as water collection pond to store rain 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 MoEF&CC-Bhopal	Not applicable

**J. Contact Details:**

<b>1.</b>	<b>Contact details of Applicant</b>	
2.	Name	Shri Vishnubhai Vadilalbhai Patel
3.	Address	H-304, Vandemataram Homes, Chenpur Road, New Ranip, Jagatpur, Ahmedabad, Gujarat- 382470
4.	Contact no.	9624466166
5.	Email Id	<a href="mailto:vishnu.bsarkhej@gmail.com">vishnu.bsarkhej@gmail.com</a>
<b>6.</b>	<b>Contact details of consultant</b>	
7.	Name	Enviro Infra Solutions Pvt. Ltd.
8.	Address	301, 302 & 305, Shri Ram Business Center Plot No. INS-12, Sector-9 Vasundhara, Delhi-NCR, Ghaziabad-201012
9.	Contact no.	8511815530
10.	Email Id	<a href="mailto:eis.gujarat@gmail.com">eis.gujarat@gmail.com</a>

**Deliberation:**

- Shri Yogesh Singh presented the details of the project before the Committee on behalf the PP during SEAC meeting dated 08.09.2021 and he has submitted the Authorization letter for same.

- Committee deliberated on method of mining, rate of mining, no. of working hours and no. of workers, EMP, CER budget and its activities, Green belt development, cluster situation etc.
- Committee informed the consultant that the CER activities shall be related to the Environmental Conservation. Later on he has submitted the revised CER activities as sought.
- He informed the Committee that the proposal for mining of ordinary sand involves semi-mechanized open cast mining.
- Distance of the lease from Environmental Sensitivities was also discussed and found as per the prescribed criteria. He informed the Committee that the lease area is not under submergence and it is not the case of instream mining. He also presented satellite images of different years showing the lease area dry.

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 – III.**

## 22. ORDINARY SAND MINING, DIST: KHEDA

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/63469/2021	Sarkhej Sand Quarry Area  (SARKHEJ BLOCK-A)  (Shri Rahul Amrutlal Patel)	Survey No- Vartak Riverbed Paiki Adjoining to 5, Block No.-A  Govt. Land	Sarkhej	Kathal	Kheda	01.76.00 Ha	Lol issued on 19.10.2020 for 5 years	Vatrak	60,000 MTPA	Kheda – 33.87 km	Construction	Rs.40 Lakh	17.08.2021  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.

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**A. Basic Information of the Project:**

1.	Name of Project as per Form I	Sarkhej Sand Quarry Area Village: Sarkhej, Taluka: Kathlal of District: Kheda (Survey No- Vatrak Riverbed Paiki Adjoining to 5, Block No.-A) Area- 1.76.00 Hectare	
2.	Address of the lease	Survey No.:Vatrak Riverbed Paiki Adjoining to 5, Block No.-A Village:Sarkhej Taluka:Kathlal District:Kheda	
3.	Name of lease holder	Shri Rahul Amrutlal Patel	
4.	Lease area (Ha)	1.76 Ha	
5.	Cluster Details		
	a. Total no. of leases in the cluster	6	
	b. No. of TOR granted in cluster	2	
	c. No. of EC granted in cluster	2	
	d. Total area of the cluster	10.97 Ha	
	e. Maximum individual lease area	2.37 Ha	
	f. Minimum individual lease area	1.42 Ha	
6.	Validity of lease with the date of expiry	05 years from the date of LOI issued.	
7.	Rate of Mining (MT/Annum)	60000 MTPA	
8.	Details of EC obtained (for expansion projects), if any	NIL	
9.	Name of River Bed	Vatrak	
10.	Is the river perennial / non-perennial?	Non-perennial	
11.	Lease area (submerged/ in stream / on dry river bed)	Dry riverbed	
12.	All coordinates of the lease area as per Approved Mining Plan	<b>Sr. No</b>	<b>Latitude</b>
		A.	22°59'08.07" N
			72°53'30.35" E
		B.	22°59'08.59" N
			72°53'41.73" E
		C.	22°59'08.85" N
			72°53'42.72" E
		D.	22°59'08.85" N
			72°53'46.82" E
		E.	22°59'07.22" N
			72°53'46.70" E
		F.	22°59'07.33" N
			72°53'45.85" E
		G.	22°59'07.68" N
			72°53'43.47" E
		H.	22°59'07.45" N
			72°53'41.64" E
		I.	22°59'06.96" N
			72°53'31.90" E

		J.	22°59'06.70" N	72°53'30.38" 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 m		
16.	Minimum buffer distance from bridge piers / water intake wells / irrigation structures	No irrigation structure near mine area		
17.	Maximum depth of sand removal (3 m or water depth whichever is less)	3 m		
18.	Width of Riverbed (m)	200 m		
19.	Average depth of water at lease area (m)	25 mbgl		
20.	Depth of mining (m)	2 m from the surface		
21.	Ground Water Table in meter BGL	20-25 m		
22.	Does ground water interfere approach road exit? (Yes / No)	No		
	If yes, status report of CGWA			
23.	Distance between lease and main road	SH-2 at a distance of 1.24 km		
24.	Length of kaccha road (m)	856 m		
25.	Length of pacca road (m)	13 km		
26.	Plan for making pacca road	No		
27.	Source of fresh water	The rainwater shall accumulate in working pit. No mining activities shall be carried out during rainy season. The drinking water is made available from PHED supply from village Gadvel to applied area by water tank & kept in certain pots by the labor working at the site.		
28.	Water requirement (KLPD)	5 KLPD		
	a. Domestic	1.0 KLPD		
	b. Dust suppression	2.5 KLPD		
	c. Gardening / Green belt development	1.5 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	940 m Sarkhej village	100 m	As per order of NGT before Principal Bench in the O.A. NO 85/2018 ( WZ) dtd

	Public buildings	940 m Sarkhej village	(When Blasting is not involved)	30.09.2020
	Inhabited sites	940 m Sarkhej village		As per order of NGT before Principal Bench in the O.A. NO 85/2018 ( WZ) dtd 30.09.2020
2.	A. Major Bridge	SH-2 at a distance of 1.24 Km bridge	1 km	On both sides of the lease (as per Sustainable Sand Mine Guideline of MOEF&CC)
	B. Highway	SH-2 at a distance of 1.15 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)	Nearest bridge is at a distance of 1.24 Km.	5X in upstream or 250 m. 10X in down stream or 500 m	As per Sustainable Sand Mine Guideline of MOEF&CC
4.	Public Structure including water intake wells	No Public structure including well are near within mine area	5X in upstream or 250 m. 10X in down stream or 500 m	As per Sustainable Sand Mine Guideline of MOEF&CC
5.	Depth of working	2 m from the surface	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 1/4 <sup>th</sup> 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	60,000 MTPA	60,000 MTPA Per Hectare	As per Sustainable Sand Mine Guideline of MOEF&CC

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	production			
8.	Water supply Scheme/Irrigation structure	No irrigation structure is required.	200 M	As per Sustainable Sand Mine Guideline of MOEF&CC
9.	Railway Line	Mahemdabad Railway station 23.33 Km	100 M	As per Sustainable Sand Mine Guideline of MOEF&CC
10.	Reservoir/Canal	No reservoir within 10 km of mine lease area	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	No other road near mine lease area within 10 km of area	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)	No Eco-Sensitive Zone within 10 km of mine area	(i) Outside the Eco-Sensitive Zone (if located within Notified Eco-Sensitive Zone, Prior Clearance of NBWL required)	As per 3(i) of MoEFCC letter vide no. 6-60/2020WLPart(1), dated 16.07.2020
			(ii) >1 km and <10 km of National Park / Wildlife Sanctuary (Prior Clearance of NBWL may not be applicable)	As per 4(ii) & 4(iv) of MoEFCC OM vide no. 22-43/2018-IA.III, dated 08.08.2019
			(iii) Proposal involving mining of mineral within 1 km from	As per 4(iv) of MoEFCC OM vide no. 22-43/2018-IA.III, dated 08.08.2019 in accordance with the order of the Hon'ble Supreme Court

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			boundary of National Park and Sanctuaries is prohibited	dated 04.08.2006 in the matter of T.N. Godavarman Thirumulpad Vs. UOI in W.P.(C) No. 202 of 1995
13.	Eco-Sensitive Zone (if not notified)	No Eco-Sensitive Zone within 10 km of mine area	(i) Outside the Eco-Sensitive Zone (ii) >1 km and <10 km of National Park / Wildlife Sanctuary (Prior Clearance of NBWL required)	As per 3(ii) of MoEFCC letter vide no. 6-60/2020WLPart(1), dated 16.07.2020
14.	Distance of Coastal line from the site	There are no coastal line lies in 500 m 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 opencast.
2.	Equipment's 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 is not proposed
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	Blasting not proposed
15.	Compliance of Sustainable Sand Mine Guidelines published by MoEF&CC 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. 22,000/-
	b. Green belt area / location	Along the periphery of the mine lease area.
	c. No. of trees to be planted	250
	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.	<ul style="list-style-type: none"> <li>Access roads from public roads will be aligned in such a way that it would cause least damage.</li> <li>Vegetation development is proposed along the lease area as restoration work.</li> <li>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.</li> </ul>
	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.	<ul style="list-style-type: none"> <li>The domestic sewage from the canteen and toilets will be routed to septic tanks.</li> <li>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.</li> </ul>
	c. Air Environment	Dust due to excavation of material and transportation of excavated material from the project site to dumping sites area.	<ul style="list-style-type: none"> <li>Use of Personal Protection Equipment's (PPE) like dust masks, ear plugs etc. by the mine workers.</li> <li>Ambient Air Quality Monitoring will be conducted on regularly</li> </ul>

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			<p>basis to assess the quality of ambient air.</p> <ul style="list-style-type: none"> <li>Regular water sprinkling on haul roads &amp; loading points will be carried out.</li> <li>Development of green belt/plantation around the lease boundary, roads, dumps etc.</li> </ul>
	d. Noise Environment	Noise will only be generated due evacuation, transportation activities.	<ul style="list-style-type: none"> <li>Proper maintenance, oiling and greasing of transport vehicles at regular intervals will be done to reduce the generation of noise.</li> <li>Adequate silencers will be provided in all the diesel engines.</li> <li>Plantation along the sides of approach roads, around office building and mine area will be done to minimize the propagation of noise.</li> </ul>
	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.	<ul style="list-style-type: none"> <li>Prior to mining, short awareness program will be conducted for labors to make them aware for way of working.</li> <li>No tree cutting, chopping, lumbering, uprooting of shrubs and herbs will be allowed.</li> <li>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.</li> </ul>
	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.	<ul style="list-style-type: none"> <li>Training of employees for use of safety appliances and first aid in vocational training center.</li> <li>Regular maintenance and testing of all equipment as per manufacturers' guidelines.</li> </ul>
	g. Others	--	--
2.	Occupational health & safety measures as per DGMS	<p>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.</p> <p>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:</p> <ul style="list-style-type: none"> <li>Provision of rest shelters for mine workers with amenities like</li> </ul>	

		<p>drinking water etc.</p> <ul style="list-style-type: none"> <li>• All safety measures like use of safety appliances, such as dust masks, helmets, shoes, safety awareness programs, awards, posters, slogans related to safety etc.</li> <li>• Periodical Medical Examination (PME) of all workers by a Medical Officer</li> <li>• First Aid facility is provided at the mine site.</li> <li>• Close surveillance of the factors in working environment and work practices which may affect environment and worker's health.</li> <li>• Working of mine as per approved mining plan and environmental plans.</li> </ul>
3.	Safety measures proposed	<ul style="list-style-type: none"> <li>• 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;</li> <li>• Entry of unauthorized persons will be prohibited;</li> <li>• Firefighting and first-aid provisions in the mines office complex and mining area;</li> <li>• 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;</li> </ul>
	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 & Conditions of Service) Act, 1996 and as Beneficiaries with the Gujarat Building and other Construction Workers Welfare Boards is	Registration of Workers shall be done of the lease.

	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	<ul style="list-style-type: none"> <li>· Use of Personal Protection Equipment's (PPE) like dust masks, ear plugs etc. by the mine workers.</li> <li>· Ambient Air Quality Monitoring will be conducted on regularly basis to assess the quality of ambient air.</li> <li>· Regular water sprinkling on haul roads &amp; loading points will be carried out.</li> <li>· Development of green belt/plantation around the lease boundary, roads, dumps etc.</li> </ul>
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-97.

**G. Financial details of the Project:**

1.	Total cost of the project (Lakh)	Rs. 40.0 lakhs									
	a. Upfront cost (Lakh)										
	b. Performance Security (Lakh)	Rs. 5,20,650/-									
	c. Total Royalty (Lakh)	Rs. 24,00,000/-									
	d. Weigh Bridge Cost (Lakh)										
	e. Labor cost equipment (Lakh)										
	f. Equipment protection and implementation cost (Lakh)										
	g. Green Belt Development & maintenance cost (Lakh)	0.30									
	h. Cost of EMP (Lakh)	1.0 (proposed)									
	i. Cost of Safety measures (Lakh)	0.30									
j. Cost of Post-Closure Mine Plan (Lakh)	2.0										
2.	Budget allocated for CER (Lakh)	1.0									
3.	Is need based survey for CER carried out? (Yes / No)  If yes, give details of activities along with Budgetary Outlay	<table border="1"> <thead> <tr> <th>S. No.</th> <th>Activities</th> <th>Allocation of Fund (Rs. Lacs)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Soild waste management facilities</td> <td>0.40</td> </tr> <tr> <td>2</td> <td>Solar Power lighting</td> <td>0.30</td> </tr> </tbody> </table>	S. No.	Activities	Allocation of Fund (Rs. Lacs)	1	Soild waste management facilities	0.40	2	Solar Power lighting	0.30
		S. No.	Activities	Allocation of Fund (Rs. Lacs)							
		1	Soild waste management facilities	0.40							
2	Solar Power lighting	0.30									

		3	Avenue Platation	0.30
			<b>Total</b>	<b>1.0</b>

**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	There is no human settlement within the lease area. No human settlement will be disturbed due to the mining activity. So, no Rehabilitation and Resettlement is proposed. The un-mined 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	NIL
5.	Post Closure Liability / Safety aspects and Measures to be taken to avoid wild life and human accidents/ casualties	Fencing will be 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 will be developed as water collection pond to store rain 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 MoEF&CC-Bhopal	Not applicable

**J. Contact Details:**

1.	<b>Contact details of Applicant</b>	
2.	Name	Shri Rahul Amrutlal Patel
3.	Address	12/92, Kailash Nagar, Near Kalapi Nagar

		Statue, Ahmedabad, Gujarat-380016
4.	Contact no.	9624466166
5.	Email Id	ablock.rahul@gmail.com
<b>6. Contact details of consultant</b>		
7.	Name	Enviro Infra Solutions Pvt. Ltd.
8.	Address	301, 302 & 305, Shri Ram Business Center Plot No. INS-12, Sector-9 Vasundhara, Delhi-NCR, Ghaziabad-201012
9.	Contact no.	8511815530
10.	Email Id	eis.gujarat@gmail.com

### Deliberation:

- Shri Yogesh Singh presented the details of the project before the Committee on behalf the PP during SEAC meeting dated 08.09.2021 and he has submitted the Authorization letter for same.
- Committee deliberated on method of mining, rate of mining, no. of working hours and no. of workers, EMP, CER budget and its activities, Green belt development, cluster situation etc.
- Committee informed the consultant that the CER activities shall be related to the Environmental Conservation. Later on he has submitted the revised CER activities as sought.
- He informed the Committee that the proposal for mining of ordinary sand involves semi-mechanized open cast mining.
- Distance of the lease from Environmental Sensitivities was also discussed and found as per the prescribed criteria. He informed the Committee that the lease area is not under submergence and it is not the case of instream mining. He also presented satellite images of different years showing the lease area dry.

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 – III.**

### 23. ORDINARY SAND MINING, DIST: KHEDA

Application No	Name of Project	S.No.	Village	Taluka	District	Lease Area	Validity of lease	River	ROM	Nearest Human Habitation	End Use	Investment in Rs	Date of Application Received by SEAC
SIA/GJ/MIN/63495/2021	Gadvel Sand Quarry Area  (GADVEL BLOCK-B)  (Shri Vishnubhai Vadilalbhai Patel)	Survey No- Vartak Riverbed Paiki 87&88 Block No.-B  Govt. Land	Gadvel	Kathlal	Kheda	01.42.00 Ha	Lol issued on 19.10.20 for 5 years	Vatrak	60,000 MT PA	Kheda – 33.91 kms	Construction	Rs.43 Lakh	17.08.2021  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	Gadvel Sand Quarry Area Village: Gadvel, Taluka: Kathlal of District: Kheda (Survey No- Vartak Riverbed Paiki 87&88 Block No.-B) Area- 1.42.00 Hectare
2.	Address of the lease	Survey No.:87&88 Block No.-B Village: Gadvel Taluka:Kathlal District:Kheda
3.	Name of lease holder	Shri Vishnubhai Vadilalbhai Patel
4.	Lease area (Ha)	1.42 Ha
5.	Cluster Details	
	a. Total no. of leases in the cluster	6
	b. No. of TOR granted in cluster	2
	c. No. of EC granted in cluster	2
	d. Total area of the cluster	10.97 Ha
	e. Maximum individual lease area	2.37 Ha
	f. Minimum individual lease area	1.42 Ha
6.	Validity of lease with the date of expiry	05 years from the date of LOI issued.
7.	Rate of Mining (MT/Annum)	60000 MTPA
8.	Details of EC obtained (for expansion projects), if any	NIL
9.	Name of River Bed	Vatrak
10.	Is the river perennial / non-perennial?	Non-perennial
11.	Lease area (submerged/ in stream / on	Dry riverbed

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	dry river bed)																															
<b>12.</b>	All coordinates of the lease area as per Approved Mining Plan	<table border="1"> <thead> <tr> <th>Sr. No</th> <th>Latitude</th> <th>Longitude</th> </tr> </thead> <tbody> <tr> <td>A.</td> <td>22°59'07.33" N</td> <td>72°53'45.85" E</td> </tr> <tr> <td>B.</td> <td>22°59'07.22" N</td> <td>72°53'46.70" E</td> </tr> <tr> <td>C.</td> <td>22°59'06.80" N</td> <td>72°53'48.97" E</td> </tr> <tr> <td>D.</td> <td>22°59'04.55" N</td> <td>72°53'55.62" E</td> </tr> <tr> <td>E.</td> <td>22°59'01.71" N</td> <td>72°53'58.54" E</td> </tr> <tr> <td>F.</td> <td>22°59'00.54" N</td> <td>72°53'57.11" E</td> </tr> <tr> <td>G.</td> <td>22°59'05.03" N</td> <td>72°53'51.61" E</td> </tr> <tr> <td>H.</td> <td>22°59'06.80" N</td> <td>72°53'47.52" E</td> </tr> <tr> <td>I.</td> <td>22°59'07.07" N</td> <td>72°53'45.81" E</td> </tr> </tbody> </table>	Sr. No	Latitude	Longitude	A.	22°59'07.33" N	72°53'45.85" E	B.	22°59'07.22" N	72°53'46.70" E	C.	22°59'06.80" N	72°53'48.97" E	D.	22°59'04.55" N	72°53'55.62" E	E.	22°59'01.71" N	72°53'58.54" E	F.	22°59'00.54" N	72°53'57.11" E	G.	22°59'05.03" N	72°53'51.61" E	H.	22°59'06.80" N	72°53'47.52" E	I.	22°59'07.07" N	72°53'45.81" E
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<b>13.</b>	Manpower requirement	10																														
<b>14.</b>	Applicability of CRZ Notification	Not applicable																														
<b>15.</b>	Minimum Setback distance proposed to be maintained from River Bed (m)	More than 10 m																														
<b>16.</b>	Minimum buffer distance from bridge piers / water intake wells / irrigation structures	No irrigation structure near mine area																														
<b>17.</b>	Maximum depth of sand removal (3 m or water depth whichever is less)	3 m																														
<b>18.</b>	Width of Riverbed (m)	200 m																														
<b>19.</b>	Average depth of water at lease area (m)	25 mbgl																														
<b>20.</b>	Depth of mining (m)	2 m from the surface																														
<b>21.</b>	Ground Water Table in meter BGL	20-25 m																														
<b>22.</b>	Does ground water interfere approach road exit? (Yes / No)  If yes, status report of CGWA	No																														
<b>23.</b>	Distance between lease and main road	SH-2 at a distance of 1.31 km																														
<b>24.</b>	Length of kaccha road (m)	830 m																														
<b>25.</b>	Length of pacca road (m)	12 km																														
<b>26.</b>	Plan for making pacca road	No																														
<b>27.</b>	Source of fresh water	The rainwater shall accumulate in working pit. No mining activities shall be carried out during rainy season. The drinking water is made available from PHED supply from village Gadvel to applied area by water tank & kept in certain pots by the labor working at the site.																														
<b>28.</b>	Water requirement (kLPD)	5 KLPD																														

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	a. Domestic	1.0 KLPD
	b. Dust suppression	2.5 KLPD
	c. Gardening / Green belt development	1.5 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	1.36 m Sarkhej village	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	1.36 m Sarkhej village		
	Inhabited sites	1.36 m Sarkhej village		As per order of NGT before Principal Bench in the O.A. NO 85/2018 ( WZ) dtd 30.09.2020
2.	A. Major Bridge	SH-2at a distance of 1.56 Km bridge	1 km	On both sides of the lease (as per Sustainable Sand Mine Guideline of MOEF&CC)
	B. Highway	SH-2 at a distance of 1.36 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)	Nearest bridge is at a distance of 1.56 Km.	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	No Public structure including well	i. 5X in upstream or 250 m.	As per Sustainable Sand Mine Guideline of

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	intake wells	are near within mine area	j. 10X in down stream or 500 m	MOEF&CC
5.	Depth of working	2 m from the surface	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 1/4 <sup>th</sup> 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	60,000 MTPA	60,000 MTPA Per Hectare	As per Sustainable Sand Mine Guideline of MOEF&CC
8.	Water supply Scheme/Irrigation structure	No irrigation structure is required.	200 M	As per Sustainable Sand Mine Guideline of MOEF&CC
9.	Railway Line	Mahemdabad Railway station 23.60 Km	100 M	As per Sustainable Sand Mine Guideline of MOEF&CC
10.	Reservoir/Canal	No reservoir within 10 km of mine lease area	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	No other road near mine lease area within 10 km of area	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)	No Eco-Sensitive Zone within	(i) Outside the Eco-Sensitive Zone	As per 3(i) of MoEFCC letter vide no. 6-60/2020WLPart(1), dated

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		10 km of mine area	(if located within Notified Eco-Sensitive Zone, Prior Clearance of NBWL required)	16.07.2020
			(ii) >1 km and <10 km of National Park / Wildlife Sanctuary (Prior Clearance of NBWL may not be applicable)	As per 4(ii) & 4(iv) of MoEFCC OM vide no. 22-43/2018-IA.III, dated 08.08.2019
			(iii) Proposal involving mining of mineral within 1 km from boundary of National Park and Sanctuaries is prohibited	As per 4(iv) of MoEFCC OM vide no. 22-43/2018-IA.III, dated 08.08.2019 in accordance with the order of the Hon'ble Supreme Court dated 04.08.2006 in the matter of T.N. Godavarman Thirumulpad Vs. UOI in W.P.(C) No. 202 of 1995
13.	Eco-Sensitive Zone (if not notified)	No Eco-Sensitive Zone within 10 km of mine area	(iii) Outside the Eco-Sensitive Zone (iv) >1 km and <10 km of National Park / Wildlife Sanctuary (Prior Clearance of NBWL required)	As per 3(ii) of MoEFCC letter vide no. 6-60/2020WLP(1), dated 16.07.2020
14.	Distance of Coastal line from the site	There are no coastal line lies in 500 m 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 opencast.
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2.	Equipment's 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 is not proposed
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	Blasting not proposed
15.	Compliance of Sustainable Sand Mine Guidelines published by MoEF&CC 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. 17,750/-
	b. Green belt area / location	Along the periphery of the mine lease area.
	c. No. of trees to be planted	250
	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.	<ul style="list-style-type: none"> <li>Access roads from public roads will be aligned in such a way that it would cause least damage.</li> <li>Vegetation development is proposed along the lease area as restoration work.</li> </ul>

			<ul style="list-style-type: none"> <li>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.</li> </ul>
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.		<ul style="list-style-type: none"> <li>The domestic sewage from the canteen and toilets will be routed to septic tanks.</li> <li>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.</li> </ul>
c. Air Environment	Dust due to excavation of material and transportation of excavated material from the project site to dumping sites area.		<ul style="list-style-type: none"> <li>Use of Personal Protection Equipment's (PPE) like dust masks, ear plugs etc. by the mine workers.</li> <li>Ambient Air Quality Monitoring will be conducted on regularly basis to assess the quality of ambient air.</li> <li>Regular water sprinkling on haul roads &amp; loading points will be carried out.</li> <li>Development of green belt/plantation around the lease boundary, roads, dumps etc.</li> </ul>
d. Noise Environment	Noise will only be generated due evacuation, transportation activities.		<ul style="list-style-type: none"> <li>Proper maintenance, oiling and greasing of transport vehicles at regular intervals will be done to reduce the generation of noise.</li> <li>Adequate silencers will be provided in all the diesel engines.</li> <li>Plantation along the sides of approach roads, around office building and mine area will be done to minimize the propagation of noise.</li> </ul>
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		<ul style="list-style-type: none"> <li>Prior to mining, short awareness program will be conducted for labors to make them aware for way of working.</li> <li>No tree cutting, chopping,</li> </ul>

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		there shall be no impact on wildlife sanctuary due to mining activities.	<p>lumbering, uprooting of shrubs and herbs will be allowed.</p> <ul style="list-style-type: none"> <li>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.</li> </ul>
	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.	<ul style="list-style-type: none"> <li>Training of employees for use of safety appliances and first aid in vocational training center.</li> <li>Regular maintenance and testing of all equipment as per manufacturers' guidelines.</li> </ul>
	g. Others	--	--
2.	Occupational health & safety measures as per DGMS	<p>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.</p> <p>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:</p> <ul style="list-style-type: none"> <li>Provision of rest shelters for mine workers with amenities like drinking water etc.</li> <li>All safety measures like use of safety appliances, such as dust masks, helmets, shoes, safety awareness programs, awards, posters, slogans related to safety etc.</li> <li>Periodical Medical Examination (PME) of all workers by a Medical Officer</li> <li>First Aid facility is provided at the mine site.</li> <li>Close surveillance of the factors in working environment and work practices which may affect environment and worker's health.</li> <li>Working of mine as per approved mining plan and environmental plans.</li> </ul>	
3.	Safety measures proposed	<ul style="list-style-type: none"> <li>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;</li> <li>Entry of unauthorized persons will be prohibited;</li> <li>Firefighting and first-aid provisions in the mines office complex and mining area;</li> <li>Provisions of all the safety appliances such as safety boot, helmets, goggles etc. will be made available to the employees and</li> </ul>	

		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 & Conditions of Service) Act, 1996 and as Beneficiaries with the Gujarat Building and other Construction Workers Welfare Boards is obtained or not?	Registration of Workers shall be done of the lease.
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	<ul style="list-style-type: none"> <li>· Use of Personal Protection Equipment's (PPE) like dust masks, ear plugs etc. by the mine workers.</li> <li>· Ambient Air Quality Monitoring will be conducted on regularly basis to assess the quality of ambient air.</li> <li>· Regular water sprinkling on haul roads &amp; loading points will be carried out.</li> <li>· Development of green belt/plantation around the lease boundary, roads, dumps etc.</li> </ul>
3.	Route plan in brief	The excavated material loaded manually

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		in tipper for transported up to consumer by following the pacca road linked with project site. This pacca road is further connected with SH-97.
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**G. Financial details of the Project:**

1.	Total cost of the project (Lakh)	Rs. 43 lakhs		
	a. Upfront cost (Lakh)			
	b. Performance Security (Lakh)	Rs. 11,75,760/-		
	c. Total Royalty (Lakh)	Rs. 24,00,000/-		
	d. Weigh Bridge Cost (Lakh)			
	e. Labor cost equipment (Lakh)			
	f. Equipment protection and implementation cost (Lakh)			
	g. Green Belt Development & maintenance cost (Lakh)	0.30		
	h. Cost of EMP (Lakh)	1.0		
	i. Cost of Safety measures (Lakh)	0.20		
j. Cost of Post-Closure Mine Plan (Lakh)	-			
2.	Budget allocated for CER (Lakh)	1.0		
3.	Is need based survey for CER carried out? (Yes / No)  If yes, give details of activities along with Budgetary Outlay	<b>S. No.</b>	<b>Activities</b>	<b>Allocation of Fund (Rs. Lacs)</b>
		1	Solid Waste management Facilities	0.30
		2	Rain Water Harvesting	0.40
		3	Avenue Plantation	0.30
			<b>Total</b>	<b>1.0</b>

**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	There is no human settlement within the lease area. No human settlement will be disturbed due to the mining activity. So, no Rehabilitation and Resettlement is proposed. The un-mined 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	NIL
5.	Post Closure Liability / Safety aspects and Measures to be taken to avoid wild life and human accidents/ causalities	Fencing will be 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 will be developed as water collection pond to store rain 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 MoEF&CC-Bhopal	Not applicable

**J. Contact Details:**

1.	<b>Contact details of Applicant</b>	
2.	Name	Shri Visjnu bhai Vadilal bhai Patel
3.	Address	H-304, Vandemataram Homes, Chenpur Road, New Ranip, Jagatpur, Ahmedabad, Gujarat- 382470
4.	Contact no.	9624466166
5.	Email Id	<a href="mailto:vishnu.gadvelb@gmail.com">vishnu.gadvelb@gmail.com</a>
6.	<b>Contact details of consultant</b>	
7.	Name	Enviro Infra Solutions Pvt. Ltd.
8.	Address	301, 302 & 305, Shri Ram Business Center Plot No. INS-12, Sector-9 Vasundhara, Delhi-NCR, Ghaziabad-201012
9.	Contact no.	8511815530
10.	Email Id	<a href="mailto:eis.gujarat@gmail.com">eis.gujarat@gmail.com</a>

**Deliberation:**

- Shri Yogesh Singh presented the details of the project before the Committee on behalf the PP during SEAC meeting dated 08.09.2021 and he has submitted the Authorization letter for same.

- Committee deliberated on method of mining, rate of mining, no. of working hours and no. of workers, EMP, CER budget and its activities, Green belt development, cluster situation etc.
- Committee informed the consultant that the CER activities shall be related to the Environmental Conservation. Later on he has submitted the revised CER activities as sought.
- He informed the Committee that the proposal for mining of ordinary sand involves semi-mechanized open cast mining.
- Distance of the lease from Environmental Sensitivities was also discussed and found as per the prescribed criteria. He informed the Committee that the lease area is not under submergence and it is not the case of instream mining. He also presented satellite images of different years showing the lease area dry.

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 – III.**

#### 24. ORDINARY SAND MINING, DIST: KHEDA

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/M IN/63467/2021	Gadvel Sand Quarry Area  (GADVEL BLOCK-A)  (Shri Hardikumar Govindbhai Patel)	Survey No- 76, 87, Block No.-A  Govt. Land	Gadvel	Kathal	Kheda	01.4 2.00 Ha	Lol issued on 19.10.20 for 5 years	Vatrak	60,000 MT PA	Kheda – 33.53 km	Construction	Rs.43 Lakh	17.08.2021  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.

<b>A. Basic Information of the Project:</b>			
1.	Name of Project as per Form I	Gadvel Sand Quarry Area Village: Gadvel, Taluka: Kathlal of District: Kheda Survey No- 76, 87, Block No.-A Area- 1.42.00 Hectare	
2.	Address of the lease	Survey No.:76, 87, Block No.-A Village: Gadvel Taluka:Kathlal District:Kheda	
3.	Name of lease holder	Shri HardikkumarGovindbhai Patel	
4.	Lease area (Ha)	1.42 Ha	
5.	Cluster Details		
	a. Total no. of leases in the cluster	6	
	b. No. of TOR granted in cluster	2	
	c. No. of EC granted in cluster	2	
	d. Total area of the cluster	10.97 Ha	
	e. Maximum individual lease area	2.37 Ha	
	f. Minimum individual lease area	1.42 Ha	
6.	Validity of lease with the date of expiry	05 years from the date of LOI issued.	
7.	Rate of Mining (MT/Annum)	60000 MTPA	
8.	Details of EC obtained (for expansion projects), if any	NIL	
9.	Name of River Bed	Vatrak	
10.	Is the river perennial / non-perennial?	Non-perennial	
11.	Lease area (submerged/ in stream / on dry river bed)	Dry riverbed	
12.	All coordinates of the lease area as per Approved Mining Plan	<b>Sr. No</b>	<b>Latitude</b>
			<b>Longitude</b>
		A.	22°59'06.70" N
			72°53'30.38" E
		B.	22°59'06.96" N
			72°53'31.90" E
		C.	22°59'07.45" N
			72°53'41.64" E
		D.	22°59'07.68" N
			72°53'43.47" E
		E.	22°59'07.33" N
			72°53'45.85" E
		F.	22°59'07.07" N
			72°53'45.81" E
		G.	22°59'07.16" N
			72°53'45.44" E
		H.	22°59'06.43" N
			72°53'39.84" E
		I.	22°59'06.11" N
			72°53'39.41" E
		J.	22°59'05.73" N
			72°53'32.34" E

		K.	22°59'05.04" N	72°53'30.42" 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 m		
16.	Minimum buffer distance from bridge piers / water intake wells / irrigation structures	No irrigation structure near mine area		
17.	Maximum depth of sand removal (3 m or water depth whichever is less)	3 m		
18.	Width of Riverbed (m)	200 m		
19.	Average depth of water at lease area (m)	25 mbgl		
20.	Depth of mining (m)	3 m from the surface		
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	SH-2 at a distance of 1.20 km		
24.	Length of kaccha road (m)	844 m		
25.	Length of pacca road (m)	11.25 km		
26.	Plan for making pacca road	No		
27.	Source of fresh water	The rainwater shall accumulate in working pit. No mining activities shall be carried out during rainy season. The drinking water is made available from PHED supply from village Gadvel to applied area by water tank & kept in certain pots by the labor working at the site.		
28.	Water requirement (KLPD)	5 KLPD		
	a. Domestic	1.0 KLPD		
	b. Dust suppression	1.5 KLPD		
	c. Gardening / Green belt development	2.5 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	950 m Sarkhej village	100 m	As per order of NGT before Principal Bench in the O.A. NO 85/2018 ( WZ) dtd 30.09.2020

	Public buildings	950 m Sarkhej village	(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
	Inhabited sites	950 m Sarkhej village		
2.	A. Major Bridge	1.20 Km SH-2 bridge	1 km	On both sides of the lease (as per Sustainable Sand Mine Guideline of MOEF&CC)
	B. Highway	SH-2 1.20 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 )	Nearest bridge is at a distance of 1.20 Km.	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	No Public structure including well are near within mine 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	3 m from the surface	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 1/4 <sup>th</sup> 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	60,000 MTPA	60,000 MTPA Per Hectare	As per Sustainable Sand Mine Guideline of MOEF&CC

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8.	Water supply Scheme/Irrigation structure	No irrigation structure is required.	200 M	As per Sustainable Sand Mine Guideline of MOEF&CC
9.	Railway Line	Mahemdabad Railway station 23.82 Km	100 M	As per Sustainable Sand Mine Guideline of MOEF&CC
10.	Reservoir/Canal	No reservoir within 10 km of mine lease area	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	No other road near mine lease area within 10 km of area	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)	No Eco-Sensitive Zone within 10 km of mine area	(i) Outside the Eco-Sensitive Zone (if located within Notified Eco-Sensitive Zone, Prior Clearance of NBWL required)	As per 3(i) of MoEFCC letter vide no. 6-60/2020WLPart(1), dated 16.07.2020
			(ii) >1 km and <10 km of National Park / Wildlife Sanctuary (Prior Clearance of NBWL may not be applicable)	As per 4(ii) & 4(iv) of MoEFCC OM vide no. 22-43/2018-IA.III, dated 08.08.2019
			(iii) Proposal involving mining of mineral within 1 km from boundary of National Park and Sanctuaries is prohibited	As per 4(iv) of MoEFCC OM vide no. 22-43/2018-IA.III, dated 08.08.2019 in accordance with the order of the Hon'ble Supreme Court dated 04.08.2006 in the matter of T.N. Godavarman Thirumulpad Vs. UOI in W.P.(C) No. 202 of 1995

13.	Eco-Sensitive Zone (if not notified)	No Eco-Sensitive Zone within 10 km of mine area	(i) Outside the Eco-Sensitive Zone (ii) >1 km and <10 km of National Park / Wildlife Sanctuary (Prior Clearance of NBWL required)	As per 3(ii) of MoEFCC letter vide no. 6-60/2020WLP(1), dated 16.07.2020
14.	Distance of Coastal line from the site	There are no coastal line lies in 500 m 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 opencast.
2.	Equipment's 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 is not proposed
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	Blasting not proposed

15.	Compliance of Sustainable Sand Mine Guidelines published by MoEF&CC 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. 17,750/-
	b. Green belt area / location	Along the periphery of the mine lease area.
	c. No. of trees to be planted	250
	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.	<ul style="list-style-type: none"> <li>Access roads from public roads will be aligned in such a way that it would cause least damage.</li> <li>Vegetation development is proposed along the lease area as restoration work.</li> <li>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.</li> </ul>
	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.	<ul style="list-style-type: none"> <li>The domestic sewage from the canteen and toilets will be routed to septic tanks.</li> <li>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.</li> </ul>
	c. Air Environment	Dust due to excavation of material and transportation of excavated material from the project site to dumping sites area.	<ul style="list-style-type: none"> <li>Use of Personal Protection Equipment's (PPE) like dust masks, ear plugs etc. by the mine workers.</li> <li>Ambient Air Quality Monitoring will be conducted on regularly basis to assess the quality of ambient air.</li> <li>Regular water sprinkling on haul</li> </ul>

			<p>roads &amp; loading points will be carried out.</p> <ul style="list-style-type: none"> <li>Development of green belt/plantation around the lease boundary, roads, dumps etc.</li> </ul>
	d. Noise Environment	Noise will only be generated due evacuation, transportation activities.	<ul style="list-style-type: none"> <li>Proper maintenance, oiling and greasing of transport vehicles at regular intervals will be done to reduce the generation of noise.</li> <li>Adequate silencers will be provided in all the diesel engines.</li> <li>Plantation along the sides of approach roads, around office building and mine area will be done to minimize the propagation of noise.</li> </ul>
	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.	<ul style="list-style-type: none"> <li>Prior to mining, short awareness program will be conducted for labors to make them aware for way of working.</li> <li>No tree cutting, chopping, lumbering, uprooting of shrubs and herbs will be allowed.</li> <li>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.</li> </ul>
	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.	<ul style="list-style-type: none"> <li>Training of employees for use of safety appliances and first aid in vocational training center.</li> <li>Regular maintenance and testing of all equipment as per manufacturers' guidelines.</li> </ul>
	g. Others	--	--
2.	Occupational health & safety measures as per DGMS	<p>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.</p> <p>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:</p> <ul style="list-style-type: none"> <li>Provision of rest shelters for mine workers with amenities like drinking water etc.</li> <li>All safety measures like use of safety appliances, such as dust masks, helmets, shoes, safety awareness programs, awards, posters, slogans related to safety etc.</li> </ul>	

		<ul style="list-style-type: none"> <li>• Periodical Medical Examination (PME) of all workers by a Medical Officer</li> <li>• First Aid facility is provided at the mine site.</li> <li>• Close surveillance of the factors in working environment and work practices which may affect environment and worker's health.</li> <li>• Working of mine as per approved mining plan and environmental plans.</li> </ul>
3.	Safety measures proposed	<ul style="list-style-type: none"> <li>• 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;</li> <li>• Entry of unauthorized persons will be prohibited;</li> <li>• Firefighting and first-aid provisions in the mines office complex and mining area;</li> <li>• 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;</li> </ul>
	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 & Conditions of Service) Act, 1996 and as Beneficiaries with the Gujarat Building and other Construction Workers Welfare Boards is obtained or not?	Registration of Workers shall be done of the lease.
	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.
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**F. Transportation:**

1.	No. of vehicles per day carrying Minerals	3-4
2.	Fugitive dust emission control measures	<ul style="list-style-type: none"> <li>· Use of Personal Protection Equipment's (PPE) like dust masks, ear plugs etc. by the mine workers.</li> <li>· Ambient Air Quality Monitoring will be conducted on regularly basis to assess the quality of ambient air.</li> <li>· Regular water sprinkling on haul roads &amp; loading points will be carried out.</li> <li>· Development of green belt/plantation around the lease boundary, roads, dumps etc.</li> </ul>
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-97.

**G. Financial details of the Project:**

1.	Total cost of the project (Lakh)	Rs. 43 lakhs		
	a. Upfront cost (Lakh)			
	b. Performance Security (Lakh)	Rs. 11,75,760/-		
	c. Total Royalty (Lakh)	Rs. 24,00,000/-		
	d. Weigh Bridge Cost (Lakh)			
	e. Labor cost equipment (Lakh)			
	f. Equipment protection and implementation cost (Lakh)			
	g. Green Belt Development & maintenance cost (Lakh)	0.30		
	h. Cost of EMP (Lakh)	1.0 (proposed)		
	i. Cost of Safety measures (Lakh)	0.20		
j. Cost of Post-Closure Mine Plan (Lakh)	-			
2.	Budget allocated for CER (Lakh)	1.0		
3.	Is need based survey for CER carried out? (Yes / No)  If yes, give details of activities along with Budgetary Outlay	<b>S. No.</b>	<b>Activities</b>	<b>Allocation of Fund (Rs. Lacs)</b>
		1	Solid Waste management Facilities	0.30
		2	Rain Water Harvesting	0.40
		3	Avenue Plantation	0.30
			<b>Total</b>	<b>1.0</b>

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**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	There is no human settlement within the lease area. No human settlement will be disturbed due to the mining activity. So, no Rehabilitation and Resettlement is proposed. The un-mined 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	NIL
5.	Post Closure Liability / Safety aspects and Measures to be taken to avoid wild life and human accidents/ casualties	Fencing will be 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 will be developed as water collection pond to store rain 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 MoEF&CC-Bhopal	Not applicable

**J. Contact Details:**

1.	<b>Contact details of Applicant</b>	
2.	Name	ShriHardikkumarGovindbhai Patel
3.	Address	R/o Shivabhai Kavi Marg, Haldarvas, Kheda, Gujarat 387110
4.	Contact no.	9624466166
5.	Email Id	blocka.hardik@gmail.com

<b>6.</b>	<b>Contact details of consultant</b>	
<b>7.</b>	Name	Enviro Infra Solutions Pvt. Ltd.
<b>8.</b>	Address	301, 302 & 305, Shri Ram Business Center Plot No. INS-12, Sector-9 Vasundhara, Delhi-NCR, Ghaziabad-201012
<b>9.</b>	Contact no.	8511815530
<b>10.</b>	Email Id	eis.gujarat@gmail.com

### Deliberation:

- Shri Yogesh Singh presented the details of the project before the Committee on behalf the PP during SEAC meeting dated 08.09.2021 and he has submitted the Authorization letter for same.
- Committee deliberated on method of mining, rate of mining, no. of working hours and no. of workers, EMP, CER budget and its activities, Green belt development, cluster situation etc.
- Committee informed the consultant that the CER activities shall be related to the Environmental Conservation. Later on he has submitted the revised CER activities as sought.
- He informed the Committee that the proposal for mining of ordinary sand involves semi-mechanized open cast mining.
- Distance of the lease from Environmental Sensitivities was also discussed and found as per the prescribed criteria. He informed the Committee that the lease area is not under submergence and it is not the case of instream mining. He also presented satellite images of different years showing the lease area dry.

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 – III.**

### 25. WHITE CLAY / 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

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												SEAC
SIA/GJ/MI N/63014/2 021	SHRI SHIVJIBH AI KARSHA NBHAI AHIR	Survey no. 290  Pvt. Waste land	Mamu uara	Bhuj	kut ch	1.48. 72Ha	Lol issued on 03.02 .2021 for 30 years	1,41, 177 MTP A	Mamu ara – 1.47 km	Cem ent indus try	Rs.14 5 Lakh	13.08. 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 White Clay / China Clay.

A. Basic Information of the Project:																				
1.	Name of Project as per Form I	Shri Shivjibhai Karshanbhai Ahir																		
2.	Address of the lease	Village:Mamuara Taluka:Bhuj District:Kutch State: Gujarat																		
3.	Name of lease holder	Shri ShivjibhaiKarshanbhaiAhir																		
4.	Lease area (Ha)	1.48.72 Ha.																		
5.	Cluster Details																			
	a. Total no. of leases in the cluster	10																		
	b. No. of TOR granted in cluster	Nill																		
	c. No. of EC granted in cluster	Nill																		
	d. Total area of the cluster	70.04.86Ha.																		
	e. Maximum individual lease area	15.00.00Ha.																		
	f. Minimum individual lease area	01.00.16 Ha.																		
6.	Validity of lease with the date of expiry	5 Years from the date of agreement issued.																		
7.	Rate of Mining (MT/Annum)	1,41,177 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 border="1"> <thead> <tr> <th>Pillars</th> <th>Latitude</th> <th>Longitude</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>23° 16' 42.8"N</td> <td>69°51' 13.9"E</td> </tr> <tr> <td>2</td> <td>23° 16' 35.6"N</td> <td>69°51' 14.6"E</td> </tr> <tr> <td>3</td> <td>23° 16' 35.9"N</td> <td>69°51' 16.8"E</td> </tr> <tr> <td>4</td> <td>23° 16' 40.5"N</td> <td>69°51' 16.6"E</td> </tr> <tr> <td>5</td> <td>23° 16' 43.2"N</td> <td>69°51' 16.0"E</td> </tr> </tbody> </table>	Pillars	Latitude	Longitude	1.	23° 16' 42.8"N	69°51' 13.9"E	2	23° 16' 35.6"N	69°51' 14.6"E	3	23° 16' 35.9"N	69°51' 16.8"E	4	23° 16' 40.5"N	69°51' 16.6"E	5	23° 16' 43.2"N	69°51' 16.0"E
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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- 8.25 KMfrom 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																		

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19.	Average depth of water at lease area (m)	50-55 m
20.	Depth of mining (m)	20 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	2.94 KM
24.	Length of kaccha road (m)	290 m
25.	Length of pacca road (m)	0 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 – 2.43KLD
	a. Domestic	0.4 KLD
	b. Dust suppression	0.9 KLD
	c. Gardening / Green belt development	1.13KLD
	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
	Residential	Mamuara – 1.47 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	Primary schools Mamuara- 1.59 Km		
	Inhabited sites	Mamuara – 1.47 Km		
	Protected monuments	Prag Mahal Palace - 19.14 Km		
	Heritage sites	Kala Raksha Museum- 22.60 Km		
	National / State Highway	SH 42- 2.96 Km NH 8A/41- 23.79 Km		
	District roads	2.96 KM		
	Public roads	2.02 KM		
	Railway line / area	Railway Track -8.02 KmKm		
	Ropeway or Ropeway trestle or station	Ratnal Railway station- 11.27 Km		
	Bridges	Village road Bridge- 8.25 KM		
	Dams	RudramataDam- 17.43 Km		
	Reservoirs	17.15 Km		
	River	Seasonal River- 7.58 Km		

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	Canal	12.04 Km		
	Lakes	New lake 1.36 km		
	Tanks	Nil		
2.	Eco-Sensitive Zone (if notified)	Distance of Kutch Desert Sanctuary Eco Sensitive zone is About 14.10 Km	i. Outside the Eco-Sensitive Zone (if located within Notified Eco-Sensitive Zone, Prior Clearance of NBWL required)	As per 3(i) of MoEFCC letter vide no. 6-60/2020WLP(1), dated 16.07.2020
			ii. >1 km and <10 km of National Park / Wildlife Sanctuary (Prior Clearance of NBWL may not be applicable)	As per 4(ii) & 4(iv) of MoEFCC OM vide no. 22-43/2018-IA.III, dated 08.08.2019
			iii. Proposal involving mining of mineral within 1 km from boundary of National Park and Sanctuaries is prohibited	As per 4(iv) of MoEFCC OM vide no. 22-43/2018-IA.III, dated 08.08.2019 in accordance with the order of the Hon'ble Supreme Court dated 04.08.2006 in the matter of T.N. Godavarman Thirumalpad Vs. UOI in W.P.(C) No. 202 of 1995
3.	Eco-Sensitive Zone (if not notified)	Not Applicable	(i) Outside the Eco-Sensitive Zone (ii) >1 km and <10 km of National Park / Wildlife Sanctuary (Prior Clearance of NBWL required)	As per 3(ii) of MoEFCC letter vide no. 6-60/2020WLP(1), dated 16.07.2020
4.	Attraction of General Conditions for change in category from 'B' to 'A'.	Not Applicable	0 to 5 km from the boundary of Environmental sensitivities prescribed in the referred Notification	Mo EFCC Notification no. S.O. 1599(E), dated 25.06.2014
5.	Distance of Coastal line from the site	48.88 Km	>500 M from HTL	Amended CRZ Notification 2011

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**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	35,500 Rs
	b. Green belt area / location	Along the statutory barrier and at approach road
	c. No. of trees to be planted	142
	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.	<ul style="list-style-type: none"> <li>❖ Ground water table is about 50-55-meter.</li> <li>❖ Mining will be done till depth of 20 meters from general ground level.</li> <li>❖ Mining shall not intersect ground table.</li> </ul>

			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	<ul style="list-style-type: none"> <li>❖ Proponent will Spend Rs 70,200 per year for sprinkling to internal road, loading point all transfer points.</li> <li>❖ Proponent will develop green belt around the lease area with Rs 35,500 and will spend Rs 5000 per year for the maintenance and replenishment of the plants.</li> <li>❖ 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.</li> <li>❖ Vehicles used in mines and transportation shall be maintained well to mitigate the fugitive emission.</li> </ul>
	d. Noise Environment	Noise due to working through heavy machinery.	<ul style="list-style-type: none"> <li>❖ Ear muffs will be used during high noise activity. Regular maintenance of machineries shall be done</li> </ul>
	e. Biological Environment	Nil	Nil
	f. Human Environment		<ul style="list-style-type: none"> <li>❖ Suitable and properly maintained first-aid outfit should be kept at the mine for use in case of accident</li> <li>❖ Safety equipment's like dust masks and ear muffs etc.</li> <li>❖ Health camps shall be arranged for local villagers and workers.</li> </ul>
	g. Others		
<b>2.</b>	Occupational health & safety measures as per DGMS	Nil	
<b>3.</b>	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	Will be done after the agreement of the lease.	

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	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	82
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 250.48M connected with metallic road Khavda- Jamkundaliya to local MDR road connected with state Highway-45.

**G. Financial details of the Project:**

1.	Total cost of the project (Lakh)	363lac
	a. Upfront cost (Lakh)	Nil
	b. Performance Security (Lakh)	Nil
	c. Total Royalty (Lakh)	215lac
	d. Weigh Bridge Cost (Lakh)	Nil
	e. Labor cost equipment (Lakh)	Labor cost- 45 lakh Equipment- 78 Lakh
	f. Environment protection and implementation cost (Lakh)	8.51 lakh
	g. Green Belt Development & maintenance cost (Lakh)	0.62 lakh
	h. Cost of EMP (Lakh)	----
	i. Cost of Safety measures (Lakh)	2.50 lakh
	j. Cost of Post-Closure Mine Plan (Lakh)	8.39 Lakh
2.	Budget allocated for CER (Lakh)	5.61lakh
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	<ul style="list-style-type: none"> <li>As per approved mining plan recovery of mineral is 85 % and 10 % rejected will generate so about 47540MT will be generated throughout the mining which will be used for back filling in the bench</li> </ul>

		<p>space.</p> <ul style="list-style-type: none"> <li>At the end Lessee will Develop Green belt in the statutory barrier area .and back filled area with the Desi Bavad, Imli, Ashoka, Gulmohar.</li> <li>At the end of mine about 4 feet high boundary/Peripheral wall with barbed will be fenced around the water reservoir area.</li> </ul> <p>Water Reservoir will be used for water harvesting and agriculture purpose</p>
3.	Backfilling material and its quantity	Waste or sub-grade generated from mine. 23903MT
4.	Size of void for Rain Water Harvesting after backfilling	1.48.72Ha.
5.	Post Closure Liability / Safety aspects and Measures to be taken to avoid wild life and human accidents/ causalities	<p>I. Will be fenced around the water reservoir area.</p> <p>II. 7.5-meter-thick green belt will be developed around the statutory barrier. Slop of 45 degree will be maintained in the pit.</p>
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
<b>I. Details of Legal Action / Court Case:</b>		
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
<b>J. Contact Details:</b>		
1.	<b>Contact details of Applicant</b>	
2.	Name	<b>ShriShivjibhaiKarshanbhaiAhir</b>
3.	Address	R/o- 12-50-90 HimmatnagarJayubeliGround, Pase Bhuj, Kutch, (Gujarat)- 370001
4.	Contact no.	9898028500
5.	Email Id	Shijibhaimine1@gmail.com
6.	<b>Contact details of Consultant</b>	
7.	Name	Cognizance Research India Private Ltd.
8.	Address	Suit No. - B 02, H - 61, sec - 63, Noida - 201301. (U.P).
9.	Contact no.	----
10.	Email Id	Bgs.environment@gmail.com

### Deliberation:

- Shri Sushant Maheshwari presented the details of the project before the Committee on behalf the PP during SEAC meeting dated 08.09.2021 and he has submitted the Authorization letter for same.

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- Committee deliberated on method of mining, rate of mining, no. of working hours and no. of workers, EMP, CER budget and its activities, Green belt development etc.
- Committee also deliberated on the number of cluster, total area of the cluster, maximum and minimum lease area of cluster etc.
- He informed the Committee that the proposal for mining of white clay / china clay involves semi-mechanized mining without blasting.
- Distance of the lease from Environmental Sensitivities was also discussed and found as per the prescribed criteria.

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 – II**.

#### 26. BLACK TRAP MINING, DIST: KUTCH – 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/60704/2021	SHRI MURJI SHIVJI MEPANI	53 Paiki Govt. Land	Kera	Bhuj	Kutch	2.00.00 Ha	Lol issued on 17.11.2006 for 10 years, validity extendable up to 2030.	26,667MT PA	Baladi – 378 m	Construction	Rs.2.53 Crore	17.08.2021  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:

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1.	Name of Project as per Form I	<b>Shri Murji Shivji Mepani</b>	
2.	Address of the lease	Village:Kera, Taluka:Bhuj, District:Kutch, State: Gujarat	
3.	Name of lease holder	<b>Shri Murji Shivji Mepani</b>	
4.	Lease area (Ha)	2.00.00Hect.	
5.	Cluster Details	Cluster ID-KUT BHUJ 22	
	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	<b>As per GMMC Release will be eligible for extension up to 2030</b>	
7.	Rate of Mining (MT/Annum)	26,667MTPA	
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°5'11.60"N 69°37'17.40"E
		2	23°5'8.90"N 69°37'21.80"E
		3	23°5'4.20"N 69°37'20.20"E
		4	23°5'5.90"N 69°37'17.10"E
		5	23°5'7.07"N 69°37'17.80"E
	6	23°5'8.60"N 69°37'16.20"E	
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	SH- 48 bridge is About 3.38 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	222m	
24.	Length of kaccha road (m)	Adjacent	
25.	Length of pacca road (m)	Nil	
26.	Plan for making pacca road	No	

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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 –3.07 KLD
	a. Domestic	0.5KLD
	b. Dust suppression	0.97KLD
	c. Gardening / Green belt development	1.6KLD
	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 –1.88 KM	200 m  (When Blasting is involved)	As per CPCB Distance Criteria And order of NGT before Principal Bench in the O.A. NO 85/2018 ( WZ) dtd 30.09.2020
	Public buildings	Primary school atBaladia-0.77 KM		
	Inhabited sites	Kera – 1.88 KM		
	Protected monuments,	Laksheshwar Shiva temple Kera– 2.82 Km		
	Heritage sites	Tapkeshwari Mandir – 11.46 Km		
	National / State Highway	SH 48 – 1.90 Km NH 8A/41 – 24.70 Km		
	District roads	1.90 KM		
	Public roads	0.24 KM		
	Railway line / area	Railway Track – 13.75 Km		
	Ropeway or Ropeway trestle or station	Bhuj Railway station-20.74 Km		
	Bridges	SH- 48 bridge is About 3.38 km		
	Dams	Tappar Dam- 6.06 Km		
	Reservoirs	Tappar Reservoirs6.00 Km		
	River	Seasonal river stream 3.16 km		
Canal	Canal- 22.76km			
Lakes	Babiya Lake 7.62 Km			

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	Tanks	Reliance PVC Water Tank 19.50 Km		
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2.	Eco-Sensitive Zone (if notified)	Not Applicable	i.) Outside the Eco-Sensitive Zone (if located within Notified Eco-Sensitive Zone, Prior Clearance of NBWL required)	As per 3(i) of MoEFCC letter vide no. 6-60/2020WLPart(1), dated 16.07.2020
		Eco zone of Kutch Wildlife sanctuary is about 39.05 km	ii.) >1 km and <10 km of National Park / Wildlife Sanctuary (Prior Clearance of NBWL may not be applicable)	As per 4(ii) & 4(iv) of MoEFCC OM vide no. 22-43/2018-IA.III, dated 08.08.2019
		There is no national park under 1 km from lease area.	iii.) Proposal involving mining of mineral within 1 km from boundary of National Park and Sanctuaries is prohibited	As per 4(iv) of MoEFCC OM vide no. 22-43/2018-IA.III, dated 08.08.2019 in accordance with the order of the Hon'ble Supreme Court dated 04.08.2006 in the matter of T.N. GodavarmanThirumulpad Vs. UOI in W.P.(C) No. 202 of 1995
3.	Eco-Sensitive Zone (if not notified)	Not Applicable	Outside the Eco-Sensitive Zone >1 km and <10 km of National Park / Wildlife Sanctuary (Prior Clearance of NBWL required)	As per 3(ii) of MoEFCC letter vide no. 6-60/2020WLPart(1), dated 16.07.2020
4.	Attraction of General Conditions for change in category from 'B' to 'A'.	Nil	0 to 5 km from the boundary of Environmental sensitivities prescribed in the referred Notification	Mo EFCC Notification no. S.O. 1599(E), dated 25.06.2014
5.	Distance of Coastal line from the site	37.25 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	<ul style="list-style-type: none"> <li>❖ The diameter of holes used in all the blasts will be 100 mm.</li> <li>❖ The depth of blast holes generally will be 1.5 m.</li> <li>❖ The total number of holes in a blasting round will be varying from 5 to 50.</li> <li>❖ Burden and spacing values in all the blasts will be depend on depth and diameter of holes.</li> <li>❖ 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.</li> <li>❖ 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.</li> <li>❖ Before blasting the upper surface of the bench shall be cleaned off any stones lying above.</li> <li>❖ The control of fly rock will achieve through proper blast design patterns along with their proper implementation and supervision of the total blasting operations.</li> </ul> <p>Blasting shall be done by using short delay detonator to reduce ground vibration and control blasting shall be practiced only in Day time</p>
7.	Frequency of blasting	ones in a weak
8.	Impact of blasting	<ul style="list-style-type: none"> <li>• Fire and Explosion and dust generation</li> <li>• Noise generation</li> </ul>
9.	Outcome of Vibration study	We will be submitted with EIA report
10.	Blasting Activity Management Plan	<ul style="list-style-type: none"> <li>❖ Blasting to be performed strictly as per the guidelines specified under MMR,1961;</li> <li>❖ Proper design of blast with correct spacing, burden and optimum charge/delay;</li> <li>❖ Supervision of drilling and blasting operations to ensure blast design geometry as per planning;</li> <li>❖ Sub-drilling will be kept adequate to eliminate toe formation;</li> <li>❖ Blasting operations will be carried out only during day time as per DGMS guidelines;</li> <li>❖ Proper warning signals will be used;</li> <li>❖ Adequate safe distance from habitation as per standards from center of blasting be maintained;</li> <li>❖ Drilling parameters like burden, depth, diameter and spacing will be properly designed to ensure proper blast;</li> </ul> <p>Effective stemming of the explosives be done in the drill holes</p>
11.	Use of any Chemical with quantity	1.A.N.F.O (A.N. 94%, F.O6%) 2.Special Gelatine
12.	Precautions taken for Human Safety in brief	<ul style="list-style-type: none"> <li>❖ Suitable and properly maintained first-aid outfit should be kept at the mine for use in case of accident</li> </ul>

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		<ul style="list-style-type: none"> <li>❖ Safety equipment's like dust masks and ear muffs etc.</li> <li>❖ Safety helmet where falling objects may create a hazard shall be provided.</li> <li>❖ Health camps shall be arranged for local villagers and workers.</li> </ul>																								
13.	Crusher provided? If Yes, Measures taken for Air Pollution Control	Nil																								
14.	Compliance of DGMS Guidelines for Blasting	<table border="1"> <thead> <tr> <th>S. No.</th> <th>DGMS Guideline for Blasting (As per MMR 1961)</th> <th>Compliance</th> </tr> </thead> <tbody> <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> <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</td> <td>Will be comply</td> </tr> </tbody> </table>	S. No.	DGMS Guideline for Blasting (As per MMR 1961)	Compliance	1	Blasting should be done only by the authorized blaster	Blasting will be done by the authorized blaster.	2	Blasting will be done in noon time	Blasting always done in noon time, when there will be no local farmer working in 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	Will be comply
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7.	Where in any mine or part it is proposed to work by a system of deep-hole blasting and/or with	Will be comply																								

		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)	
	8	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 and issue of explosives. <b>Rule no. 156 (1)</b>	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 the purpose, and only against their signature or thumb impression. Such requisitions shall be preserved by the person in charge of the magazine or store or premises. <b>(Rule no. 156 (3))</b>	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. <b>Rule no. 156 (4)</b>	No Blasting material will store at the mining site.
	11	The preparation of charges and the charging and stemming of	Will be comply

			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. <b>Rule no. 160 (1)</b>	
		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. <b>Rule no. 160 (2)</b>	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. <b>Rule no. (164 (1-B)(a)</b>	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.	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	50,000Rs.
	b. Green belt area / location	At statutory 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 the lease area impact 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	<b>Surface Water Management</b> (i). Proper imitative measures will be taken up to control the pollutants within prescribed standards and limiting the emissions to site

		<p>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.</p> <p><b>Impact on Ground Water</b></p> <p>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 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</p>	<p>only.</p> <p>(ii). Garland drains will be provided to prevent the entry of rainwater into the mining pit.</p> <p><b>Ground Water Management</b></p> <p>(i). Mining shall not intersect the ground water table of the area.</p> <p>(ii). Natural pits will be used for rainwater conservation and harvesting.</p> <p>(iii). Rain water harvesting practices shall be done which will lead to ground water recharge.</p> <p>(iv). At the end of the life of mine artificial water reservoir shall be prepared.</p> <p><b>Water Conservation</b></p> <p>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</p>	
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		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	<ul style="list-style-type: none"> <li>❖ Proponent will Spend Rs 87,300 per year for sprinkling to internal road, loading point all transfer points.</li> <li>❖ 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.</li> <li>❖ 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 Kutcharoad.</li> <li>❖ Vehicles used in mines and transportation shall be maintained well to mitigate the fugitive emission.</li> </ul>
	d. Noise Environment	Noise due to working through heavy machinery.	<ul style="list-style-type: none"> <li>❖ Ear muffs will be used during high noise activity.</li> </ul> Regular maintenance of machineries shall be done
	e. Biological Environment	Nil	Nil
	f. Human Environment		<ul style="list-style-type: none"> <li>❖ Suitable and properly maintained first-aid outfit should be kept at the mine for use in case of accident</li> <li>❖ Safety equipment's like dust masks and ear muffs etc.</li> <li>❖ Health camps shall be arranged for local villagers and workers.</li> </ul>
	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	Will be done after the agreement of the lease.	

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

**F. Transportation:**

1.	No. of vehicles per day carrying Minerals	7No 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 adjacent to the state highway .

**G. Financial details of the Project:**

1.	Total cost of the project (Lakh)	2.53 Cr.
	a. Upfront cost (Lakh)	Nil
	b. Performance Security (Lakh)	Nil
	c. Total Royalty (Lakh)	0.59.68Cr.
	d. Weigh Bridge Cost (Lakh)	Nil
	e. Labor cost equipment (Lakh)	Labor cost – 45.00 lac Equipment (Hitachi & Dumper)- 78 lac Drilling & blasting = 53.05 lac
	f. Environment protection and implementation cost (Lakh)	8.78 lakh
	g. Green Belt Development & maintenance cost (Lakh)	0.80 lakh
	h. Cost of EMP (Lakh)	Nil
	i. Cost of Safety measures (Lakh)	Safety Cost= 2,50,000 Rs Fencing cost + LPS = 1,10,000
	j. Cost of Post-Closure Mine Plan (Lakh)	9.80lac
2.	Budget allocated for CER (Lakh)	10.00 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.
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2.	Post mining closure plan	<ul style="list-style-type: none"> <li>In the five year Lease will mined out about 1.12.18 Hect. area in the first year period and he will plant about 200 plants.</li> <li>As per approved mining plan recovery of mineral is 90 % and 10 % waste will generate so about 13265 MT will be generated through out the mining which will be used to maintain a slope by filling in bench space.</li> <li>At the end Lessee will Develop Green belt in the statutory barrier area is about 0.31.61 Hect. with the Desi Bavad, Imli, Ashoka, Gulmohar.</li> <li>1.05.08 Hect area will be converted into Water Reservoir and be used for water harvesting and agriculture purposes</li> </ul>
3.	Backfilling material and its quantity	Waste or sub-grade generated from mine. 13,265 MT
4.	Size of void for Rain Water Harvesting after backfilling	2.00.00Hect
5.	Post Closure Liability / Safety aspects and Measures to be taken to avoid wild life and human accidents/ causalities	<p>I. Will be fenced around the water reservoir area.</p> <p>II. 7.5-meter-thick green belt will be developed around the statutory barrier.</p> <p>III. Slope of 45 degree will be maintained in the pit.</p>
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
<b>I. Details of Legal Action / Court Case:</b>		
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
<b>J. Contact Details:</b>		
<b>1. Contact details of Applicant</b>		
2.	Name	<b>Shri Shivji Murji Mepani</b>
3.	Address	R/o- Kera, Taluka Bhuj, Dist. Kutch
4.	Contact no.	9998657707
5.	Email Id	basiyadiilipbhai74@gmail.com
<b>6. Contact details of Consultant</b>		
7.	Name	Cognizance Research India Private Ltd.
8.	Address	Suit No. - B 02, H - 61, sec - 63, Noida - 201301. (U.P).
9.	Contact no.	----
10.	Email Id	Bgs.environment@gmail.com

**Deliberation:**

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- Shri Sushant Maheshwari presented the details of the project before the Committee on behalf the PP during SEAC meeting dated 08.09.2021 and he has submitted the Authorization letter for same.
- Committee deliberated on method of mining, rate of mining, no. of working hours and no. of workers, EMP, CER budget and its activities, Green belt development etc.
- He informed the Committee that the proposal for mining of Black Trap involves semi-mechanized mining with blasting.
- Distance of the lease from Environmental Sensitivities was also discussed and found as per the prescribed criteria.
- Committee noted that the lease is existing and it is the case of TOR Violation. Shri Sushantbhai presented the production details (in MTPA) validated by the District Geologist, Kutch vide letter no. GKK/QL/10551/1138, dated 09.03.2021 as below:

Year	Prod	Year	Prod	Year	Prod	Year	Prod	Year	Prod	Year	Prod
Apr 07	-	Oct 09	4070	Apr 12	2607	Oct 14	1969.47	Apr 17	3621.555	Oct 19	0
May 07	-	Nov 09	7713	May 12	3537	Nov 14	1761.8	May 17	2158.77	Nov 19	0
June 07	-	Dec 09	3645	June 12	3618	Dec 14	1831.34	June 17	4172.27	Dec 19	0
July 07	-	Jan10	5323	July 12	472	Jan 15	1985.91	Jul 17	4489.48	Jan 20	3559.88
Aug 07	-	Feb 10	2602	Aug 12	3138	Feb 15	1434.05	Aug 17	5433.76	Feb 20	1338.45
Sept 07	940	Mar 10	12237	Sept 12	2612	Mar 15	1418.24	Sept 17	10177.4	Mar 20	666.73
Oct 07	1060	Apr 10	14073	Oct 12	3286	Apr 15	1541.22	Oct 17	3338.56	Apr 20	0.00
Nov 07	1000	May 10	4859	Nov 12	4001	May 15	2078.85	Nov 17	11270.9	May 20	0.00
Dec 07	1740	June 10	3504	Dec 12	5216	June 15	1947.42	Dec 17	7653.32	June 20	0.00
Jan 08	1730	July 10	292	Jan 13	6234	Jul 15	806.44	Jan 18	5225.83	Jul 20	0.00
Feb 08	1270	Aug 10	0	Feb 13	8723	Aug 15	1915.705	Feb 18	4664.62	Aug 20	230.40
Mar 08	1000	Sept 10	0	Mar 13	7976	Sept 15	2086.77	Mar 18	4814.73	Sept 20	190.75
Apr 08	1000	Oct 10	2949	Apr 13	2946	Oct 15	588.26	Apr 18	3273.01	Oct 20	0.00
May 08	2000	Nov 10	2970	May 13	2918	Nov 15	3472.27	May 18	674.86	Nov 20	0.00
June 08	820	Dec 10	4844	June 13	3972	Dec 15	2235.06	June 18	919.51	Dec 20	0.00
July 08	460	Jan 11	3233	Jul 13	2517	Jan 16	2010.645	July 18	3137.88	Jan 21	6202.59
Aug 08	570	Feb 11	3953	Aug 13	4159.79	Feb 16	1183.44	Aug 18	1540.32	Feb 21	3495.38
Sept 08	1090	Mar 11	5497	Sept 13	3795.33	Mar 16	1077.5	Sept 18	883.21	Mar 21	77.94
Oct 08	920	Apr 11	6193	Oct 13	8223.22	Apr 16	103.28	Oct 18	1158.26	-	-
Nov 08	1050	May 11	8096	Nov 13	6883.71	May 16	2106.64	Nov 18	40	-	-
Dec 08	1840	June 11	6298	Dec 13	6647.62	June 16	278.18	Dec 18	10	-	-
Jan 09	900	Jul 11	754	Jan 14	6005.12	July 16	498.735	Jan 19	0	-	-
Feb 09	990	Aug 11	568	Feb 14	6055.86	Aug 16	476.16	Feb 19	3876.28	-	-
Mar 09	3846	Sept 11	855	Mar 14	4794.96	Sept 16	271.9	Mar 19	4359.27	-	-
Apr 09	4477	Oct 11	1728	Apr 14	3044.01	Oct 16	457.63	Apr 19	1539.58	-	-
May 09	3902	Nov 11	6114	May 14	1216.54	Nov 16	466.955	May 19	27.34	-	-
June 09	2180	Dec 11	6115	June 14	2937.95	Dec 16	580.12	June 19	0	-	-
Jul 09	844	Jan 12	4394	July 14	2621.48	Jan 17	371.24	Jul 19	0	-	-
Aug 09	1323	Feb 12	3255	Aug 14	1801.55	Feb 17	730.94	Aug 19	0	-	-
Sept 09	3272	Mar 12	3410	Sept 14	2002.58	Mar 17	5545.71	Sept 19	0	-	-

- Committee noted that the production was continued after 31.03.2016. He presented acknowledgment slip of earlier TOR application made by the PP on 10.10.2015, i.e. before 13.04.2018.

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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 10.10.2015. 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** 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 - IV**.

#### 27. ORDINARY SAND MINING, DIST: CHHOTAUDAIPUR

Application No	Name of Project	S.No.	Village	Taluka	District	Lease Area	Validity of lease	ROM	Nearest Human Habitation	End Use	Investment in Rs	Date of Application Received by SEAC
SIA/GJ/MIN/63489/2021	Shri Virendrasinh C. Rathva (Ratanpur Ordinary Sand Block-R5)	340, 341 Orsang River Bed (Ratanpur Ordinary Sand Block-R5) Govt. Land	Ratanpur	JetpurPavi	Chhotaudapur	2.50.00 Ha	Lol issued on 22.01.2021	39,900 MTPA	Ratanpur – 0.52 km	Construction	Rs.99.00 Lakh	17.08.2021 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	<b>Shri Virendrasinh C. Rathva</b>
2.	Address of the lease	Village:Ratanpur Taluka:Pavijetpur, District:Chhotaudepur,

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		State: Gujarat		
3.	Name of lease holder	<b>Shri Virendrasinh C. Rathva</b>		
4.	Lease area (Ha)	2.50.00Hect		
5.	Cluster Details	Cluster ID – CHO-1		
	a. Total no. of leases in the cluster	360		
	b. No. of TOR granted in cluster	Nil		
	c. No. of EC granted in cluster	Nil		
	d. Total area of the cluster	1295.31.99		
	e. Maximum individual lease area	10.00.00		
	f. Minimum individual lease area	0.28.00		
6.	Validity of lease with the date of expiry	5 year from the date of LOI		
7.	Rate of Mining (MT/Annum)	39,900MTPA		
8.	Details of EC obtained (for expansion projects), if any	Nil		
9.	Name of River Bed	OrsangRiver		
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	<b>Pillars</b>	<b>Latitude</b>	<b>Longitude</b>
		1	22°18'43.65"N	73°49'3.87"E
		2	22°18'37.97"N	73°48'58.26"E
		3	22°18'38.64"N	73°48'55.82"E
		4	22°18'40.39"N	73°48'56.75"E
		5	22°18'44.81"N	73°48'57.32"E
13.	Manpower requirement	10		
14.	Applicability of CRZ Notification	Not applicable		
15.	Minimum Setback distance proposed to be maintained from River Bed (m)	30meters		
16.	Minimum buffer distance from bridge piers / water intake wells / irrigation structures	State Highway Bridge SH-11 -1.78 Km		
17.	Maximum depth of sand removal (3 m or water depth whichever is less)	3 m		
18.	Width of Riverbed (m)	700 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	0.80 Km		
24.	Length of kaccha road (m)	700m		
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 –4.06 KLD		
	a. Domestic	0.5KLD		
	b. Dust suppression	1.56KLD		

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	c. Gardening / Green belt development	2.00KLD
	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	Ratanpur – 0.52 Km (Ratanpur population- 2486 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 & Secondary School at Ratanpur = 0.91 Km		As per order of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020
	Inhabited sites	Ratanpur – 0.52 Km		
2.	A. Major Bridge	PaviJetpurBharaj river Bridge is about 1.78 km	1 km	On both sides of the lease (as per Sustainable Sand Mine Guideline of MOEF&CC)
	B. Highway	National Highway 56 is about 1.04 km from lease area	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)	Span of bridge (x)- 40 meter As per criteria for upstream criteria should be 5x i.e. 200 meter.	a. 5X in upstrea m or 250 m. b. 10X in downstr eam or 500 m	As per Sustainable Sand Mine Guideline of MOEF&CC
4.	Public Structure including water intake wells	there is no Public Structure under 1 km from lease area	a. 5X in upstrea m or 250 m. b. 10X in downstr eam or 500 m	As per Sustainable Sand Mine Guideline of MOEF&CC
5	Depth of working	0.6 meters Ground water table at lease area 7 m -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)

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6.	Set Back Distance to prevent river bank erosion	More than 30 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	39,900 MTPA	60,000 MTPA Per Hectare	As per Sustainable Sand Mine Guideline of MOEF&CC
8	Water supply Scheme/Irrigation structure	Sukhi Dam – 15.56 km	200 M	As per Sustainable Sand Mine Guideline of MOEF&CC
9	Railway	Railway Line – 1.18 km	100 M	As per Sustainable Sand Mine Guideline of MOEF&CC
10.	Reservoir / Canal	Sukhi Dam Reservoir- 15.62 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	Public Road- 0.80 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)	Not Applicable	i.) Outside the Eco-Sensitive Zone (if located within Notified Eco-Sensitive Zone, Prior Clearance of NBWL required)	As per 3(i) of MoEFCC letter vide no. 6-60/2020WLPart(1), dated 16.07.2020
		Distance of Eco Sensitive Zone of Jambhughoda Wildlife Sanctuary - 9.12 Km	ii.) >1 km and <10 km of National Park / Wildlife Sanctuary (Prior Clearance of NBWL may not be applicable)	As per 4(ii) & 4(iv) of MoEFCC OM vide no. 22-43/2018-IA.III, dated 08.08.2019
		There is no national park under 1 km	iii.) Proposal involving mining of mineral within 1 km from boundary of National Park and Sanctuaries is prohibited	As per 4(iv) of MoEFCC OM vide no. 22-43/2018-IA.III, dated 08.08.2019 in accordance with the order of the Hon'ble Supreme Court dated 04.08.2006 in the matter of T.N.

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				GodavarmanThirumulpad Vs. UOI in W.P.(C) No. 202 of 1995
13.	Eco-Sensitive Zone (if not notified)	Not Applicable	i) Outside the Eco-Sensitive Zone ii) >1 km and <10 km of National Park / Wildlife Sanctuary (Prior Clearance of NBWL required)	As per 3(ii) of MoEFCC letter vide no. 6-60/2020WLP(1), dated 16.07.2020
14.	Attraction of General Conditions for change in category from 'B' to 'A'.	Not Applicable	0 to 5 km from the boundary of Environmental sensitivities prescribed in the referred Notification	MoEFCC Notification no. S.O. 1599(E), dated 25.06.2014
15.	Distance of Coastal line from the site	139.67 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	62,500Rs.
	b. Green belt area / location	Along river coarse and at approach road
	c. No. of trees to be planted	250
	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 Orsangriver 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 1,01,400 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 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

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	f. Human Environment		<ul style="list-style-type: none"> <li>❖ Suitable and properly maintained first-aid outfit should be kept at the mine for use in case of accident</li> <li>❖ Safety equipment's like dust masks and ear muffs etc.</li> <li>❖ Health camps shall be arranged for local villagers and workers.</li> </ul>
	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.	
<b>F. Transportation:</b>			
1.	No. of vehicles per day carrying Minerals	4.34 Approx. 5	
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 908 m connected with state Highway- 6	
<b>G. Financial details of the Project:</b>			
1.	Total cost of the project (Lakh)	1.52Cr	
	a. Upfront cost (Lakh)	4.78 Lakh	
	b. Performance Security (Lakh)	4.78Lakh	
	c. Total Royalty (Lakh)	79.80lakh	

	d. Weigh Bridge Cost (Lakh)	8.0 lakh
	e. Labor cost equipment (Lakh)	39.00lakh
	f. Environment protection and implementation cost (Lakh)	10.07lakh
	g. Green Belt Development & maintenance cost (Lakh)	0.92lakh
	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)	2.84lakh
3.	Is need based survey for CER carried out? (Yes / No) If yes, give details of activities along with Budgetary Outlay	NO
<b>H. Restoration / Reclamation Plan:</b>		
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
<b>I. Details of Legal Action / Court Case:</b>		
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
<b>J. Contact Details:</b>		
1.	<b>Contact details of Applicant</b>	
2.	<b>Name</b>	<b>Shri Virendrasinh C. Rathva</b>
3.	Address	R/o- At-Po-Ratanpur, Ta- JetpurpaviDist- Chhotaudepur (Gujarat).
4.	Contact no.	992543942
5.	Email Id	valamine1@gmail.com
6.	<b>Contact details of Consultant</b>	
7.	Name	Cognizance Research India Private Ltd.
8.	Address	Suit No. - B 02, H - 61, sec - 63, Noida - 201301. (U.P).
9.	Contact no.	----
10.	Email Id	Bgs.environment@gmail.com

**Deliberation:**

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- Shri Sushant Maheshwari presented the details of the project before the Committee on behalf the PP during SEAC meeting dated 08.09.2021 and he has submitted the Authorization letter for same.
- Committee deliberated on method of mining, rate of mining, no. of working hours and no. of workers, EMP, CER budget and its activities, Green belt development, cluster situation etc.
- He informed the Committee that the proposal for mining of ordinary sand involves semi-mechanized mining.
- Distance of the lease from Environmental Sensitivities was also discussed and found as per the prescribed criteria. He informed the Committee that the lease area is not under submergence and it is not the case of instream mining. He also presented satellite images of last five years showing the lease area dry.

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 – III.**

## 28. 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/63327/2021	Iqbalkhan Nivajkha Kureshi (Jesangpura Ordinary Sand block-2)	Survey No. 40,44 & 45	Jesangpura	Dabhoi	Vadodara	4.00 .00 Ha	Lol issued on 25.11.2019 for 5 years	Orsang	80,000 MTPA	Jesangpura – 0.25 kms	Construction	Rs.2.56 Crore	17.08.2021 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	Iqbalkha Nivajkha Kureshi
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2.	Address of the lease	Village:Jesangpura, Taluka:Dabhoi, District:Vadodara, State: Gujarat		
3.	Name of lease holder	<b>IqbalkhaNivajkhaKureshi</b>		
4.	Lease area (Ha)	4.00.00Hect		
5.	Cluster Details	Cluster ID – VAD-9		
	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	26.66.45		
	e. Maximum individual lease area	5.90.00		
	f. Minimum individual lease area	0.56.45		
6.	Validity of lease with the date of expiry	5 year from the date of LOI		
7.	Rate of Mining (MT/Annum)	80,000MTPA		
8.	Details of EC obtained (for expansion projects), if any	Nil		
9.	Name of River Bed	OrsangRiver		
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	<b>Pillars</b>	<b>Latitude</b>	<b>Longitude</b>
		1	22° 0'59.19"N	73°28'16.93"E
		2	22° 0'58.48"N	73°28'13.62"E
		3	22° 01'01.72"N	73°28'12.37"E
		4	22° 01'07.05"N	73°28'12.03"E
		5	22° 01'13.51"N	73°28'15.37"E
		6	22° 01'8.72"N	73°28'15.05"E
13.	Manpower requirement	10		
14.	Applicability of CRZ Notification	Not applicable		
15.	Minimum Setback distance proposed to be maintained from River Bed (m)	15meters		
16.	Minimum buffer distance from bridge piers / water intake wells / irrigation structures	State Highway- 63 bridge - 3.36 km		
17.	Maximum depth of sand removal (3 m or water depth whichever is less)	3 m		
18.	Width of Riverbed (m)	720m		
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	0.49 Km		
24.	Length of kaccha road (m)	720 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		

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		will be Purchase from nearby tanker suppliers
28.	Water requirement (KLPD)	Total -5.6 KLD
	a. Domestic	0.6KLD
	b. Dust suppression	1.8KLD
	c. Gardening / Green belt development	3.2KLD
	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	Jesangpura 0.25 km (Jesangpura population-811As 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 Jesangpura 0.36 KM		As per order of NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020
	Inhabited sites	Jesangpura 0.25 km		
2.	A. Major Bridge	State Highway 63 bridge is about 3.36 km	1 km	On both sides of the lease (as per Sustainable Sand Mine Guideline of MOEF&CC)
	B. Highway	State Highway-63 is about 2.98 km from lease area	1 Km	
OR				
3.	Bridge(Span of Bridge as X )	Not Applicable	5X in upstream or 250 m. 10X in down stream or 500 m	As per Sustainable Sand Mine Guideline of MOEF&CC
4.	Public Structure including water intake wells	There is no public structure under 1 km from lease area	5X in upstream or 250 m. b. 10X in down stream or 500 m	
5	Depth of working	0.6 meter Ground water table at lease area 7-m -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	25 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	80,000 MTPA	60,000 MTPA Per Hectare	As per Sustainable Sand Mine Guideline of MOEF&CC
8	Water supply Scheme/Irrigation structure	Canal = 5.37 km	200 M	As per Sustainable Sand Mine Guideline of MOEF&CC
9	Railway Line	Railway line- 2.63 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
10.	Reservoir / Canal	Canal= 5.37 KM	100 M	
11.	Other Road	Public Road- 0.49 Km	100 M	
12.	Eco-Sensitive Zone (if notified)	Not Applicable	i.) Outside the Eco-Sensitive Zone (if located within Notified Eco-Sensitive Zone, Prior Clearance of NBWL required)	As per 3(i) of MoEFCC letter vide no. 6-60/2020WLP(1), dated 16.07.2020
		Distance of Eco Sensitive Zone of Shoolpanehsvar Wildlife Sancturary – 21.62 Km	ii.) >1 km and <10 km of National Park / Wildlife Sanctuary (Prior Clearance of NBWL may not be applicable)	As per 4(ii) & 4(iv) of MoEFCC OM vide no. 22-43/2018-IA.III, dated 08.08.2019
		There is no national park under 1 km	iii.) Proposal involving mining of mineral within 1 km from boundary of	As per 4(iv) of MoEFCC OM vide no. 22-43/2018-IA.III, dated 08.08.2019 in accordance with the order of the Hon'ble Supreme

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			National Park and Sanctuaries is prohibited	Court dated 04.08.2006 in the matter of T.N. GodavarmanThirumulpad Vs. UOI in W.P.(C) No. 202 of 1995
13.	Eco-Sensitive Zone (if not notified)	Not Applicable	i) Outside the Eco-Sensitive Zone ii) >1 km and <10 km of National Park / Wildlife Sanctuary (Prior Clearance of NBWL required)	As per 3(ii) of MoEFCC letter vide no. 6-60/2020WLP(1), dated 16.07.2020
14.	Attraction of General Conditions for change in category from 'B' to 'A'.	Not Applicable	0 to 5 km from the boundary of Environmental sensitivities prescribed in the referred Notification	MoEFCC Notification no. S.O. 1599(E), dated 25.06.2014
15.	Distance of Coastal line from the site	60.10 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)	
<b>D. Details of Green Belt Development:</b>			
1.	a. Green belt development budget	1,00,000Rs.	
	b. Green belt area / location	Along river coarse and at approach road	
	c. No. of trees to be planted	400	
	d. Types of trees to be planted	Indigenous	
<b>E. Details of Environment Management Plan:</b>			
1.	<b>Details of EMP</b>	<b>Impact</b>	<b>Mitigation Measures</b>
	a. Land Environment	By the extraction of mineral from the lease area impacts to change the land pattern	The mining lease area granted in Orsangriver 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 1,21,680 per year for sprinkling to internal road, loading point all transfer points. ❖ Proponent will develop green belt around the lease area with Rs 1,00,000and 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

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			shall be done
	e. Biological Environment	Nil	Nil
	f. Human Environment		<ul style="list-style-type: none"> <li>❖ Suitable and properly maintained first-aid outfit should be kept at the mine for use in case of accident</li> <li>❖ Safety equipment's like dust masks and ear muffs etc.</li> <li>❖ Health camps shall be arranged for local villagers and workers.</li> </ul>
	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	4.34 Approx. 5
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 908 m connected with state Highway– 60

**G. Financial details of the Project:**

1.	Total cost of the project (Lakh)	2.56Cr
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	a. Upfront cost (Lakh)	29.37 Lakh
	b. Performance Security (Lakh)	29.37Lakh
	c. Total Royalty (Lakh)	132.48lakh
	d. Weigh Bridge Cost (Lakh)	8.0 lakh
	e. Labor cost equipment (Lakh)	39.00lakh
	f. Environment protection and implementation cost (Lakh)	12.08lakh
	g. Green Belt Development & maintenance cost (Lakh)	1.40lakh
	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)	2.13 lakh
3.	Is need based survey for CER carried out? (Yes / No) If yes, give details of activities along with Budgetary Outlay	NO
<b>H. Restoration / Reclamation Plan:</b>		
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
<b>I. Details of Legal Action / Court Case:</b>		
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
<b>J. Contact Details:</b>		
1.	<b>Contact details of Applicant</b>	
2.	<b>Name</b>	<b>IqbalkhaNivajkhaKureshi</b>
3.	Address	R/o- At Po- Chanwada, Ta- Dabhoi, Dist- Vadodara (Gujarat).391110
4.	Contact no.	992543942
5.	Email Id	valamine1@gmail.com
6.	<b>Contact details of Consultant</b>	
7.	Name	Cognizance Research India Private Ltd.
8.	Address	Suit No. - B 02, H - 61, sec - 63, Noida - 201301. (U.P).
9.	Contact no.	----
10.	Email Id	Bgs.environment@gmail.com

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### Deliberation:

- Shri Sushant Maheshwari presented the details of the project before the Committee on behalf the PP during SEAC meeting dated 08.09.2021 and he has submitted the Authorization letter for same.
- Committee deliberated on method of mining, rate of mining, no. of working hours and no. of workers, EMP, CER budget and its activities, Green belt development, cluster situation etc.
- He informed the Committee that the proposal for mining of ordinary sand involves semi-mechanized mining.
- Distance of the lease from Environmental Sensitivities was also discussed and found as per the prescribed criteria. He informed the Committee that the lease area is not under submergence and it is not the case of instream mining. He also presented satellite images of last five years showing the lease area dry.

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 – III.**

### 29. ORDINARY SAND MINING, DIST: BANASKANTHA

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/61420/2021	AmrutbhaiVirchandbhaiNai	1(a) Mining of mineral  Govt. Land	Vada	Kankrej	Banaskantha	09.90.00 Ha	Lol issued on 04.08.2012, valid up to 2022	Banas	80400 MTPA	Vada – 3.4 km	Construction	Rs.189.98 Lakh	17.08.2021  New project

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The consultant of the PP Shri Jeet Shah has requested to remain absent and consider the proposal in upcoming SEAC meeting vide E-mail dated 07.09.2021. Hence, the Committee unanimously decided to defer the proposal and consider the same in upcoming SEAC meeting.

### 30. 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/62443/2021	Roghada Limestone Area (Merkhibhai Jetabhai Vanda)	46/2 P & 46/4/1P  Non Forest Pvt. Land	Roghada	Kutiyana	Porbandar	04.00.00 Ha.	Lol issued on 29.09.2012 for 30 years	1944 22M TPA	Roghada – 0.77 km	Construction	Rs.27 1.52 Lakh	13.08.2021  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 Limestone.

A. Basic Information of the Project:		
1.	Name of Project as per Form I	Roghada Limestone Mine
2.	Address of the lease	Survey No.: <b>46/2P &amp; 46/4/1P</b> Village: Roghada Taluka: Kutiyana District: Porbandar
3.	Name of lease holder	Merkhibhai Jetabhai Vanda
4.	Lease area (Ha)	4.00 ha.
5.	Cluster Details	
	a. Total no. of leases in the cluster	-----N.A. (Because Major Mineral )
	b. No. of TOR granted in cluster	-----N.A.-----
	c. No. of EC granted in cluster	-----N.A.-----
	d. Total area of the cluster	-----N.A.-----
	e. Maximum individual lease area	-----N.A.-----
	f. Minimum individual lease area	-----N.A.-----
6.	Validity of lease with the date of expiry	06.02.2013 TO 05.02.2043 (For 30 Year)
7.	Rate of Mining (MT/Annum)	194422 TPA
8.	Details of EC obtained (for expansion projects), if any	N.A.
9.	Name of River Bed	N.A.

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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	Latitude :- 21°39'23.41"N to 21°39'32.50"N Longitude:- 70°03'42.40"E to 70°03'54.35"E
13.	Manpower requirement	34 Nos.
14.	Applicability of CRZ Notification	N.A.
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)	35 m bgl
20.	Depth of mining (m)	28-29 m bgl
21.	Ground Water Table in meter BGL	35-37 m 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	0.50 KM
24.	Length of kaccha road (m)	0.50 Km
25.	Length of pacca road (m)	Nil
26.	Plan for making pacca road	No
27.	Source of fresh water	Source: through well and water tankers
28.	Water requirement (kLPD)	6.00 KLD
	a. Domestic(Drinking & Sanitation)	2.00 KLD
	b. Dust suppression	3.00 KLD
	c. Gardening / Green belt development	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	Undertaking Attached

**B. Environmental Sensitivities:**

Sr No	Environmental Sensitivities	Actual Distance	Minimum Distance	Reference
1.	Residential	Village Roghda at - 770m in SE Direction		
	Public buildings	Porbandar at - 43.0 Km in West direction		

	Inhabited sites	Village Roghda at - 770m in SE Direction	<p>100 m (When Blasting is not involved)</p> <p><b>Or</b></p> <p>200 m (When Blasting is involved)</p>	<p>As per CPCB Distance Criteria And order of NGT before Principal Bench in the O.A. NO 85/2018 ( WZ) dtd 30.09.2020</p>
	Protected monuments,	Porbandar at - 43.0 Km in West direction		
	Heritage sites	Porbandar at - 43.0 Km in West direction		
	National / State Highway	NH – 8B at 1.16 Km in South Direction		
	District roads	350.0 m in east Direction		
	Public roads	1.16 Km South Direction		
	Railway line /area	Ranavav Railway Station at – 35.0 Km in West Direction		
	Ropeway or Ropeway trestle or station	Nil		
	Bridges	Bridge near village Chauta at 3.92 Km in West Direction		
	Dams	Dam near village Sindhpur at 1.88 Km in North Direction Dam near village Vekti at 2.01 Km in South Direction		
	Reservoirs	Nil		
	River	Bhadar River at 1.88 in South Direction Saran Nadi at 1.90 Km in North Direction		
	Canal	Nil		
	Lakes	Nil		
	Eco-Sensitive Zone (if notified)	Not Applicable	(i) Outside the Eco-Sensitive Zone (if located within Notified Eco-Sensitive Zone, Prior Clearance of NBWL required)	As per 3(i) of MoEFCC letter vide no. 6-60/2020WLPart(1), dated 16.07.2020

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			(ii) >1 km and <10 km of National Park / Wildlife Sanctuary (Prior Clearance of NBWL may not be applicable)	As per 4(ii) & 4(iv) of MoEFCC OM vide no. 22-43/2018-IA.III, dated 08.08.2019
			(iii) Proposal involving mining of mineral within 1 km from boundary of National Park and Sanctuaries is prohibited	As per 4(iv) of MoEFCC OM vide no. 22-43/2018-IA.III, dated 08.08.2019 in accordance with the order of the Hon'ble Supreme Court dated 04.08.2006 in the matter of T.N. Godavarman Thirumulpad Vs. UOI in W.P.(C) No. 202 of 1995
1.	Eco-Sensitive Zone (if not notified)	Not Applicable	(vii) Outside the Eco-Sensitive Zone  (viii) >1 km and <10 km of National Park / Wildlife Sanctuary (Prior Clearance of NBWL required)	As per 3(ii) of MoEFCC letter vide no. 6-60/2020WLP(1), dated 16.07.2020
2.	Attraction of General Conditions for change in category from 'B' to 'A'.	Not Applicable	0 to 5 km from the boundary of Environmental sensitivities prescribed in the referred Notification	MoEFCC Notification no. S.O. 1599(E), dated 25.06.2014
3.	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).	Mechanized open cast with drilling
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<b>2.</b>	Equipments to be used for Mining bulldozers, hydraulic excavators, JCB, scrapers, loaders, Diesel Pump, etc.)	<b>S. No</b>	<b>Type</b>	<b>Nos</b>	<b>Capacity in Cu.M./Tons</b>	<b>HP</b>	<b>Motiv e Power</b>
		1.	Dumper	2	20 tons	110	Diesel
		2.	Excavator	1	Bucket capacity- 0.5 m <sup>3</sup>	60	Diesel
		3.	Rock Breaker	1	150 cfm	150	Diesel Generator
		4.	Tractor mounted air compressor	1	150 cfm	150	Diesel
		5.	Tractors with trolley	2	4 tons each	45	Diesel
		6.	Tractor with water tank on trolley	1	5000 litre tank	45	Diesel
		7.	Water pump with diesel engine	1	100 litre/min	5	Diesel
		8.	Diesel Generator	1	2.5 litr/hour	25	Diesel
<b>3.</b>	Whether it includes blasting?	No					
<b>4.</b>	Details of Authorized Blasting Agency with date of validity certificate	N.A.					
<b>5.</b>	Procedure / SOP (in brief)	N.A.					
<b>6.</b>	Details of Blasting Parameters in brief	N.A.					
<b>7.</b>	Frequency of blasting	N.A.					
<b>8.</b>	Impact of blasting	N.A.					
<b>9.</b>	Outcome of Vibration study	N.A.					
<b>10.</b>	Blasting Activity Management Plan	N.A.					
<b>11.</b>	Use of any Chemical with quantity	N.A.					
<b>12.</b>	Precautions taken for Human Safety in brief	N.A.					
<b>13.</b>	Crusher provided? If Yes, Measures taken for Air Pollution Control	N.A.					
<b>14.</b>	Compliance of DGMS Guidelines for Blasting	N.A.					

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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.	
<b>D. Details of Green Belt Development:</b>			
1.	a. Green belt development budget	2.00 lac	
	b. Green belt area / location	1.6937 ha/ along lease boundary & mined-out benches.	
	c. No. of trees to be planted	1700 No.	
	d. Types of trees to be planted	Baval, Awala, Akada, Khakra etc.	
<b>E. Details of Environment Management Plan:</b> <u>Detail will be given with EIA &amp; EMP report after TOR.</u>			
1.	<b>Details of EMP</b>	<b>Impact</b>	<b>Mitigation Measures</b>
	a. Land Environment	Land degradation	Backfilling
	b. Water Environment	Not intersect.	Rain water storage
	c. Air Environment	Air quality	Plantations, Water spraying
	d. Noise Environment	No Impact	Earplug, plantations
	e. Biological Environment	No Impact	Plantations
	f. Human Environment	No Impact	Safety measures as per DGMS rules
	g. Others		
2.	Occupational health & safety measures as per DGMS	Health camp for workers as well as villagers.	
3.	Safety measures proposed		
	a. Is First Aid facility provided by PP?	Yes	
	b. Details of PPEs	Earplug, Helmets, Safety 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?	No	
	d. Insurance of Workers	Yes	
	e. Health checkup plan of workers	Twice a year	

<b>F. Transportation:</b>		
1.	No. of vehicles per day carrying Minerals	Aprox. 10-12 No.
2.	Fugitive dust emission control measures	Water Sprinkle within Mine as well as on Approach Road.
3.	Route plan in brief	Kuccha Road (0.50 Km) to reach on Tar road.

<b>G. Financial details of the Project:</b>		
1.	Total cost of the project (Lakh)	Rs - 271.52/- Lac
	a. Upfront cost (Lakh)	Nil
	b. Performance Security (Lakh)	10.00 Lac
	c. Total Royalty (Lakh)	206.08 Lac
	d. Weigh Bridge Cost (Lakh)	10.00 Lac
	e. Labor cost equipment (Lakh)	19.44 Lac
	f. Equipment protection and implementation cost (Lakh)	5.00 Lac
	g. Green Belt Development & maintenance cost (Lakh)	2.00 Lac
	h. Cost of EMP (Lakh)	8.00 Lac
	i. Cost of Safety measures (Lakh)	1.00 Lac
	j. Cost of Post-Closure Mine Plan (Lakh)	10.00 Lac
2.	Budget allocated for CER (Lakh)	
3.	Is need based survey for CER carried out? (No)  If yes, give details of activities along with Budgetary Outlay	No.

<b>H. Restoration / Reclamation Plan:</b>																																																	
1.	Restoration / Reclamation Details	Restoration / Reclamation (Plantation Along lease boundary 0.20 Hect)																																															
2.	Post mining closure plan	<table border="1"> <thead> <tr> <th rowspan="2">S. No.</th> <th rowspan="2">Description</th> <th colspan="5">Land Use in ha.</th> </tr> <tr> <th>Plantation</th> <th>Water Body</th> <th>Public Use</th> <th>Undisturbed</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Mining area</td> <td>0.00</td> <td>3.1829</td> <td>00.00</td> <td>00.00</td> <td>3.1829</td> </tr> <tr> <td>2</td> <td>Dump area</td> <td>0.00</td> <td>00.00</td> <td>00.00</td> <td>00.00</td> <td>0.00</td> </tr> <tr> <td>3</td> <td>Road</td> <td>0.000</td> <td>00.00</td> <td>0.1234</td> <td>00.00</td> <td>0.1234</td> </tr> <tr> <td>4</td> <td>Bare Area</td> <td>0.6937</td> <td>00.00</td> <td>00.00</td> <td>0.00</td> <td>0.6937</td> </tr> <tr> <td>5</td> <td>Pri</td> <td>00</td> <td>00.00</td> <td>00.00</td> <td>00.00</td> <td>00.00</td> </tr> </tbody> </table>	S. No.	Description	Land Use in ha.					Plantation	Water Body	Public Use	Undisturbed	Total	1	Mining area	0.00	3.1829	00.00	00.00	3.1829	2	Dump area	0.00	00.00	00.00	00.00	0.00	3	Road	0.000	00.00	0.1234	00.00	0.1234	4	Bare Area	0.6937	00.00	00.00	0.00	0.6937	5	Pri	00	00.00	00.00	00.00	00.00
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2	Dump area	0.00	00.00	00.00	00.00	0.00																																											
3	Road	0.000	00.00	0.1234	00.00	0.1234																																											
4	Bare Area	0.6937	00.00	00.00	0.00	0.6937																																											
5	Pri	00	00.00	00.00	00.00	00.00																																											

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			vat e La nd	.0 0	0	0	00	0
			<b>Total</b>	<b>0.6 93 7</b>	<b>3.18 29</b>	<b>0.12 34</b>	<b>0.00 0</b>	<b>4.00 0</b>
3.	Backfilling material and its quantity	Mineral is Devoid of Over burden, therefore no backfilling proposal are given.						
4.	Size of void for Rain Water Harvesting after backfilling	Length – 331.0m (Max.) X Width- 139.0m (max.) Total area of Rain Water Storage – 3.1829 Hect.						
5.	Post Closure Liability / Safety aspects and Measures to be taken to avoid wild life and human accidents/ casualties	A protective bared fencing will be laid around the periphery of the pits to check the inadvertent entry of men and animal.						
6.	Display of Caution Boards at strategic locations on the periphery of the pit area	Yes, Display of Caution Boards at strategic locations on the periphery of the pit area and Isolated & safeguard against the inadvertent entry towards the lease area.						
7.	Final Use of reservoir/reclaimed land	Yes, For Public use and recharging ground water table.						

**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.	<b>Contact details of Applicant</b>	
2.	Name	Merkhibhai Jetabhai Vanda
3.	Address	AT. PO. ROGHADA, TALUKA- KUTIYANA <b>DISTRICT- PORBANDAR STATE- GUJARAT(GUJ)</b>
4.	Contact no.	<b>+91 9978715999</b>
5.	Email Id	<a href="mailto:merkhijeta@gmail.com">merkhijeta@gmail.com</a>
6.	<b>Contact details of Consultant</b>	
7.	Name	<b>UDAIPUR MIN-TECH PVT. LTD</b>
8.	Address	<b>206, APEKSHA COMPLEX, SEC.-11HIRAN MAGRI, UDAIPUR-313002 (Raj)</b>
9.	Contact no.	<b>+91-9414167672</b>
10.	Email Id	<a href="mailto:ssbist@udrminitech.com">ssbist@udrminitech.com</a>

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**Deliberation:**

- Shri S. S. Bist presented the details of the project before the Committee on behalf the PP during SEAC meeting dated 08.09.2021 and he has submitted the Authorization letter for same.
- Committee deliberated on method of mining, rate of mining, no. of working hours and no. of workers, EMP, CER budget and its activities, Green belt development etc.
- He informed the Committee that the proposal for mining of limestone involved open cast mechanized mining with drilling and without blasting.
- Distance of the lease from Environmental Sensitivities was also discussed and found as per the prescribed criteria.
- He informed the Committee that the application for the same lease is made twice erroneously vide application no. SIA/GJ/MIN /62474/2021 and SIA/GJ/MIN/62443/2021.
- The meeting for application no. SIA/GJ/MIN /62474/2021 was scheduled in 237th SEAC meeting held on 09.07.2021. In the meeting dated 09.07.2021, the Committee noted that the proposal was under violation and the consultant informed the Committee that 'the PP has not applied to obtain EC / TOR in past, i.e. before 13.04.2018'. Hence, the proposal was recommended to SEIAA for delist and 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.
- During SEAC meeting dated 08.09.2021, the consultant presented the acknowledgement slip of earlier EC application dated 25.12.2015 made in the name of Limestone Mine of Merkhibhai Jethabhai Vanda.
- Simultaneously, the PP has submitted the copy of Court case order dated 10.07.2021 to SEIAA in hard copy as an evidence of credible action taken for violation with receipt of fine of Rs.50,000/- issued by the Registrar, Principal Civil Judge & J.M.F.C. Court, Kutiyana. The copy of the letter submitted to SEIAA is also submitted to SEAC on 09.09.2021. Thereby they have requested SEIAA to delist their old application, i.e. SIA/GJ/MIN /62474/2021 and to consider the credible action taken already taken against the PP by GPCB, Porbandar under section 15, 16 & 19 of the EP Act, 1986 as per the Court order dated 10.07.2021.
- Committee considered the production details in MTPA validated by District Geologist, Porbandar vide letter no. Bhupo/ML/AKD/3268, dated 15.12.2020, which is as mentioned below:

Year	Prod.	Year	Prod.	Year	Prod.	Year	Prod.
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2013-14	30063.63	Apr-17	600	July-18	500	Oct-19	0
2014-15	42715.24	May-17	1150	Aug-18	0	Nov-19	0
2015-16	20457.471	Jun-17	1604.525	Sep-18	800	Dec-19	0
Apr-16	87.550	July-17	154.065	Oct-18	20000	Jan-20	0
May-16	49	Aug-17	1076.25	Nov-18	32000	Feb-20	0
Jun-16	289	Sep-17	1200	Dec-18	1600	Mar-20	0
July-16	471.500	Oct-17	8400	Jan-19	0	Apr-20	0
Aug-16	0	Nov-17	18000	Feb-19	9000	May-20	0
Sep-16	12	Dec-17	19600	Mar-19	12000	Jun-20	0
Oct-16	2700	Jan-18	4372.395	Apr-19	18500	July-20	41000
Nov-16	1850	Feb-18	3400	May-19	19800	Aug-20	37000
Dec-16	4400	Mar-18	7000	Jun-19	11500	Sep-20	1100
Jan-17	500	Apr-18	9900	July-19	0	Oct-20	0
Feb-17	0	May-18	11834.635	Aug-19	0		
Mar-17	600	Jun-18	9400	Sep-19	0		

- Committee noted that the PP has continued production after 31.03.2016 and has applied to obtain EC in past on 25.12.2015, i.e. on 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 25.12.2015. Hence unanimously decided to recommend for **TOR under violation** to EIA Notification 2006 as per **Annexure I** along with TOR for **Non Sand mining without Blasting** as per **Annexure - II**.

### 31. 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/63797/2021	Malsar Ordinary Sand Block- B (Neel)	Narmada Riverbed Paiki Opp.	Malsar	Sinor	Vadodara	03.00 Ha	Lol issued on 19.08.20	Narmada	49,680 MTPA	Ashavillage – 0.56 km	Construction	Rs.55.30 Lakh	13.08.2021 New project

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	Rajubhai Dhangar)	Survey No.406 & 841					20						
		Govt. Land											

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	Neel Rajubhai Dhangar	
2.	Address of the lease	Survey No.: Narmada Riverbed Paiki Opp. Survey No.406 & 841 Village: Malsar Taluka: Shinor District: Vadodara	
3.	Name of lease holder	Neel Rajubhai Dhangar	
4.	Lease area (Ha)	03.00.00 Hectares	
5.	Cluster Details		
	a. Total no. of leases in the cluster	17	
	b. No. of TOR granted in cluster	-	
	c. No. of EC granted in cluster	-	
	d. Total area of the cluster	49.27.00 Ha	
	e. Maximum individual lease area	03.50.00 Ha	
	f. Minimum individual lease area	02.00.00 Ha	
6.	Validity of lease with the date of expiry	5 Years	
7.	Rate of Mining (MT/Annum)	49,680 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?	NA	
11.	Lease area (submerged / in stream / on dry river bed)	03.00.00 Ha	
12.	All coordinates of the lease area as per Approved Mining Plan	Pillar No.	Latitude Longitude
		1	21°53'49.8167"N 73°17'57.6558" E
		2	21°53'46.6312"N 73°18'00.9729" E
		3	21°53'41.6223" N 73°17'55.5043" E
		4	21°53'44.4778" N 73°17'52.1196" E
13.	Manpower requirement	07	
14.	Applicability of CRZ Notification	NA	
15.	Minimum Setback distance proposed to be maintained from River Bed (m)	More than 10 m	
16.	Minimum buffer distance from bridge piers / water intake wells / irrigation structures	NA	
17.	Maximum depth of sand removal (3 m or water depth whichever is less)	1 m	

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18.	Width of Riverbed (m)	NA
19.	Average depth of water at lease area (m)	Ground Water level is 10-12 m and average depth of water is 3 to 4 m during Monsoon Season
20.	Depth of mining (m)	1 m
21.	Ground Water Table in meter BGL	10 to 12 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	1.15 Km
24.	Length of kaccha road (m)	Block to Public Road 1.15 Km
25.	Length of pacca road (m)	Public Road to Pacca Road 4.00 Km
26.	Plan for making pacca road	Making of approach road from mine to near village road. Cost of making approach road:- Average Rs. 1,05,750/- which is included in capital cost of EMP.
27.	Source of fresh water	Water Tanker
28.	Water requirement (kLPD)	3.295 KLD
	a. Domestic	0.175 KLD
	b. Dust suppression	2.600 KLD
	c. Gardening / Green belt development	0.520 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	Attached here in the mail

**B. Environmental Sensitivities:**

Sr NO	Environmental Sensitivities	Actual Distance	Minimum Distance
1.	Residential	Village Asha at 0.56 Km	100 m (When Blasting is not involved)
	Public buildings	Malsar Primary School at 1.48 Km	
	Inhabited sites	None Within 100 m	
2.	A. Major Bridge	None Within 1 Km	1 km
	B. Highway	SH- 160 at 3.94 Km NH- 953 at 20.90 Km	1 km
3.	Bridge (Span of Bridge as X)	None within 500 m	m. 5X in upstream or 250 m. n.10X in downstream or 500 m
4.	Public Structure including water intake wells	None within 250 m	m. 5X in upstream or 250 m. n.10X in downstream or 500 m

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5.	Depth of working	1 m	1 m or water level whichever is early
6.	Set Back Distance to prevent river bank erosion	More than 10 m	10 m or 1/4 <sup>th</sup> of width of river
7.	Mineable Material per Hectare area for actual mining shall not exceed maximum production	16,560 MTPA/Ha	60,000 MTPA Per Hectare
8.	Water supply Scheme/Irrigation structure	None within 200 m	200 m
9.	Railway Line	Malsar Railway Station at 1.74 Km	100 m
10.	Reservoir/Canal	None Within 100 m	100 m
11.	Other Road	None Within 100 m	100 m
12.	Eco-Sensitive Zone (if notified)	Shoolpaneshwar Wildlife Sanctuary at 18.77 Km	(iv) Outside the Eco-Sensitive Zone (if located within Notified Eco-Sensitive Zone, Prior Clearance of NBWL required) (v) >1 km and <10 km of National Park / Wildlife Sanctuary (Prior Clearance of NBWL may not be applicable) (vi) Proposal involving mining of mineral within 1 km from boundary of National Park and Sanctuaries is prohibited
13.	Eco-Sensitive Zone (if not notified)	None Within 10 Km	(iii) Outside the Eco-Sensitive Zone (iv) >1 km and <10 km of National Park / Wildlife Sanctuary (Prior Clearance of NBWL required)
14.	Attraction of General Conditions for change in category from 'B' to 'A'.	NA	0 to 5 km from the boundary of Environmental sensitivities prescribed in the referred Notification
15.	Distance of Coastal line from the site	NA	>500 m from HTL

**C. Details of Mining:**

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1.	Method of Mining (Manual / Semi-mechanized / Mechanized).	Semi Mechanized Opencast Mining
2.	Equipments to be used for Mining bulldozers, hydraulic excavators, JCB, scrapers, loaders, Diesel Pump, etc.)	Excavator/JCB/Loader/Dumper
3.	Whether it includes blasting?	This is Ordinary sand mining project hence, blasting not required.
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	NA
16.	Whether Replenishment Rate Study is approved by District Geologist?  If yes, conclude in brief	NA

**D. Details of Green Belt Development:**

1.	a. Green belt development budget	2,50,000
	b. Green belt area / location	Near the lease area, Approach road, Boundary etc
	c. No. of trees to be planted	250
	d. Types of trees to be planted	Local Species as per MOEF Guidelines. Such as Neem, Asopalav, Pipal, Umaro, Sag, Kher, Nilgiri etc.

**E. Details of Environment Management Plan:**

1.	Details of EMP	Impact	Mitigation Measures
	a. Land Environment	• The lease area is government waste land and mining will lead to change in land use pattern.	• Plantation activities to be done along the kaccha road. • The block area is located on riverbed so, Sand will be refilled every year during monsoon season.
	b. Water Environment	• Waste water generated from mine office	• 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	• Sprinkling of water will be done on roads as well as stockpile

		<p>generated due to excavation, loading and unloading of material, movement of dumpers. It may cause pollution in environment.</p> <ul style="list-style-type: none"> <li>• Impact on health due to fugitive dust emissions.</li> </ul>	<ul style="list-style-type: none"> <li>• Proper maintenance of vehicles to minimize the pollutants.</li> <li>• The trucks will be covered while moving the material.</li> <li>• Development of green belt/plantation nearby road.</li> </ul>
	d. Noise Environment	<ul style="list-style-type: none"> <li>• Movement of trucks</li> <li>• Operation of machineries</li> </ul>	<ul style="list-style-type: none"> <li>• Ear plugs / earmuffs will be provided to workers. The workers will not be allowed to work more than one hour in noise prone area.</li> <li>• Plantation will be carried out along mining lease boundary green belt minimizes propagation of noise.</li> <li>• Proper maintenance of vehicles will be done, Mine operations will be limited to day time i.e. 9AM to 6PM.</li> <li>• Power horns will not be allowed in trucks.</li> </ul>
	e. Biological Environment	<ul style="list-style-type: none"> <li>• As it Black Trap mining project, activities will be confined to core zone only. Thus no direct impact is foreseen on the flora &amp; 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.</li> </ul>	<ul style="list-style-type: none"> <li>• Mining activities will be restricted to day time so that fauna will not disturb at night.</li> <li>• Tar road will be used for transportation to minimize fugitive emissions.</li> <li>• Material will be covered during transportation.</li> <li>• Water sprinkling will be done on haul roads to control fugitive emissions.</li> </ul>
	f. Human Environment	<ul style="list-style-type: none"> <li>• Fugitive dust emission could have potential impact on human health</li> </ul>	<ul style="list-style-type: none"> <li>• Persons working in dusty area to be provided with protective gears such as helmets, dust masks, ear muff etc.;</li> <li>• Regular water sprinkling at dust generating areas, haul roads.</li> <li>• Occupational health checkup of all workers working in mine and pulmonary function test for workers working in dusty areas.</li> </ul>
	g. Others	--	--
<b>2.</b>	Occupational health & safety measures as per DGMS	<ul style="list-style-type: none"> <li>• Workers continuously exposed to higher noise levels will be provided ear muffs/ear plugs.</li> <li>• Regular health checkup of all the workers working in mine.</li> </ul>	
<b>3.</b>	Safety measures proposed		
	a. Is First Aid facility	Yes	

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	provided by PP?	
	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?	NA
	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	4 to 5 Vehicle
2.	Fugitive dust emission control measures	Sprinkling of water twice in a day
3.	Route plan in brief	Block Area – Approach Road – Malsar Village Road – State Highway

**G. Financial details of the Project:**

1.	Total cost of the project (Lakh)	55.30 Lakh
	a. Upfront cost (Lakh)	5.96 Lakh
	b. Performance Security (Lakh)	5.96 Lakh
	c. Total Royalty (Lakh)	19.87 Lakh
	d. Weigh Bridge Cost (Lakh)	2.5 Lakh
	e. Labor cost equipment (Lakh)	7.0 Lakh
	f. Equipment protection and implementation cost (Lakh)	8.0 Lakh
	g. Green Belt Development & maintenance cost (Lakh)	2.5 Lakh
	h. Cost of EMP (Lakh)	• Capital Cost:- Rs. 5,22,350/- • Recurring Cost:- Rs. 3,22,000/-
	i. Cost of Safety measures (Lakh)	• Recurring Cost:- Rs. 42,000/-
	j. Cost of Post-Closure Mine Plan (Lakh)	NA
2.	Budget allocated for CER (Lakh)	1.106 Lakh
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	Reclamation is not required as this is river bed sand mining project.
2.	Post mining closure plan	Water will be backfilled in monsoon season with such quantity of ordinary sand.
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/ casualties	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.	<b>Contact details of Applicant</b>	
2.	Name	Neel Rajubhai Dhangar
3.	Address	532, Dhangar Faliya, At Post: Chapldhara, Di: Navsari, Gujarat-396570
4.	Contact no.	9712794777
5.	Email Id	dhangarneel1226@gmail.com
6.	<b>Contact details of Consultant</b>	
7.	Name	T. R. Associates
8.	Address	A-401, S.G. Business Hub, Between Sola Bhagwat and Gota Overbridge, S.G. Highway, Ahmedabad – 380060.
9.	Contact no.	99798 49548
10.	Email Id	horizonconsultants9@gmail.com

**Deliberation:**

- Shri Mayank Patel presented the details of the project before the Committee on behalf the PP during SEAC meeting dated 08.09.2021 and he has submitted the Authorization letter for same.

- Committee deliberated on method of mining, rate of mining, no. of working hours and no. of workers, EMP, CER budget and its activities, Green belt development etc.
- He informed the Committee that the proposal for mining of ordinary sand involves semi-mechanized open cast mining.
- Distance of the lease from Environmental Sensitivities was also discussed and found as per the prescribed criteria. However, while deliberating on the Satellite images, Committee noted that the lease area is submerged in the riverine water of River Narmada. He presented satellite images for past few years, in which the lease area was seen under submergence.
- Committee noted that river Narmada is a perennial river and the lease area is submerged and it is the case of instream mining.

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 notwithstanding the same being part of the leased area in case it is ‘submerged’ or lies within the submerged area.**”*

In view of the above, the Committee unanimously decided to recommend the proposal to SEIAA for rejection.

### 32. CHINA CLAY MINING, DIST: KUTCH

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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/38337/2019	Manjibhai Bhikhabhai Gohil	Govt. Sr. No. 947 Paiky	Hampirpar Moti	Rapar	Kutch	04.00 Ha	Lease valid till 2030	1,80,880 MTPA	Hampirpar Moti – 3.49 km	Ceramic industry	Rs.172.26 Lakh	17.08.2021 Existing project

The Committee noted that SEAC office is not in receipt of presentation / project details from the Project Proponent side. Moreover, even after a long tracing on Parivesh Portal and all possible efforts made, the PP / Consultant could not be traced or contacted. Hence, the Committee unanimously decided to recommend SEIAA to delist the proposal.

### 33. 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/38335/2019	Kanjibhai Bhikhabhai Gohil	Govt. Sr. No. 947 Paiky	Hampirpar Moti	Rapar	Kutch	04.00 Ha	Lease valid till 2030	197189 MTPA	Hampirpar Moti – 3.40 km	Ceramic industry	Rs.183.68 Lakh	17.08.2021 Existing project

The Committee noted that SEAC office is not in receipt of presentation / project details from the Project Proponent side. Moreover, even after a long tracing on Parivesh Portal and all possible efforts made, the PP / Consultant could not be traced or contacted. Hence, the Committee unanimously decided to recommend SEIAA to delist the proposal.

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).

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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.

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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

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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.

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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

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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 2<sup>nd</sup> 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 2<sup>nd</sup> 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 offHon'ble Supreme Court dated 2<sup>nd</sup> 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 :*

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

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

<b>Attributes</b>	<b>Cost Estimation</b>	<b>Rs. Per day</b>
<b>AP</b>	<ul style="list-style-type: none"> <li>• Water requirement per day for sprinkling of water to curb fugitive emission =</li> </ul>	

	<ul style="list-style-type: none"> <li>Cost of 1 KL water for sprinkling =</li> </ul>	
	Total cost of AP per day	
<b>WP</b>	<ul style="list-style-type: none"> <li>Major water pollution envisioned <ol style="list-style-type: none"> <li>Explore possibility of ground water table intersection.</li> <li>Run off water outside the lease and estimate damage caused considering period of violation in RS.Per day</li> </ol> </li> </ul>	
<b>SHW</b>	<p><b>When there is an overburden</b></p> <ol style="list-style-type: none"> <li>For 1 Ha Lease area equivalent to 10,000 M2 ( 1 Ha land area)* overburden bed height* Sp Gr of mineral = Tonnage of OB</li> <li>Over burden Tonnage per day: Tonnage of OB/No of working days in a year = MTPD.</li> <li>Over Burden * Rs ABC Per Ton handling charge= Rs Per Day assuming fresh-first year mining</li> </ol>	
	<p><b>When there is no Overburden, only mining waste handling charges are to be considered.</b></p> <ol style="list-style-type: none"> <li>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</li> </ol>	
<b>TP</b>	<ul style="list-style-type: none"> <li>Nos. of covered truck plying from the mine lease to main road carrying minerals per day.</li> <li>Water sprinkling required (KLPD)to curb fugitive emission due to vehicle movement</li> <li>Cost of Water sprinkling in Rs. Per day:</li> </ul>	
	<ul style="list-style-type: none"> <li>Compensatory tree plantation to encounter vehicular emission in Nos of tree for five year.</li> <li>Cost of Tree plantation in Rs per Day.</li> </ul>	
<b>NV</b>	<ul style="list-style-type: none"> <li>Existence of properties/env. entities within 500 meter of blasting site and if damaged due to blasting.</li> <li>Nos of such properties/env. Entities.</li> <li>Built up area of each property/env. Entities</li> <li>Cost of reconstruction of properties ( total) considering current construction cost say Rs 20,000 per Sq. Meter.</li> </ul>	
<b>GB</b>	<ul style="list-style-type: none"> <li>Green Belt developed in 10% of leased area :Graan belt area in M2.</li> </ul>	

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	<ul style="list-style-type: none"> <li>Presume 1 plant per 4 m<sup>2</sup> is to be planted.</li> <li>Cost of single plant: RS ABC for 5 years.</li> <li>Lease Area *10% GB = M<sup>2</sup> of Green Belt.</li> <li>M<sup>2</sup> of green belt/4 M<sup>2</sup> :Nos of trees/plants.</li> <li>Cost of Green belt= Rs per tree * NOs of trees / 5 * 300=</li> </ul>	
<b>HG</b>	<ul style="list-style-type: none"> <li>No major HG issues envisioned, considering ground water is not intercepted</li> </ul>	
	<ul style="list-style-type: none"> <li>If intersection of ground water is made, cost of one time remediation plan after estimating extent of contamination of ground water</li> </ul>	
<b>RH/OHS</b>	<ul style="list-style-type: none"> <li>For 1 Ha mine lease = Nos of worker required.</li> <li>Annual cost of health check for the workers</li> <li>Cost of health check per day:</li> </ul>	
	<ul style="list-style-type: none"> <li>Cost of PPE per worker= Rs ABC</li> <li>Total cost of PPE = Nos of workers * Rs. ABC</li> </ul>	
	<ul style="list-style-type: none"> <li>Total cost of PPE = health check up + PPE = RS XYZ</li> <li>Cost of OHS per day =XYZ/300 ( days) =</li> </ul>	
<b>SC</b>	Cost of preservation, Handling and reuse of Top soil : Rs Per day	
<b>CSR/SE</b>	2% of the project cost per annum (Project cost) * 0.02 / 300 (Days) =	
<b>Total</b>		<b>Rs PQR</b>

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 proposals involving 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 and 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 and 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*

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*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 proposals involving Ordinary Sand Mining)**

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 – IV

### (Terms of reference for proposals involving 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. Project proponent shall comply all the rules/ Conditions mentioned in OM of MOEF&CC dated 01.05.2018 and 30.09.2020 regarding "Corporate Environment Responsibility (CER) and "The Companies (Corporate Social Responsibility Policy) Rules, 2014 and its amendments from time to time vide notification of Ministry of Corporate affairs dated 27th February, 2014 and) in a letter and spirit.
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

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		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 and issue of explosives.
4	Rule 156 (3)	Explosives shall be issued only to competent persons upon written requisition signed by the blaster or by an 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 and 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:

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- 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).*