

**Minutes of the 242<sup>nd</sup> meeting of the State Level Expert Appraisal Committee held on 16.07.2021 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 242<sup>nd</sup> meeting of the State Level Expert Appraisal Committee (SEAC) was held online by Video Conferencing on NIC was organized on 16.07.2021 at 01.30 pm.

Following members attended the meeting.

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

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

**1. LIMESTONE MINING, DIST: PORBANDAR – B1 Appraisal**

Application No	Name of Project	S. No.	Village	Taluka	Dist	Lease Area	Validity of lease	ROM	Nearest Human Habitation	End Use	Investment in Rs	Date of Application Received by SEAC
SIA/GJ/MIN/59718/2017	Boricha (Zinzerka) Limestone Mining Project,	22/P	Boricha (Zinzerka)	Porbandar	Porbandar	11.77 Ha (after leaving 1 km from	Extendable upto 31.03.2030	2,56,100 MT PA	Boricha – 3 km	Construction	Rs.2,56,67,004/-	07.07.2021

	M/s. Tata Chemicals Limited					barda Wildlife Sanctuary)						
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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 Environmental Clearance (EC) for mining of Laterite.

A. Basic Information of the Project:		
1.	Name of Project as per Form I	Boricha (Zinzerka ) Limestone Mining Project
2.	Address of the lease	Survey No.: 22/P Village: Boricha (Zinzerka) Taluka: Porbandar District: Porbandar
3.	Name of lease holder	M/s TATA CHEMICALS LIMITED
4.	Lease area (Ha)	11.77 ha
5.	Cluster Details	
	a. Total no. of leases in the cluster	NA
	b. No. of TOR granted in cluster	NA
	c. No. of EC granted in cluster	NA
	d. Total area of the cluster	NA
	e. Maximum individual lease area	NA
	f. Minimum individual lease area	NA
6.	Validity of lease with the date of expiry	The mining lease for Limestone over 14.27 hectares was granted in name of M/s TATA Chemicals Limited vide order no MCR/1569(T-12)424 CHH issued by Government of Gujarat, Industries, Mines & Power Department, Gandhinagar on 20.01.1971. It was executed for a period of 20 years with effect from 19.06.1971 to 18.06.1991. First renewal was applied on by TCL in form J on 13.06.1990 for 10 years and second on 17.06.2000 for 20 years, i.e up to 18.06.2021. Due to amendment in Section 8A(5) of the MMDR Amendment Act 2015, lease period of captive leases are deemed to be extended for fifty years from the initial grant or up to 2030 vide letter no.MCR-1569-(T-12)-424-CHH dated 30.01.2018, issued by Industries and Mines Department, Government of Gujarat.
7.	Rate of Mining (MT/Annum)	2,56,100 TPA
8.	Details of EC obtained (for expansion projects), if any	Not Applicable
9.	Name of River Bed	Bileshwari River (at 0.10 km distance from the project site)
10.	Is the river perennial / non-perennial?	Non-perennial river
11.	Lease area (submerged / in	0 ha

	stream / on dry river bed)		
12.	All coordinates of the lease area as per Approved Mining Plan	<b>Pillar No.</b>	<b>Latitude (N)</b>
		Pillar No. a	21° 45' 29.510" N
		Pillar No. b	21° 45' 36.470" N
		Pillar No. c	21° 45' 38.830" N
		Pillar No. d	21° 45' 36.490" N
		Pillar No. e	21° 45' 35.912" N
		Pillar No. f	21° 45' 31.705" N
		Pillar No. g	21° 45' 30.800" N
		Pillar No. h	21° 45' 28.480" N
		Pillar No. i	21° 45' 27.891" N
		Pillar No. j	21° 45' 29.070" N
		Pillar No. k	21° 45' 29.070" N
		Pillar No. l	21° 45' 29.824" N
		<b>Longitude (E)</b>	
		69° 40' 25.800" E	
		69° 40' 24.260" E	
		69° 40' 37.360" E	
		69° 40' 37.350" E	
		69° 40' 40.990" E	
		69° 40' 40.967" E	
		69° 40' 36.910" E	
		69° 40' 37.560" E	
		69° 40' 31.536" E	
		69° 40' 30.670" E	
		69° 40' 29.970" E	
		69° 40' 29.670" E	
13.	Manpower requirement	47	
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	Khambhada Reservoir: 8.2 km	
17.	Maximum depth of sand removal (3 m or water depth whichever is less)	Not Applicable	
18.	Width of Riverbed (m)	Not Applicable	
19.	Average depth of water at lease area (m)	The water table is about 25 m.	
20.	Depth of mining (m)	The working is proposed up to 37mRL	
21.	Ground Water Table in meter BGL	27-35 BGL	
22.	Does ground water interfere approach road exit? (Yes / No)	No	

	If yes, status report of CGWA	
23.	Distance between lease and main road	2.90 km
24.	Length of kaccha road (m)	0.55 km
25.	Length of pacca road (m)	Tar road has a width of 5m
26.	Plan for making pacca road	None
27.	Source of fresh water	Ground water extraction (18 KLD) and 6 KLD Water will be purchased through tankers from the nearby village.
28.	Water requirement (KLPD)	24 KLD
	a. Domestic	0.3
	b. Dust suppression	13.7
	c. Gardening / Green belt development	10
	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	None within 200 mtr	200 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
	Public buildings	None within 200 mtr		
	Inhabited sites	Boricha Village is about 3.0 km		
	Protected monuments,	Jambuvati Caves within 6.5 km		
	Heritage sites	None within 200 mtr		
	National / State Highway	NH 8E is about 12.5 km SH 95 is about 2.9 km		
	District roads	None		
	Public roads	0.28 km		
	Railway line/ area	8.36 km		

	Ropeway or Ropeway trestle or station	None within 200 mtr		
	Bridges	13.58		
	Dams	Khambhada Reservoir is about 8.2 km		
	Reservoirs	Khambhada Reservoir is about 8.2 km		
	River	Bileshwari River is about 10 km		
	Canal	None		
	Lakes	Krishnapur Lake is about 5.7 km		
	Tanks	None		
2.	Eco-Sensitive Zone (if notified)	Barda Eco-sensitive zone is about 0.560 km	>1 km / outside the notified Eco-Sensitive Zone	Vide directives of MOEF&CC dtd 16.07.2020
3.	Eco-Sensitive Zone (if not notified)	None	>1 km and <10 km = Prior Clearance from NBWL is required	Vide directives of MOEF&CC dtd 16.07.2020
4.	Distance of Coastal line from the site	None	>500 M from HTL	Amended CRZ Notification 2011

**C. Details of Mining:**

1.	Method of Mining (Manual / Semi-mechanized / Mechanized).	Open cast manual method
2.	Equipments to be used for Mining bulldozers, hydraulic excavators, JCB, scrapers, loaders, Diesel Pump, etc.)	Rock Breakers with Excavators, Backhoe, Dumpers/HEMM as per approved mine plan.
3.	Whether it includes blasting?	Blasting will be done occasionally in case of encounter of hard strata to provide the shattering effect.
4.	Details of Authorized Blasting Agency with date of validity certificate	--
5.	Procedure / SOP (in brief)	Drilling and Blasting: Occasional adoption of drilling and blasting for the shattering effect to hard strata will be practiced. Bench slope will be 80° from the horizontal. Width of the benches will not be less than the height. The drilling will be done with the help of 100 mm diameter drill machine. The

		<p>blasting will be done mainly with ANFO as the column charge and Slurry explosive as the base charge.</p> <p>Blast holes will be drilled in square/rectangular pattern 3m*4m (burden*spacing) for a 3.0-6.0 m bench height. Blasting will be done mainly with ANFO (manufactured at the site by BMD owned by TCL) as column charge and cap sensitive explosive as the base charge. TCL has already obtained necessary permissions for storage and usage of explosives.</p>
6.	Details of Blasting Parameters in brief	<p>Blast holes will be drilled in square/rectangular pattern 3m*4m (burden*spacing) for a 3.0-6.0 m bench height.</p>
7.	Frequency of blasting	<p>Occasional adoption of drilling and blasting for the shattering effect to hard strata will be practiced</p>
8.	Impact of blasting	<p>Blasting is suggested in Boricha (Zinzerka) Limestone Mine but occasionally. Blasting will be done mainly with ANFO as the column charge and slurry explosive as the base charge.</p> <p>Measures that will be followed for abatement of ground vibration, air blast and fly rocks are detailed below –</p> <ol style="list-style-type: none"> <li>a) Controlled Blasting with Shocktube technology will be performed strictly as per the guidelines specified under MMR, 1961;</li> <li>b) Proper design of blast with correct spacing, burden and optimum charge/delay will be performed;</li> <li>c) Supervision of drilling and blasting operations to ensure blast design geometry as per planning will be ensured;</li> <li>d) Sub-drilling will be kept adequate to eliminate toe formation.</li> <li>e) Blasting operations will be carried out only during day time as per DGMS guidelines;</li> <li>f) Proper warning signals will be used;</li> </ol>
9.	Outcome of Vibration study	<p>In connection with the ground vibration, TCL approached IBM Nagpur for carrying out the study and measure its impact in the year 2009. IBM Nagpur team conducted 9 test blasts and concluded that the present blasting practice may be continued as there is no damage to Jambuvati Cave</p>

		(ASI Protected monument) which is present at 6.05 Km from the mine site, by the charge weight of 30 Kg per delay. Occasional adoption of drilling and blasting is practiced to give shattering effect to hard strata. In the above context of the above said, it is very clear that the impact due to noise level and ground vibrations is insignificant.
10.	Blasting Activity Management Plan	--
11.	Use of any Chemical with quantity	Blasting will be done mainly with ANFO as the column charge and slurry explosive as the base charge
12.	Precautions taken for Human Safety in brief	Adequate precaution will be taken to ensure human safety.
13.	Crusher provided? If Yes, Measures taken for Air Pollution Control	No
14.	Compliance of DGMS Guidelines for Blasting	Will be complied.
15.	Compliance of Sustainable Sand Mine Guidelines published by MoEFCC in 2016	--
16.	Whether Replenishment Rate Study is approved by District Geologist? If yes, conclude in brief	Not Applicable

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

1.	a. Greenbelt development budget	Around 2950 saplings is proposed to plant @ cost of Rs 100/saplings, which calculates a total of Rs 2,95,000/-.  Therefore, a total of Rs. 2,95,000/- capital cost will be spend in next 5 years for greenbelt development, along with Rs50,000/- as recurring cost.			
	b. Green belt area / location	Green belt development will be done mine lease area of 1.177 Ha			
	c. No. of trees to be planted	Taking 1 plant per 4 m <sup>2</sup> of land, approx 2950 saplings will be planted in 0.177 ha area. As survival rate is 80-85%, 984 saplings will be planted per year in suitable land in consultation with Gram Panchayat.			
	d. Types of trees to be planted	<b>Sl. No</b>	<b>Name</b>	<b>Scientific Name</b>	<b>Number</b>
		1	Neem	<i>Azadirachta indica</i>	400
	2	Nimbu	<i>Citrus aurantium</i>	500	
	3	Mango	<i>Mangifera indica</i>	600	
	4	Shisham	<i>Dalbergia sisoo</i>	200	
	5	Amla	<i>Phyllanthus emblica</i>	200	

		6	Peepal	<i>Ficus religiosa</i>	150
		7	Amrud	<i>Psidium guajava</i>	200
		8	Jamun	<i>Syzygium cumini</i>	200
		9	Imli	<i>Tamarindus indica</i>	200
		10	Ber	<i>Zizyphus xylopyra</i>	100
		11	Ashok	<i>Polyalthia longifolia</i>	50
		12	Bodori	<i>Zizyphus mauritiana</i>	50
		13	Heena	<i>Lawsonia inermis</i>	50
		14	Sissu	<i>Dalbergia sisoo</i>	50
		<b>Total</b>			<b>2950</b>

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

1.	Details of EMP	Impact	Mitigation Measures
	a. Land Environment	Land use Pattern of the core zone of mining area will be changed due to proposed mining activity. Original topography of the core zone will be changed. The impact of mining on land environment is due to excavation of pits.	At the conceptual stage of the proposed mine the excavated area will be re-grassed for growth of fodder, flora, fauna etc.
	b. Water Environment	The water table of the area will not be tapped by working of mine so there is no problem of lowering of water table of the region. There is no permanent surface water body. There is nothing like any pond, lakes and Dam etc in the nearby area. The waste water generation in the mining process is not envisaged. The deposit does not contain any harmful contents; hence it is not going to affect the quality of water in surrounding area. As there is no beneficiation involved with the use of water, discharge effluents does not happen.	Mining will not intersect the ground water table of the area. Waste water generated from labor domestic use will be treated in septic tank followed by soaking pit. Regular monitoring of surface water and ground water will be done to ensure there is no adverse impact due to limestone mining project. No washing of equipment will be done inside the mining lease areas. Garland drains will be provided to prevent the entry of rainwater into the mining pit.
	c. Air Environment	Mining is proposed to be carried out by opencast manual method. The air borne	➤ Particulate matter emission from haul road will be reduced by water sprinkling.

		<p>particulate matter (PM<sub>10</sub>) generated by mining operations, loading, unloading and transportation of mineral is the main respirable air pollutant.</p>	<ul style="list-style-type: none"> <li>➤ Vehicle used for excavation and haulage will be of latest Indian norms.</li> <li>➤ High speed diesel will be used for mining equipment operation</li> <li>➤ Green belt will be developed.</li> <li>➤ Personal protecting equipment (PPE) like dust mask, ear plugs etc will be used by mine workers.</li> <li>➤ Ambient air quality monitoring will be carried out periodically to know the implementation of environmental management plan.</li> </ul>
	d. Noise Environment	<p>Noise generated at the mine site will be due to mining operations and transportation. Noise generated due to mining activities will dissipates within the mine. There is no major impact of mining activity on the nearby villages. Impact of noise on the villages is negligible as the villages are far located from the mine workings. Occasional blasting is proposed with adequate precautions.</p>	<ul style="list-style-type: none"> <li>➤ Proper maintenance, oiling and greasing of machines at regular intervals to reduce the noise level up to an extent.</li> <li>➤ Adequate silencers and enclosures will be provided in all the diesel engines.</li> <li>➤ Plantation along both the sides of approach road, around mine office building and mine area to minimize the propagation of noise.</li> <li>➤ Personal Protective Equipment (PPE) like earmuffs/earplugs will be provided to all operators and employees working near mining machineries or at higher noise zone.</li> <li>➤ Periodical noise level monitoring will be done.</li> </ul>
	e. Biological Environment	<p>Impacts on key habitat elements will occur on a local scale, but on a regional scale they would not be critical for the life cycle needs of the species observed or expected. Wild life is not commonly found in the plains because of lack of vegetal cover and surface water except domestic animals.</p>	<ul style="list-style-type: none"> <li>➤ Regular water sprinkling on haul road will be done to reduce the emission of suspended particulate matter which causes the blockage of the stomata of plants and interrupting the photosynthesis process.</li> <li>➤ Thick green belt development will be done in 33% area of mine lease.</li> <li>➤ Green belt development reduces noise level, reduces gaseous pollution</li> </ul>

			<p>and particulate matter pollution.</p> <ul style="list-style-type: none"> <li>➤ Pollution tolerant plant with consultation to state forest department has been proposed for plantation.</li> </ul>
	f. Human Environment	<p>The impact of mining activity in the area is positive on the socio-economic environment of the region. The proposed project will be providing employment to the local population and preference will always be given to local people whenever there is a requirement of man power for mining related work. There is no displacement of people due to mining operations.</p>	<p>The proposed mining project is expected to provide direct and indirect employment opportunities to the local people of different skills and trades. It is a positive impact that needs to be encouraged. It has been estimated that about 47workers of various categories will be employed directly to the mining project.</p>
	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 the proposed limestone Mining Project are mainly dust and land degradation. Safety of employees during operation and maintenance etc. shall be as per Mines rules and regulations. To avoid any adverse effect on the health of workers due to various pollutants, sufficient measures relating to safety and health will also be practiced:</p> <ul style="list-style-type: none"> <li>➤ Provision of rest shelters for mines 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>➤ Training of employees for use of safety appliances and first aid in vocational training centre.</li> <li>➤ Regular maintenance and testing of all equipment as per manufacturers' guidelines.</li> <li>➤ Periodical Medical Examination (PME) of all workers by a medical Officer.</li> <li>➤ First Aid facility is provided at the mines 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 mines as per approved mining plan and environmental plans</li> </ul>	
3.	Safety measures proposed	<ul style="list-style-type: none"> <li>➤ The opencast mines have been planned for working with excavator tipper system which requires proper benching not only for slope stability but also for movement of tippers and other heavy machinery.</li> <li>➤ All mining operations both within the quarry and outside will be conducted as per the conditions lay down by DGMS and under the strict supervision of competent persons appointed under Metalliferous Mines Regulations, 1961.</li> <li>➤ All transportation within the main working area would be</li> </ul>	



		<p>road will be reduced by water sprinkling.</p> <ul style="list-style-type: none"> <li>➤ Vehicle used for excavation and haulage will be of latest Indian norms.</li> <li>➤ High speed diesel will be used for mining equipment operation</li> <li>➤ Green belt will be developed.</li> <li>➤ Personal protecting equipment (PPE) like dust mask, ear plugs etc will be used by mine workers.</li> <li>➤ Ambient air quality monitoring will be carried out periodically to know the implementation of environmental management plan.</li> </ul>
3.	Route plan in brief	The under sized material generated after manual sizing or mechanized sizing will be temporarily stored in the registered plot or near to the crushing unit and will be sent TCLs Soda Ash and Cement plant at Mithapur.

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

1.	Total cost of the project (Lakh)	2.56 Crores			
	a. Upfront cost (Lakh)	-----			
	b. Performance Security (Lakh)	-----			
	c. Total Royalty (Lakh)	2,04,88,000			
	d. Weigh Bridge Cost (Lakh)	3,00,000			
	e. Labor cost equipment (Lakh)	36,00,000			
	f. Equipment protection and implementation cost (Lakh)	2,00,000			
	g. Green Belt Development & maintenance cost (Lakh)	2,00,000			
	h. Cost of EMP (Lakh)	9,50,000			
	i. Cost of Safety measures (Lakh)	2,00,000			
	j. Cost of Post-Closure Mine Plan (Lakh)	2,00,000			
2.	Budget allocated for CER (Lakh)	4,54,000			
3.	Is need based survey for CER carried out? (Yes / No)	Sr. No	Activity	Year wise implementation and budgetary provision during	Total budgetary provision (Rs.)

	If yes, give details of activities along with Budgetary Outlay	operation phase		
		1 <sup>st</sup> Year	2 <sup>nd</sup> Year	
1	Environmental awareness programme	40,000	40,000	80,000
2	Environmental conservation display to improve water conservation	22,000	22,000	44,000
3	Installation of Central R.O. System in nearby villages	50,000	25,000	75,000
4	Construction of separate toilets for boys and girls in village schools and installation of sanitary napkin vending machine in schools.	80,000	25,000	1,05,000
5	Setting up technical skill training centers for youth	1,00,000	50,000	1,50,000
<b>Grand Total</b>		<b>4,54,000 Rs</b>		

#### H. Restoration / Reclamation Plan:

1.	Restoration / Reclamation Details	At the end of the mining lease period, as per MoEF&CC Office Memorandum F.No. 22-34/2018-IA-III dated 16 <sup>th</sup> January, 2020, <b><i>"the mining lease holder shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc"</i></b> Therefore, At the conceptual stage of the proposed mine the excavated area will be re-grassed for growth of fodder, flora, fauna etc.
2.	Post mining closure plan	At the conceptual stage of the proposed mine the excavated area will be re-grassed for growth of fodder, flora, fauna etc.
3.	Backfilling material and its quantity	No backfilling is proposed.
4.	Size of void for Rain Water Harvesting after backfilling	Rainwater harvesting is proposed at the conceptual stage of the proposed mine. The excavated area will be re-grassed for growth of fodder, flora, fauna etc.
5.	Post Closure Liability / Safety aspects and Measures to be taken to avoid wild life and human accidents/ causalities	As proposed excavated area will be re-grassed for growth of fodder, flora, fauna etc. in the area, no such causalities/ accidents is anticipated. Still, precautions

		like proper fencing would be taken for safety.
6.	Display of Caution Boards at strategic locations on the periphery of the pit area	Caution boards at strategic locations on the periphery of the pit area will be provided.
7.	Final Use of reservoir/ reclaimed land	At the conceptual stage of the proposed mine the excavated area will be re-grassed for growth of fodder, flora, fauna etc.

**I. Details of Legal Action / Court Case:**

1.	Details of Pending Court matter / Public Litigation Cases in any court of Law	None
2.	Details of Action taken by GPCB, if any	None
3.	Details of public complaint , if any	None
4.	Compliance of EC by RO-GPCB or MoEFCC-Bhopal	Certified compliance report will be regularly practiced after getting environment clearance.

**J. Contact Details:**

1.	<b>Contact details of Applicant</b>	
2.	Name	M/s TATA CHEMICALS LIMITED
3.	Address	M/s TATA Chemicals Limited, 12th Floor, GIFT One Tower, GIFT City, Gandhinagar-382355Gujarat.
4.	Contact no.	Mobile No: 9227194002 Landline No: (02801) 236320
5.	Email Id	cdwivedi@tatachemicals.com
6.	<b>Contact details of Consultant</b>	
7.	Name	Insitu Enviro Care., Bhopal
8.	Address	E-7/829. Shahpura Arera Colony, Bhopal(M.P) 462016
9.	Contact no.	9990416608
10.	Email Id	contact@gcrindia.com

**Deliberation:**

- ✓ Shri Ashishbhai from M/s. Insitu Enviro Care., Bhopal remained present in the meeting and they have submitted the Authorization letter of PP for same.
  - ✓ Shri Ashishbhai informed the Committee that the PP has obtained TOR Violation vide SEIAA letter no. SEIAA/GUJ/TOR/1(a)/75/2019, dated 10.01.2019.
  - ✓ Baseline study is carried out for the period of December 2018 to February, 2019.
  - ✓ Public hearing was held on 02.12.2020.
- Committee deliberated on the distance of the lease boundary from the Barda Wildlife Sanctuary, i.e. 290 m. Shri Ashishbhai informed the Committee that the distance of the lease from Barda Eco-Sensitive Zone is 560 m. He further added that the mining is not permitted within 1 km radius of the Wildlife Sanctuary.

- Shri Ashishbhai explained that the total area of Boricha (Zinzarika) Limestone Mining Project is 14.27 Ha, located at the western side of Barda Wildlife Sanctuary (Notified). However, the mining activity is proposed in 11.77 Ha and remaining 2.50 Ha is treated as a safety zone between lease area and the Barda Wildlife Sanctuary in compliance to having 1 km buffer zone of no mining activity from the Boundary of National Park / Sanctuaries as per the order of Hon'ble Supreme Court dated 04.08.2006 in the matter of I.A. No. 1598-1600 in W.P. (C) No.202/1995. Shri Ashishbhai also briefed the Order of Hon'ble High Court of Gujarat in the matter of W.P. (PIL) No. 114/2012, dated 25.04.2013.
- PP has submitted Notarized Undertaking for maintaining 1 km buffer zone as stated above and has mentioned that the area of 2.50 Ha will be developed as a thick greenbelt patch. It is also mentioned in the Undertaking that *'after leaving the area of 2.50 ha on eastern side, the distance between working mine lease and nearest pillar of Barda Wildlife Sanctuary will be 560 m'*.
- PP has also submitted the approved map from the Department of Forests, Porbandar for same.
- In the Undertaking PP has mentioned the distance between the lease area and CRZ boundary (located at south) is 13.009 km, the same from the HTL is 13.094 km and from the LTL is 15.532 km. PP has also submitted the superimposed map approved by GCZMA for same.
- During the presentation, Committee noted that the lease is existing. PP has submitted the production details validated by the District Geologist, Porbandar vide letter no. BHUPO/ML/AKD/2126, dated 15.07.2021, which states that the PP has not carried out the production after 2016.
- Shri Ashishbhai informed the Committee that the proposal for mining of Limestone involves Blasting and the approval of the Blasting Agency / Authority is already obtained.
- Committee deliberated on compliance of various TOR conditions. While deliberating on the CER activities to be carried out, Committee asked PP to carry out activities in beneficiation to Environment conservation, i.e. Installation of RO for drinking water, Rain water harvesting etc.

Considering the above facts and merits of the proposal appraised on **16.07.2021**, SEAC hereby recommends the project to SEIAA, Gujarat for grant of Environmental Clearance subject to the compliance of following specific conditions as well as the standard conditions approved by SEIAA on 16/09/2017 for the mining proposals falling under the project activity no 1(a) with blasting as per the schedule of the EIA Notification 2006 as below:

1. PP shall ensure that Blasting will be carried out by the Approved Blaster only.
2. PP shall ensure that appropriate medical treatment / facilities will be made available to workers especially in case of exposure to free silica which involves higher risk of Silicosis.
3. Validity of the EC shall be coterminous with validity of lease or 30 years whichever is early.
4. PP shall maintain a buffer distance of 1 km from the from the Boundary of national Park / Sanctuaries as per the order of Hon'ble Supreme Court dated 04.08.2006 in the matter of I.A. No. 1598-1600 in W.P. (C) No.202/1995 and Order of Hon'ble High Court of Gujarat in the matter of W.P. (PIL) No. 114/2012, dated 25.04.2013.
5. Mining shall be strictly in accordance to the approved mine plan.
6. Action plan for the public hearing issues shall be complied with in letter and spirit.
7. Project proponent shall comply all the measures, conditions suggested in the approved mining plan with post closure mine plan, Environmental Management Plan (EMP) and EIA in a letter and spirit.
8. 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.
9. The regulations for danger zone (500 m) prescribed by Directorate General of Mines Safety also have to be complied compulsorily and necessary measures should be taken to minimize the impact on environment.
10. A brick/stone parapet wall of 3.5 feet surrounding to the excavated mine pit shall be constructed to prevent casualty.
11. The District Administration should assess the site for Environmental impact at the end of first year to permit the continuation of the operation.
12. The mining activity shall be monitored by the Taluka level Force once in a month by conducting physical verification.
13. After closure of the mining, the licensee shall immediately remove all the sheds put up in the quarry and all the equipments used for operation of sand quarry.
14. The project proponent shall obtain registration of the establishment under the Building and other Construction Workers' (regulation of Employment & Conditions of Service) Act, 1996 and shall comply with the provisions of the Act for the Safety, Health and Welfare of Mining Workers.
15. The project proponent shall obtain registration of the Mining Workers as Beneficiaries with the Gujarat Building and other Construction Workers Welfare Boards.
16. PP shall implement all safety measures including protection of lighting in mine as per the guidance manual of DGMS vide circular No: DGMS (Tech) Circular No: 10 of 2020 dtd. 23 June 2020.
17. Transportation route for vehicles carrying mineral shall have lease minimum pass near human habitation.
18. Ground water extraction shall be made as per permission obtained from the competent authority, i.e. CGWA.
19. PP shall construct a pacca approach road connecting lease area to the main road with periodic regular maintenance to prevent fugitive dust emission.
20. Pillars mentioning boundary of the lease area shall be provided as per the provision of mining rules/Acts to identify the lease area.

21. Dust mitigation measures due to mining, handling of mineral, loading, unloading, transportation and other allied activities shall be implemented in letter and spirit similar to the applicable measures guided in Notification issued by MOEF&CC dated 25/01/2018 vide GSR 94(E).
22. Vide OM of MOEF&CC dated 16/01/2020, PP shall after ceasing mining operations, undertake re-grassing the mining area and any other area which have been disturbed due to their mining activities and restore the land to a condition which is for the growth of fodder, flora and fauna.
23. Commissioning & Implementation of the proposed project shall strictly abide by the final opinion / clarification /order issued in this regard by Central Pollution Control Board /Ministry of Environment, Forest & Climate Change / Hon'ble National Green Tribunal / any other competent authority.
24. The project proponent shall be required to submit a Bank Guarantee of an amount of **Rs.28,91,950/- [Rupees Twenty Eight Lakh Ninty One Thousand Nine Hundred Fifty only]** towards Damage & Remediation Plan and Natural & Community Resource Augmentation plan with Gujarat Pollution Control Board prior to grant of Environmental Clearance.

- **Damage Assessment due to Boricha (Zinzerka) Limestone Mining project and Remediation Plan with cost estimates during operation:**

Attributes	Scope of Environmental benefits earned	Calculation basis	Total Cost (INR)
<b>AP</b>	Water requirement per day of sprinkling of water to curb fugitive emission in KL (0.1 liters per sq m)(Cost of 1 kl of water in Rupees)	550 m (Katcha Road) * 8 m (width) = 4400 Square m Water Quantity (L) = 4400 * 0.1 =440 Litre/day In 1 year = 440 * 300 (working days) = 1, 32,000litres. For two years = 1,32,000 * 2 = 2,64,000 Litres Today cost of 1 tanker (capacity 7000-7500) Litre = 900 Rs Total tanker required = 2,64,000/7500 = 35.2 or say 36 tankers Total cost = 900 * 36 = 32,400 INR	32,400/-
<b>WP</b>	Major water pollution envisioned: 1. Ground water table interaction if any 2.Run off water outside the lease and estimated damage caused considering period of violation in Rs. Per day	No ground water intersected	
<b>SHW</b>	When there is overburden, quantity of overburden in MT * 10 per MT O.B handling charges * 2(lifting and shifting frequency) When there is no	There was no overburden and mining waste at the lease area, as the chemical grade limestone was consumed by TATA Chemicals Limited and subgrade limestone was consumed by TATA Cement	

	overburden, only mining waste handling charges are to be considered. Mine waste in MT *10 Rs Per Mt of mineral waste handling *2 (lifting and shifting frequency)		
<b>NV</b>	Existence of house or properties/env. Entities with in 500 meter of blasting site and if damaged during blasting Nos of such properties /envt. Entities Built up area of each property/envt. Entities Cost of reconstruction of properties (total) considering current construction cost per square meter.	No blasting was carried out during 1996 and 1997, Hence not applicable.	
<b>GB</b>	Green belt development in 10 percent of the leased area Green belt development in M2 Presume 1 plant per 4 M2 to be planted Cost of single plant Total cost of green belt	Total Lease area – 11.77 Ha 10 % of lease area = 1.177 Ha 1.177 Ha = 11770 Meter Square Plantation @ 4 Sq Meter = 11770/4 = 2942.5 or say 2943 Plants Cost of single plant = 100 Rupees (mine plan page no 65) Total cost = 2943 * 100 =294300 INR	2,94,300/-
<b>HG</b>	No major HG issues envisioned, considering no ground water interception If intersection of ground water is made, cost of one time remediation plan after estimating the extent of contamination of ground water	No ground water intersection to take place	
<b>RH/OHS</b>	Health expenditure Nos of workers * Rs 1000 PPE expenditure No of workers * Rs 300 Total expenditure for health and safety for workers * Nos of year	No of workers = 47 (Yearly) Health Expenditure = 47 * 1000 = 47,000 PPE Expanse = 47 * 300 =14,100 Total Expanse for 1 year = 47,000 + 14,100 = 61,100/- Violation years = 2 years (1996-1997 and 1997-1998) = 61100 *2 = 1,22,200/-	1,22,200/-
<b>CER</b>	10 % of the mineral value	Mineral value calculation (In violation) 1996 – 1997 = 74.944 thousand MT	16,96,750/-

		1997-1998 = 2.181 thousand MT Total = 77.125 thousand MT or 77125 Tonnes Mineral value (Cost @ 220 per ton) = 77125 *220 = 16967500/- INR CER (10% of the mineral value) = (16967500 *10)/100 = Rs 1696750/- INR	
<b>SC</b>	Cost of preservation, handling and reuse of top soil : (Cost of soil preservation is assumed to be Rs. 10,000 per 1 Ha	Total excavated area calculation 590923 T production = 8.6590 ha. (Mine Plan) So, for 77125 T = (8.6590 /590923)*77125 = 1.130 Ha. Taking cost @ 10,000 per Ha = 10,000*1.130 = 11,300/-	11,300/-
Total Assessed Environmental Damage Cost in Rupees			21,56,950/-
	Environmental damage cost in % of mineral value(Total Assessed Emt. Damage cost in INR /Value of mineral in INR)*100	(2156950/16967500 ) * 100 = 12.71%	

- **Natural Resource & Augmentation Plan:**

Sr. No.	Environmental Components	Natural Resource Augmentation	Cost (INR)
1	Air Environment	Plantation of 100 trees (fruit bearing) in 2.5 ha of land and its maintenance	50,000/-
		In situ preservation of 2.5 ha of land in the eastern part of the lease for growth as fodder and pasture	60,000/-
2	Water Environment	Support in Construction of Rain water harvesting Structures	1,00,000/-
		Construction of roof-top rain water harvesting structure at Project site	1,00,000/-
Total			3,10,000/-

- **Community Resource Augmentation Plan:**

Sr. No.	Resource identification	Community Resource Augmentation	Cost (INR)
1	Old age	Training old age people to contribute back at society	1,50,000/-
2	Merit promotion	Merit based award	25,000/-
3	Skill development	Organizing women craft related skill upgradation module (7 days craft education)	1,50,000/-

4	Capacity building for earthquake disaster preparedness	Mock drill exercises for earthquake safety and seminar at village level	1,00,000/-
Total			4,25,000/-

- a) *The Bank Guarantee shall be released after successful implementation of the Remediation Plan and Natural & Community Resource Augmentation plan followed by recommendation of the regional office of the Ministry, State Level Expert Appraisal Committee and approval of the Regulatory Authority.*
- b) *Necessary permission/s from the concerned competent authority/ies shall be obtained for carrying out the activities under Remediation Plan and Natural & Community Resource Augmentation plan as proposed by them.*

25. The project proponent shall allocate separate fund of Rs.5,14,000/- (i.e. amount double than that arise from the actual provision as per the MOEF&CC's office Memorandum No: F NO 22-65/2017-IA-III dated 01/05/2018) for activities mentioned below within 5 years in accordance to the MoEFCC's Office Memorandum No. F.No.22-65/2017-IA.III dated 01/05/2018 and 30.09.2020.

<b>Budgetary provision under CER activity of Boricha (Zinzarika) Limestone mining Project (Area – 11.77 Ha., Village – Boricha (Zinzarika), Porbandar of M/s TCL</b>		
<b>Sr. No</b>	<b>Activity</b>	<b>Budgetary provision INR</b>
1	Installation of R.O. System in nearby village	5,14,000/-
		5,14,000/-

26. The entire activities proposed under CER shall be monitored and the monitoring report shall be submitted to the regional office of MoEFCC as a part of half-yearly compliance report and to district collector. The monitoring report shall be posted on the website of the project proponent.

## **2. LIMESTONE MINING, DIST: GIR-SOMANTH – B1 Appraisal**

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

SIA/GJ/MIN/ 25825/2018	Jasadhar Limestone Project C/o Arshibhai Mandabhai Mori	52/ 2/A	Jasadhar	Talala	Gir-Somnath	1.9445 Ha	Lease granted on 04.03.2003 for 30 years, validity extendable up to 03.03.2053	68,000 MT PA	Jasadhar - 1.70 km	Construction	Rs.20 Lakh	08.07 .2021
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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 Environmental Clearance (EC) for mining of Limestone.

<b>A. Basic Information of the Project:</b>		
1.	Name of Project as per Form I	Jasadhar Limestone Mining Project, Survey No.52/2/A (Paiky)
2.	Address of the lease	Survey No.: 52/2/A (Paiky) Village: Jasadhar Taluka: Talala District: Gir Somnath
3.	Name of lease holder	Shri Hareeshbhai Arshibhai Mori
4.	Lease area (Ha)	1.9445 ha.
5.	Cluster Details	NA
	a. Total no. of leases in the cluster	-
	b. No. of TOR granted in cluster	-
	c. No. of EC granted in cluster	-
	d. Total area of the cluster	-
	e. Maximum individual lease area	-
	f. Minimum individual lease area	-
6.	Validity of lease with the date of expiry	The mining lease was granted vide order no. MCR-152001-2582-CHH. The lease was executed for a period of 30 years w.e.f. 04.03.2003. As per the provisions of MMDR (Amended) Act, 2015, the validity of Jasadhar Limestone Mine lease after the enactment of the Mines and Minerals (Development and Regulation) Amendment Act, 2015 has been extended up to 03.03.2053 vide Govt. of Gujarat letter No. MCR-152001-2587-CHH.1 Dated 16.06.2017.
7.	Rate of Mining (MT/Annum)	68,000 MTPA
8.	Details of EC obtained (for expansion projects), if any	Not Applicable
9.	Name of River Bed	Saraswati River (at 0.82 km distance)

10.	Is the river perennial / non-perennial?	Non-perennial																										
11.	Lease area (submerged / in stream / on dry river bed)	0 ha																										
12.	All coordinates of the lease area as per Approved Mining Plan	<table border="1"> <thead> <tr> <th>Lease Boundary Pillar No.</th> <th>Latitude</th> <th>Longitude</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>20° 59'29.47"N</td> <td>70° 37'19.82"E</td> </tr> <tr> <td>2</td> <td>20° 59'34.72"N</td> <td>70° 37'17.12"E</td> </tr> <tr> <td>3</td> <td>20° 59'35.11"N</td> <td>70° 37'18.27"E</td> </tr> <tr> <td>4</td> <td>20° 59'33.24"N</td> <td>70° 37'23.53"E</td> </tr> <tr> <td>5</td> <td>20° 59'28.64"N</td> <td>70° 37'22.72"E</td> </tr> <tr> <td>6</td> <td>20° 59'28.59"N</td> <td>70° 37'22.48"E</td> </tr> <tr> <td>7</td> <td>20° 59'30.61"N</td> <td>70° 37'21.82"E</td> </tr> </tbody> </table>	Lease Boundary Pillar No.	Latitude	Longitude	1	20° 59'29.47"N	70° 37'19.82"E	2	20° 59'34.72"N	70° 37'17.12"E	3	20° 59'35.11"N	70° 37'18.27"E	4	20° 59'33.24"N	70° 37'23.53"E	5	20° 59'28.64"N	70° 37'22.72"E	6	20° 59'28.59"N	70° 37'22.48"E	7	20° 59'30.61"N	70° 37'21.82"E		
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13.	Manpower requirement	31																										
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	Hiran Dam 14.96 km																										
17.	Maximum depth of sand removal (3 m or water depth whichever is less)	Not Applicable																										
18.	Width of Riverbed (m)	Not Applicable																										
19.	Average depth of water at lease area (m)	The water table is about 25 m.																										
20.	Depth of mining (m)	The working is proposed up to 73 mRL (20 m)																										
21.	Ground Water Table in meter BGL	The water table is about 25 m below ground level.																										
22.	Does ground water interfere approach road exit? (Yes / No)  If yes, status report of CGWA	No																										
23.	Distance between lease and main road	1.59km																										
24.	Length of kaccha road (m)	1.59 km																										
25.	Length of pacca road (m)	Tar road has a width of 5m																										
26.	Plan for making pacca road	None																										
27.	Source of fresh water	Water will be purchased through tankers from the nearby village.																										
28.	Water requirement (kLPD)	6 KLD																										
	a. Domestic	1																										
	b. Dust suppression	3																										
	c. Gardening / Green belt development	2																										
	d. others	-																										
29.	Whether the Undertaking is submitted for identical	Yes																										

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	
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**B. Environmental Sensitivities:**

Sr No.	Environmental Sensitivities	Actual Distance	Minimum Distance	Reference
1.	Residential	None within 100mtr	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
	Public buildings	None within 100mtr		
	Inhabited sites	Jasadhar Village is about 1.38 km		
	Protected monuments,	None within 100 mtr		
	Heritage sites	None within 100 mtr		
	National / State Highway	NH-51 (7.8 km) SH-101 (1.5 km)		
	District roads	None		
	Public roads	0.81 km		
	Railway line / area	1.5 km		
	Ropeway or Ropeway trestle or station	None within 100 mtr		
	Bridges	None		
	Dams	Hiran Dam 14.96 km		
	Reservoirs	Hiran Dam 14.96 km		
	River	Saraswati River 0.82 km		
Canal	None			
Lakes	None			

	Tanks	None		
2.	Eco-Sensitive Zone (if notified)		>1 km / outside the notified Eco-Sensitive Zone	Vide directives of MOEF&CC dtd 16.07.2020
3.	Eco-Sensitive Zone (if not notified)	153 m	>1 km and <10 km = Prior Clearance from NBWL is required	Vide directives of MOEF&CC dtd16.07.2020
4.	Distance of Coastal line from the site	None	>500 M from HTL	Amended CRZ Notification 2011

**C. Details of Mining:**

1.	Method of Mining (Manual / Semi-mechanized / Mechanized).	Open cast manual method of mining as per approved mine plan.
2.	Equipments to be used for Mining bulldozers, hydraulic excavators, JCB, scrapers, loaders, Diesel Pump, etc.)	Rock Breakers with Excavators, Tippers/ Dumpers as per approved mine plan.
3.	Whether it includes blasting?	No blasting is proposed as per approved mine plan.
4.	Details of Authorized Blasting Agency with date of validity certificate	Not Applicable
5.	Procedure / SOP (in brief)	--
6.	Details of Blasting Parameters in brief	--
7.	Frequency of blasting	--
8.	Impact of blasting	--
9.	Outcome of Vibration study	--
10.	Blasting Activity Management Plan	--
11.	Use of any Chemical with quantity	--
12.	Precautions taken for Human Safety in brief	--
13.	Crusher provided? If Yes, Measures taken for Air Pollution Control	No
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	Not Applicable

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

1.	a. Green belt development budget	<p>Around 250 saplings is proposed to plant @ cost of Rs 100/saplings&amp; other expenditures, which calculates a total of Rs 2,00,000/-.</p> <p>Therefore, a total of Rs. 2,00,000/- capital cost will be spend in next 5 years for greenbelt development, along with Rs 15,000/- as recurring cost.</p>
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b. Green belt area / location	Green belt development will be done in 33% of mine lease area, i.e.0.64 ha.			
c. No. of trees to be planted	Taking 1 plant per 4 m <sup>2</sup> of land, approx 500 saplings will be planted in 0.64 ha area. As survival rate is 80-85%, 50 saplings will be planted per year in suitable land in consultation with Gram Panchayat.			
d. Types of trees to be planted	<b>Sl. No</b>	<b>Name</b>	<b>Scientific Name</b>	<b>Number</b>
	1	Neem	<i>Azadirachta indica</i>	25
	2	Nimbu	<i>Citrus aurantium</i>	20
	3	Mango	<i>Mangifera indica</i>	15
	4	Shisham	<i>Dalbergia sisoo</i>	20
	5	Amla	<i>Phyllanthus emblica</i>	12
	6	Peepal	<i>Ficus religiosa</i>	15
	7	Amrud	<i>Psidium guayava</i>	10
	8	Jamun	<i>Syzygium cumini</i>	12
	9	Imli	<i>Tamarindus indica</i>	10
	10	Ber	<i>Zizyphusxylopyra</i>	10
	11	Ashok	<i>Polyalthia longifolin</i>	15
	12	Bodori	<i>Zizyphus mauritiana</i>	18
	13	Heena	<i>Lawsoniainermis</i>	16
	14	Sissu	<i>Dalbergia sisoo</i>	17
	15	Seethaapholo	<i>Anona squamosa</i>	20
	16	Belo	<i>Aegle marmelos</i>	15
	<b>Total</b>			<b>250</b>

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

1.	Details of EMP	Impact	Mitigation Measures
	a. Land Environment	Land use Pattern of the core zone of mining area will be changed due to proposed mining activity. Original topography of the core zone will be changed. The impact of mining on land environment is due to excavation of pits.	At the conceptual stage of the proposed mine the excavated area will be re-grassed for growth of fodder, flora, fauna etc.

	<p>b. Water Environment</p>	<p>The water table of the area will not be tapped by working of mine so there is no problem of lowering of water table of the region. There is no permanent surface water body. There is nothing like any pond, lakes and Dam etc in the nearby area.</p> <p>The waste water generation in the mining process is not envisaged. The deposit does not contain any harmful contents; hence it is not going to affect the quality of water in surrounding area. As there is no beneficiation involved with the use of water, discharge effluents does not happen.</p>	<p>Mining will not intersect the ground water table of the area.</p> <p>Waste water generated from labor domestic use will be treated in septic tank followed by soaking pit.</p> <p>Regular monitoring of surface water and ground water will be done to ensure there is no adverse impact due to limestone mining project.</p> <p>No washing of equipment will be done inside the mining lease areas.</p> <p>Garland drains will be provided to prevent the entry of rainwater into the mining pit.</p>
	<p>c. Air Environment</p>	<p>Mining is proposed to be carried out by opencast manual method. The air borne particulate matter (PM<sub>10</sub>) generated by mining operations, loading, unloading and transportation of mineral is the main respirable air pollutant.</p>	<ul style="list-style-type: none"> <li>➤ Particulate matter emission from haul road will be reduced by water sprinkling.</li> <li>➤ Vehicle used for excavation and haulage will be of latest Indian norms.</li> <li>➤ High speed diesel will be used for mining equipment operation</li> <li>➤ Green belt will be developed.</li> <li>➤ Personal protecting equipment (PPE) like dust mask, ear plugs etc will be used by mine workers.</li> <li>➤ Ambient air quality monitoring will be carried out periodically to know the implementation of environmental management plan.</li> </ul>
	<p>d. Noise Environment</p>	<p>Noise generated at the mine site will be due to manual mining operations and transportation. Noise generated due to mining activities will dissipates within the mine. There is no major impact of mining activity on the nearby villages. Impact of noise on the villages is negligible as the villages are far located from the mine workings. No blasting is</p>	<ul style="list-style-type: none"> <li>➤ Proper maintenance, oiling and greasing of machines at regular intervals to reduce the noise level up to an extent.</li> <li>➤ Adequate silencers and enclosures will be provided in all the diesel engines.</li> <li>➤ Plantation along both the sides of approach road,</li> </ul>

		proposed.	<p>around mine office building and mine area to minimize the propagation of noise.</p> <ul style="list-style-type: none"> <li>➤ Personal Protective Equipment (PPE) like earmuffs/earplugs will be provided to all operators and employees working near mining machineries or at higher noise zone.</li> <li>➤ Periodical noise level monitoring will be done.</li> </ul>
	e. Biological Environment	Impacts on key habitat elements will occur on a local scale, but on a regional scale they would not be critical for the life cycle needs of the species observed or expected. Wild life is not commonly found in the plains because of lack of vegetal cover and surface water except domestic animals.	<ul style="list-style-type: none"> <li>➤ Regular water sprinkling on haul road will be done to reduce the emission of suspended particulate matter which causes the blockage of the stomata of plants and interrupting the photosynthesis process.</li> <li>➤ Thick green belt development will be done in 33 % area of mine lease.</li> <li>➤ Green belt development reduces noise level, reduces gaseous pollution and particulate matter pollution.</li> <li>➤ Pollution tolerant plant with consultation to state forest department has been proposed for plantation.</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 project will be providing employment to the local population and preference will always be given to local people whenever there is a requirement of man power for mining related work. There is no displacement of people due to mining operations.	The proposed mining project is expected to provide direct and indirect employment opportunities to the local people of different skills and trades. It is a positive impact that needs to be encouraged. It has been estimated that about 31 workers of various categories will be employed directly to the mining project.
	g. Others	--	--
2.	Occupational health & safety measures as per DGMS	Occupational safety and health is very closely related to productivity and good employer-employee relationship. The factors of occupational health in the proposed limestone Mining Project are mainly dust and land degradation. Safety of	

		<p>employees during operation and maintenance etc. shall be as per Mines rules and regulations. To avoid any adverse effect on the health of workers due to various pollutants, sufficient measures relating to safety and health will also be practiced:</p> <ul style="list-style-type: none"> <li>➤ Provision of rest shelters for mines 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>➤ Training of employees for use of safety appliances and first aid in vocational training centre.</li> <li>➤ Regular maintenance and testing of all equipment as per manufacturers' guidelines.</li> <li>➤ Periodical Medical Examination (PME) of all workers by a medical Officer.</li> <li>➤ First Aid facility is provided at the mines 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 mines as per approved mining plan and environmental plans</li> </ul>
3.	Safety measures proposed	<ul style="list-style-type: none"> <li>➤ The opencast mines have been planned for working with excavator tipper system which requires proper benching not only for slope stability but also for movement of tippers and other heavy machinery.</li> <li>➤ All mining operations both within the quarry and outside will be conducted as per the conditions lay down by DGMS and under the strict supervision of competent persons appointed under Metalliferrous Mines Regulations, 1961.</li> <li>➤ All transportation within the main working area would be carried out under the direct supervision and control of the management;</li> <li>➤ The vehicles must be maintained in good repairs and checked thoroughly at least once a week by a competent person authorized for this purpose by the management;</li> <li>➤ Broad signs should be provided at each and every turning point especially for the guidance of the drivers of vehicles.</li> <li>➤ To avoid dangers while reversing the trackless vehicles, especially at the embankment and tripping points, all areas for reversing of lorries should, as far as possible, be made man free, and there should be a light and sound device to indicate reversing of trucks; and</li> <li>➤ A statutory provision of the fence, constant education, training etc. will go a long way in reducing the incidence of such accidents.</li> </ul>
	a. Is First Aid facility provided by PP?	Yes
	b. Details of PPEs	<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>➤ Training of employees for use of safety appliances and first aid in vocational training centre.</li> <li>➤ Periodical Medical Examination (PME) of all workers by a medical Officer.</li> </ul>

	c. Whether Registration of Workers under Building and other Construction Workers' (regulation of Employment & Conditions of Service) Act, 1996 and as Beneficiaries with the Gujarat Building and other Construction Workers Welfare Boards is obtained or not?	Not Applicable
	d. Insurance of Workers	The worker will be hired on temporary basis, all the safety measures will be followed.
	e. Health checkup plan of workers	Periodic medical checkup will be conducted to maintain health of the workers.

**F. Transportation:**

1.	No. of vehicles per day carrying Minerals	Proposed capacity= 68,000 MTPA Saleable Mineral capacity- 68,000 MTPA Total no. of working days= 300 Total excavation per day= 227 MT Capacity of 1 truck= 12.75 Total trucks required per day= $227/12.75$ = approx.17 trucks Total 17 trucks will be required per day.
2.	Fugitive dust emission control measures	<ul style="list-style-type: none"> <li>➤ Particulate matter emission from haul road will be reduced by water sprinkling.</li> <li>➤ Vehicle used for excavation and haulage will be of latest Indian norms.</li> <li>➤ High speed diesel will be used for mining equipment operation</li> <li>➤ Green belt will be developed.</li> <li>➤ Personal protecting equipment (PPE) like dust mask, ear plugs etc will be used by mine workers.</li> <li>➤ Ambient air quality monitoring will be carried out periodically to know the implementation of environmental management plan.</li> </ul>
3.	Route plan in brief	The mineral would be transported through the existing approachable road.

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

1.	Total cost of the project (Lakh)	20 Lakhs
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a. Upfront cost (Lakh)	--																																																													
b. Performance Security (Lakh)	--																																																													
c. Total Royalty (Lakh)	--																																																													
d. Weigh Bridge Cost (Lakh)	--																																																													
e. Labor cost equipment (Lakh)	--																																																													
f. Equipment protection and implementation cost (Lakh)	--																																																													
g. Green Belt Development & maintenance cost (Lakh)	0.30																																																													
h. Cost of EMP (Lakh)	0.55																																																													
i. Cost of Safety measures (Lakh)	-																																																													
j. Cost of Post-Closure Mine Plan (Lakh)	-																																																													
<b>2. Budget allocated for CER (Lakh)</b>	<b>0.40 lakhs</b>																																																													
<b>3. Is need based survey for CER carried out? (Yes / No)</b>  If yes, give details of activities along with Budgetary Outlay	<table border="1"> <thead> <tr> <th rowspan="2">S. No.</th> <th rowspan="2">Activities</th> <th colspan="5">Fund allocated (Rs. in Lakhs)</th> </tr> <tr> <th>1<sup>st</sup> Year</th> <th>2<sup>nd</sup> Year</th> <th>3<sup>rd</sup> Year</th> <th>4<sup>th</sup> Year</th> <th>5<sup>th</sup> Year</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Sanitation (construction of toilets and maintenance)</td> <td>0.10</td> <td>0.10</td> <td>0.10</td> <td>0.10</td> <td>0.10</td> </tr> <tr> <td>2</td> <td>Skill development like training of sewing etc. for girls and ladies of nearby villages on yearly basis</td> <td>0.10</td> <td>0.10</td> <td>0.10</td> <td>0.10</td> <td>0.10</td> </tr> <tr> <td>3</td> <td>Avenue Plantation &amp; maintenance both Sides of Road Near Mine Site</td> <td>0.05</td> <td>0.05</td> <td>0.05</td> <td>0.05</td> <td>0.05</td> </tr> <tr> <td>4</td> <td>Maintenance of plants</td> <td>0.10</td> <td>0.10</td> <td>0.10</td> <td>0.10</td> <td>0.10</td> </tr> <tr> <td>5</td> <td>Road upkeep</td> <td>0.05</td> <td>0.05</td> <td>0.05</td> <td>0.05</td> <td>0.05</td> </tr> <tr> <td colspan="2"><b>Total</b></td> <td><b>0.40</b></td> <td><b>0.40</b></td> <td><b>0.40</b></td> <td><b>0.40</b></td> <td><b>0.40</b></td> </tr> <tr> <td colspan="2"><b>Grand Total</b></td> <td colspan="5"><b>2.0 Lakh</b></td> </tr> </tbody> </table>	S. No.	Activities	Fund allocated (Rs. in Lakhs)					1 <sup>st</sup> Year	2 <sup>nd</sup> Year	3 <sup>rd</sup> Year	4 <sup>th</sup> Year	5 <sup>th</sup> Year	1	Sanitation (construction of toilets and maintenance)	0.10	0.10	0.10	0.10	0.10	2	Skill development like training of sewing etc. for girls and ladies of nearby villages on yearly basis	0.10	0.10	0.10	0.10	0.10	3	Avenue Plantation & maintenance both Sides of Road Near Mine Site	0.05	0.05	0.05	0.05	0.05	4	Maintenance of plants	0.10	0.10	0.10	0.10	0.10	5	Road upkeep	0.05	0.05	0.05	0.05	0.05	<b>Total</b>		<b>0.40</b>	<b>0.40</b>	<b>0.40</b>	<b>0.40</b>	<b>0.40</b>	<b>Grand Total</b>		<b>2.0 Lakh</b>				
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**H. Restoration / Reclamation Plan:**

1.	Restoration / Reclamation Details	At the end of the mining lease period, as per MoEF&CC Office Memorandum F.No. 22-34/2018-IA-III dated 16 January, 2020, <b><i>"the mining lease holder shall, after ceasing mining operations, undertake re-grassing the mining area and any</i></b>
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		<b><i>other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc"</i></b> Therefore, At the conceptual stage of the proposed mine the excavated area will be re-grassed for growth of fodder, flora, fauna etc.
2.	Post mining closure plan	At the conceptual stage of the proposed mine the excavated area will be re-grassed for growth of fodder, flora, fauna etc.
3.	Backfilling material and its quantity	No backfilling is proposed.
4.	Size of void for Rain Water Harvesting after backfilling	Rainwater harvesting is not proposed as at the conceptual stage of the proposed mine the excavated area will be re-grassed for growth of fodder, flora, fauna etc.
5.	Post Closure Liability / Safety aspects and Measures to be taken to avoid wild life and human accidents/ causalities	As proposed excavated area will be re-grassed for growth of fodder, flora, fauna etc. in the area, no such causalities/ accidents is anticipated. Still, precautions like proper fencing would be taken for safety.
6.	Display of Caution Boards at strategic locations on the periphery of the pit area	Caution boards at strategic locations on the periphery of the pit area will be provided.
7.	Final Use of reservoir/ reclaimed land	At the conceptual stage of the proposed mine the excavated area will be re-grassed for growth of fodder, flora, fauna etc.

**I. Details of Legal Action / Court Case:**

1.	Details of Pending Court matter / Public Litigation Cases in any court of Law	None
2.	Details of Action taken by GPCB, if any	None
3.	Details of public complaint , if any	None
4.	Compliance of EC by RO-GPCB or MoEFCC-Bhopal	Certified compliance report will be regularly practiced after getting environment clearance.

**J. Contact Details:**

1.	<b>Contact details of Applicant</b>	
2.	Name	Shri Hareshbhai Arshibhai Mori
3.	Address	Near Police Station, 50, Purv Bardi Vistar, Sutrapada, Dist – Gir Somnath – 362275 (Gujarat)
4.	Contact no.	Mobile No: 9427447600 Landline No: 02870-288599
5.	Email Id	hareshmoria@gmail.com

6.	<b>Contact details of Consultant</b>	
7.	Name	GeogreenEnviro House Pvt. Ltd., Lucknow
8.	Address	C 1/20, Viraj Khand, Gomati Nagar, Lucknow, Uttar Pradesh -226010
9.	Contact no.	9990416608
10.	Email Id	contact@gcrdindia.com

### Deliberation:

- ✓ Shri Ashishbhai from M/s. Geogreen Enviro House Pvt. Ltd., Lucknow remained present in the meeting and they have submitted the Authorization letter of PP for same.
  - ✓ Shri Ashishbhai informed the Committee that the PP has obtained TOR vide SEIAA letter no. SEIAA/GUJ/TOR/1(a)/1018/2018, dated 30.09.2018.
  - ✓ Baseline study is carried out for the period of March 2019 to May 2019.
  - ✓ Public hearing was held on 28.01.2021.
- The Committee noted the discrepancy in the Jasadhar (nearest) village from the lease area reported in the EIA report submitted and in the Approved Mining Plan.
  - Shri Ashishbhai informed the Committee that the lease is located at the distance of 153 m away from the boundary of Non-Notified Eco-Sensitive Zone and at the distance of 8.95 km from the boundary of Gir Wildlife Sanctuary, i.e. <10 km from the boundary of Gir Wildlife Sanctuary.
  - Committee deliberated on MoEFCC OM dated 08.08.2019 as well as MoEFCC letter dated 16.07.2020 vide no. 6-60/2020 WL Part(I) vide Clause 3 (ii) of letter addressed to Chief Secretaries of all states mentions as below:

*“ii. Proposals involving any activity/project located within 10 km of National Park/Wildlife Sanctuary wherein ESZ has not been finally notified and listed in the Schedules of EIA Notification 2006 and requiring environmental clearance, **Prior Clearance from Standing Committee Of the National Board for wildlife will be required.**”*

In view of the above, the Committee unanimously decided to defer the proposal in upcoming SEAC meeting upon submission of below mentioned details:

- a. Prior Clearance from Standing Committee of the National Board for Wildlife
- b. Distance map of the lease from the nearest boundary of the Gir Wildlife Sanctuary, approved by the District level Office of the Department of Forests, Gujarat.
- c. To produce credible documentary evidence stating the actual distance of the nearest village from the lease boundary by the competent Authority.

### 3. LIMESTONE MINING, DIST: GIR-SOMNATH – B1 Appraisal

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
SIA/GJ/MIN/25826/2018	Jasadhar Limestone Project C/o Danabhai Meramanbhai Barad	52/2/A	Jasadhar	Talala	Gir-Somnath	1.3172 Ha	Lease granted on 07.01.2003 for 30 years, validity extendable up to 06.01.2053	40,000 MT PA	Jasadhar – 1.70 km	Construction	Rs.20 Lakh	08.07.2021

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

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

1.	Name of Project as per Form I	Jasadhar Limestone Mine
2.	Address of the lease	Survey No.: 52/2/A (Paiky) Village: Jasadhar Taluka: Talala District: Gir Somnath
3.	Name of lease holder	Shri Danabhai Meramanbhai Barad
4.	Lease area (Ha)	1.3172 ha
5.	Cluster Details	
	a. Total no. of leases in the cluster	NA
	b. No. of TOR granted in cluster	NA
	c. No. of EC granted in cluster	NA
	d. Total area of the cluster	NA
	e. Maximum individual lease area	NA
	f. Minimum individual lease area	NA
6.	Validity of lease with the date of expiry	The mining lease was granted in favour of Dana Bhai Meraman Barad vide order no. MCR-152001-2587-CHH. The lease was executed for a period of 30 years w.e.f.

		07.01.2003. As per the provisions of MMDR (Amended) Act, 2015, the validity of Jasadhar Limestone Mine lease after the enactment of the Mines and Minerals (Development and Regulation) Amendment Act, 2015 has been extended up to 06.01.2053 vide Govt. of Gujarat letter No. MCR-152001-2587-CHH.1 Dated 16.06.2017.																																	
7.	Rate of Mining (MT/Annum)	40,000 MTPA																																	
8.	Details of EC obtained (for expansion projects), if any	Not Applicable																																	
9.	Name of River Bed	Sabarmati River (at 0.85 km distance towards East direction)																																	
10.	Is the river perennial / non-perennial?	Non-perennial river																																	
11.	Lease area (submerged / in stream / on dry river bed)	0 ha																																	
12.	All coordinates of the lease area as per Approved Mining Plan	<table border="1"> <thead> <tr> <th>Pillar No.</th> <th>Latitude (N)</th> <th>Longitude (E)</th> </tr> </thead> <tbody> <tr> <td>Pillar No. 1</td> <td>20° 59'24.95"</td> <td>70° 37'14.19"</td> </tr> <tr> <td>Pillar No. 2</td> <td>20° 59'25.77"</td> <td>70° 37'13.95"</td> </tr> <tr> <td>Pillar No. 3</td> <td>20° 59'26.53"</td> <td>70° 37'14.82"</td> </tr> <tr> <td>Pillar No. 4</td> <td>20° 59'27.94"</td> <td>70° 37'15.19"</td> </tr> <tr> <td>Pillar No. 5</td> <td>20° 59'30.52"</td> <td>70° 37'19.25"</td> </tr> <tr> <td>Pillar No. 6</td> <td>20° 59'29.47"</td> <td>70° 37'19.82"</td> </tr> <tr> <td>Pillar No. 7</td> <td>20° 59'28.55"</td> <td>70° 37'18.24"</td> </tr> <tr> <td>Pillar No. 8</td> <td>20° 59'26.91"</td> <td>70° 37'19.28"</td> </tr> <tr> <td>Pillar No. 9</td> <td>20° 59'25.04"</td> <td>70° 37'16.22"</td> </tr> <tr> <td>Pillar No. 10</td> <td>20° 59'25.54"</td> <td>70° 37'15.86"</td> </tr> </tbody> </table>	Pillar No.	Latitude (N)	Longitude (E)	Pillar No. 1	20° 59'24.95"	70° 37'14.19"	Pillar No. 2	20° 59'25.77"	70° 37'13.95"	Pillar No. 3	20° 59'26.53"	70° 37'14.82"	Pillar No. 4	20° 59'27.94"	70° 37'15.19"	Pillar No. 5	20° 59'30.52"	70° 37'19.25"	Pillar No. 6	20° 59'29.47"	70° 37'19.82"	Pillar No. 7	20° 59'28.55"	70° 37'18.24"	Pillar No. 8	20° 59'26.91"	70° 37'19.28"	Pillar No. 9	20° 59'25.04"	70° 37'16.22"	Pillar No. 10	20° 59'25.54"	70° 37'15.86"
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13.	Manpower requirement	21																																	
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	Hiran Dam 14.94 km																																	
17.	Maximum depth of sand removal (3 m or water depth whichever is less)	Not Applicable																																	
18.	Width of Riverbed (m)	Not Applicable																																	
19.	Average depth of water at lease area (m)	The water table is about 25 m.																																	
20.	Depth of mining (m)	The working is proposed up to 81 mRL (10 m)																																	
21.	Ground Water Table in meter BGL	The water table is about 25 m below ground level.																																	
22.	Does ground water interfere approach road exit? (Yes / No)  If yes, status report of CGWA	No																																	
23.	Distance between lease and main road	1.50 km																																	
24.	Length of kaccha road (m)	1.50 km																																	
25.	Length of pacca road (m)	Tar road has a width of 5m																																	
26.	Plan for making pacca road	None																																	

27.	Source of fresh water	Water will be purchased through tankers from the nearby village.
28.	Water requirement (kLPD)	6 KLD
	a. Domestic	1
	b. Dust suppression	3
	c. Gardening / Green belt development	2
	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	None within 100mtr	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
	Public buildings	None within 100 mtr		
	Inhabited sites	Jasadhar Village is about 1.31 km		
	Protected monuments,	None within 100 mtr		
	Heritage sites	None within 100 mtr		
	National / State Highway	NH-51 (7.63 km) SH-101 (1.25 km)		
	District roads	None		
	Public roads	0.81 km		
	Railway line/ area	1.61 km		
	Ropeway or Ropeway trestle or station	None within 100 mtr		
	Bridges	None		
Dams	Hiran Dam 14.94 km			

	Reservoirs	Hiran Dam 14.94 km		
	River	Sabarmati River (at 0.85 km distance towards East direction)		
	Canal	None		
	Lakes	None		
	Tanks	None		
2.	Eco-Sensitive Zone (if notified)		>1 km / outside the notified Eco-Sensitive Zone	Vide directives of MOEF&CC dtd 16.07.2020
3.	Eco-Sensitive Zone (if not notified)	310 m	>1 km and <10 km = Prior Clearance from NBWL is required	Vide directives of MOEF&CC dtd 16.07.2020
4.	Distance of Coastal line from the site	None	>500 M from HTL	Amended CRZ Notification 2011

### C. Details of Mining:

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

	If yes, conclude in brief	
<b>D. Details of Green Belt Development:</b>		
1.	a. Greenbelt development budget	<p>Around 250 saplings is proposed to plant @ cost of Rs 100/saplings, which calculates a total of Rs 2,00,000/-.</p> <p>Therefore, a total of Rs. 2,00,000/- capital cost will be spend in next 5 years for greenbelt development, along with Rs 15,000/- as recurring cost.</p>
	b. Green belt area / location	Green belt development will be done in 33% of mine lease area, i.e.0.131 ha.
	c. No. of trees to be planted	Taking 1 plant per 4 m <sup>2</sup> of land, approx 250 saplings will be planted in 0.131 ha area. As survival rate is 80-85%, 50 saplings will be planted per year in suitable land in consultation with Gram Panchayat.

d. Types of trees to be planted	<b>Sl. No</b>	<b>Name</b>	<b>Scientific Name</b>	<b>Number</b>
	1	Neem	<i>Azadirachta indica</i>	25
	2	Nimbu	<i>Citrus aurantium</i>	20
	3	Mango	<i>Mangifera indica</i>	15
	4	Shisham	<i>Dalbergia sisoo</i>	20
	5	Amla	<i>Phyllanthus emblica</i>	12
	6	Peepal	<i>Ficus religiosa</i>	15
	7	Amrud	<i>Psidium guayava</i>	10
	8	Jamun	<i>Syzygium cumini</i>	12
	9	Imli	<i>Tamarindus indica</i>	10
	10	Ber	<i>Zizyphusxylopyra</i>	10
	11	Ashok	<i>Polyalthia longifolin</i>	15
	12	Bodori	<i>Zizyphus mauritiana</i>	18
	13	Heena	<i>Lawsoniainermis</i>	16
	14	Sissu	<i>Dalbergia sisoo</i>	17
	15	Seethaapholo	<i>Anona squamosa</i>	20
	16	Belo	<i>Aegle marmelos</i>	15
<b>Total</b>			<b>250</b>	

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

1.	Details of EMP	Impact	Mitigation Measures
a.	Land Environment	Land use Pattern of the core zone of mining area will be changed due to proposed mining activity. Original topography of the core zone will be changed. The impact of mining on land environment is due to excavation of pits.	At the conceptual stage of the proposed mine the excavated area will be re-grassed for growth of fodder, flora, fauna etc.
b.	Water Environment	The water table of the area will not be tapped by working of mine so there is no problem of lowering of water table of the region. There is no permanent	Mining will not intersect the ground water table of the area. Waste water generated from labor domestic use will be

		<p>surface water body. There is nothing like any pond, lakes and Dam etc in the nearby area.</p> <p>The waste water generation in the mining process is not envisaged. The deposit does not contain any harmful contents; hence it is not going to affect the quality of water in surrounding area. As there is no beneficiation involved with the use of water, discharge effluents does not happen.</p>	<p>treated in septic tank followed by soaking pit. Regular monitoring of surface water and ground water will be done to ensure there is no adverse impact due to limestone mining project.</p> <p>No washing of equipment will be done inside the mining lease areas.</p> <p>Garland drains will be provided to prevent the entry of rainwater into the mining pit.</p>
	c. Air Environment	<p>Mining is proposed to be carried out by opencast manual method. The air borne particulate matter (PM<sub>10</sub>) generated by mining operations, loading, unloading and transportation of mineral is the main respirable air pollutant.</p>	<ul style="list-style-type: none"> <li>➤ Particulate matter emission from haul road will be reduced by water sprinkling.</li> <li>➤ Vehicle used for excavation and haulage will be of latest Indian norms.</li> <li>➤ High speed diesel will be used for mining equipment operation</li> <li>➤ Green belt will be developed.</li> <li>➤ Personal protecting equipment (PPE) like dust mask, ear plugs etc will be used by mine workers.</li> <li>➤ Ambient air quality monitoring will be carried out periodically to know the implementation of environmental management plan.</li> </ul>
	d. Noise Environment	<p>Noise generated at the mine site will be due to manual mining operations and transportation. Noise generated due to mining activities will dissipates within the mine. There is no major impact of mining activity on the nearby villages. Impact of noise on the villages is negligible as the villages are far located from the mine workings. No blasting is proposed.</p>	<ul style="list-style-type: none"> <li>➤ Proper maintenance, oiling and greasing of machines at regular intervals to reduce the noise level up to an extent.</li> <li>➤ Adequate silencers and enclosures will be provided in all the diesel engines.</li> <li>➤ Plantation along both the sides of approach road, around mine office building and mine area to minimize the propagation of noise.</li> <li>➤ Personal Protective</li> </ul>

			<p>Equipment (PPE) like earmuffs/earplugs will be provided to all operators and employees working near mining machineries or at higher noise zone.</p> <p>➤ Periodical noise level monitoring will be done.</p>
	e. Biological Environment	<p>Impacts on key habitat elements will occur on a local scale, but on a regional scale they would not be critical for the life cycle needs of the species observed or expected. Wild life is not commonly found in the plains because of lack of vegetal cover and surface water except domestic animals.</p>	<p>➤ Regular water sprinkling on haul road will be done to reduce the emission of suspended particulate matter which causes the blockage of the stomata of plants and interrupting the photosynthesis process.</p> <p>➤ Thick green belt development will be done in 33% area of mine lease.</p> <p>➤ Green belt development reduces noise level, reduces gaseous pollution and particulate matter pollution.</p> <p>➤ Pollution tolerant plant with consultation to state forest department has been proposed for plantation.</p>
	f. Human Environment	<p>The impact of mining activity in the area is positive on the socio-economic environment of the region. The proposed project will be providing employment to the local population and preference will always be given to local people whenever there is a requirement of man power for mining related work. There is no displacement of people due to mining operations.</p>	<p>The proposed mining project is expected to provide direct and indirect employment opportunities to the local people of different skills and trades. It is a positive impact that needs to be encouraged. It has been estimated that about 21 workers of various categories will be employed directly to the mining project.</p>
	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 the proposed limestone Mining Project are mainly dust and land degradation. Safety of employees during operation and maintenance etc. shall be as per Mines rules and regulations. To avoid any adverse effect on the health of workers due to various pollutants, sufficient measures relating to safety and health will also be practiced:</p>	

		<ul style="list-style-type: none"> <li>➤ Provision of rest shelters for mines 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>➤ Training of employees for use of safety appliances and first aid in vocational training centre.</li> <li>➤ Regular maintenance and testing of all equipment as per manufacturers' guidelines.</li> <li>➤ Periodical Medical Examination (PME) of all workers by a medical Officer.</li> <li>➤ First Aid facility is provided at the mines 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 mines as per approved mining plan and environmental plans</li> </ul>
3.	Safety measures proposed	<ul style="list-style-type: none"> <li>➤ The opencast mines have been planned for working with excavator tipper system which requires proper benching not only for slope stability but also for movement of tippers and other heavy machinery.</li> <li>➤ All mining operations both within the quarry and outside will be conducted as per the conditions lay down by DGMS and under the strict supervision of competent persons appointed under Metalliferrous Mines Regulations, 1961.</li> <li>➤ All transportation within the main working area would be carried out under the direct supervision and control of the management;</li> <li>➤ The vehicles must be maintained in good repairs and checked thoroughly at least once a week by a competent person authorized for this purpose by the management;</li> <li>➤ Broad signs should be provided at each and every turning point especially for the guidance of the drivers of vehicles.</li> <li>➤ To avoid dangers while reversing the trackless vehicles, especially at the embankment and tripping points, all areas for reversing of lorries should, as far as possible, be made man free, and there should be a light and sound device to indicate reversing of trucks; and</li> <li>➤ A statutory provision of the fence, constant education, training etc. will go a long way in reducing the incidence of such accidents.</li> </ul>
	a. Is First Aid facility provided by PP?	Yes
	b. Details of PPEs	<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>➤ Training of employees for use of safety appliances and first aid in vocational training centre.</li> <li>➤ Periodical Medical Examination (PME) of all workers by a medical Officer.</li> </ul>
	c. Whether Registration of Workers under Building and other	Not Applicable

	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	The worker will be hired on temporary basis; all the safety measures will be followed.
e.	Health checkup plan of workers	Periodic medical checkup will be conducted to maintain health of the workers.

**F. Transportation:**

1.	No. of vehicles per day carrying Minerals	Proposed capacity= 40,000 MTPA Saleable Mineral capacity- 40,000 MTPA Total no. of working days= 300 Total excavation per day= 137 MT Capacity of 1 truck= 12.75 Total trucks required per day=137/12.75 = approx.11 trucks Total 11 trucks will be required per day.
2.	Fugitive dust emission control measures	<ul style="list-style-type: none"> <li>➤ Particulate matter emission from haul road will be reduced by water sprinkling.</li> <li>➤ Vehicle used for excavation and haulage will be of latest Indian norms.</li> <li>➤ High speed diesel will be used for mining equipment operation</li> <li>➤ Green belt will be developed.</li> <li>➤ Personal protecting equipment (PPE) like dust mask, ear plugs etc will be used by mine workers.</li> <li>➤ Ambient air quality monitoring will be carried out periodically to know the implementation of environmental management plan.</li> </ul>
3.	Route plan in brief	The mineral would be transported through the existing approachable road.

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

1.	Total cost of the project (Lakh)	20 Lakhs
	a. Upfront cost (Lakh)	----
	b. Performance Security (Lakh)	-----
	c. Total Royalty (Lakh)	----
	d. Weigh Bridge Cost	--

	(Lakh)																																																														
	e. Labor cost equipment (Lakh)	--																																																													
	f. Equipment protection and implementation cost (Lakh)	--																																																													
	g. Green Belt Development & maintenance cost (Lakh)	0.30																																																													
	h. Cost of EMP (Lakh)	0.70																																																													
	i. Cost of Safety measures (Lakh)	---																																																													
	j. Cost of Post-Closure Mine Plan (Lakh)	--																																																													
2.	Budget allocated for CER (Lakh)	0.40																																																													
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 rowspan="2">S. No.</th> <th rowspan="2">Activities</th> <th colspan="5">Fund allocated (Rs. in Lakhs)</th> </tr> <tr> <th>1<sup>st</sup> Year</th> <th>2<sup>nd</sup> Year</th> <th>3<sup>rd</sup> Year</th> <th>4<sup>th</sup> Year</th> <th>5<sup>th</sup> Year</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Sanitation (construction of toilets and maintenance)</td> <td>0.10</td> <td>0.10</td> <td>0.10</td> <td>0.10</td> <td>0.10</td> </tr> <tr> <td>2</td> <td>Skill development like training of sewing etc. for girls and ladies of nearby villages on yearly basis</td> <td>0.10</td> <td>0.10</td> <td>0.10</td> <td>0.10</td> <td>0.10</td> </tr> <tr> <td>3</td> <td>Avenue Plantation &amp; maintenance both Sides of Road Near Mine Site</td> <td>0.05</td> <td>0.05</td> <td>0.05</td> <td>0.05</td> <td>0.05</td> </tr> <tr> <td>4</td> <td>Maintenance of plants</td> <td>0.10</td> <td>0.10</td> <td>0.10</td> <td>0.10</td> <td>0.10</td> </tr> <tr> <td>5</td> <td>Road upkeep</td> <td>0.05</td> <td>0.05</td> <td>0.05</td> <td>0.05</td> <td>0.05</td> </tr> <tr> <td colspan="2"><b>Total</b></td> <td><b>0.40</b></td> <td><b>0.40</b></td> <td><b>0.40</b></td> <td><b>0.40</b></td> <td><b>0.40</b></td> </tr> <tr> <td colspan="2"><b>Grand Total</b></td> <td colspan="5"><b>2.0 Lakh</b></td> </tr> </tbody> </table>	S. No.	Activities	Fund allocated (Rs. in Lakhs)					1 <sup>st</sup> Year	2 <sup>nd</sup> Year	3 <sup>rd</sup> Year	4 <sup>th</sup> Year	5 <sup>th</sup> Year	1	Sanitation (construction of toilets and maintenance)	0.10	0.10	0.10	0.10	0.10	2	Skill development like training of sewing etc. for girls and ladies of nearby villages on yearly basis	0.10	0.10	0.10	0.10	0.10	3	Avenue Plantation & maintenance both Sides of Road Near Mine Site	0.05	0.05	0.05	0.05	0.05	4	Maintenance of plants	0.10	0.10	0.10	0.10	0.10	5	Road upkeep	0.05	0.05	0.05	0.05	0.05	<b>Total</b>		<b>0.40</b>	<b>0.40</b>	<b>0.40</b>	<b>0.40</b>	<b>0.40</b>	<b>Grand Total</b>		<b>2.0 Lakh</b>				
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**H. Restoration / Reclamation Plan:**

1.	Restoration / Reclamation Details	At the end of the mining lease period, as per MoEF&CC Office Memorandum F.No. 22-34/2018-IA-III dated 16 <sup>th</sup> January, 2020, " <i>the mining lease holder shall, after ceasing mining operations, undertake</i>
----	-----------------------------------	--

		<p><b>re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc"</b></p> <p>Therefore, At the conceptual stage of the proposed mine the excavated area will be re-grassed for growth of fodder, flora, fauna etc.</p>
2.	Post mining closure plan	At the conceptual stage of the proposed mine the excavated area will be re-grassed for growth of fodder, flora, fauna etc.
3.	Backfilling material and its quantity	No backfilling is proposed.
4.	Size of void for Rain Water Harvesting after backfilling	Rainwater harvesting is not proposed as at the conceptual stage of the proposed mine the excavated area will be re-grassed for growth of fodder, flora, fauna etc.
5.	Post Closure Liability / Safety aspects and Measures to be taken to avoid wild life and human accidents/ causalities	As proposed excavated area will be re-grassed for growth of fodder, flora, fauna etc. in the area, no such causalities/ accidents is anticipated. Still, precautions like proper fencing would be taken for safety.
6.	Display of Caution Boards at strategic locations on the periphery of the pit area	Caution boards at strategic locations on the periphery of the pit area will be provided.
7.	Final Use of reservoir/ reclaimed land	At the conceptual stage of the proposed mine the excavated area will be re-grassed for growth of fodder, flora, fauna etc.

**I. Details of Legal Action / Court Case:**

1.	Details of Pending Court matter / Public Litigation Cases in any court of Law	None
2.	Details of Action taken by GPCB, if any	None
3.	Details of public complaint , if any	None
4.	Compliance of EC by RO-GPCB or MoEFCC-Bhopal	Certified compliance report will be regularly practiced after getting environment clearance.

**J. Contact Details:**

1.	<b>Contact details of Applicant</b>	
2.	Name	Shri Danabhai Meramanbhai Barad
3.	Address	19 Panchyat Street, Sutrapada-2, Sutrapada, Dist. Gir Somnath – 362275 (Gujarat)
4.	Contact no.	Mobile No: 9427447600 Landline No: 02870-288599
5.	Email Id	hareshmoria@gmail.com

<b>6.</b>	<b>Contact details of Consultant</b>	
<b>7.</b>	Name	GeogreenEnviro House Pvt. Ltd., Lucknow
<b>8.</b>	Address	C 1/20, Viraj Khand, Gomati Nagar, Lucknow, Uttar Pradesh -226010
<b>9.</b>	Contact no.	9990416608
<b>10.</b>	Email Id	contact@gcrindia.com

**Deliberation:**

- ✓ Shri Ashishbhai from M/s. Geogreen Enviro House Pvt. Ltd., Lucknow remained present in the meeting and they have submitted the Authorization letter of PP for same.
  - ✓ Shri Ashishbhai informed the Committee that the PP has obtained TOR vide SEIAA letter no. SEIAA/GUJ/TOR/1(a)/1014/2018, dated 30.09.2018.
  - ✓ Baseline study is carried out for the period of March 2019 to May 2019.
  - ✓ Public hearing was held on 28.01.2021.
- The Committee noted the discrepancy in the Jasadhar (nearest) village from the lease area reported in the EIA report submitted and in the Approved Mining Plan.
  - Shri Ashishbhai informed the Committee that the lease is located at the distance of 310 m away from the boundary of Non-Notified Eco-Sensitive Zone and at the distance of 9.11 km from the boundary of Gir Wildlife Sanctuary, i.e. <10 km from the boundary of Gir Wildlife Sanctuary.
  - Committee deliberated on MoEFCC OM dated 08.08.2019 as well as MoEFCC letter dated 16.07.2020 vide no. 6-60/2020 WL Part(I) vide Clause 3 (ii) of letter addressed to Chief Secretaries of all states mentions as below:

*“ii. Proposals involving any activity/project located within 10 km of National Park/Wildlife Sanctuary wherein ESZ has not been finally notified and listed in the Schedules of EIA Notification 2006 and requiring environmental clearance, **Prior Clearance from Standing Committee Of the National Board for wildlife will be required.**”*

In view of the above, the Committee unanimously decided to defer the proposal in upcoming SEAC meeting upon submission of below mentioned details:

- a. Prior Clearance from Standing Committee of the National Board for Wildlife
- b. Distance map of the lease from the nearest boundary of the Gir Wildlife Sanctuary, approved by the District level Office of the Department of Forests, Gujarat.

- c. To produce credible documentary evidence stating the actual distance of the nearest village from the lease boundary by the competent Authority.

**4. FIRE CLAY MINING, DIST: SURENDRANAGAR - TOR VIOLATION - deferred on 09.07.2021**

Appli cation No	Name of Project	S. No.	Villa ge	Talu ka	Dist	Lea se Are a	Validi ty of lease	RO M	Near est Hum an Habit ation	End Use	Inves tment in Rs	Date of Applic ation Recei ved by SEAC
PMIN – 447	Mayurkan tDhirajlal Vyas, Fire Clay Quarry	Sur vey No. 17 1 pai ki	Son gad h	Than gadh	Surend ranagar	00.7 5.87 Ha	Leas e grant ed on 03.10 .1997 for 20 years , validit y exten dable up to 2030	14, 59 6 TP A	Song adh – 1.05 km	Constr uction	Rs.1 0 Lakh	31.05. 2021  Existi ng Lease – Opera ting since 1997  (earlie r EC applic ation date – 04.03. 2016)

The proposal was deferred in SEAC meeting dated 09.07.2021 and was rescheduled in the meeting dated 16.07.2021. The consultant of the PP, Shri Dipen Trivedi has intimated through E-Mail dated 11.07.2021 that the PP Shri Mayurkant D. Vyas is still engaged with the medical issues of his family member and hence can't attend the meeting. Looking to the repeated (twice) absenteeism in the SEAC meetings, Committee unanimously decided to recommend the proposal to SEIAA for delist.

## 5. RIVERBED SAND MINING, DIST: SABARKANTHA - TRANSFER OF EC

Application No	Name of Project	S.No.	Village	Taluka	Dist	Lease Area	Validity of lease	ROM	Date of Application Received by SEAC	
SIA/GJ/MIN/207535/2021	<p><b>New</b> Harinarayan Singh Udainarayan Singh Chouhan</p> <p><b>Old</b> ParmarNareshkumarBharatbhai</p>	- - -	Sabarmati Riverbed	Dedharota	Himmatnagar	Sabarkantha	<p>New – 4.92.00 Ha</p> <p>Old – 6.00.00 Ha</p>	<p>Lol issued on 12.11.2020 for 5 years</p>	6500 MT/Month	-

- Shri Mahendra Sadaria from M/s. San Envirotech Pvt. Ltd. remained present in the meeting on behalf of PP.
- He informed the Committee that the PP (Parmar Nareshkumar Bharatbhai) has obtained EC vide SEIAA letter no. SEIAA/GUJ/EC/1(a)/3506/2015, dated 31.08.2015 for mining of Riverbed Sand from Survey no. Sabarmati Riverbed, Village – Dedharota, Taluka – Himmatnagar, District – Sabarkantha for 6.00.00 Ha area.
- Shri Mahendrabhai informed the Committee that the Lessee has not started mining activity at the above said location and due to un-utilization, Department of Geology & Mining, Sabarkantha has re-allotted the mine to Shri Harinarayan Singh Udainarayan Singh Chouhan through auction held on 01.10.2020 by issuing the Letter of Intent vide letter no. GEO/Lease/Auction/OSD/SAB/2020-2021/003, dated 12.11.2020 for mine area of 4.92 Ha for mining of Riverbed Sand at survey no. Sabarmati Riverbed at Dedharota, Himmatnagar, Sabarkantha for 5 years.
- Shri Mahendrabhai also presented the Land Sketch for revised District Land Record (DLR) validated by Collector, Himmatnagar.
- The PP has submitted the Affidavit of the Transferor for No Objection of transfer of EC and the same of Transferee stating to abide the conditions stipulated in the EC issued on 31.08.2015.

In view of the above, the Committee unanimously decided to recommend the proposal to SEIAA for transfer of EC issued vide SEIAA letter no.

SEIAA/GUJ/EC/1(a)/3506/2015, dated 31.08.2015 for mining of Riverbed Sand from Survey no. Sabarmati Riverbed, Village – Dedharota, Taluka – Himmatnagar, District – Sabarkantha for 4.92 Ha in the name of **Shri Harinarayan Singh Udainarayan Singh Chouhan instead of Shri Parmar Nareshkumar Bharatbhai** with all stipulated conditions of EC remain unchanged.

#### 6. ORDINARY SAND MINING, DIST: CHHOTAUDEPUR

Application No	Name of Project	S.No	Village	Taluka	Dist	Lease Area	Validity of lease	River	ROM	Nearst Human Habitation	End Use	Investment in Rs	Date of Application Received by SEAC
SIA/GJ/MIN/62854/2021	MENDPARA SANJAYBHAI D	Survey No. 206 ne lagu Orsang river bed	Vadadli	Sankheda	Chhotaudepur	2.50.00 Ha	Loi issued on 18.01.2021	Orsang	39,180 MTPA	Govindpura – 0.55 km	Construction	Rs.71,07,256/-	05.07.2021  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.206 ne lagu Orsang river bed, Village-Vadadli, Taluka-Sankheda, District-Chhotaudepur, State: Gujarat
3.	Name of lease holder	<b>MENDPARA SANJAYBHAI D</b>
4.	Lease area (Ha)	<b>2.50.00Ha.</b>
5.	Cluster Details	applicable
	a. Total no. of leases in the cluster	88
	b. No. of TOR granted in cluster	0
	c. No. of EC granted in cluster	57
	d. Total area of the cluster	230.91.91ha.
	e. Maximum individual lease area	7.46.60 ha.
	f. Minimum individual lease area	0.70.78 ha.
6.	Validity of lease with the date of expiry	• LOI No. GCU/Auction/Minor/Ordinary


		Sand/Chhotaudepur/2020/449, 18/01/2021	Date	
7.	Rate of Mining (MT/Annum)	39,180 MT		
8.	Details of EC obtained (for expansion projects), if any	--		
9.	Name of River Bed	Orsang 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>Longitude</b>		
		1	22° 08'27.67"N	73°31'33.84"E
		2	22° 08'27.86"N	73°31'39.72"E
		3	22° 08'32.83"N	73°31'38.60"E
4	22° 08'32.67"N	73°31'32.62"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. 20.94 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)	355 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)	no		
	If yes, status report of CGWA			
23.	Distance between lease and main road	4.27 km from SH 158		
24.	Length of kaccha road (m)	5.9 mtr		
25.	Length of pacca road (m)	7.6 mtr		
26.	Plan for making pacca road	Pucca road from mining site to Village Road – 0.68 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>B. Environmental Sensitivities:</b>				

Sr NO	Environmental Sensitivities	Actual Distance	Minimum Distance	Reference
1.	Residential	Govindpura – 0.55 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	Govindpura – 0.55 km.		As per order of NGT before Principal Bench in the O.A. NO 85/2018 ( WZ) dtd 30.09.2020
	Inhabited sites	Govindpura – 0.55 km.		
2.	A. Major Bridge	No such area available within 1km. from the proposed project site	1 km	On both sides of the lease (as per Sustainable Sand Mine Guideline of MOEF&CC)
	B. Highway	No such area available within 1km. from the proposed project site	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 )	No such area available within 500 meter from the proposed project site	a.5X in upstream or 250 m. b.10X in down stream or 500 m	As per Sustainable Sand Mine Guideline of MOEF&CC
4.	Public Structure including water intake wells	No such area available within 500 meter from the proposed project site	a.5X in upstream or 250 m. b.10X in down stream or 500 m	As per Sustainable Sand Mine Guideline of MOEF&CC
5.	Depth of working	1M	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	20.94 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	39,180 MT	60,000 MTPA Per Hectare	As per Sustainable Sand Mine Guideline of MOEF&CC
8.	Water supply Scheme/Irrigation structure	No such area available within 200 meter from the proposed project site	200 M	As per Sustainable Sand Mine Guideline of MOEF&CC
9.	Railway Line	Sankheda Railway Station: 7.54 km	100 M	As per Sustainable Sand Mine Guideline of MOEF&CC
10.	Reservoir/Canal	No such area available within 50 meter from the proposed project site	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	Pucca road from mining site to Village Road – 0.68 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)	Jambughoda Wildlife Sanctuary – 23.52 km. Shoolpaneshwar Wildlife Sanctuary – 33.69 km.	>1 km / outside the notified Eco-Sensitive Zone	Vide directives of MOEF&CC dtd 16.07.2020

13.	Eco-Sensitive Zone (if not notified)	No such area available within 15 km. from the proposed project site	>1 km and <10 km = Prior Clearance from NBWL is required	Vide directives of MOEF&CC 16.07.2020
14.	Distance of Coastal line from the site	No such area available within 15 km. from the proposed project site	>500 M from HTL	Amended CRZ Notification 2011

**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)	 <pre> graph TD     A[Surface Mining] --&gt; B[Site Preparation (Pole Marking)]     B --&gt; C[Excavation And Loading]     C --&gt; D[Haulage And Transportation] </pre>
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?	We have Submitted Replenishment Study report is approved by District Geologist

	If yes, conclude in brief	After EIA.
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**D. Details of Green Belt Development:**

1.	a. Green belt development budget	33,000/-
	b. Green belt area / location	Plantation will be carried out near mining lease area either on riverbank.
	c. No. of trees to be planted	500
	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>	<ul style="list-style-type: none"> <li>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 &amp; unloading of Ordinary Sand and transportation and 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.</li> <li>In order to mitigate fugitive dust emissions and other air emissions from the project activities, the following measures are proposed to be adopted.</li> </ul>	<ul style="list-style-type: none"> <li>Safe handling practices be adopted to minimize the creation of dust and handling will be limited during windy conditions.</li> <li>Water sprinkling system will be provided in the mine area.</li> <li>Transportation of Ordinary Sand will be in covered vehicles to prevent fugitive dust emission.</li> <li>Speed limit of Truck/trolley will be restricted to 20 Km/h.</li> <li>Plantation will be done around the mine and along the roads.</li> <li>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;</li> <li>The road will be properly maintained. Periodical monitoring of Air quality will be done to adopt corrective actions needed.</li> </ul>
2	<b>NOISE ENVIRONMENT</b>	<ul style="list-style-type: none"> <li>There is no continuous source of noise generation from mining activity.</li> <li>Noise generation in mining is</li> </ul>	<ul style="list-style-type: none"> <li>The equipment/machinery will be used during daytime only.</li> </ul>

	<p>due to (1) Vehicle movements (running of trucks.</p> <ul style="list-style-type: none"> <li>• Baseline Noise levels are observed to be well within the prescribe standard of CPCB in the monitored villages</li> </ul>	<ul style="list-style-type: none"> <li>• Proper preventive maintenance of noise generating machinery including transport vehicles.</li> <li>• Plantation will be taken up along the approach roads. The plantation minimizes propagation of noise and also arrests dust.</li> <li>• Greenbelt development will be done to reduce ambient noise in the buffer zone of the operations by providing a natural barrier</li> <li>• 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 to be less than 80 dBA in the working of the mine</li> </ul>
<p><b>3. BIOLOGICAL ENVIRONMENT</b></p>	<ul style="list-style-type: none"> <li>• 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.</li> <li>• 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.</li> <li>• Due to sparse vegetation in the surrounding area, there is insignificant fauna in the immediate vicinity; hence, no adverse impact is anticipated.</li> </ul>	<ul style="list-style-type: none"> <li>• 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.</li> <li>• 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</li> </ul>

		<p>of animals, which will also help in conservation of fauna.</p> <ul style="list-style-type: none"> <li>• The following specific mitigation measures may help in providing a cleaner environment.</li> <li>• <b>Fauna</b> - 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.</li> <li>• <b>Forest Area</b> - No forest area in the ML area. Impact is not anticipated. So, measures are not required.</li> </ul>
<p><b>4. LAND ENVIRONMENT</b></p>	<ul style="list-style-type: none"> <li>• Generation of Over Burden / Rejects / Hazardous Waste, If any.</li> <li>• Generation of MSW and Incidental waste.</li> <li>• Land contamination (by Diesel, oil etc.).</li> </ul>	<ul style="list-style-type: none"> <li>• No over burden or waste will be generated during mining activity.</li> <li>• It is an Ordinary Sand mining project; no mine waste generation is anticipated.</li> <li>• Workers will be hired locally to avoid permanent housing at site, thus the MSW waste generation will be minimized.</li> <li>• 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.</li> <li>• Equipments will be regularly serviced and inspected to make sure there are no leaks of oil, diesel, fuel, detergents or hydraulic fluids.</li> <li>• No night parking of vehicles in the mining lease area.</li> </ul>

		<ul style="list-style-type: none"> <li>The depth of mining shall be restricted to 3 m/water level, whichever is less</li> </ul>
<b>5. WATER ENVIRONMENT</b>	<ul style="list-style-type: none"> <li>Mining is generally carried out to a sufficient depth from the surface.</li> <li>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.</li> <li>There are no streams or nallahs passing through the project site.</li> </ul>	<ul style="list-style-type: none"> <li>Make shift toilets will be made available to the workers near project site.</li> <li>No disposal of sewage will occur on or near the site.</li> <li>Toilets will be provided by the proponent in accordance with DW &amp; S requirements.</li> <li>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.</li> <li>Maximum mining will be 3 meters and ground water table is around 65 meter hence working will not intersect ground water table.</li> <li>No major natural drainage is observed in the mining lease areas.</li> <li>Suitable garland drainage system shall be provided to prevent surface water from entering into mines directly, to reduce soil wash off.</li> </ul>
<b>6. SOCIOECONOMIC ENVIRONMENT</b>	<ul style="list-style-type: none"> <li>The mining activity will generate socio-economic benefits to the people. In mining activity number of skilled and unskilled workers is employed 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.</li> </ul>	<ul style="list-style-type: none"> <li>Employment opportunities will improve the overall economic development of the labours.</li> <li>Laborers will be provided with onsite basic first aid (first aid box) facility and personal protective equipments (PPE) viz. Face masks, safety shoes etc.</li> <li>First Aid facility and training to workers.</li> <li>Provisions of rest</li> </ul>

	<p>will improve in the surrounding areas.</p> <ul style="list-style-type: none"> <li>• 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.</li> </ul>	<p>shelter for mine workers with facility of drinking water.</p> <ul style="list-style-type: none"> <li>• Workmen compensation policy.</li> <li>• Awareness on safety and ensure using of personal protective equipments (PPE) by workers.</li> <li>• Regular maintenance and testing of equipments. Periodical medical examination of all workers and its record will be maintained.</li> </ul>
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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	Status of Access road	Type	Width of road
		Kachha Road from mining site Nearest	Kachcha road	18 foot
		Pucca road from mining site to Village Road – 0.68 km.	Pucca road	20 foot

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

1.	Total cost of the project (Lakh)	<b>71,07,256 /-</b>
	a. Upfront cost (Lakh)	94,032/-
	b. Performance Security (Lakh)	3,76,128/-
	c. Total Royalty (Lakh)	<b>32,69,179/-</b>
	d. Weigh Bridge Cost (Lakh)	1,50,000
	e. Labor cost equipment & f. Equipment protection and implementation cost (Lakh)	25,00,000/-
	g. Green Belt Development & maintenance cost (Lakh)	33,000
	h. Cost of EMP (Lakh)	1,78,000
	i. Cost of Safety measures (Lakh)	1,80,000
	j. Cost of Post-Closure Mine Plan (Lakh)	--
2.	Budget allocated for CER (Lakh)	<b>1,42,150 /-</b>

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. 71,07,256/-</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>
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**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 1316, Fortune Business Hub, Nr. Science City Road , Sola, Ahmedabad – 380060 Mobile No. – 8866644142
7.	Name	
8.	Address	
9.	Contact no.	
10.	Email Id	

**Deliberation:**

- Shri Zalak from M/s. Alep Management LLP presented the details of the project before the Committee on behalf the PP during SEAC meeting dated 16.07.2021 and he has submitted the Authorization letter for same.
- Committee deliberated on method of mining, rate of mining, cluster situation, no. of working hours and no. of workers, EMP, CER budget and its activities, Green belt development etc.
- Shri Zalakbhai informed the Committee that the proposal does not involve instream mining and presented a few satellite images of dry riverbed of different months of the year.
- Distance of the lease from Environmental Sensitivities was also discussed and found as per the prescribed standards.

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

**7. LIMESTONE MINING, DIST: RAJKOT**

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
SIA/GJ/MIN/61351/2021	M/S SHREE DIGVI JAY CEMENT COMPANY LIMIT	675p1 & 675p12p1	Dhank	Uplata	Rajkot	64.281 Ha	Lol issued on 08.01.2021 for 50 years	15,00,000 TPA	Dhank – 5 km	Cement manufacturing plant	Rs.200 Lakh	28.06.2021 New Project

	ED (DHA NK SUB BLOC K C LIMES TONE MININ G PROJ ECT)												
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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 Limestone.

<b>A. Basic Information of the Project:</b>		
1.	Name of Project as per Form I	Mining of Limestone for 15,00,000 TPA in lease area of 64.281 Ha. at survey no. 675/p1 and 675p12p1, Village – Dhank, Taluka: Upleta District Rajkot, Gujarat State
2.	Address of the lease	Survey No.: 675/P1 and 675 P12P1 Village: Dhank Taluka: Upleta District: Rajkot
3.	Name of lease holder	Shree Digvijay Cement Co. Ltd
4.	Lease area (Ha)	64.281
5.	Cluster Details	Not applicable
	a. Total no. of leases in the cluster	
	b. No. of TOR granted in cluster	
	c. No. of EC granted in cluster	
	d. Total area of the cluster	
	e. Maximum individual lease area	
	f. Minimum individual lease area	
6.	Validity of lease with the date of expiry	Order No. MMR-102020-MM-496-CHH dated 08.01.2021 at 675p1 & 675p12p1 survey no. issued by the Govt. of Gujarat for a period of 50 years i.e. from 2021 to 2071
7.	Rate of Mining (MT/Annum)	15,00,000 TPA
8.	Details of EC obtained (for expansion projects), if any	Not applicable
9.	Name of River Bed	Not Applicable
10.	Is the river perennial / non-perennial?	Not applicable
11.	Lease area (submerged / in stream / on dry river bed)	Not applicable
12.	All coordinates of the lease area as per Approved Mining Plan	-

13.	Manpower requirement	307 nos.
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	Not applicable
17.	Maximum depth of sand removal (3 m or water depth whichever is less)	Mineral is Limestone
18.	Width of Riverbed (m)	Not applicable
19.	Average depth of water at lease area (m)	17.5 meters
20.	Depth of mining (m)	14 meter
21.	Ground Water Table in meter BGL	20 meter
22.	Does ground water interfere approach road exit? (Yes / No)  If yes, status report of CGWA	No
23.	Distance between lease and main road	18 kms – SH 97 (Nr Moti Paneli)
24.	Length of kaccha road (m)	7.3 kms from Eastern side of lease area
25.	Length of pacca road (m)	10.7 kms
26.	Plan for making pacca road	Strengthening of the same shall be done from time to time.
27.	Source of fresh water	From mining pit & surface water accumulated in depression areas. Bore well shall be drilled with due permission from CGWA for ground water abstraction.
28.	Water requirement (KLPD)	67 KLD Total
	a. Domestic	7.0
	b. Dust suppression	48.0
	c. Gardening / Green belt development	12.0
	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	2.41 km Malavada village	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	1.5 km		
	Inhabited sites			
	Protected monuments,	Not present in 10km area	Or	

	Heritage sites	Zinzudi ni zar Bikshuni vihar, Buddhist caves (Budhhist Temple – 4.77 Kms)	200 m (When Blasting is involved)	
	National / State Highway	7.3 km from SH 97		
	District roads	7.3 km from SH 97		
	Public roads	5.0 km Dhank Village		
	Railway line / area	Paneli Moti 8 km		
	Ropeway or Ropeway trestle or station	Not present in 10km area		
	Bridges	Not present in 10km area		
	Dams	5.77 km in North direction near Malvada		
	Reservoirs	5.77 km in North direction near Malvada		
	River	7.0 km in NE direction		
	Canal	5.77 km in North direction near Malvada		
	Lakes	5.77 km in North direction near Malvada		
	Tanks	-		
2.	Eco-Sensitive Zone (if notified)	Not present in 10km area	>1 km / outside the notified Eco-Sensitive Zone	Vide directives of MOEF&CC dtd 16.07.2020
3.	Eco-Sensitive Zone (if not notified)	Not present in 10km area	>1 km and <10 km = Prior Clearance from NBWL is required	Vide directives of MOEF&CC dtd 16.07.2020
4.	Distance of Coastal line from the site	Not present in 10km area	>500 M from HTL	Amended CRZ Notification 2011

**C. Details of Mining:**

1.	Method of Mining (Manual / Semi-mechanized / Mechanized).	opencast mechanized method of mining
2.	Equipments to be used for Mining bulldozers,	Ripper – Dozer and Excavator- Tipper

	hydraulic excavators, JCB, scrapers, loaders, Diesel Pump, etc.)	Combination
3.	Whether it includes blasting?	Drilling & Blasting shall also be practiced for relieving hard patches of limestone / hard rocks wherever encountered during mining
4.	Details of Authorized Blasting Agency with date of validity certificate	
5.	Procedure / SOP (in brief)	
6.	Details of Blasting Parameters in brief	
7.	Frequency of blasting	The 50% production of limestone (ROM) considered by Ripping-Dozing @30cm thick slices and remaining 50% production is envisaged by Drilling & Blasting.
8.	Impact of blasting	Detailed study will be given in EIA report
9.	Outcome of Vibration study	Detailed study will be given in EIA report
10.	Blasting Activity Management Plan	Detailed study will be given in EIA report
11.	Use of any Chemical with quantity	Detailed study will be given in EIA report
12.	Precautions taken for Human Safety in brief	Detailed study will be given in EIA report
13.	Crusher provided? If Yes, Measures taken for Air Pollution Control	No
14.	Compliance of DGMS Guidelines for Blasting	All stipulated conditions shall be complied.
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	2,50,000
	b. Green belt area / location	on Statutory barrier
	c. No. of trees to be planted	1000 sapling per year
	d. Types of trees to be planted	Local tree species

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

1.	Details of EMP	Impact	Mitigation Measures
	a. Land Environment b. Water Environment c. Air Environment d. Noise Environment e. Biological Environment f. Human Environment g. Others	Details will be given in EIA report	
2.	Occupational health & safety measures as per DGMS	Details will be given in EIA report	
3.	Safety measures proposed		
	a. Is First Aid facility provided by PP?	Shall be provided.	
	b. Details of PPEs	Helmet, Safety Shoes, Fluorescent Jacket, Dust Mask, Safety Goggles etc. (Details	

		shall be provided in EIA Report.
c.	Whether Registration of Workers under Building and other Construction Workers' (regulation of Employment & Conditions of Service) Act, 1996 and as Beneficiaries with the Gujarat Building and other Construction Workers Welfare Boards is obtained or not?	Not Applicable
d.	Insurance of Workers	Shall be complied with
e.	Health checkup plan of workers	Shall be complied with as per Mines Rules.

#### F. Transportation:

1.	No. of vehicles per day carrying Minerals	72
2.	Fugitive dust emission control measures	Modelling details will be provided in EIA study
3.	Route plan in brief	Details will be given in EIA report

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

1.	Total cost of the project (Lakh)	₹ 200
	a. Upfront cost (Lakh)	
	b. Performance Security (Lakh)	₹ 282.04576 (in the form of Bank Guarantee)
	c. Total Royalty (Lakh)	₹ 7400 (9.25 Million Tons @ Rs. 80/-Ton)
	d. Weigh Bridge Cost (Lakh)	₹ 10
	e. Labor cost equipment (Lakh)	₹
	f. Equipment protection and implementation cost (Lakh)	Nil (Proposed to deploy hired equipment)
	g. Green Belt Development & maintenance cost (Lakh)	₹ 25
	h. Cost of EMP (Lakh)	₹ 25
	i. Cost of Safety measures (Lakh)	₹ 20
	j. Cost of Post-Closure Mine Plan (Lakh)	₹ 20
2.	Budget allocated for CER (Lakh)	2% of 2 crore i.e. INR 4.0 Lakhs
3.	Is need based survey for CER carried out? (Yes / No)  If yes, give details of activities along with Budgetary Outlay	Details will be given in EIA report

#### H. Restoration / Reclamation Plan:

1.	Restoration / Reclamation Details	
2.	Post mining closure plan	
3.	Backfilling material and its quantity	Not Applicable no overburden
4.	Size of void for Rain Water Harvesting after backfilling	17.75 Hectares
5.	Post Closure Liability / Safety aspects and Measures to be taken to avoid wild life and human accidents/ casualties	3170 meters Fencing / safety bunds shall be provided around mine pit
6.	Display of Caution Boards at strategic locations on the periphery of the pit area	4 Caution Boards of size 4 feet X 3 feet shall be displayed at strategic location.

7.	Final Use of reservoir/ reclaimed land	Accumulated water shall be used by the community for agriculture.
<b>I. Details of Legal Action / Court Case:</b>		
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	None
4.	Compliance of EC by RO-GPCB or MoEFCC-Bhopal	Not applicable as this is fresh EC application
<b>J. Contact Details:</b>		
1.	<b>Contact details of Applicant</b>	
2.	Name	Anil Kumar Nigam
3.	Address	Shree Digvijay Cement Co. Ltd. Digvijaygram, Sikka 361 140 Jamnagar (Gujarat)
4.	Contact no.	7597284106
5.	Email Id	anil.nigam@digvijaycement.com
6.	<b>Contact details of Consultant</b>	
7.	Name	Mr. Sangram Kadam
8.	Address	Kadam Environmental Consultants
9.	Contact no.	8200911077
10.	Email Id	kadam@kadamenviro.com

### Deliberation:

- Ms. Mitaliben from M/s. Kadam Environmental Consultants presented the details of the project before the Committee on behalf the PP during SEAC meeting dated 16.07.2021 and he has submitted the Authorization letter for same.
- Committee deliberated on method of mining, rate of mining, cluster situation, no. of working hours and no. of workers, EMP, CER budget and its activities, Green belt development etc.
- Distance of the lease from Environmental Sensitivities was also discussed and found as per the prescribed standards.
- During the presentation, it was observed through the satellite images that the river stream was passing through the lease area for which Ms. Mitaliben informed the Committee that the stream seen nearby the lease area is a seasonal stream and not the perennial one.
- PP has submitted the Undertaking on 28.07.2021 stating below mentioned points:
  - There are two streams passing through the Block.

- A barrier of 15 mtrs on either side of the streams shall be kept intact for its protection.
- Mining shall not be carried out in the area covered by these streams.

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

- PP shall ensure that minimum of 15 m barrier on either side of the stream passing through the Block shall be kept intact and shall take all necessary measures to avoid any inflow of these stream waters (surface waters) into the mine pit and shall strictly follow the Undertaking submitted on 28.07.2021 in this regard.

#### 8. BLACK TRAP MINING, DIST: BHAVNAGAR

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
SIA/GJ/MIN/58116/2020	Son pari Block B - Black Trap Stone Mine by M/s. Jay Bhavani Stone	Survey No. 93 Paiki 3	Son pari	Palitana	Bhavnagar	5.00 Ha	Lol issued on 25.09.2018 for 30 years	94,000 MT PA	Son pari – 0.75 km	Construction	Rs.110 Lakh	28.06.2021  New project

	Cru sher											
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Owing to the technical / login issued at the PPs / Consultant end, the proposal was deferred in the SEAC meeting dated 19.07.2021.

#### 9. BENTONITE MINING, DIST: KUTCH – TOR Violation

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
SIA/GJ/MIN/63008/2021	Shri ValjiMithu Sanghar	418 pai ki	Vandh	Mandvi	Kutch	2.0 0.0 0 ha	Lease agree ment dated 04.08.2009 for 10 years	23.530 MT PA	Vandh – 1.61 km	Ce ment Industry	Rs.15 1 Lakh	05.07.2021  Existi ng Project

The PP has applied to withdraw the application online through Parivesh Portal on 16.07.2021. He informed the Committee that the acknowledgement slip is yet to be received for withdrawal of the application on E-Mail. Hence, the Committee unanimously decided to recommend the proposal to SEIAA for Delist.

#### 10. BENTONITE MINING, DIST: KUTCH

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
SIA/GJ/MIN/62548/2021	M/s Ashapura Export Private limited	236 Pai ki (Oid) & 42 3	Kotda (Madh)	Bhuj	Kutch	1.0 1.1 7 Ha	Lol issue d on 03.03.2020 for 10 years	66,732 MT PA	Kotda (Madh) – 2.91 km	Ce ment Industry	Rs.1,46,46,650/-	05.07.2021  New project

		(New) QL No - 17 78 3										
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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 Bentonite.

<b>A. Basic Information of the Project:</b>			
1.	Name of Project as per Form I	M/s Ashapura Export Private Limited	
2.	Address of the lease	Village:Kotda, Taluka: Lakhpat, District:Kutch State: Gujarat	
3.	Name of lease holder	M/s Ashapura Export Private Limited	
4.	Lease area (Ha)	1.01.17Ha.	
5.	Cluster Details		
	a. Total no. of leases in the cluster	2	
	b. No. of TOR granted in cluster	Not applicable	
	c. No. of EC granted in cluster	Not applicable	
	d. Total area of the cluster	8.01.17 Ha.	
	e. Maximum individual lease area	8.00.00Ha.	
	f. Minimum individual lease area	1.01.17Ha.	
6.	Validity of lease with the date of expiry	10 Years from the date of LOI Issued.	
7.	Rate of Mining (MT/Annum)	66,732	
8.	Details of EC obtained (for expansion projects), if any	Nil	
9.	Name of River Bed	Not applicable	
10.	Is the river perennial / non-perennial?	Not applicable	
11.	Lease area (submerged / in stream / on dry river bed)	Not applicable	
12.	All coordinates of the lease area as per Approved Mining Plan	Pillars	<b>GPS Co-ordinate's</b>
		1	23°29'23.62"N 68°56'40.60"E
		2	23°29'23.50"N 68°56'43.30"E
		3	23°29'21.30"N 68°56'43.20"E
		4	23°29'19.70"N 68°56'40.00"E
		5	23°29'22.60"N 68°56'40.40"E
		6	23°29'19.60"N 68°56'43.10"E
13.	Manpower requirement	10	
14.	Applicability of CRZ Notification	Not applicable	
15.	Minimum Setback distance proposed to be maintained from River Bed (m)	Not applicable	
16.	Minimum buffer distance from bridge	Public Road Bridge- 3.36 Km	

	piers / water intake wells / irrigation structures	
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)	28 M- 32 M
20.	Depth of mining (m)	16 m
21.	Ground Water Table in meter BGL	28 M- 32 M
22.	Does ground water interfere approach road exit? (Yes / No) If yes, status report of CGWA	No
23.	Distance between lease and main road	2.75Km
24.	Length of kaccha road (m)	1.00Km
25.	Length of pacca road (m)	
26.	Plan for making pacca road	No
27.	Source of fresh water	Drinking water will be Purchase from nearby water suppliers. And for the dust suppression and plantation will be Purchase from nearby tanker suppliers
28.	Water requirement (KLPD)	Total –2.55KLD
	a. Domestic	0.4 KLD
	b. Dust suppression	1.35 KLD
	c. Gardening / Green belt development	0.80KLD
	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	Kotda (Madh) –2.91 KM	100 m  (Blasting is not involved)	As per CPCB Distance Criteria And order of of NGT before Principal Bench in the O.A. NO 85/2018 ( WZ) dtd 30.09.2020
	Public buildings	Primary school- 2.99 KM		
	Inhabited sites	Kotda (Madh) –2.91 KM		
	Protected monuments,	Mata No Madh Temple- 5.72 KM		
	Heritage sites	Lakhpat Fort – 40.07 Km		
	National / State Highway	SH 42- 3.91 Km NH 8A- 22.43 Km		

	District roads	3.91 KM		
	Public roads	2.75 KM		
	Railway line / area	29.87Km		
	Ropeway or Ropeway trestle or station	Naliya Railway station- 32.32 Km		
	Bridges	Public Road Bridge- 3.36 Km		
	Dams	Nil		
	Reservoirs	Nil		
	River	Seasonal Stream- 3.52 Km		
	Canal	Nil		
	Lakes	Nil		
	Tanks	Nil		
2.	Eco-Sensitive Zone (if notified)	Distance of Bustard wildlife Sanctuary Eco Sensitive zone is About 132.62Km	>1 km / outside the notified Eco-Sensitive Zone	Vide directives of MOEF&CC dtd 16.07.2020
3.	Eco-Sensitive Zone (if not notified)	Not Applicable	>1 km and <10 km = Prior Clearance from NBWL is required	Vide directives of MOEF&CC dtd 16.07.2020
4.	Distance of Coastal line from the site	47.52 Km	>500 M from HTL	Amended CRZ Notification 2011
5.	Riparian Vegetation, Endemic/ endangered species (Flora and Fauna)	No such vegetation exists		

**C. Details of Mining:**

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

3.	Whether it includes blasting?	Not Applicable
4.	Details of Authorized Blasting Agency with date of validity certificate	Not Applicable
5.	Procedure / SOP (in brief)	Not Applicable
6.	Details of Blasting Parameters in brief	Not Applicable
7.	Frequency of blasting	Not Applicable
8.	Impact of blasting	Not Applicable
9.	Outcome of Vibration study	Not Applicable
10.	Blasting Activity Management Plan	Not Applicable
11.	Use of any Chemical with quantity	Not Applicable
12.	Precautions taken for Human Safety in brief	Not Applicable
13.	Crusher provided? If Yes, Measures taken for Air Pollution Control	Not Applicable
14.	Compliance of DGMS Guidelines for Blasting	Not Applicable
15.	Compliance of Sustainable Sand Mine Guidelines published by MoEFCC in 2016	Not Applicable
16.	Whether Replenishment Rate Study is approved by District Geologist? If yes, conclude in brief	No

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

1.	a. Green belt development budget	
	b. Green belt area / location	Along the statutory barrier and at approach road
	c. No. of trees to be planted	101
	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 28-32meter.</li> <li>❖ Mining will be done till depth of 16 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 1,05,300 per year for sprinkling to internal road, loading point all transfer points.</li> <li>❖ Proponent will develop green belt</li> </ul>

			<p>around the lease area with Rs 25,250 and will spend Rs 5000 per year for the maintenance and replenishment of the plants.</p> <ul style="list-style-type: none"> <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 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	3
2.	Fugitive dust emission control measures	Attached road with lease shall be sprinkle with water daily to prevent fugitive emission during vehicular. Speed of vehicle will only restrict to the 20 km/hour on Kutcha road
3.	Route plan in brief	Kachha road is 1.00about connected with metallic roadMiyani to local MDR road connected with state Highway-42.
<b>G. Financial details of the Project:</b>		
1.	Total cost of the project (Lakh)	2.45 Cr
	a. Upfront cost (Lakh)	Nil
	b. Performance Security (Lakh)	Nil
	c. Total Royalty (Lakh)	0.89Cr
	d. Weigh Bridge Cost (Lakh)	8.0 Lakh
	e. Labor cost equipment (Lakh)	Labor cost- 45 lakh Equipment- 78 Lakh
	f. Environment protection and implementation cost (Lakh)	10.26 lakh
	g. Green Belt Development & maintenance cost (Lakh)	0.50 lakh
	h. Cost of EMP (Lakh)	----
	i. Cost of Safety measures (Lakh)	5.0 lakh
	j. Cost of Post-Closure Mine Plan (Lakh)	9.28 Lakh
2.	Budget allocated for CER (Lakh)	2.97 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	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 60 % &amp; 40 % OB will be generated through the mining about 61,823 MT which will be used for back filling in the bench space.</li> <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.
4.	Size of void for Rain Water Harvesting after backfilling	--
5.	Post Closure Liability / Safety aspects and Measures to be taken to avoid wild life and human accidents/ causalities	I. Will be fenced around the water reservoir area. II. 7.5-meter-thick green belt will be developed around the statutory barrier. Slop of 45 degree will be maintained in the pit.
6.	Display of Caution Boards at strategic locations on the periphery of the pit area	yes
7.	Final Use of reservoir/ reclaimed land	Water Harvesting
<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	M/s Ashapura Export Privet Limited
3.	Address	R/o-Post Box No.-19, Near Old Railway Station AtmaramCirecle Taluka Bhuj, Dist.- Kutch,
4.	Contact no.	7985097454
5.	Email Id	ashapuramine1@gmail.com
6.	<b>Contact details of Consultant</b>	
7.	Name	Vinay Kumar singh
8.	Address	209 Pramukh Corporate Raysan Gandhinagar -38007.
9.	Contact no.	8141500945
10.	Email Id	Vinugeo007@gmail.com

### Deliberation:

- The representative from M/s. Cognizance Research India Private Ltd. remained present in the meeting on behalf of PP and he has submitted the Authorization letter for same.
- Committee deliberated on method of mining, rate of mining, no. of working hours and workers, cluster details, use of mineral, transportation of the mined mineral and distance of approach road from the lease area etc.
- The location of the lease w.r.t. Environmental Sensitivities and found as per the criteria prescribed by CPCB etc.
- During the presentation, Environmental Management Plan, Restoration / reclamation plan, CER activities and its budget, green belt development etc. was discussed.
- It was noted by the Committee that the mining of bauxite in this proposal does not include blasting.

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.**

#### 11. BLACK TRAP MINING, DIST: SURENDRANAGAR – TOR Violation

Application No	Name of Project	S.No.	Village	Taluka	Dist	Lease Area	Validity of lease	R O M	Nearest Human Habitation	End Use	Investment in Rs	Date of Application Received by SEAC
SIA/GJ/M IN/57134/2020	Shri Virjibhai Mohan Patel	Govt. Land Survey No.-66 Paiki (QL No. AGSU/QL/R ENEW/700/4985)	Mota Madhad	Wadhwan	Suren dranagar	2.00 .00 Ha	Lease agree ment dated 15.10.2008, Eligible for extension up to 2030	1, 2, 6, 3, 1, 9 M T P A	Ma dha d – 2m	Con struc tion	Rs. 50 Lak h	06.07.2021  Exist ing proj ect

The PP has withdrawn the application online through Parivesh Portal on 10.07.2021. Hence, Committee unanimously decided to recommend the proposal to SEIAA for delist.

#### 12. ORDINARY SAND MINING, DIST: SABARKANTHA

Application No	Name of Project	S.No.	Village	Taluka	Dist	Lease Area	Validity of lease	River	R O M	Nearest Human Habitation	End Use	Investment in Rs	Date of Application Received by
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SIA/GJ/MIN/62865/2021	VAGHPUR ORDINARY SAND BLOCK NO. 11 (SHRI PRAVINBHAI RAGHAVBHAI VIRANI)	Survey No. 344 ne lagu Sabarmati Riverbed	Vaghpur	Prantij	Sabarkantha	2.80.00 Ha	LoI issued on 26.12.2019 for 5 years	Sabarmati	27,978 MTPA	Vaghpur village – 3.55 km	Constructions	Rs.63.77 Lakh	05.07.2021  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 VAGHPUR BLOCK – 11 on the Sabarmati River, near Village: - Vaghpur, Taluka: - Prantij, District: - Sabarkantha, State: - Gujarat
2.	Address of the lease	Survey No.: 344 ne lagu Sabarmati Riverbed Village: Vaghpur, Taluka: Prantij District: Sabarkantha
3.	Name of lease holder	Shree Pravinbhai Raghavbhai Virani
4.	Lease area (Ha)	2.80.00 Ha
5.	Cluster Details	
	a. Total no. of leases in the cluster	182
	b. No. of TOR granted in cluster	75
	c. No. of EC granted in cluster	70
	d. Total area of the cluster	506.76.61 Ha
	e. Maximum individual lease area	9.75.00 Ha
	f. Minimum individual lease area	0.34.50 Ha
6.	Validity of lease with the date of expiry	5 Years from the date of lease deed
7.	Rate of Mining (MT/Annum)	27978 MTPA
8.	Details of EC obtained (for expansion projects), if any	NA

9.	Name of River Bed	Sabarmati River Bed		
10.	Is the river perennial / non-perennial?	Non - Perennial		
11.	Lease area (submerged / in stream / on dry river bed)	2.80.00 Ha		
12.	All coordinates of the lease area as per Approved Mining Plan	Point	Latitude	Longitude
		A	23°30'03.0638"N	72°47'59.4619"E
		B	23°30'00.3838"N	72°47'58.3568"E
		C	23°30'03.4210"N	72°47'48.1396"E
		D	23°30'06.3725"N	72°47'48.0632"E
13.	Manpower requirement	10-15		
14.	Applicability of CRZ Notification	NA		
15.	Minimum Setback distance proposed to be maintained from River Bed (m)	Minimum Setback distance from riverbank is maintained up to 10m.		
16.	Minimum buffer distance from bridge piers / water intake wells / irrigation structures	As per mining rules the minimum buffer distance to be maintained is 500 m from the bridge piers/water intake wells/ irrigation structures. All the above said structures are more than 500 m away from lease area		
17.	Maximum depth of sand removal (3 m or water depth whichever is less)	Maximum Depth of sand removal 1 m		
18.	Width of Riverbed (m)	710 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)	0.6 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	1.82km		
24.	Length of kaccha road (m)	1.20 km		
25.	Length of pacca road (m)	1.82 km		
26.	Plan for making pacca road	No		
27.	Source of fresh water	Water Tankers		
28.	Water requirement (kLPD)	4 KLD		
	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
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**B. Environmental Sensitivities:**

Sr NO	Environmental Sensitivities	Actual Distance	Minimum Distance	Reference
1.	Residential	Vaghpur Village 3.55 km, South-east	100 m  (When Blasting is not involved)	As per order of NGT before Principal Bench in the O.A. NO 85/2018 ( WZ) dtd 30.09.2020
	Public buildings	Mahudi Temple 1.90 km, South-west Atul Poly Technic College -3.41 km, North-west		As per order of NGT before Principal Bench in the O.A. NO 85/2018 ( WZ) dtd 30.09.2020
	Inhabited sites	Not in 10 km of study area		
2.	A. Major Bridge	Lakroda Dam – 6.15 km, South-east	1 km	On both sides of the lease (as per Sustainable Sand Mine Guideline of MOEF&CC)
	B. Highway	NH- 8- 9.87 km East SH No. 138 – 5.94 km, South	1 km	On both sides of the lease (as per Sustainable Sand Mine Guideline of MOEF&CC)
OR				
3.	Bridge(Span of Bridge as X )	Not in 10 km of project study area	c.5X in upstream or 250 m. d.10X in down stream or 500 m	As per Sustainable Sand Mine Guideline of MOEF&CC

4.	Public Structure including water intake wells	Not in 10 km of project study area	c.5X in upstream or 250 m. d.10X in down stream or 500 m	As per Sustainable Sand Mine Guideline of MOEF&CC
5.	Depth of working	0.6 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	27978MTPA	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 – 7.04 km, West	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 – 1.90 km, South-West	100 M	As per CPCB Distance Criteria And order of of NGT before Principal Bench in the O.A. NO 85/2018 ( WZ) dtd 30.09.2020
12.	Eco-Sensitive Zone (if notified)	Not in 10 km of project area	>1 km / outside the notified Eco-Sensitive Zone	Vide directives of MOEF&CC dtd 16.07.2020

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

**C. Details of Mining:**

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

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

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

others as suggested by SPCB/Forest Department

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

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

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

**F. Transportation:**

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

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

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

1.	Total cost of the project (Lakh)	Rs. 63,77,194/-				
	a. Upfront cost (Lakh)	Rs. 75,096/-				
	b. Performance Security (Lakh)	Rs. 3,75,478/-				
	c. Total Royalty (Lakh)	Rs. 11,19,120/-				
	d. Weigh Bridge Cost (Lakh)	Rs. 4,50,000				
	e. Labor cost equipment (Lakh)	Rs. 16,87,500/-				
	f. Equipment protection and implementation cost (Lakh)	Rs. 24,00,000/-				
	g. Green Belt Development & maintenance cost (Lakh)	Rs.1,00,000/- capital cost Rs.20,000/- recurring cost				
	h. Cost of EMP (Lakh)	Rs.3,00,000/-				
	i. Cost of Safety measures (Lakh)	Rs.3,00,000/-				
j. Cost of Post-Closure Mine Plan (Lakh)	-					
2.	Budget allocated for CER (Lakh)	Rs.3,00,000/- (Three Lakh) as principal amount and 50,000/- (Fifty thousand) as recurring amount has been allotted for Environmental management plan. It is proposing to invest ~Rs.3,00,000/- for social environmental development over a period of next 3 years, to be considered for implementing the activities in the context of the local scenario of the area as a part of EMP. Proposed Heads are as below.				
3.	Is need based survey for CER carried out? (Yes / No)  If yes, give details of activities along with Budgetary Outlay	SN	Activity	Budget		
				1st year	2nd year	3rd year
		1	Plantation of Trees in Nearby Area	40,000	30,000	30,000
		2	Drinking water in villages	20,000	20,000	20,000
		3	Health checkuptwice year (in winter & summer) & supply of medicine	50,000	50,000	40,000
	total	1,10,000	1,00,000	90,000		

**H. Restoration / Reclamation Plan:**

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

**I. Details of Legal Action / Court Case:**

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

**J. Contact Details:**

1.	<b>Contact details of Applicant</b>	
2.	Name	Shree Pravinbhai Raghavbhai Virani
3.	Address	214, KHODIYARNAGAR SOCIETY, SUDAMA CHOWK, MOTA VARACHHA, CHORASI, SURAT, GUJARAT-394101
4.	Contact no.	9537533695
5.	Email Id	Viranipravin44@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.	9674488198/7777065675
10.	Email Id	Kolkata@ultratech.in

### Deliberation:

- Shri Arun Kumar from M/s. ULTRATECH ENVIRONMENTAL CONSULTANCY AND LABORATORY presented the details of the project before the Committee on behalf the PP during SEAC meeting dated 16.07.2021 and he has submitted the Authorization letter for same.
- Committee deliberated on method of mining, rate of mining, cluster situation, no. of working hours and no. of workers, EMP, CER budget and its activities, Green belt development etc.
- Shri Arun Kumar informed the Committee that the proposal does not involve instream mining and presented a few satellite images of dry riverbed of different months of the year.
- Distance of the lease from Environmental Sensitivities was also discussed and found as per the prescribed standards.

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

### 13. ORDINARY SAND MINING, DIST: CHHOTAUDEPUR

Application No	Name of Project	S.No.	Village	Taluka	Dist	Lease Area	Validity of lease	River	ROM	Nearest Human Habitation	End Use	Investment in Rs	Date of Application Received by SEAC
SIA/GJ/MIN/60041/2021	Vankoli Ordinary Sand	(Block No. 03,) Survey	Vankoli	Jetpurpavi	Chhotaudepur	2.300 Ha	Lol issued on 05.1	Orsang	38,640 MTP	Vankoli – 0.59 km	Construction	Rs.88.86 Lakh	28.06.2021 New

	Block – 03  (PAN KAJB HAI BECH ARBH AI PATE)	No. 38, 39/2 Ne Lagu Orsang River Bed					2.20 19 for 5 years		A				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	Proposed Mining of River bed ordinary sand from VANKOL ORDINARY SAND BLOCK NO. 3 on the Orsang River near Village: - Vankol, Taluka: - Jetpurpavi, District: - Chhotaudepur, State: - Gujarat.	
2.	Address of the lease	Survey No.:38,39/2ne lagu OrsangRiverbed Village:Vankol Taluka: Jetpur Pavi District:Chhotaudepur	
3.	Name of lease holder	P.B Patel and Co, Shri Pankajbhai B. Patel	
4.	Lease area (Ha)	2.30.00 Ha	
5.	Cluster Details		
	a. Total no. of leases in the cluster	299	
	b. No. of TOR granted in cluster	15	
	c. No. of EC granted in cluster	186	
	d. Total area of the cluster	1167.78.46Ha	
	e. Maximum individual lease area	10.00.00Ha	
	f. Minimum individual lease area	00.28.00Ha	
6.	Validity of lease with the date of expiry	5Yearsfromthedateofleasedeed	
7.	Rate of Mining (MT/Annum)	38640MTPA	
8.	Details of EC obtained (for expansion projects), if any	NA	
9.	Name of River Bed	Orsang Riverbed	
10.	Is the river perennial / non-perennial?	Non-Perennial	
11.	Lease area (submerged / in stream / on dry river bed)	On dry river bed	
12.	All coordinates of the lease area as per Approved Mining	Pillar No.	Latitude Longitude

	Plan	1	22°20'8.60"N	73°51'11.70"E
		2	22°20'6.64"N	73°51'14.77"E
		3	22°19'59.99"N	73°51'13.63"E
		4	22°20'1.67"N	73°51'9.82"E
13.	Manpower requirement	15 No of manpower will be employed.		
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	No structures are found.		
17.	Maximum depth of sand removal (3 m or water depth whichever is less)	1 m		
18.	Width of Riverbed (m)	824.50 m		
19.	Average depth of water at lease area (m)	Dry River bed		
20.	Depth of mining (m)	1m		
21.	Ground Water Table in meter BGL	35to 40 m		
22.	Does ground water interfere approach road exit? (Yes / No)  If yes, status report of CGWA	No		
23.	Distance between lease and main road	0.71Km		
24.	Length of kaccha road (m)	0.39 km		
25.	Length of pacca road (m)	0.71Km		
26.	Plan for making pacca road	Making of approach road from mine to near village road on hired basis. Cost of making approach road:- Average Rs.1,20,000/- which is included in capital cost of EMP.		
27.	Source of fresh water	Well/Water Tanker		
28.	Water requirement (kLPD)	3.0		
	a. Domestic	0.50		
	b. Dust suppression	2.0		
	c. Gardening / Green belt development	0.50		
	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	Reference
1	Residential	Vankol Village 0.59 km, South	100 m	As per order of NGT before Principal Bench in the O.A. NO 85/2018 ( WZ) dtd 30.09.2020
	Public buildings	Govt. Hospital at Jetapur-1.70 km, North-west  Primary School at Vankolr-0.97 km, South	(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	Nonewithin1Km		
2	A. Major Bridge	NA	1 km	On both sides of the lease (as per Sustainable Sand Mine Guideline of MOEF&CC)
	B. Highway	SH-157 – 0.70 km, North	1 km	On both sides of the lease (as per Sustainable Sand Mine Guideline of MOEF&CC)
OR				
3.	Bridge(Span of Bridge as X )	NA	e.5X in upstream or 250 m. f. 10X in down stream or 500 m	As per Sustainable Sand Mine Guideline of MOEF&CC
4.	Public Structure including water intake wells	a. NA	e.5X in upstream or 250 m. f. 10X in down stream or 500 m	As per Sustainable Sand Mine Guideline of MOEF&CC

5.	Depth of working	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	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	38640MTPA	60,000 MTPA Per Hectare	As per Sustainable Sand Mine Guideline of MOEF&CC
8.	Water supply Scheme/Irrigation structure	NA	200 M	As per Sustainable Sand Mine Guideline of MOEF&CC
9.	Railway Line	Pavi Railway Station – 1.88 km, North-West	100 M	As per Sustainable Sand Mine Guideline of MOEF&CC
10.	Reservoir/Canal	NA	100 M	As per CPCB Distance Criteria And order of of NGT before Principal Bench in the O.A. NO 85/2018 ( WZ) dtd 30.09.2020
11.	Other Road	NA	100 M	As per CPCB Distance Criteria And order of of NGT before Principal Bench in the O.A. NO 85/2018 ( WZ) dtd 30.09.2020
12.	Eco-Sensitive Zone (if notified)	NA	>1 km / outside the notified Eco-Sensitive Zone	Vide directives of MOEF&CC dtd 16.07.2020
13.	Eco-Sensitive Zone (if not notified)	Jambughoda Wildlife Sanctuary-14.9 km North-West Ratanmahal Wildelfare Sanctuary-34.5 km North-East	>1 km and <10 km = Prior Clearance from NBWL is required	Vide directives of MOEF&CC dtd 16.07.2020
14.	Distance of Coastal line from the site	NA	>500 M from HTL	Amended CRZ Notification 2011

**C. Details of Mining:**

1.	Method of Mining (Manual / Semi-mechanized / Mechanized).	Semi Mechanized Opencast Mining
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
4.	Details of Authorized Blasting Agency with date of validity certificate	NA
5.	Procedure / SOP (in brief)	NA
6.	Details of Blasting Parameters in brief	NA
7.	Frequency of blasting	NA
8.	Impact of blasting	NA
9.	Outcome of Vibration study	NA
10.	Blasting Activity Management Plan	NA
11.	Use of any Chemical with quantity	NA
12.	Precautions taken for Human Safety in brief	NA
13.	Crusher provided? If Yes, Measures taken for Air Pollution Control	NA
14.	Compliance of DGMS Guidelines for Blasting	NA
15.	Compliance of Sustainable Sand Mine Guidelines published by MoEFCC in 2016	Yes
16.	Whether Replenishment Rate Study is approved by District Geologist?  If yes, conclude in brief	

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

1.	a. Green belt development budget	<ul style="list-style-type: none"> <li>Capital Cost:- Rs. 30,000/-</li> <li>Recurring Cost:- Rs. 15,000/-</li> </ul>
	b. Green belt area / location	A green belt area will be developed near block area and 50 trees will be planted and maintained during block period.
	c. No. of trees to be planted	50 trees
	d. Types of trees to be planted	Mainly local species such as Neem, Kada, Mango, Mahuda, Timarva will be planted.

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

1.	Details of EMP	Impact	Mitigation Measures
	a. Land Environment	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 of

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

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

**F. Transportation:**

1.	No. of vehicles per day carrying Minerals	50
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.88.86 Lakh
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	a. Upfront cost (Lakh)	Rs.1,91,902/-																							
	b. Performance Security (Lakh)																								
	c. Total Royalty (Lakh)	Rs.15,45,600/-																							
	d. Weigh Bridge Cost (Lakh)	Rs. 1,50,000/-																							
	e. Labor cost equipment (Lakh)	Rs.15,87,000/-																							
	f. Equipment protection and implementation cost (Lakh)	Rs.26,25,000/-																							
	g. Green Belt Development & maintenance cost (Lakh)	Rs. 1,50,000/-																							
	h. Cost of EMP (Lakh)	<ul style="list-style-type: none"> <li>CapitalCost:-Rs.95,000/-</li> <li>RecurringCost:-Rs.60,000 /-</li> </ul>																							
	i. Cost of Safety measures (Lakh)	<ul style="list-style-type: none"> <li>RecurringCost:-Rs.28,000/-</li> </ul>																							
	j. Cost of Post-Closure Mine Plan (Lakh)	Rs.1,00,00/-																							
<b>2.</b>	Budget allocated for CER (Lakh)	Rs.95,000/-																							
<b>3.</b>	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 rowspan="2">SN</th> <th rowspan="2">Activity</th> <th colspan="3">Budget</th> </tr> <tr> <th>1<sup>st</sup> year</th> <th>2<sup>nd</sup> year</th> <th>3<sup>rd</sup> year</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Plantation of Trees in Nearby Area</td> <td>15,000</td> <td>10,000</td> <td>10,000</td> </tr> <tr> <td>2</td> <td>Drinking water in villages</td> <td>10,000</td> <td>10,000</td> <td>10,000</td> </tr> <tr> <td>3</td> <td>Health check up twice year (in winter &amp; summer) &amp; supply of medicine</td> <td>20,000</td> <td>10,000</td> <td>10,000</td> </tr> </tbody> </table>	SN	Activity	Budget			1 <sup>st</sup> year	2 <sup>nd</sup> year	3 <sup>rd</sup> year	1	Plantation of Trees in Nearby Area	15,000	10,000	10,000	2	Drinking water in villages	10,000	10,000	10,000	3	Health check up twice year (in winter & summer) & supply of medicine	20,000	10,000	10,000
SN	Activity	Budget																							
		1 <sup>st</sup> year	2 <sup>nd</sup> year	3 <sup>rd</sup> year																					
1	Plantation of Trees in Nearby Area	15,000	10,000	10,000																					
2	Drinking water in villages	10,000	10,000	10,000																					
3	Health check up twice year (in winter & summer) & supply of medicine	20,000	10,000	10,000																					

**H. Restoration / Reclamation Plan:**

<b>1.</b>	Restoration / Reclamation Details	The area will be reclaimed during monsoon.
<b>2.</b>	Post mining closure plan	Area will be self-reclaimed
<b>3.</b>	Backfilling material and its quantity	NA
<b>4.</b>	Size of void for Rain Water Harvesting after backfilling	NA
<b>5.</b>	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
<b>6.</b>	Display of Caution Boards at strategic locations on the periphery of the pit area	Will be done as per GMMCR 2017
<b>7.</b>	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	P.B Patel and Co, Shri Pankajbhai B. Patel
3.	Address	D-9, SATKAR FLAT, K.K NAGAR ROAD, GHATLODIA, AHMEDABAD (GUJARAT)
4.	Contact no.	9624466166
5.	Email Id	pankankajpatel66166@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.	9674488198/7777065675
10.	Email Id	Kolkata@ultratech.in

**Deliberation:**

- During SEAC meeting dated **16.07.2021**, Shri Arun Kumar from M/s. ULTRATECH ENVIRONMENTAL CONSULTANCY AND LABORATORY presented the details of the project before the Committee on behalf the PP and he has submitted the Authorization letter for same.
- Committee deliberated on method of mining, rate of mining, cluster situation, no. of working hours and no. of workers, EMP, CER budget and its activities, Green belt development etc.
- Replenishment Rate of Ordinary Sand was also discussed and found satisfactory as it is 100% replenishment rate of the sand as mentioned in the Approved Mining Plan.
- Committee noted that the proposal does not involve instream mining through the satellite images presented during the presentation by the consultant.
- During the meeting, Committee noted that the lease is located within 1 km distance from State Highway, i.e. SH-157 is at the distance of 0.70 km.

- Committee deliberated on the distance criteria provided in Sustainable Sand Mine Guideline of MOEF&CC, which is as below:

*'Sand and gravel shall not be extracted up to a distance of 1 kilometre (1 km) from major bridges and highways on both sides, or five times (5x) of the span (x) of a bridge/public civil structure (including water intake points) on up-stream side and ten times (10x) the span of such bridge on down-stream side, subjected to a minimum of 250 meters on the upstream side and 500 meters on the downstream side.'*

In view of the above, Committee unanimously decided to consider the proposal in upcoming SEAC meeting upon submission of below mentioned details:

- a. Clear mention of the applicability of Distance of the lease w.r.t. five times (5x) of the span (x) of a bridge/public civil structure (including water intake points) on up-stream side and ten times (10x) the span of such bridge on down-stream side along with necessary satellite images depicting distance for the same.

#### 14. ORDINARY SAND MINING, DIST: SABARKANTHA

Application No	Name of Project	S.No.	Village	Taluka	Dist	Lease Area	Validity of lease	River	ROM	Nearest Human Habitation	End Use	Investment in Rs	Date of Application Received by SEAC
SIA/GJ/MIN/62773/2021	VAGHPUR ORDINARY SAND BLOCK NO. 19  (Brijesh Enterprise)	Survey No. 344 ne lagu Sabarmati Rivered	Vaghpur	Prantij	Sabarkantha	2.800 Ha	Lol issued on 16.01.20 for 5 years	Sabarmati	44,688 MTPA	Vaghpurvillage – 3.28	Construction	Rs.67.87 Lakh	06.07.2021  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	Mining of River bed ordinary sand from VAGHPUR BLOCK – 19 on the Sabarmati River, near Village: - Vaghpur, Taluka: - Prantij, District: - Sabarkantha, State: - Gujarat		
2.	Address of the lease	Survey No.: 344 ne lagu Sabarmati Riverbed Village: Vaghpur, Taluka: Prantij District: Sabarkantha		
3.	Name of lease holder	M/s Brijesh Enterprise C/o Bhupatray Savani		
4.	Lease area (Ha)	2.80.00 Ha		
5.	Cluster Details			
	a. Total no. of leases in the cluster	182		
	b. No. of TOR granted in cluster	75		
	c. No. of EC granted in cluster	70		
	d. Total area of the cluster	506.76.61 Ha		
	e. Maximum individual lease area	9.75.00 Ha		
	f. Minimum individual lease area	0.34.50 Ha		
6.	Validity of lease with the date of expiry	5 Years from the date of lease deed		
7.	Rate of Mining (MT/Annum)	44688 MTPA		
8.	Details of EC obtained (for expansion projects), if any	NA		
9.	Name of River Bed	Sabarmati River Bed		
10.	Is the river perennial / non-perennial?	Non - Perennial		
11.	Lease area (submerged / in stream / on dry river bed)	2.20.00 Ha		
12.	All coordinates of the lease area as per Approved Mining Plan	Point	Latitude	Longitude
		A	23°30'9.56" N	72°48'14.83" E
		B	23°30'8.11" N	72°48'11.44" E
		C	23°30'16.33" N	72°48'8.56" E
		D	23°30'15.56" N	72°48'14.00" E
13.	Manpower requirement	10-15		
14.	Applicability of CRZ Notification	NA		
15.	Minimum Setback distance proposed to be maintained from River Bed (m)	Minimum Setback distance from riverbank is maintained up to 10m.		
16.	Minimum buffer distance from bridge piers / water intake wells / irrigation structures	As per mining rules the minimum buffer distance to be maintained is 500 m from the bridge piers/water intake wells/ irrigation structures. All the above said structures are more than 500 m away from lease area		

17.	Maximum depth of sand removal (3 m or water depth whichever is less)	Maximum Depth of sand removal 1 m
18.	Width of Riverbed (m)	940 m
19.	Average depth of water at lease area (m)	In the Summer season water is not available in the mining area. In the monsoon season 3-4 m water is available in this area.
20.	Depth of mining (m)	1 m
21.	Ground Water Table in meter BGL	20-25m
22.	Does ground water interfere approach road exit? (Yes / No)  If yes, status report of CGWA	No
23.	Distance between lease and main road	2.52km
24.	Length of kaccha road (m)	1.76 km
25.	Length of pacca road (m)	2.52 km
26.	Plan for making pacca road	No
27.	Source of fresh water	Water Tankers
28.	Water requirement (kLPD)	4 KLD
	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 3.28 km, South-east	100 m  (When Blasting is not involved)	As per order of NGT before Principal Bench in the O.A. NO 85/2018 ( WZ) dtd 30.09.2020
	Public buildings	Mahudi Temple 2.49 km, South-west Atul Poly Technic College -3.83 km, West		As per order of NGT before Principal Bench in the O.A. NO 85/2018 ( WZ) dtd 30.09.2020

	Inhabited sites	Not in 10 km of study area		
2.	A. Major Bridge	Lakroda Dam – 6.30 km, South	1 km	On both sides of the lease (as per Sustainable Sand Mine Guideline of MOEF&CC)
	B. Highway	NH- 8- 9.33 km South-East SH No. 55 – 2.50 km, North-West	1 km	On both sides of the lease (as per Sustainable Sand Mine Guideline of MOEF&CC)
OR				
3.	Bridge(Span of Bridge as X )	Not in 10 km of project study area	a.5X in upstream or 250 m. b.10X in down stream or 500 m	As per Sustainable Sand Mine Guideline of MOEF&CC
4.	Public Structure including water intake wells	Not in 10 km of project study area	a.5X in upstream or 250 m. b.10X in down stream or 500 m	As per Sustainable Sand Mine Guideline of MOEF&CC
5.	Depth of working	1 m	1 M or water level whichever is early	As per order of NGT before Principal Bench in the O.A. NO 85/2018 ( WZ) dtd 30.09.2020)
6.	Set Back Distance to prevent river bank erosion	10 m	10 M or 1/4 <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	44688MTPA	60,000 MTPA Per Hectare	As per Sustainable Sand Mine Guideline of MOEF&CC

8.	Water supply Scheme/Irrigation structure	Not applicable	200 M	As per Sustainable Sand Mine Guideline of MOEF&CC
9.	Railway Line	Vijapur Railway Station – 8.54 km, North-west	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	Vijapur-Himatnagar Road-8.06 km North	100 M	As per CPCB Distance Criteria And order of of NGT before Principal Bench in the O.A. NO 85/2018 ( WZ) dtd 30.09.2020
12.	Eco-Sensitive Zone (if notified)	Not in 10 km of project area	>1 km / outside the notified Eco-Sensitive Zone	Vide directives of MOEF&CC dtd 16.07.2020
13.	Eco-Sensitive Zone (if not notified)	Not in 10 km of project area	>1 km and <10 km = Prior Clearance from NBWL is required	Vide directives of MOEF&CC dtd 16.07.2020
14.	Distance of Coastal line from the site	NA	>500 M from HTL	Amended CRZ Notification 2011

**C. Details of Mining:**

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

7.	Frequency of blasting	NA
8.	Impact of blasting	NA
9.	Outcome of Vibration study	NA
10.	Blasting Activity Management Plan	NA
11.	Use of any Chemical with quantity	NA
12.	Precautions taken for Human Safety in brief	NA
13.	Crusher provided? If Yes, Measures taken for Air Pollution Control	NA
14.	Compliance of DGMS Guidelines for Blasting	NA
15.	Compliance of Sustainable Sand Mine Guidelines published by MoEFCC in 2016	YES
16.	Whether Replenishment Rate Study is approved by District Geologist?  If yes, conclude in brief	YES

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

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

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

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

			<p>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 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 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. 67,87,696/-
	a. Upfront cost (Lakh)	Rs. 1,17,529/-
	b. Performance Security (Lakh)	Rs. 5,87,647/-
	c. Total Royalty (Lakh)	Rs. 17,87,520/-
	d. Weigh Bridge Cost (Lakh)	Rs. 4,50,000
	e. Labor cost equipment (Lakh)	Rs. 15,75,000/-
	f. Equipment protection and implementation cost (Lakh)	Rs. 20,00,000/-
	g. Green Belt Development & maintenance cost (Lakh)	Rs.1,00,000/- capital cost Rs.20,000/- recurring cost
	h. Cost of EMP (Lakh)	Rs.3,00,000/-
	i. Cost of Safety measures (Lakh)	Rs.3,00,000/-
	j. Cost of Post-Closure Mine Plan (Lakh)	-
2.	Budget allocated for CER (Lakh)	Rs.3,00,000/- (Three Lakh) as principal amount and 50,000/- (Fifty thousand) as recurring amount has been allotted for Environmental management plan.

		It is proposing to invest ~Rs.3,00,000/- for social environmental development over a period of next 3 years, to be considered for implementing the activities in the context of the local scenario of the area as a part of EMP. Proposed Heads are as below.				
3.	Is need based survey for CER carried out? (Yes / No)  If yes, give details of activities along with Budgetary Outlay	SN	Activity	Budget		
				1st year	2nd year	3rd year
		1	Plantation of Trees in Nearby Area	40,000	30,000	30,000
		2	Drinking water in villages	20,000	20,000	20,000
		3	Health checkup twice year (in winter & summer) & supply of medicine	50,000	50,000	40,000
	total	1,10,000	1,00,000	90,000		

**H. Restoration / Reclamation Plan:**

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

6.	Display of Caution Boards at strategic locations on the periphery of the pit area	-
7.	Final Use of reservoir/ reclaimed land	-

**I. Details of Legal Action / Court Case:**

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

**J. Contact Details:**

1.	<b>Contact details of Applicant</b>	
2.	Name	M/s Brijesh Enterprise C/o Bhupatray Savani
3.	Address	R/o – 20 Sarthi Complex, NH-8 Jashoda Circle, Taluka – Ahmedabad, State – Gujarat - 380045
4.	Contact no.	9429306348
5.	Email Id	<a href="mailto:brijesh_enterprise@yahoo.com">brijesh_enterprise@yahoo.com</a>
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.	9674488198/7777065675
10.	Email Id	<a href="mailto:Kolkata@ultratech.in">Kolkata@ultratech.in</a>

**Deliberation:**

- Shri Arun Kumar from M/s. ULTRATECH ENVIRONMENTAL CONSULTANCY AND LABORATORY presented the details of the project before the Committee on behalf the PP during SEAC meeting dated 16.07.2021 and he has submitted the Authorization letter for same.
- Committee deliberated on method of mining, rate of mining, cluster situation, no. of working hours and no. of workers, EMP, CER budget and its activities, Green belt development etc.
- Shri Arun Kumar informed the Committee that the proposal does not involve instream mining and presented a few satellite images of dry riverbed of different months of the year.

- Distance of the lease from Environmental Sensitivities was also discussed and found as per the prescribed standards.

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

#### 15. BLACK TRAP MINING, DIST: ARAVALLI

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/60998/2021	HASMU KHBHAI RANCH HODBHAI PATEL	Survey No. VatrakNadi Pat	Akodiya - Bhukhel	Bayad	Aravalli	3.000 Ha	Letter granted vide no.GH/QL/Renew/4842, dated 28.08.2012 for 10 years	80,190 MT PA	Bayad – 4.80 km	Construction	Rs.98.79 km	28.06.2021  New project

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

A. Basic Information of the Project:		
1.	Name of Project as per Form I	Mining of Black Trap from Vatrak nadi pat,near Village: - Akodiya-Bhukhel, Taluka: -Bayad, District: -Aravalli, State: - Gujarat - 383325.
2.	Address of the lease	Survey No.: Vatrak Nadi Pat Village: AkodiyaBhukhel Taluka: Bayad District: Aravalli
3.	Name of lease holder	Shri. Hasmukhbhai Ranchhodhbhai Patel

4.	Lease area (Ha)	3.00.00 Ha		
5.	Cluster Details			
	a. Total no. of leases in the cluster	4		
	b. No. of TOR granted in cluster	0		
	c. No. of EC granted in cluster	0		
	d. Total area of the cluster	8.35.00 Ha		
	e. Maximum individual lease area	3.00.00 Ha		
	f. Minimum individual lease area	1.00.00 Ha		
6.	Validity of lease with the date of expiry	10 Year		
7.	Rate of Mining (MT/Annum)	80190 MTPA		
8.	Details of EC obtained (for expansion projects), if any	NA		
9.	Name of River Bed	NA		
10.	Is the river perennial / non-perennial?	-		
11.	Lease area (submerged / in stream / on dry river bed)	3.00.00 Ha		
12.	All coordinates of the lease area as per Approved Mining Plan	Point	Latitude	Longitude
		A	313465.9302	252767.9521
		B	313390.0247	2527671.204
		C	313339.6427	2572534.85
		D	313173.5681	2572585.943
		E	313189.8565	2572644.675
		F	313260.5899	2572618.915
		G	313315.8914	2572677.777
		H	313343.419	2572742.773
		I	313323.1042	2572827.921
13.	Manpower requirement	12-16		
14.	Applicability of CRZ Notification	NA		
15.	Depth of mining (m)	6 m		
16.	Ground Water Table in meter BGL	30-40m		
17.	Does ground water interfere approach road exit? (Yes / No)	No		
	If yes, status report of CGWA			
18.	Distance between lease and main road	3.41 km		
19.	Length of kaccha road (m)	0.24 km		
20.	Length of pacca road (m)	3.41 km		
21.	Plan for making pacca road	No		
22.	Source of fresh water	Water Tankers		
23.	Water requirement (kLPD)	6 KLD		
	a. Domestic	1 KLD		
	b. Dust suppression	3 KLD		
	c. Gardening / Green belt development	2 KLD		
	d. Others	-		

24.	Whether the Undertaking is submitted for identical information provided in Form I, Approved Mining Plan, Project Details validated by District Geologist, Pre-Feasibility Report, Lease Document, Environment Management Plan and other documents	Yes
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**B. Environmental Sensitivities:**

Sr No.	Environmental Sensitivities	Actual Distance	Minimum Distance	Reference
1.	Residential	Akodiya – 490 km, North-West	200 m  (When Blasting is involved)	As per CPCB Distance Criteria And order of of NGT before Principal Bench in the O.A. NO 85/2018 ( WZ) dtd 30.09.2020
	Public buildings	Not available in 200 m		
	Inhabited sites	Not available in 200 m		
	Protected monuments,	Not available in 200 m		
	Heritage sites	Not available in 200 m		
	National / State Highway	State Highway No. 59-3.84 km, East, State Highway No. 69-3.83 km, South		
	District roads	State Highway No. 59-3.84 km, East		
	Public roads	State Highway No. 59-3.84 km, East		
	Railway line / area	Railway Station, kherol-25.03 km, North-West		
	Ropeway or Ropeway trestle or station	Not available		
	Bridges	4.46 km, East		
	Dams	Bhempoda 24.39 km, North-east		
	Reservoirs	Fansarelreserviouir - 24.39 km, North-east		
	River	Lease Located on - Vatrak River		
Canal	NA			

	Lakes	Shaktinagar Lake - 10.30 km North-east		
	Tanks	NA		
2.	Eco-Sensitive Zone (if notified)	NA	>1 km / outside the notified Eco-Sensitive Zone	Vide directives of MOEF&CC dtd 16.07.2020
3.	Eco-Sensitive Zone (if not notified)	NA	>1 km and <10 km = Prior Clearance from NBWL is required	Vide directives of MOEF&CC dtd 16.07.2020
4.	Distance of Coastal line from the site	NA	>500 M from HTL	Amended CRZ Notification 2011

**C. Details of Mining:**

1.	Method of Mining (Manual / Semi-mechanized / Mechanized).	Open cast, Semi-mechanized
2.	Equipments to be used for Mining bulldozers, hydraulic excavators, JCB, scrapers, loaders, Diesel Pump, etc.)	Hydraulic excavator will be used for excavation and loading of Black Trap. Trucks and dumper will be used for transportation. Black Trap is transported by truck and dumpers. <ul style="list-style-type: none"> <li>i. Drilling Machines- The proposed mining envisages exploitation of minerals by excavator with deep hole drilling and blasting. However, jack hammer drilling &amp; blasting may be performed whenever required. One jack hammer shall be deployed.</li> <li>ii. Loading Equipment- Hydraulic excavator and JCB</li> <li>iii. Transport from mine head to the destination- Mineral will be transported by hired trucks.</li> </ul> The machine will be deployed on hired basis.
3.	Whether it includes blasting?	Controlled blasting will be done (if requires)
4.	Details of Authorized Blasting Agency with date of validity certificate	As suggested & recommended by CGM

5.	Procedure / SOP (in brief)	This is open cast mine. Semi mechanised method of mining will be applied to explore black trap on contract basis by M/s. Priyank Quarry as per market demand. Stata is hard and compact, drilling and blasting are required to break the strata. The DTH drill machine with capacity of drilling hole of 100 mm diameter with portable compressor will be used. The staggered drilling hole pattern will be used with spacing of 2.5 m and depth 5.5 m and subgrade drilling of 0.5 m with class II explosive,boosters, excel and short delay detonators.
6.	Details of Blasting Parameters in brief	Length of shot holes – 1.5 m Diameter of shot hole – 32 mm Burden 0.8 m Spacing 1 m Pattern of shot hole V pattern with multiple rows as per strata.
7.	Frequency of blasting	As per market demand
8.	Impact of blasting	This is for short time does not have significant impact.
9.	Outcome of Vibration study	The aim of blasting in the proposed project is to give optimum fragmentation with minimum vibration. There is not significant vibration that affects human settlement or environmental settling.
10.	Blasting Activity Management Plan	Submitted during EIA study
11.	Use of any Chemical with quantity	Explosive Primer Explosive – 3.0 kg/hole Booster - 9.0 kg/hole Total – 12 kg/ hole Short delay detonator – 01 Excel - 11
12.	Precautions taken for Human Safety in brief	Mining will be carried out under the supervision of mining engineer/ manager who are certified to conduct mine-operation. These are safety taken as precautionary measures: All safety precautions and provisions as per MMR 1961 rules Mining operation as per approved mine plan Regular testing and maintenance of all mining equipment as per manufacturers guideline and grantee figure. Periodic checking fire- fighting equipment and fire inhouse - training of workers working in the project. Entry ban of unauthorized persons at work place in mine Checking ang regular maintenance of garland drainage earthen bunds to avoid any

		inflow of surface water into mine- pit. As a part of disaster management plan, rescue team will be formed by imparting specialized training in case on emergency for rescue of worker.
13.	Crusher provided? If Yes, Measures taken for Air Pollution Control	No
14.	Compliance of DGMS Guidelines for Blasting	Comped and permission will be taken prior to the blasting.
15.	Compliance of Sustainable Non-Sand Mine Guidelines published by MoEFCC in 2016	YES
16.	Whether Replenishment Rate Study is approved by District Geologist?  If yes, conclude in brief	YES

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

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

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

1.	Details of EMP	Impact	Mitigation Measures
	a. Land Environment	Temporary changes in the land use due to excavation	Mining will be done by Opencast Semi Mechanized method. There will be changes in land use due to excavation process; Area is backfilled as per approved mining plan.
	b. Water Environment	There are no competing users. The total water requirement will be 6 KLD for dust suppression (3 KLD), domestic (1 KLD) and plantation (2 KLD), which will be sourced from water tanker.	Sewage water will be passed into soak pit of septic tanks. Discharge of sewage or other effluents to water or the land is not expected.
	c. Air Environment	Dust emission during excavation and transportation, vehicular movement	Water sprinkling will be done on the roads regularly  Care will be taken to prevent spillage by covering the carrying vehicles with tarpaulin and sprinkling of water, if in dry form  Proper tuning of Engine of

			<p>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		
2.	Occupational health & safety measures as per DGMS	Occupational health safety measures will be taken as per DGMS	
3.	Safety measures proposed		
	a. Is First Aid facility provided by PP?	First aid facility will be provided by the project proponent	

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

**F. Transportation:**

1.	No. of vehicles per day carrying Minerals	15 vehicles per day
2.	Fugitive dust emission control measures	Regular control of fugitive dust emissions from the source. Water spraying on haul roads, loading and at transfer points. Truck mounted water tanker to be used from dust suppression during mining and transportation
3.	Route plan in brief	Mined out blacktrap will be transported through the pucca road

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

1.	Total cost of the project (Lakh)	Rs. 98,78,550/-
	a. Upfront cost (Lakh)	--
	b. Performance Security (Lakh)	Rs. 3,00,000/-
	c. Total Royalty (Lakh)	Rs. 36,08,550/-
	d. Weigh Bridge Cost (Lakh)	Rs. 4,50,000/-
	e. Labor cost equipment (Lakh)	Rs. 27,00,000/-
	f. Equipment protection and implementation cost (Lakh)	Rs. 21,00,000/-
	g. Green Belt Development & maintenance cost (Lakh)	Rs.1,00,000/- capital cost Rs.20,000/- recurring cost
	h. Cost of EMP (Lakh)	Rs.3,00,000/-
	i. Cost of Safety measures (Lakh)	Rs.3,00,000/-
	j. Cost of Post-Closure Mine Plan	-

	(Lakh)																													
2.	Budget allocated for CER (Lakh)	Rs.3,00,000/- (Three Lakh) as principal amount and 50,000/- (Fifty thousand) as recurring amount has been allotted for Environmental management plan. It is proposing to invest ~Rs.3,00,000/- for social environmental development over a period of next 3 years, to be considered for implementing the activities in the context of the local scenario of the area as a part of EMP. Proposed Heads are as below.																												
3.	Is need based survey for CER carried out? (Yes / No)  If yes, give details of activities along with Budgetary Outlay	<table border="1"> <thead> <tr> <th rowspan="2">SN</th> <th rowspan="2">Activity</th> <th colspan="3">Budget</th> </tr> <tr> <th>1st year</th> <th>2nd year</th> <th>3rd year</th> </tr> </thead> <tbody> <tr> <td></td> <td>Plantation of Trees in Nearby Area</td> <td>40,000</td> <td>30,000</td> <td>30,000</td> </tr> <tr> <td></td> <td>Drinking water in villages</td> <td>20,000</td> <td>20,000</td> <td>20,000</td> </tr> <tr> <td></td> <td>Health checkup twice year (in winter &amp; summer) &amp; supply of medicine</td> <td>50,000</td> <td>50,000</td> <td>40,000</td> </tr> <tr> <td></td> <td>total</td> <td>1,10,000</td> <td>1,00,000</td> <td>90,000</td> </tr> </tbody> </table>	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
SN	Activity	Budget																												
		1st year	2nd year	3rd year																										
	Plantation of Trees in Nearby Area	40,000	30,000	30,000																										
	Drinking water in villages	20,000	20,000	20,000																										
	Health checkup twice year (in winter & summer) & supply of medicine	50,000	50,000	40,000																										
	total	1,10,000	1,00,000	90,000																										

#### H. Restoration / Reclamation Plan:

1.	Restoration / Reclamation Details	Part of excavated land will be backfilled/reclaimed with overburden & local species will be planted.
2.	Post mining closure plan	At the end of current Five Years mining plan maximum depth of pit will be 32 m. The excavated pits will be backfilled. The local species will be planted
3.	Backfilling material and its quantity	Part of excavated land will be backfilled/reclaimed with overburden & local species will be planted.
4.	Size of void for Rain Water Harvesting after backfilling	-
5.	Post Closure Liability / Safety aspects and Measures to be taken to avoid wild life and human accidents/ 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	Shri. Hasmukhbhai Ranchhodbhai Patel
3.	Address	Village & Post office – Akodiya-Bhukhel, Taluka- Bayad, District- Aravalli State-Gujarat– 383325
4.	Contact no.	Tel. No. - 6354416121
5.	Email Id	<a href="mailto:Jaiminpatel3309@gmail.com">Jaiminpatel3309@gmail.com</a>
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	<a href="mailto:Kolkata@ultratech.in">Kolkata@ultratech.in</a>

### Deliberation:

- Shri Arun Kumar from M/s. ULTRATECH ENVIRONMENTAL CONSULTANCY AND LABORATORY presented the details of the project before the Committee on behalf the PP during SEAC meeting dated 16.07.2021 and he has submitted the Authorization letter for same.
- Committee deliberated on method of mining, rate of mining, cluster situation, no. of working hours and no. of workers, EMP, CER budget and its activities, Green belt development etc.
- While deliberating on the location of the lease w.r.t. the Environmental Sensitivities, Shri Arun Kumar informed the Committee that the lease is located in the riverbed of River Vatrak.
- Committee noted that the distance of the lease from the river shall be minimum 200 m in case of mining proposals involving blasting as per the order of Hon'ble NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020.

- Shri Arun Kumar informed the Committee that the proposal is involved in the mining of Black Trap, which includes open cast semi-mechanized mining with blasting.

After deliberating in detail, Committee noted that as per Distance Criteria of CPCB and order of Hon'ble NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020, the distance of lease shall be 200 m (minimum) from the River. As the location of the lease is not satisfying the distance criteria, Committee unanimously decided to recommend the proposal to SEIAA for rejection.

#### 16. ORDINARY SAND MINING, DIST: CHHOTAUDEPUR

Application No	Name of Project	S.No.	Village	Taluka	Dist	Lease Area	Validity of lease	River	ROM	Nearest Human Habitation	End Use	Investment in Rs	Date of Application Received by SEAC
SIA/GJ/MIN/60098/2021	VANKOL ORDINARY SAND BLOCK – 06  (NITABENRAME SHBHAI PATEL)	Survey No. 46/1, 46/2 Nelagur Orsang River Bed	Vankol	Jetpurpavi	Chhotaudepur	2.30.00 Ha	Issued on 05.12.2019 for 5 years	Orsang	38,640 MTPA	Vankol – 0.53 km	construction	Rs.88.58 Lakh	28.06.2021  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	Proposed Mining of River bed ordinary sand from VANKOL ORDINARY SAND BLOCK NO. 6 on the Orsang River near Village: - Vankol, Taluka: - Jetpurpavi, District: - Chhotaudepur, State: - Gujarat
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2.	Address of the lease	Survey No: 46/1, 46/2 ne lagu Orsang River bed Village:Vankol Taluka: Jetpur Pavi District:Chhotaudepur		
3.	Name of lease holder	Shiv Shakti Transport, Nitaben Patel		
4.	Lease area (Ha)	2.30.00 Ha		
5.	Cluster Details			
	a. Total no. of leases in the cluster	299		
	b. No. of TOR granted in cluster	15		
	c. No. of EC granted in cluster	186		
	d. Total area of the cluster	1167.78.46Ha		
	e. Maximum individual lease area	10.00.00Ha		
	f. Minimum individual lease area	00.28.00Ha		
6.	Validity of lease with the date of expiry	5Yearsfromthedataofleasedeed		
7.	Rate of Mining (MT/Annum)	38640MTPA		
8.	Details of EC obtained (for expansion projects), if any	NA		
9.	Name of River Bed	Orsang Riverbed		
10.	Is the river perennial / non-perennial?	Non-Perennial		
11.	Lease area (submerged / in stream / on dry river bed)	On dry river bed		
12.	All coordinates of the lease area as per Approved Mining Plan	Pillar No.	Latitude	Longitude
		1	22°20'5.18"N	73°51'22.10"E
		2	22°20'2.94"N	73°51'25.67"E
		3	22°19'56.99"N	73°51'24.17"E
		4	22°19'58.08"N	73°51'20.52"E
13.	Manpower requirement	15 No of manpower sill be employed		
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	No structures are found.		
17.	Maximum depth of sand removal (3 m or water depth whichever is less)	1 m		
18.	Width of Riverbed (m)	931.25 m		
19.	Average depth of water at	Dry River bed		

	lease area (m)	
20.	Depth of mining (m)	1m
21.	Ground Water Table in meter BGL	35to 40 m
22.	Does ground water interfere approach road exit? (Yes / No)  If yes, status report of CGWA	No
23.	Distance between lease and main road	0.78Km
24.	Length of kaccha road (m)	0.56 km
25.	Length of pacca road (m)	0.78Km
26.	Plan for making pacca road	Makingofapproachroadfromminetonearvillageroadonhiredbasis. Cost of making approach road:- AverageRs.1,20,000/- whichisincludedincapitalcostof EMP.
27.	Source of fresh water	Well/WaterTanker
28.	Water requirement (kLPD)	3.0
	a. Domestic	0.50
	b. Dust suppression	2.0
	c. Gardening / Green belt development	0.50
	d. Others	-
29.	Whether the Undertaking is submitted for identical information provided in Form I, Approved Mining Plan, Project Details validated by District Geologist, Pre-Feasibility Report, Lease Document, Environment Management Plan and other documents	Attachedhereinthemail

**B. Environmental Sensitivities:**

Sr NO	Environmental Sensitivities	Actual Distance	Minimum Distance	Reference
1	Residential	Vankol Village 0.53 km, South	100 m  (When Blasting is not involved)	As per order of NGT before Principal Bench in the O.A. NO 85/2018 ( WZ) dtd 30.09.2020
	Public buildings	Govt. Hospital at Jetapur-1.50 km, North-west  Sr. Sec. School, Jetpur-1.39 km, North-West		As per order of NGT before Principal Bench in the O.A. NO 85/2018 ( WZ) dtd 30.09.2020

	Inhabited sites	None within 1 Km		
2	A. Major Bridge	NA	1 km	On both sides of the lease (as per Sustainable Sand Mine Guideline of MOEF&CC)
	B. Highway	SH-11 – 0.78 km, North	1 km	On both sides of the lease (as per Sustainable Sand Mine Guideline of MOEF&CC)
OR				
3.	Bridge (Span of Bridge as X )	NA	c.5X in upstream or 250 m. d.10X in down stream or 500 m	As per Sustainable Sand Mine Guideline of MOEF&CC
4.	Public Structure including water intake wells	b. NA	c.5X in upstream or 250 m. d.10X in down stream or 500 m	As per Sustainable Sand Mine Guideline of MOEF&CC
5.	Depth of working	1 M	1 M or water level whichever is early	As per order of NGT before Principal Bench in the O.A. NO 85/2018 ( WZ) dtd 30.09.2020)
6.	Set Back Distance to prevent river bank erosion	More than 10 M	10 M or 1/4 <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	38640 MTPA	60,000 MTPA Per Hectare	As per Sustainable Sand Mine Guideline of MOEF&CC
8.	Water supply Scheme/Irrigation structure	NA	200 M	As per Sustainable Sand Mine Guideline of MOEF&CC

9.	Railway Line	Pavi Railway Station – 1.88 km, North-West	100 M	As per Sustainable Sand Mine Guideline of MOEF&CC
10.	Reservoir/Canal	NA	100 M	As per CPCB Distance Criteria And order of of NGT before Principal Bench in the O.A. NO 85/2018 ( WZ) dtd 30.09.2020
11.	Other Road	NA	100 M	As per CPCB Distance Criteria And order of of NGT before Principal Bench in the O.A. NO 85/2018 ( WZ) dtd 30.09.2020
12.	Eco-Sensitive Zone (if notified)	NA	>1 km / outside the notified Eco-Sensitive Zone	Vide directives of MOEF&CC dtd 16.07.2020
13.	Eco-Sensitive Zone (if not notified)	Jambughoda Wildlife Sanctuary- 15.00 km, North-west  Ratanmahal Wildlife Sanctuary- 35.09 km, North-West	>1 km and <10 km = Prior Clearance from NBWL is required	Vide directives of MOEF&CC dtd 16.07.2020
14.	Distance of Coastal line from the site	NA	>500 M from HTL	Amended CRZ Notification 2011

**C. Details of Mining:**

1.	Method of Mining (Manual / Semi-mechanized / Mechanized).	SemiMechanizedOpencastMining
2.	Equipments to be used for Mining bulldozers, hydraulic excavators, JCB, scrapers, loaders, Diesel Pump, etc.)	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
4.	Details of Authorized Blasting Agency with date of validity certificate	NA
5.	Procedure / SOP (in brief)	NA
6.	Details of Blasting Parameters in brief	NA
7.	Frequency of blasting	NA
8.	Impact of blasting	NA
9.	Outcome of Vibration study	NA

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

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

1.	a. Green belt development budget	<ul style="list-style-type: none"> <li>Capital Cost:- Rs. 30,000/-</li> <li>Recurring Cost:- Rs. 15,000/-</li> </ul>
	b. Green belt area / location	A green belt area will be developed near block area and 50 trees will be planted and maintained during block period.
	c. No. of trees to be planted	50 trees
	d. Types of trees to be planted	Mainly local species such as Neem, Kada, Mango, Mahuda, Timarva will be planted.

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

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

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

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

**F. Transportation:**

1.	No. of vehicles per day carrying Minerals	50
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)	<b>Rs.88.58 Lakh</b>				
	a. Upfront cost (Lakh)	Rs.1,86,398/-				
	b. Performance Security (Lakh)					
	c. Total Royalty (Lakh)	Rs.15,45,600/-				
	d. Weigh Bridge Cost (Lakh)	Rs. 1,00,000/-				
	e. Labor cost equipment (Lakh)	Rs.14,62,500/-				
	f. Equipment protection and implementation cost (Lakh)	Rs.24.50,000/-				
	g. Green Belt Development & maintenance cost (Lakh)	Rs. 1,50,000/-				
	h. Cost of EMP (Lakh)	<ul style="list-style-type: none"> <li>• CapitalCost:-Rs.95,000/-</li> <li>• RecurringCost:-Rs.60,000 /-</li> </ul>				
	i. Cost of Safety measures (Lakh)	<ul style="list-style-type: none"> <li>• RecurringCost:-Rs.28,000/-</li> </ul>				
2.	Budget allocated for CER (Lakh)	Rs.95,000/-				
3.	Is need based survey for CER carried out? (Yes / No)  If yes, give details of activities along with	SN	Activity	Budget		
				1 <sup>st</sup> year	2 <sup>nd</sup> year	3 <sup>rd</sup> year

	Budgetary Outlay	1	Plantation of Trees in Nearby Area	15,000	10,000	10,000
		2	Drinking water in villages	10,000	10,000	10,000
		3	Health check up twice year (in winter & summer) & supply of medicine	20,000	10,000	10,000

**H. Restoration / Reclamation Plan:**

1.	Restoration / Reclamation Details	The area will be reclaimed during monsoon.
2.	Post mining closure plan	Area will be self-reclaimed
3.	Backfilling material and its quantity	NA
4.	Size of void for Rain Water Harvesting after backfilling	NA
5.	Post Closure Liability / Safety aspects and Measures to be taken to avoid wild life and human accidents/ 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:**

5.	Details of Pending Court matter / Public Litigation Cases in any court of Law	NA
6.	Details of Action taken by GPCB, if any	NA
7.	Details of public complaint , if any	NA
8.	Compliance of EC by RO-GPCB or MoEFCC-Bhopal	NA

**J. Contact Details:**

11.	<b>Contact details of Applicant</b>	
12.	Name	Shiv Shakti Transport, Nitaben Patel
13.	Address	SHOP NO. J-12, NANDANVAN PART-4, OPP. ANGAN PARTY PLOT, JODHPUR, SATELLITE, AHMEDABAD (GUJARAT)
14.	Contact no.	9426050595

15.	Email Id	<a href="mailto:nitapatel50595@gmail.com">nitapatel50595@gmail.com</a>
16.	<b>Contact details of Consultant</b>	
17.	Name	ULTRATECH ENVIRONMENTAL CONSULTANCY AND LABORATORY(Gazetted By MoEF) Accredited EIA Consultant Organization by NABET, QCI NABET/EIA/1720/RA0094
18.	Address	Head Office : 206, Jai Commercial Complex, Khopat Thane (W), Maharashtra
19.	Contact no.	9674488198/7777065675
20.	Email Id	<a href="mailto:Kolkata@ultratech.in">Kolkata@ultratech.in</a>

### Deliberation:

- During SEAC meeting dated **16.07.2021**, Shri Arun Kumar from M/s. ULTRATECH ENVIRONMENTAL CONSULTANCY AND LABORATORY presented the details of the project before the Committee on behalf the PP and he has submitted the Authorization letter for same.
- Committee deliberated on method of mining, rate of mining, cluster situation, no. of working hours and no. of workers, EMP, CER budget and its activities, Green belt development etc.
- Replenishment Rate of Ordinary Sand was also discussed and found satisfactory as it is 100% replenishment rate of the sand as mentioned in the Approved Mining Plan.
- Committee noted that the proposal does not involve instream mining through the satellite images presented during the presentation by the consultant.
- During the meeting, Committee noted that the lease is located within 1 km distance from State Highway, i.e. SH-11 is at the distance of 0.78 km.
- Committee deliberated on the distance criteria provided in Sustainable Sand Mine Guideline of MOEF&CC, which is as below:

*'Sand and gravel shall not be extracted up to a distance of 1 kilometre (1 km) from major bridges and highways on both sides, or five times (5x) of the span (x) of a bridge/public civil structure (including water intake points) on up-stream side and ten times (10x) the span of such bridge on down-stream side, subjected to a minimum of 250 meters on the upstream side and 500 meters on the downstream side.'*

In view of the above, Committee unanimously decided to consider the proposal in upcoming SEAC meeting upon submission of below mentioned details:

- a. Clear mention of the applicability of Distance of the lease w.r.t. five times (5x) of the span (x) of a bridge/public civil structure (including water intake points) on up-stream side and ten times (10x) the span of such bridge on down-stream side along with necessary satellite images depicting distance for the same.

#### 17. BLACK TRAP MINING, DIST: KUTCH

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
SIA/GJ/MIN/59830/2021	VinodbhaiLaxmanbhaiPithiya	238/1 paiki	Jambu Goral	Desar	Vadodara	2.28.00 Ha	Issued on 26.06.2018	1,77,519 MT PA	Jambu Goral – 0.21 km	Construction	Rs.18 Lakh	28.06.2021 New project

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

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

1.	Name of Project as per Form I	Vinodbhai Laxmanbhai Pithiya
2.	Address of the lease	Survey No.: Jambu Goral (Survey No. – 238/1 paiki) Black Trap Village; Jambu Goral Taluka: Desar District: Vadodara
3.	Name of lease holder	Vinodbhai Laxmanbhai Pithiya
4.	Lease area (Ha)	02.28.00 Ha
5.	Cluster Details	
	a. Total no. of leases in the cluster	84
	b. No. of TOR granted in cluster	-
	c. No. of EC granted in cluster	-
	d. Total area of the cluster	157.68.96Ha
	e. Maximum individual lease area	07.84.00Ha
	f. Minimum individual lease area	0.75.53Ha
6.	Validity of lease with the date of expiry	10 Years From grant of lease
7.	Rate of Mining (MT/Annum)	1,77,519 MTPA

8.	Details of EC obtained (for expansion projects), if any	NA		
9.	Name of River Bed	NA		
10.	Is the river perennial / non-perennial?	NA		
11.	Lease area (submerged / in stream / on dry river bed)	NA		
12.	All coordinates of the lease area as per Approved Mining Plan	Pillar No.	Latitude	Longitude
		1	22°46'55.53"N	73°20'55.03"E
		2	22°46'55.26"N	73°20'58.39"E
		3	22°46'52.38"N	73°20'58.21"E
		4	22°46'52.22"N	73°21'1.42"E
		5	22°46'54.90"N	73°21'1.75"E
		6	22°46'54.75"N	73°21'2.88"E
		7	22°46'51.85"N	73°21'2.23"E
		8	22°46'50.83"N	73°21'2.39"E
		9	22°46'50.15"N	73°20'55.07"E
13.	Manpower requirement	The proposed employment will be 6 persons in this Black Trap Mining Project.		
14.	Applicability of CRZ Notification	NA		
15.	Minimum Setback distance proposed to be maintained from River Bed (m)	NA		
16.	Minimum buffer distance from bridge piers / water intake wells / irrigation structures	None within 200 m		
17.	Maximum depth of sand removal (3 m or water depth whichever is less)	NA		
18.	Width of Riverbed (m)	NA		
19.	Average depth of water at lease area (m)	60 to 65 m		
20.	Depth of mining (m)	Ultimate Depth of Mining- 30mRL		
21.	Ground Water Table in meter BGL	60 to 65 m		
22.	Does ground water interfere approach road exit? (Yes / No) If yes, status report of CGWA	No		
23.	Distance between lease and main road	0.13 Km		
24.	Length of kaccha road (m)	0.41 Km		
25.	Length of pacca road (m)	0.41 Km		
26.	Plan for making pacca road	Making of approach road from mine to near village road on hired basis. Cost of making approach road:- Average Rs. 1,20,000/-which is included in capital cost of EMP.		
27.	Source of fresh water	Water Tanker		
28.	Water requirement (kLPD)	Total = 3.0 KLD		
	a. Domestic	0.5 KLD		
	b. Dust suppression	2.0 KLD		
	c. Gardening / Green belt	0.5KLD		

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

**B. Environmental Sensitivities:**

Sr No.	Environmental Sensitivities	Actual Distance	Minimum Distance	Reference
1.	Residential	Jambu Goral Village – 0.21km	200 m  (When Blasting is involved)	As per CPCB Distance Criteria And order of of NGT before Principal Bench in the O.A. NO 85/2018 ( WZ) dtd 30.09.2020
	Public buildings	PHC at village veipur – 4.04 Km. Bariyana Primary School at 0.80 Km.		
	Inhabited sites	None within 1 Km		
	Protected monuments	None within 1 Km		
	Heritage sites	None within 1 Km		
	National / State Highway	SH 175 – 4.10 Km NH 59 – 2.92 Km		
	District roads	0.13 Km		
	Public roads	0.13 Km		
	Railway line / area	Sevaliya Railway line – 2.12 Km		
	Ropeway or Ropeway trestle or station	None within 1 Km		
	Bridges	None within 200 m		
	Dams	None within 200 m		
	Reservoirs	None within 200 m		
	River	None within 200 m		
Canal	None within 200 m			

	Lakes	None within 200 m		
	Tanks	None within 200 m		
2.	Eco-Sensitive Zone (if notified)	Ratanmahal wildlife Sanctuary -57.60 km	>1 km / outside the notified Eco-Sensitive Zone	Vide directives of MOEF&CC dtd 16.07.2020
3.	Eco-Sensitive Zone (if not notified)	None within the 10 Km	>1 km and <10 km = Prior Clearance from NBWL is required	Vide directives of MOEF&CC dtd 16.07.2020
4.	Distance of Coastal line from the site	Not Applicable	>500 M from HTL	Amended CRZ Notification 2011

**C. Details of Mining:**

1.	Method of Mining (Manual / Semi-mechanized / Mechanized).	Semi Mechanized 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?	The proposed mining method is semi mechanized opencast with drilling and blasting.
4.	Details of Authorized Blasting Agency with date of validity certificate	
5.	Procedure / SOP (in brief)	Black Trap mineral is hard in nature. For the excavation of Black Trap mineral drilling and blasting is required. Proposed Drill Machine having 85-100 mm diameter is recommended. The blasting is carried out by using Ammonium Nitrate explosive material with the help of Short Delay Detonators. Blasting frequency is recommended as per the production requirement of Black Trap mineral. Blasting will be carried out under the supervision of DGMS, certified blaster/ mining met.
6.	Details of Blasting Parameters in brief	The spacing between holes will be 1.5 m The depth of holes will be 2.5m Number of blast holes depends upon the workable area and production of mineral to be required.
7.	Frequency of blasting	Two times in a Month
8.	Impact of blasting	Generation of Noise Generation of Dust
9.	Outcome of Vibration study	NA
10.	Blasting Activity Management Plan	-

11.	Use of any Chemical with quantity	NA
12.	Precautions taken for Human Safety in brief	Blasting operations will be carried out only in day. Before start charging, clear audible warning signals will be given through siren. The holes which have been charged with explosive will not be left unattended till blasting is completed. Only control blasting will be carried out for excavation of Black Trap mineral. Earplugs will be provided to labours for safety measures.
13.	Crusher provided? If Yes, Measures taken for Air Pollution Control	NA
14.	Compliance of DGMS Guidelines for Blasting	-
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	<ul style="list-style-type: none"> <li>Capital Cost:- Rs. 2,30,000/-</li> <li>Recurring Cost:- Rs. 30,000/-</li> </ul>
	b. Green belt area / location	Tress will be planted in the reclaimed area and both sides of transportation road.
	c. No. of trees to be planted	230 trees
	d. Types of trees to be planted	Mainly local species such as Neem, Asopalav, Pipal and Nilgiri will be planted.

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

1.	Details of EMP	Impact	Mitigation Measures
	a. Land Environment	<ul style="list-style-type: none"> <li>Lease area is Private Land and no forest land involves in the mining area.</li> </ul>	<ul style="list-style-type: none"> <li>Plantation activities to be done along the kaccha road.</li> <li>The area is hilly terrain, therefore ground surface will not be changed.</li> </ul>
	b. Water Environment	<ul style="list-style-type: none"> <li>Waste water generated from mine office</li> </ul>	<ul style="list-style-type: none"> <li>Waste water generated from office building will be diverted to septic tank followed by soak pit</li> </ul>
	c. Air Environment	<ul style="list-style-type: none"> <li>The sources of air pollution are dust generated due to excavation, loading and unloading of material, movement of dumpers. It may cause pollution in environment.</li> <li>Impact on health due to fugitive dust emissions.</li> </ul>	<ul style="list-style-type: none"> <li>Sprinkling of water will be done on roads as well as stockpile</li> <li>Proper maintenance of vehicles to minimize the pollutants.</li> <li>The trucks will be covered while moving the material.</li> </ul>

			<ul style="list-style-type: none"> <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	--	--
2.	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 provided by PP?	Yes
	b. Details of PPEs	Helmet, Safety Shoes , Hand Gloves , Dust Mask , Ear Plugs
	c. Whether Registration of Workers under Building and other Construction Workers' (regulation of Employment & Conditions of Service) Act, 1996 and as Beneficiaries with the Gujarat Building and other Construction Workers Welfare Boards is obtained or not?	No
	d. Insurance of Workers	NA
	e. Health checkup plan of workers	Health check-up for workers once in year.

**F. Transportation:**

<b>1.</b>	No. of vehicles per day carrying Minerals	4 to 5 Vehicle
<b>2.</b>	Fugitive dust emission control measures	Sprinkling of water twice in a day
<b>3.</b>	Route plan in brief	lease Area – Approach Road – Jambu Goral Village Road – State Highway

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

<b>1.</b>	Total cost of the project (Lakh)	Rs. 11,798,355/-
	a. Upfront cost (Lakh)	-
	b. Performance Security (Lakh)	-
	c. Total Royalty (Lakh)	Rs. 7,988,355/-
	d. Financial Assurance (Lakh)	Rs. 230,000/-
	e. Labor cost equipment (Lakh)	Rs. 1,200,000/-
	f. Equipment protection and implementation cost (Lakh)	Rs. 2,100,000/-
	g. Green Belt Development & maintenance cost (Lakh)	Rs. 2,30,000
	h. Cost of EMP (Lakh)	• Capital Cost:- Rs. <b>43,72,000/-</b> • Recurring Cost:- Rs. <b>3,16,000/-</b>
	i. Cost of Safety measures (Lakh)	• Recurring Cost:- Rs. 36,000/-
	j. Cost of Post-Closure Mine Plan (Lakh)	37,30,000/-
<b>2.</b>	Budget allocated for CER (Lakh)	Rs. 2,36,000/-
<b>3.</b>	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:**

<b>1.</b>	Restoration / Reclamation Details	Backfilling of Ordinary Clay/Waste at the end of mine.
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2.	Post mining closure plan	At the top ordinary clay / Black cotton soil will be backfilled upto the depth of 2 meters.
3.	Backfilling material and its quantity	49,731 MT
4.	Size of void for Rain Water Harvesting after backfilling	NA
5.	Post Closure Liability / Safety aspects and Measures to be taken to avoid wild life and human accidents/ causalities	Financial assurance will be given as a part of mine closure plan
6.	Display of Caution Boards at strategic locations on the periphery of the pit area	Will be done as per GMMCR 2017
7.	Final Use of reservoir/ reclaimed land	Plantation will be carried out as per OM of MoEF dated & CC dated on 14/01/2020

**I. Details of Legal Action / Court Case:**

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

**J. Contact Details:**

1.	<b>Contact details of Applicant</b>	
2.	Name	Vinodbhai Laxmanbhai Pithiya
3.	Address	At- 404, Shantam Tower, Gotri, Pashabhai park Di.:- Vadodara- 390021
4.	Contact no.	-
5.	Email Id	Mining.smm@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:**

- During SEAC meeting dated **16.07.2021**, Shri Mayank Patel from M/s. T. R. Associates presented the details of the project before the Committee on behalf the PP and he has submitted the Authorization letter for same.
- Committee deliberated on method of mining, rate of mining, cluster situation, no. of working hours and no. of workers, EMP, CER budget and its activities, Green belt development etc.

- While deliberating on the location of the lease w.r.t. the Environmental Sensitivities, the Committee observed that the human habitation seems to be located within the radius of 200 m from the lease boundary as reflected in the satellite images.
- During the meeting, Committee also noted that the public road and district roads are located at the distance of 130 m, i.e. less than 200 m.

Committee noted that as per Distance Criteria of CPCB and order of Hon'ble NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020, the distance of lease shall be 200 m (minimum) from the public road as well as district road for the non-sand mining proposals involving blasting. As the location of the lease is not satisfying the distance criteria, Committee unanimously decided to recommend the proposal to SEIAA for rejection.

#### 18. BLACK TRAP MINING, DIST: KUTCH – B1 APPRAISAL – ADS

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
SIA/GJ/MIN/36156/2021	Kanji Devji Me pani	358	Jiyapar	Nakht rana	Kutch	1.500 Ha	Lease deed dated 25.09.2002	48000 MT PA	Madh apar – 627 m	Construction	40 Lakh	16.02.2021 ADS on 05.03.2021

During SEAC meeting dated **05.03.2021**, the proposal was considered and the PP was asked to submit below mentioned details along with revised EIA report:

- Wildlife conservation plan approved by the competent authority is to be submitted in EIA report
- PP was not able to furnish photographs of green belt development area
- In EIA report a letter from Forest department mentions the distance of forest as about 60 m from the lease area
- No monitoring station within 500 m downwind direction in the periphery of the lease area is chosen at the time of baseline monitoring
- Analysis reports of ground water shows high values of parameters, i.e. Total hardness, Ca, TDS and it is not commented on appropriately

On **23.06.2021**, PP has submitted revised EIA report with replies as below:

- a. Wild life conservation plan has been prepared and submitted to DFO, Kutch, Gujarat on dated 01.04.2021.
- b. A well laid green belt development plan has been incorporated in Chapter-10, page no. 202 of Final EIA/EMP report and mentioned below:

- **Greenbelt Development**

Greenbelt development programme will be designed within the natural constraints of the Black Trap mine area and in particular species selection reflects flora known to be resistant to the local conditions.

Greenbelt development is necessary for:

1. Landscaping and providing shelter
2. Help in reducing Pollution level
3. Surface air purification by providing oxygen and letting SPM to settle on the leaves.
4. To attenuate noise generation by movement of vehicles and other machinery.
5. Improve ecological conditions.
6. Improves the aesthetics & beneficially influence the microclimate of the surrounding.

The following characteristics will be taken into consideration while selecting plant species for green belt development and tree plantation.

1. They should be local indigenous and drought resistant species.
2. They should be fast growing and tall trees.
3. They should be perennial and evergreen.
4. They should have thick canopy cover.
5. The planting should be in appropriate alternate rows around the site to prevent lateral
6. Pollution dispersion
7. The trees should maintain regional ecological balance and conform to soil and hydrological conditions. Indigenous species should be preferred.
8. Native species will be planted as per CPCB guidelines.

- **PLANTATION PROGRAMME**

It is proposed to have plantation on both sides of the roads & to provide cover against dust dissemination plantation will also be carried out as social forestry

programmed in villages school and the areas allocated by the Panchayat / State authorities. A suitable combination of trees that can grow fast and also have good leaf cover shall be adopted to develop the greenbelt. It is proposed to plant 310 numbers of native species per year along with trees, herbs, shrubs & grasses. Greenbelt development programme is given in below:

**Greenbelt developments Programme**

Year	Area to be planted in Hect.	No. of Sampling	Species	Place of Plantation
I	0.495	310	<i>Azadirachta indica</i> (Neem), <i>Emblica officinalis</i> (Amla), <i>Terminalia Arjuna</i> (Arjun), <i>Dalbergia sissoo</i> (Sissoo)	In both side of the kaccha road in three layers considering space of 10 m.
<b>Total</b>	<b>0.495</b>	<b>310</b>		

Vegetation development is proposed along road sides of approach roads of about 710m and some of the plants will be proposed after the consultation with local gram panchayat/villagers. While selecting plant species preference will be given for planting native species of the area and shall have soil binding capacity. Jiyapar Black trap mining will supply saplings to surrounding villagers for green belt development in their villages and encourage the plantation by means of social forestry.

Greenbelt development as per the scheduled plan will be reviewed every year plantation records will be maintained for period of plantation, area under plantation, length of avenue plantation, type of species density of planted area and survival rate.

- a. The proposed quarry project is at the distance of 750 m from the nearest Mangwana Reserve Forest. As far as the committee observed the DFO letter; project proponent like to clarify that the forest boundary has distance above the 40 m from the lease periphery and no mining activity will be carried out there.
- b. Monitoring within 500 m downwind direction of the periphery of the lease area for Air, Noise and soil was conducted as required to comply the ToR point no. 20 and has been enclosed as Annexure-8, page no. 283 of final EIA/EMP report.
- c. A base line study was conducted for Winter season (December 2019 to February 2020). Interpretation of the analysis has been incorporated in Chapter-3, Page no. 110 of Final EIA/EMP reports as below:

Parameters	Maximum	Minimum	Desirable	Permissible	Comment
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			limits	limit	
Total Hardness	360 mg/1	290 mg/1	200 mg/1	500 mg/1	Analysis result shows that values of TH were above the desirable limit but as there were no alternative source of water and it was found within the permissible limits. So it can be considerable.
Calcium Hardness	292 mg/1	192 mg/1	200 mg/1	300 mg/1	Analysis result shows that values of Ca hardness were above the desirable limit but as there were no alternative source of water and it was found within the permissible limits. So it can be considerable.
Calcium as Ca.	117.03 mg/1	77.11 mg/1	75 mg/1	200 mg/1	Analysis result shows that values of Calcium as Ca. were above the desirable limit but as there were no alternative source of water and it was found within the permissible limits. So it can be considerable.
TDS	574 mg/1	410 mg/1	500 mg/1	2000 mg/1	Analysis result shows that maximum value of TDS found 574 mg/l at the Deshalpar village which is higher than the desirable limit but as there was no alternative source of water and it was found within the permissible limits. So it can be considerable.

During SEAC meeting dated **16.07.2021**, the reply submitted was considered. The representative of M/s. Overseas Min-Tech Consultants remained present in the meeting on behalf of the PP and they have submitted the Authorization letter for same.

- While deliberating on the replies submitted, the representative informed the Committee that the PP has submitted the letter to the District Forest Officer, Bhuj, Kutch on 01.04.2021 for approval of Wildlife Conservation Plan for Schedule I species, however the same is yet to be approved.
- Committee noted that the PP / consultant has mentioned that the lease area falls in the riverbed as per page no.159 of hard copy and 163 of soft copy of EIA report.
- The representative also informed the Committee that the lease is located at the distance of 60 m away from the forest boundary.
- Committee noted that the analysis reports submitted for the free silica content did not mention the unit of concentration as well as the reference limit / criteria for same.

In view of the above, the Committee unanimously decided to consider the proposal in upcoming SEAC meeting upon submission of below mentioned details:

- a. Wildlife conservation plan approved by the competent authority

- b. Letter of the Competent Authority mentioning the shortest distance of the lease boundary from the forest located nearby.
- c. Free silica report with the unit of concentration and reference limits / criteria .
- d. Credible evidence showing whether the lease area is falling in the river bed or not and whether it is a case of instream mining or not.

**19. ORDINARY SAND MINING, DIST: SABARKANTHA– B1 APPRAISAL– ADS**

Application No	Name of Project	S. No .	Village	Taluka	Dist	Lease Area	Validity of lease	River	ROM	Near est Human Habitation	End Use	Investment in Rs	Date of Application Received by SEAC
SIA/GJ/MIN/59658/2019	M/s. Sainath Infrastructure	211 (Block no .7)	Sampad	Prantij	Sabarkantha	2.79 Ha	Lol issued on 28.01.2019 for 5 years	Sabarmati	45532 MTPA	Sam pad – 1.85 km	Construction	50 Lakh	16.02.2021  ADS on 05.03.2021

During SEAC meeting dated **05.03.2021**, the proposal was considered and the PP was asked to submit below mentioned details along with revised EIA report:

- a. Wildlife conservation plan approved by the competent authority is not included in EIA report
- b. The mineralogical composition of PM10, particularly for free silica is not analyzed
- c. Results of ground water samples for parameters, i.e. TDS, Total hardness as CaCO<sub>3</sub>, Magnesium, Nitrate as NO<sub>3</sub> etc. are above the desirable level for ground water sampling locations

On **23.06.2021**, PP has submitted revised EIA report with replies as below:

- a. Wild Life Conservation plan has been prepared and submitted to G.P.C. Board, R.O. Himmatnagar Gujarat on dated 23.03.2021.
- b. Monitoring for the mineralogical composition of PM10, particularly for free silica was conducted and analysis report of the same has been enclosed as Annexure-7, page no. 306 to 314 of Final EIA/EMP report.

c. A base line study was conducted for Post monsoon season (October 2019 to December 2019). Interpretation of the analysis has been incorporated in Chapter-3, page no. 94-95 of Final EIA/EMP report, which is as below:

Parameters	Maximum	Minimum	Desirable	Permissible	Comments
TDS	1500 mg/l	112 mg/l	500 mg/l	2000 mg/l	Analysis result shows that maximum value of TDS was 1500 mg/l in the village Mahudi and as there were no alternative source of water and it was found within the permissible limits. So it can be considerable.
Total Hardness	480 mg/l	60 mg/l	200 mg/l	500 mg/l	Analysis result shows that maximum value of TH was 480 mg/l in the village Mahudi and as there were no alternative source of water and it was found within the permissible limits. So it can be considerable.
CaCO <sub>3</sub>	180 mg/l	30 mg/l	200 mg/l	600 mg/l	Analysis result shows that maximum value of CaCO <sub>3</sub> found within the Desirable as well as permissible limits.
Magnesium	67.20 mg/l	7.20 mg/l	30 mg/l	100 mg/l	Analysis result shows that maximum value of Magnesium was 67.20 mg/l in the village Mahudi and as there were no alternative source of water and it was found within the permissible limits. So it can be considerable.
Nitrate as NO <sub>3</sub>	73.99 mg/l	4.36 mg/l	45 mg/l	100 mg/l	Analysis result shows that maximum value of Nitrate as NO <sub>3</sub> was 79.33 mg/l in the village Piludra and as there were no alternative source of water and it was found within the permissible limits. So it can be considerable.

During SEAC meeting dated **16.07.2021**, the reply submitted was considered. The representative of M/s. Overseas Min-Tech Consultants remained present in the meeting on behalf of the PP and they have submitted the Authorization letter for same.

- While deliberating on the replies submitted, the representative informed the Committee that the PP has submitted Wildlife Conservation Plan for Schedule I species to District Forest Officer, Bhuj, Kutch for approval. The copy of the letter is inwards on 23.03.2021 at GPCB RO Himmatnagar. He also informed the Committee that the Wildlife Conservation Plan is yet to be approved.
- Committee noted that the analysis reports submitted for the free silica content did not mention the unit of concentration as well as the reference limit / criteria for same.

In view of the above, the Committee unanimously decided to consider the proposal in upcoming SEAC meeting upon submission of below mentioned details:

- a. Wildlife conservation plan approved by the competent authority
- b. Free silica report with the unit of concentration and reference limits / criteria

## 20. LIMESTONE MINING, DIST: JAMNAGAR

Application No	Name of Project	S. No.	Village	Taluka	Dist	Lease Area	Validity of lease	R O M	Near est Human Habitation	End Use	Investment in Rs	Date of Application Received by SEAC
SIA/GJ/MIN/62254/2021	LALOI LIMESTONE QUARRY AREA  (SHRI ARSHIBHAI RAMBHAI RAVALIA)	Survey No. 139 P 1	Laloi	Jamjodhpur	Jamnagar	1.00 Ha	Lol issued on 11.04.2017 for 10 years	7488 MT PA	Lalpur - 17.45 km	Construction	Rs.5 Lakh	06.07.2021  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 Limestone.

A. Basic Information of the Project:		
1.	Name of Project as per Form I	LALOI LIMESTONE QUARRY AREA Village Laloi, Taluka Jamjodhpur, District: Jamnagar in the state of Gujarat. (Area= 1.00 ha) (Survey No. 139 P 1)
2.	Address of the lease	Survey No.:139 P 1 Village:Laloi Taluka: Jamjodhpur District: Jamnagar
3.	Name of lease holder	Shri Arshibhai Rambhai Ravalia
4.	Lease area (Ha)	1.00 Ha
5.	Cluster Details	

	a. Total no. of leases in the cluster	67																					
	b. No. of TOR granted in cluster	50																					
	c. No. of EC granted in cluster	50																					
	d. Total area of the cluster	80.57.55 Ha																					
	e. Maximum individual lease area	3.2982 Ha																					
	f. Minimum individual lease area	0.8094 Ha																					
6.	Validity of lease with the date of expiry	10 years from the date of LOI issued.																					
7.	Rate of Mining (MT/Annum)	7997 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>Sr. No</th> <th>Latitude</th> <th>Longitude</th> </tr> </thead> <tbody> <tr> <td>A.</td> <td>22°06'01.53" N</td> <td>70°06'19.77" E</td> </tr> <tr> <td>B.</td> <td>22°05'55.94" N</td> <td>70°06'19.51" E</td> </tr> <tr> <td>C.</td> <td>22°05'55.79" N</td> <td>70°06'20.31" E</td> </tr> <tr> <td>D.</td> <td>22°05'54.71" N</td> <td>70°06'20.23" E</td> </tr> <tr> <td>E.</td> <td>22°05'54.87" N</td> <td>70°06'17.99" E</td> </tr> <tr> <td>F.</td> <td>22°06'01.56" N</td> <td>70°06'18.10" E</td> </tr> </tbody> </table>	Sr. No	Latitude	Longitude	A.	22°06'01.53" N	70°06'19.77" E	B.	22°05'55.94" N	70°06'19.51" E	C.	22°05'55.79" N	70°06'20.31" E	D.	22°05'54.71" N	70°06'20.23" E	E.	22°05'54.87" N	70°06'17.99" E	F.	22°06'01.56" N	70°06'18.10" E
Sr. No	Latitude	Longitude																					
A.	22°06'01.53" N	70°06'19.77" E																					
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C.	22°05'55.79" N	70°06'20.31" E																					
D.	22°05'54.71" N	70°06'20.23" E																					
E.	22°05'54.87" N	70°06'17.99" E																					
F.	22°06'01.56" N	70°06'18.10" E																					
13.	Manpower requirement	20																					
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	--																					
17.	Maximum depth of sand removal (3 m or water depth whichever is less)	--																					
18.	Width of Riverbed (m)	Not applicable																					
19.	Average depth of water at lease area (m)	35mbgl																					
20.	Depth of mining (m)	--																					
21.	Ground Water Table in meter BGL	30 m – 35 m																					
22.	Does ground water interfere approach road exit? (Yes / No)  If yes, status report of CGWA	No																					
23.	Distance between lease and main road	SH-94 at a distance of 5.57 km																					
24.	Length of kaccha road (m)	821 m																					
25.	Length of pacca road (m)	14 km																					
26.	Plan for making pacca road	No																					
27.	Source of fresh water	The water demand shall be met from the existing open well situated outside the lease area and through tanker supply.																					
28.	Water requirement (kLPD)	2.5 KLPD																					

	a. Domestic	2.0 KLPD
	b. Dust suppression	0.25 KLPD
	c. Gardening / Green belt development	0.25 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	3.54 km	<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 of NGT before Principal Bench in the O.A. NO 85/2018 ( WZ) dtd 30.09.2020</p>
	Public buildings	3.54 km		
	Inhabited sites	3.54 km		
	Protected monuments,	NA		
	Heritage sites	NA		
	National / State Highway	SH-94 at a distance of 5.57 km		
	District roads	2.52 km		
	Public roads	2.52 km		
	Railway line / area	Lalpur Railway station 18.71 Km		
	Ropeway or Ropeway trestle or station	NA		
	Bridges	NA		
	Dams	NA		
	Reservoirs	NA		
	River	--		
Canal	--			

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

### C. Details of Mining:

1.	Method of Mining (Manual / Semi-mechanized / Mechanized).	Semi-mechanized opencast.
2.	Equipments to be used for Mining bulldozers, hydraulic excavators, JCB, scrapers, loaders, Diesel Pump, etc.)	Excavator-1 Dumper- 1 Drill machinery- 1
3.	Whether it includes blasting?	No
4.	Details of Authorized Blasting Agency with date of validity certificate	NIL
5.	Procedure / SOP (in brief)	NIL
6.	Details of Blasting Parameters in brief	NIL
7.	Frequency of blasting	NIL
8.	Impact of blasting	NIL
9.	Outcome of Vibration study	NIL
10.	Blasting Activity Management Plan	NIL
11.	Use of any Chemical with quantity	NIL
12.	Precautions taken for Human Safety in brief	The risks of accident are envisaged due to the operation of equipment, failure of mine pit etc. No loose stone or debris is allowed to remain near the edges of excavation and along the sides of haul road. However, good safety practices shall be applied at the project site. All precautionary measures will be adopted and use of protective equipment will be mandatory. However, to deal the minor incidences and accidents, first aid measures at site will be provided.
13.	Crusher provided? If Yes, Measures taken for Air Pollution Control	No
14.	Compliance of DGMS Guidelines for Blasting	NIL
15.	Compliance of Sustainable Sand Mine Guidelines published by MoEFCC in 2016	NIL
16.	Whether Replenishment Rate Study is approved by District Geologist?	No

	If yes, conclude in brief
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**D. Details of Green Belt Development:**

<b>1.</b>	a. Green belt development budget	Rs. 10,000/-
	b. Green belt area / location	Along the periphery of the mine lease area.
	c. No. of trees to be planted	130
	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 basis to assess the quality of ambient air.</li> <li>· Regular water sprinkling on haul roads &amp; loading</li> </ul>

			<p>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' guidelins.</li> </ul>
	g. Others	--	--
2.	Occupational health & safety measures as per DGMS	Occupational safety and health is very closely related to productivity and good employer-employee relationship. The factors of occupational health in mining project are mainly dust and land degradation. Safety of employees during operation and maintenance etc. shall be as per Mines rules and regulations.	
		To avoid any adverse effect on the health of workers due to various pollutants, sufficient measures relating to safety and health will also be	

		<p>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 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	Registration of Workers shall be done of the lease.

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

**F. Transportation:**

1.	No. of vehicles per day carrying Minerals	3-4
2.	Fugitive dust emission control measures	<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-229 and SH-94.

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

1.	Total cost of the project (Lakh)	05		
	a. Upfront cost (Lakh)			
	b. Performance Security (Lakh)	Rs. 37,48,593.75/-		
	c. Total Royalty (Lakh)	Rs. 3,59,865/-		
	d. Weigh Bridge Cost (Lakh)			
	e. Labor cost equipment (Lakh)			
	f. Equipment protection and implementation cost (Lakh)			
	g. Green Belt Development & maintenance cost (Lakh)	0.10		
	h. Cost of EMP (Lakh)	0.5		
	i. Cost of Safety measures (Lakh)	0.10		
j. Cost of Post-Closure Mine Plan (Lakh)				
2.	Budget allocated for CER (Lakh)			
3.	Is need based survey for CER carried out? (Yes / No)  If yes, give details of activities along with Budgetary Outlay	<b>S. No.</b>	<b>Activities</b>	<b>Allocation of Fund (Rs. Lacs)</b>
		1	Health Camps	1.0

		2	Up gradation of toilets of government school in nearby villages	0.5
		3	Repair and Painting of School Building in the project village	0.5
			<b>Total</b>	<b>2.0</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	The mined-out area{0.6892 Ha} will be developed as water collection pond to store rain water. The unmined land of non-mineable area shall be used for plantation.
3.	Backfilling material and its quantity	Location of proposed dumping ground within the quarry area weather proved for presence or absence of mineral and be outside the UPL unless simultaneous backfilling as proposed or purely temporary dumping for a short period is proposed in mineralized area with technical constraints & justification.
4.	Size of void for Rain Water Harvesting after backfilling	0.6892 Ha
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 {0.6892 Ha} 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 MoEFCC-Bhopal	Not applicable

**J. Contact Details:**

<b>1.</b>	<b>Contact details of Applicant</b>	
<b>2.</b>	Name	Shri ArshibhaiRambhai Ravalia
<b>3.</b>	Address	Via Dhrafa Seth Vadala, Taluka: Jamjodhpur, District: Jamnagar-360520
<b>4.</b>	Contact no.	8160434503
<b>5.</b>	Email Id	<a href="mailto:ravaliyaarshi.jamc3@gmail.com">ravaliyaarshi.jamc3@gmail.com</a>
<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.	8141255530
<b>10.</b>	Email Id	<a href="mailto:eis.gujarat@gmail.com">eis.gujarat@gmail.com</a>

**Deliberation:**

- Shri Rishabh Sehgal from M/s. Enviro Infra Solutions Pvt. Ltd. presented the details of the project before the Committee on behalf the PP and the PP has submitted the Authorization letter for same.
- Committee deliberated on method of mining, rate of mining, cluster situation created, no. of working hours and no. of workers, EMP, CER budget and its activities, Green belt development etc.
- Distance of the lease from Environmental Sensitivities was also discussed and found as per the prescribed standards.
- Committee noted that the proposal is involved in mining of Limestone by Semi-Mechanized method of mining without blasting.

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.**

**21. LIMESTONE MINING, DIST: JAMNAGAR**

Application No	Name of Project	S. No.	Village	Taluka	Dist	Lease Area	Validity of lease	R O M	Near est Human Habitation	End Use	Investment in Rs	Date of Application Received by SEAC
SIA/GJ/MIN/62281/2021	BHOJ ABEDI BUILDING LIMESTONE QUARRY  (SHRI ARSHI BHAI PARBATBHAI GAGIYA)	Survey No. 226 Paiki 44	Bhojabedi	Jamjodhpur	Jamnagar	2.000 Ha	Lol issued on 15.04.2017 for 10 years	7997 MTPA	2.07 km	Construction	Rs.10 lakh	06.07.2021  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 Limestone.

A. Basic Information of the Project:		
1.	Name of Project as per Form I	BHOJABEDI BUILDING LIMESTONE QUARRY Village Bhojabedi, Taluka Jamjodhpur, District: Jamnagar in the state of Gujarat. (Area= 2 ha) (Survey No. 226 Paiki 44)
2.	Address of the lease	Survey No.:226 Paiki 44 Village:Bhojabedi Taluka: Jamjodhpur District: Jamnagar
3.	Name of lease holder	Shri Arshibhai Parbatbhai Gagiya
4.	Lease area (Ha)	2.00 Ha
5.	Cluster Details	
	a. Total no. of leases in the cluster	67
	b. No. of TOR granted in cluster	50
	c. No. of EC granted in cluster	50
	d. Total area of the cluster	80.57.55 Ha
	e. Maximum individual lease area	3.2982 Ha
	f. Minimum individual lease area	0.8094 Ha

6.	Validity of lease with the date of expiry	10 years from the date of LOI issued.		
7.	Rate of Mining (MT/Annum)	7997 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	<b>Sr. No</b>	<b>Latitude</b>	<b>Longitude</b>
		A.	22°04'57.50"N	70°05'16.70" E
		B.	22°04'52.65"N	70°05'23.72" E
		C.	22°04'51.40"N	70°05'24.70" E
		D.	22°04'51.87"N	70°05'20.99" E
		E.	22°04'50.30"N	70°05'19.89" E
		F.	22°04'55.20"N	70°05'16.00" E
		G.	22°04'55.37"N	70°05'16.79" E
13.	Manpower requirement	20		
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	--		
17.	Maximum depth of sand removal (3 m or water depth whichever is less)	--		
18.	Width of Riverbed (m)	Not applicable		
19.	Average depth of water at lease area (m)	35 mbgl		
20.	Depth of mining (m)	--		
21.	Ground Water Table in meter BGL	30 m – 35 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-229 & SH-94 at a distance of 6.55 km		
24.	Length of kaccha road (m)	833 m		
25.	Length of pacca road (m)	12.1 km		
26.	Plan for making pacca road	No		
27.	Source of fresh water	The water demand shall be met from the existing open well situated outside the lease area and through tanker supply.		
28.	Water requirement (kLPD)	2.5 KLPD		
	a. Domestic	2.0 KLPD		
	b. Dust suppression	0.25 KLPD		
	c. Gardening / Green belt development	0.25 KLPD		
	d. others	NIL		
29.	Whether the Undertaking is submitted for	Yes		

identical information provided in Form I, Approved Mining Plan, Project Details validated by District Geologist, Pre-Feasibility Report, Lease Document, Environment Management Plan and other documents

**B. Environmental Sensitivities:**

Sr No.	Environmental Sensitivities	Actual Distance	Minimum Distance	Reference
1.	Residential	2.07 km	<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 of NGT before Principal Bench in the O.A. NO 85/2018 ( WZ) dtd 30.09.2020</p>
	Public buildings	2.07 km		
	Inhabited sites	2.07 km		
	Protected monuments,	NA		
	Heritage sites	NA		
	National / State Highway	SH-229 & SH-94 at a distance of 6.55 km		
	District roads	1.90 km		
	Public roads	1.90 km		
	Railway line / area	Jamjodhpur Railway station 20.51 Km		
	Ropeway or Ropeway trestle or station	NA		
	Bridges	NA		
	Dams	NA		
	Reservoirs	NA		
	River	--		
	Canal	--		
Lakes	--			
Tanks	--			

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

**C. Details of Mining:**

1.	Method of Mining (Manual / Semi-mechanized / Mechanized).	Semi-mechanized opencast.
2.	Equipments to be used for Mining bulldozers, hydraulic excavators, JCB, scrapers, loaders, Diesel Pump, etc.)	Excavator-1 Dumper- 1 Drill machinery- 1
3.	Whether it includes blasting?	No
4.	Details of Authorized Blasting Agency with date of validity certificate	NIL
5.	Procedure / SOP (in brief)	NIL
6.	Details of Blasting Parameters in brief	NIL
7.	Frequency of blasting	NIL
8.	Impact of blasting	NIL
9.	Outcome of Vibration study	NIL
10.	Blasting Activity Management Plan	NIL
11.	Use of any Chemical with quantity	NIL
12.	Precautions taken for Human Safety in brief	The risks of accident are envisaged due to the operation of equipment, failure of mine pit etc. No loose stone or debris is allowed to remain near the edges of excavation and along the sides of haul road. However, good safety practices shall be applied at the project site. All precautionary measures will be adopted and use of protective equipment will be mandatory. However, to deal the minor incidences and accidents, first aid measures at site will be provided.
13.	Crusher provided? If Yes, Measures taken for Air Pollution Control	No
14.	Compliance of DGMS Guidelines for Blasting	NIL
15.	Compliance of Sustainable Sand Mine Guidelines published by MoEFCC in 2016	NIL
16.	Whether Replenishment Rate Study is approved by District Geologist?	No

	If yes, conclude in brief
--	---------------------------

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

<b>1.</b>	a. Green belt development budget	Rs. 20,000/-
	b. Green belt area / location	Along the periphery of the mine lease area.
	c. No. of trees to be planted	175
	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 roads &amp; loading points will be carried out.</li> </ul>

			<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</li> </ul>	

		<p>masks, helmets, shoes, safety awareness programs, awards, posters, slogans related to safety etc.</p> <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.

**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-229 and SH-94.

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

1.	Total cost of the project (Lakh)	10									
	a. Upfront cost (Lakh)										
	b. Performance Security (Lakh)	Rs. 37,48,593.75/-									
	c. Total Royalty (Lakh)	Rs. 3,59,865/-									
	d. Weigh Bridge Cost (Lakh)										
	e. Labor cost equipment (Lakh)										
	f. Equipment protection and implementation cost (Lakh)										
	g. Green Belt Development & maintenance cost (Lakh)	0.20									
	h. Cost of EMP (Lakh)	1.0									
	i. Cost of Safety measures (Lakh)	0.30									
j. Cost of Post-Closure Mine Plan (Lakh)											
2.	Budget allocated for CER (Lakh)										
3.	Is need based survey for CER carried out? (Yes / No)  If yes, give details of activities along with Budgetary Outlay	<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>Health Camps</td> <td>1.0</td> </tr> <tr> <td>2</td> <td>Up gradation of toilets of government school in nearby villages</td> <td>0.5</td> </tr> </tbody> </table>	S. No.	Activities	Allocation of Fund (Rs. Lacs)	1	Health Camps	1.0	2	Up gradation of toilets of government school in nearby villages	0.5
		S. No.	Activities	Allocation of Fund (Rs. Lacs)							
		1	Health Camps	1.0							
2	Up gradation of toilets of government school in nearby villages	0.5									

		3	Repair and Painting of School Building in the project village	0.5
			<b>Total</b>	<b>2.0</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	The mined-out area{1.00 Ha} will be developed as water collection pond to store rain water. The unmined land of non-mineable area shall be used for plantation.
3.	Backfilling material and its quantity	Location of proposed dumping ground within the quarry area weather proved for presence or absence of mineral and be outside the UPL unless simultaneous backfilling as proposed or purely temporary dumping for a short period is proposed in mineralized area with technical constraints & justification.
4.	Size of void for Rain Water Harvesting after backfilling	1.00 Ha
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 {1.00 Ha} 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 MoEFCC-Bhopal	Not applicable

**J. Contact Details:**

1.	<b>Contact details of Applicant</b>	
2.	Name	Shri Arshibhai Parbatbhai Gagiya
3.	Address	Village- Laloj, Taluka- Jamjodhpur, Dist-

		Jamnagar, Gujarat 360520
4.	Contact no.	8160434503
5.	Email Id	arshigagiya.jamc3@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.	8141255530
10.	Email Id	eis.gujarat@gmail.com

**Deliberation:**

- Shri Rishabh Sehgal from M/s. Enviro Infra Solutions Pvt. Ltd. presented the details of the project before the Committee on behalf the PP and the PP has submitted the Authorization letter for same.
- Committee deliberated on method of mining, rate of mining, cluster situation created, no. of working hours and no. of workers, EMP, CER budget and its activities, Green belt development etc.
- Distance of the lease from Environmental Sensitivities was also discussed and found as per the prescribed standards.
- Committee noted that the proposal is involved in mining of Limestone by Semi-Mechanized method of mining without blasting.

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.**

**22. LIMESTONE MINING, DIST: JAMNAGAR**

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

												C
SIA/GJ/MIN/62137/2021	PATAN BUILDING LIMESTONE QUARRY  (M/S KANDHALIEY ENTERPRISE 3)	Survey No. 197 P	Patan	Jamjodhpur	Jamnagar	4.32 Ha	LoI issued on 25.04.2017 for 10 years	11,235 MT PA	Jamjodhpur - 10.20 km	Construction	21.6 Lakh	06.07.2021  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 Limestone.

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

1.	Name of Project as per Form I	PATAN BUILDING LIMESTONE QUARRY Village Patan, Taluka Jamjodhpur, District: Jamnagar in the state of Gujarat. (Area= 4.32 ha)(Survey No. 197 P)
2.	Address of the lease	Survey No.:197 P Village:Patan Taluka: Jamjodhpur District: Jamnagar
3.	Name of lease holder	M/s Kandhaliey Enterprise
4.	Lease area (Ha)	4.32Ha
5.	Cluster Details	
	a. Total no. of leases in the cluster	07
	b. No. of TOR granted in cluster	02
	c. No. of EC granted in cluster	02
	d. Total area of the cluster	32.50.00 Ha
	e. Maximum individual lease area	4.90.00 Ha
	f. Minimum individual lease area	4.00.00 Ha
6.	Validity of lease with the date of expiry	10 years from the date of LOI issued.
7.	Rate of Mining (MT/Annum)	11,999 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	<b>Sr. No</b>	<b>Latitude</b>	<b>Longitude</b>
		A.	21°48'54.79" N	70°03'08.77" E
		B.	21°48'52.35" N	70°03'14.15" E
		C.	21°48'49.98" N	70°03'19.08" E
		D.	21°48'54.03" N	70°03'21.55" E
		E.	21°48'56.52" N	70°03'13.62" E
		F.	21°48'57.75" N	70°03'14.26" E
		G.	21°48'59.07" N	70°03'11.52" E
13.	Manpower requirement	20		
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	--		
17.	Maximum depth of sand removal (3 m or water depth whichever is less)	--		
18.	Width of Riverbed (m)	Not applicable		
19.	Average depth of water at lease area (m)	35 mbgl		
20.	Depth of mining (m)	--		
21.	Ground Water Table in meter BGL	30 m – 35 m		
22.	Does ground water interfere approach road exit? (Yes / No)  If yes, status report of CGWA	No		
23.	Distance between lease and main road	SH-94 at a distance of 8.22 km		
24.	Length of kaccha road (m)	820 m		
25.	Length of pacca road (m)	13 km		
26.	Plan for making pacca road	No		
27.	Source of fresh water	The water demand shall be met from the existing open well situated outside the lease area and through tanker supply.		
28.	Water requirement (KLPD)	5 KLPD		
	a. Domestic	2.0 KLPD		
	b. Dust suppression	1.0 KLPD		
	c. Gardening / Green belt development	2.0KLPD		
	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	2.28 km	100 m (When Blasting is not involved)  Or 200 m (When Blasting is involved)	As per CPCB Distance Criteria And order of of NGT before Principal Bench in the O.A. NO 85/2018 ( WZ) dtd 30.09.2020
	Public buildings	2.28 km		
	Inhabited sites	2.28 km		
	Protected monuments,	NA		
	Heritage sites	NA		
	National / State Highway	SH-94 at a distance of 8.22 km		
	District roads	1.96 km		
	Public roads	1.96 km		
	Railway line / area	Jamjodhpur Railway station 9.63 Km		
	Ropeway or Ropeway trestle or station	NA		
	Bridges	NA		
	Dams	NA		
	Reservoirs	NA		
	River	--		
	Canal	--		
Lakes	--			
Tanks	--			
2	■ Eco-Sensitive Zone (if notified)	--	>1 km / outside the notified Eco-Sensitive Zone	Vide directives of MOEF&CC dtd 16.07.2020
3	Eco-Sensitive Zone (if not notified)	--	>1 km and <10 km = Prior Clearance from	Vide directives of MOEF&CC dtd

	notified)		NBWL is required	16.07.2020
4	Distance of Coastal line from the site	--	>500 M from HTL	Amended CRZ Notification 2011

**C. Details of Mining:**

1.	Method of Mining (Manual / Semi-mechanized / Mechanized).	Semi-mechanized opencast.
2.	Equipments to be used for Mining bulldozers, hydraulic excavators, JCB, scrapers, loaders, Diesel Pump, etc.)	Excavator-1 Dumper- 1 Drill machinery- 1
3.	Whether it includes blasting?	No
4.	Details of Authorized Blasting Agency with date of validity certificate	NIL
5.	Procedure / SOP (in brief)	NIL
6.	Details of Blasting Parameters in brief	NIL
7.	Frequency of blasting	NIL
8.	Impact of blasting	NIL
9.	Outcome of Vibration study	NIL
10.	Blasting Activity Management Plan	NIL
11.	Use of any Chemical with quantity	NIL
12.	Precautions taken for Human Safety in brief	The risks of accident are envisaged due to the operation of equipment, failure of mine pit etc. No loose stone or debris is allowed to remain near the edges of excavation and along the sides of haul road. However, good safety practices shall be applied at the project site. All precautionary measures will be adopted and use of protective equipment will be mandatory. However, to deal the minor incidences and accidents, first aid measures at site will be provided.
13.	Crusher provided? If Yes, Measures taken for Air Pollution Control	No
14.	Compliance of DGMS Guidelines for Blasting	NIL
15.	Compliance of Sustainable Sand Mine Guidelines published by MoEFCC in 2016	NIL
16.	Whether Replenishment Rate Study is approved by District Geologist?  If yes, conclude in brief	No

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

1.	a. Green belt development budget	Rs.54,000/-
	b. Green belt area / location	Along the periphery of the mine lease area.

c. No. of trees to be planted	145
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 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</li> </ul>

			<p>intervals will be done to reduce the generation of noise.</p> <ul style="list-style-type: none"> <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	<p>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.</p>	<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	<p>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.</p>	<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.
-----------------------------------	--

**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-229 and SH-94.

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

1.	Total cost of the project (Lakh)	21.6												
	a. Upfront cost (Lakh)													
	b. Performance Security (Lakh)	Rs. 56,24,531.25/-												
	c. Total Royalty (Lakh)	Rs. 5,39,9555/-												
	d. Weigh Bridge Cost (Lakh)													
	e. Labor cost equipment (Lakh)													
	f. Equipment protection and implementation cost (Lakh)													
	g. Green Belt Development & maintenance cost (Lakh)	0.54												
	h. Cost of EMP (Lakh)	2.16												
	i. Cost of Safety measures (Lakh)	0.54												
j. Cost of Post-Closure Mine Plan (Lakh)														
2.	Budget allocated for CER (Lakh)													
3.	Is need based survey for CER carried out? (Yes / No)  If yes, give details of activities along with Budgetary Outlay	<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>Health Camps</td> <td>1.0</td> </tr> <tr> <td>2</td> <td>Up gradation of toilets of government school in nearby villages</td> <td>0.5</td> </tr> <tr> <td>3</td> <td>Repair and Painting of School</td> <td>0.5</td> </tr> </tbody> </table>	S. No.	Activities	Allocation of Fund (Rs. Lacs)	1	Health Camps	1.0	2	Up gradation of toilets of government school in nearby villages	0.5	3	Repair and Painting of School	0.5
		S. No.	Activities	Allocation of Fund (Rs. Lacs)										
		1	Health Camps	1.0										
		2	Up gradation of toilets of government school in nearby villages	0.5										
3	Repair and Painting of School	0.5												

			Building in the project village	
			<b>Total</b>	<b>2.0</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	The mined-out area {3.9505 Ha} will be developed as water collection pond to store rain water. The unmined land of non-mineable area shall be used for plantation.
3.	Backfilling material and its quantity	Location of proposed dumping ground within the quarry area weather proved for presence or absence of mineral and be outside the UPL unless simultaneous backfilling as proposed or purely temporary dumping for a short period is proposed in mineralized area with technical constraints & justification.
4.	Size of void for Rain Water Harvesting after backfilling	3.9505 Ha
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 {3.9505 Ha} 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 MoEFCC-Bhopal	Not applicable

**J. Contact Details:**

1.	<b>Contact details of Applicant</b>	
2.	Name	M/s Kandhaliey Enterprise
3.	Address	501- Jyoti Tower Apartment, Indira Marg, Jamnagar Gujarat-361004
4.	Contact no.	9723537377

5.	Email Id	kandhli2.jamc4@gmail.com
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.	8141255530
10.	Email Id	eis.gujarat@gmail.com

**Deliberation:**

- Shri Rishabh Sehgal from M/s. Enviro Infra Solutions Pvt. Ltd. presented the details of the project before the Committee on behalf the PP and the PP has submitted the Authorization letter for same.
- Committee deliberated on method of mining, rate of mining, cluster situation created, no. of working hours and no. of workers, EMP, CER budget and its activities, Green belt development etc.
- Distance of the lease from Environmental Sensitivities was also discussed and found as per the prescribed standards.
- Committee noted that the proposal is involved in mining of Limestone by Semi-Mechanized method of mining without blasting.
- While deliberating on the CER activities, PP was asked to carry out CER activities in beneficiation of the Environment conservation, i.e. rain water harvesting / appropriate plantation etc.

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.**

**23. BUILDING LIMESTONE MINING, DIST: JAMNAGAR**

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

												by SEA C
SIA/GJ/MIN/ 62148/2021	PATA N BUILDI NG LIMES TONE QUAR RY  (M/S KAND HALIE Y ENTE RPRIS E 4)	Sur vey No. 19 7 P	Pat an	Jamjo dhpur	Jam naga r	4.9 0.0 0 Ha	Lol issue d on 25.04 .2017 for 10 years	11, 23 5 MT PA	Jamjo dhpur - 10.20 km	constr uction	Rs.2 4.5 Lakh	06.07 .2021  New proje ct

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

A. Basic Information of the Project:		
1.	Name of Project as per Form I	PATAN BUILDING LIMESTONE QUARRY Village Patan, Taluka Jamjodhpur, District: Jamnagar in the state of Gujarat. (Area= 4.90 ha) (Survey No. 197 P)
2.	Address of the lease	Survey No. 197 P Village Patan, Taluka Jamjodhpur, District: Jamnagar in the state of Gujarat
3.	Name of lease holder	M/s Kandhaliey Enterprise
4.	Lease area (Ha)	4.90 Ha
5.	Cluster Details	
	a. Total no. of leases in the cluster	7
	b. No. of TOR granted in cluster	0
	c. No. of EC granted in cluster	0
	d. Total area of the cluster	32.50 ha
	e. Maximum individual lease area	4.90 ha
	f. Minimum individual lease area	4.90 ha
6.	Validity of lease with the date of expiry	22 year from the date of LOI issued.
7.	Rate of Mining (MT/Annum)	11,235 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	Not applicable

	dry river bed)	
12.	All coordinates of the lease area as per Approved Mining Plan	1. 21°48'48.24" N to 70°03'31.55" E 2. 21°48'47.80" N to 70°03'31.31" E 3. 21°48'44.88" N to 70°03'29.32" E 4. 21°48'50.24" N to 70°03'19.10" E 5. 21°48'55.13" N to 70°03'22.21" E 6. 21°48'52.29" N to 70°03'25.97" E 7. 21°48'49.89" N to 70°03'28.36" E
13.	Manpower requirement	20
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	NA
17.	Maximum depth of Limestone removal (3 m or water depth whichever is less)	5m
18.	Width of Riverbed (m)	Not applicable
19.	Average depth of water at lease area (m)	35 mbgl
20.	Depth of mining (m)	6m Maximum
21.	Ground Water Table in meter BGL	30 m – 35 m
22.	Does ground water interfere approach road exit? (Yes / No) If yes, status report of CGWA	No
23.	Distance between lease and main road	SH 94- 8.22 km
24.	Length of kaccha road (m)	700m
25.	Length of pacca road (m)	8.22km
26.	Plan for making pacca road	No
27.	Source of fresh water	The water demand shall be met from the existing open well situated outside the lease area and through tanker supply.
28.	Water requirement (kLPD)	5 KLPD
	a. Domestic	2.5 KLPD
	b. Dust suppression	1.0 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	10.20km	100 m (When Blasting is	As per CPCB Distance Criteria And order of
	Public buildings	10.20km		

	Inhabited sites	10.20km	not involved)  <b>Or</b>  200 m  (When Blasting is involved)	NGT before Principal Bench in the O.A. NO 85/2018 (WZ) dtd 30.09.2020	
	Protected monuments,	NA			
	Heritage sites	NA			
	National / State Highway	SH 94- 8.22km			
	District roads	8.22 km			
	Public roads	700m			
	Railway line / area	Jamjodhpur Railway station 9.63 Km (Aerial)			
	Ropeway or Ropeway trestle or station	NA			
	Bridges	NA			
	Dams	NA			
	Reservoirs	NA			
	River	--			
	Canal	NA			
	Lakes	--			
	Tanks	--			
2.	Eco-Sensitive Zone (if notified)	--	>1 km / outside the notified Eco-Sensitive Zone	Vide directives MOEF&CC dtd 16.07.2020	of
3.	Eco-Sensitive Zone (if not notified)	--	>1 km and <10 km = Prior Clearance from NBWL is required	Vide directives MOEF&CC 16.07.2020	of dtd
4.	Distance of Coastal line from the site	--	>500 M from HTL	Amended CRZ Notification 2011	

**C. Details of Mining:**

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

2.	Equipments to be used for Mining bulldozers, hydraulic excavators, JCB, scrapers, loaders, Diesel Pump, etc.)	Excavator-1 Dumper- 1 Drill machinery- 1
3.	Whether it includes blasting?	No
4.	Details of Authorized Blasting Agency with date of validity certificate	NIL
5.	Procedure / SOP (in brief)	NIL
6.	Details of Blasting Parameters in brief	NIL
7.	Frequency of blasting	NIL
8.	Impact of blasting	NIL
9.	Outcome of Vibration study	NIL
10.	Blasting Activity Management Plan	NIL
11.	Use of any Chemical with quantity	NIL
12.	Precautions taken for Human Safety in brief	The risks of accident are envisaged due to the operation of equipment, failure of mine pit etc. No loose stone or debris is allowed to remain near the edges of excavation and along the sides of haul road. However, good safety practices shall be applied at the project site. All precautionary measures will be adopted and use of protective equipment will be mandatory. However, to deal the minor incidences and accidents, first aid measures at site will be provided.
13.	Crusher provided? If Yes, Measures taken for Air Pollution Control	No
14.	Compliance of DGMS Guidelines for Blasting	NIL
15.	Compliance of Sustainable Sand Mine Guidelines published by MoEFCC in 2016	NIL
16.	Whether Replenishment Rate Study is approved by District Geologist?  If yes, conclude in brief	No

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

1.	a. Green belt development budget	Rs. 58500/-
	b. Green belt area / location	Along the periphery of the mine lease area.
	c. No. of trees to be planted	195
	d. Types of trees to be planted	Indigenous species in consultation with local authority.

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

1.	Details of EMP	Impact	Mitigation Measures
	a. Land Environment	Mining is essentially an excavation of mineral. The land environment is greatly affected by it. Specially, in case of mining which is being carried out by semi-mechanized, it is expected to affect the land environment essentially.	· Access roads from public roads will be aligned in such a way that it would cause least damage.

			<ul style="list-style-type: none"> <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	<p>Because of the open Cast &amp; 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.</p>	<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	<p>Dust due to excavation of material and transportation of excavated material from the project site to dumping sites area.</p>	<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</li> </ul>

			<ul style="list-style-type: none"> <li>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 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</li> </ul>

			labors or vehicles be laid in adjoining area, this will prevent fragmentation, encroachment and human – animal encounter.
	f. Human Environment	The impact of mining activity in the area is positive on the socio-economic environment of the region. The proposed mine will be providing employment to local population and it will be give preference to the local people whenever there is requirement of man power.	<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 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</li> </ul>

		around the lease boundary, roads, dumps etc.
3.	Route plan in brief	The excavated material loaded manually in tipper for transported up to consumer by following the pacca road linked with project site. This pacca road is further connected with SH-94.

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

1.	Total cost of the project (Lakh)	24.5															
	a. Upfront cost (Lakh)																
	b. Performance Security (Lakh)	56,24,062.5/-															
	c. Total Royalty (Lakh)	5,39,910/-															
	d. Weigh Bridge Cost (Lakh)																
	e. Labor cost equipment (Lakh)																
	f. Equipment protection and implementation cost (Lakh)																
	g. Green Belt Development & maintenance cost (Lakh)	0.585															
	h. Cost of EMP (Lakh)	2.0															
	i. Cost of Safety measures (Lakh)	0.20															
	j. Cost of Post-Closure Mine Plan (Lakh)																
2.	Budget allocated for CER (Lakh)																
3.	Is need based survey for CER carried out? (Yes / No)  If yes, give details of activities along with Budgetary Outlay	<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>Health Camps</td> <td>1.0</td> </tr> <tr> <td>2</td> <td>Up gradation of toilets of government school in nearby villages</td> <td>0.5</td> </tr> <tr> <td>3</td> <td>Repair and Painting of School Building in the project village</td> <td>0.5</td> </tr> <tr> <td></td> <td><b>Total</b></td> <td><b>2.0</b></td> </tr> </tbody> </table>	S. No.	Activities	Allocation of Fund (Rs. Lacs)	1	Health Camps	1.0	2	Up gradation of toilets of government school in nearby villages	0.5	3	Repair and Painting of School Building in the project village	0.5		<b>Total</b>	<b>2.0</b>
S. No.	Activities	Allocation of Fund (Rs. Lacs)															
1	Health Camps	1.0															
2	Up gradation of toilets of government school in nearby villages	0.5															
3	Repair and Painting of School Building in the project village	0.5															
	<b>Total</b>	<b>2.0</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	The mined-out area (2.5000 ha.) will be developed as water collection pond to store rain water. The unmined land of non-mineable area shall be used for plantation.

3.	Backfilling material and its quantity	Backfilling of voids is not done
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	Fencing will done all along the project area
6.	Display of Caution Boards at strategic locations on the periphery of the pit area	Display of Caution Boards at strategic locations on the periphery of the pit area will be done
7.	Final Use of reservoir/ reclaimed land	The mined-out area (3.9505 ha.) will be developed as water collection pond to store ran water. The unmined land of non-mineable area shall be used for plantation.

I. Details of Legal Action / Court Case:

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

J. Contact Details:

1.	<b>Contact details of Applicant</b>	
2.	Name	M/s Kandhaliey Enterprise
3.	Address	501- Jyoti Tower Apartment, Indira Marg,  Jamnagar Gujarat 361004
4.	Contact no.	9723537377
5.	Email Id	<a href="mailto:kandhli4.jamc4@gmail.com">kandhli4.jamc4@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 Vasundhra, Delhi-NCR, Ghaziabad-201012
9.	Contact no.	8588896648
10.	Email Id	<a href="mailto:eis.gujarat@gmail.com">eis.gujarat@gmail.com</a>

**Deliberation:**

- Shri Rishabh Sehgal from M/s. Enviro Infra Solutions Pvt. Ltd. presented the details of the project before the Committee on behalf the PP and the PP has submitted the Authorization letter for same.

- Committee deliberated on method of mining, rate of mining, cluster situation created, no. of working hours and no. of workers, EMP, CER budget and its activities, Green belt development etc.
- Distance of the lease from Environmental Sensitivities was also discussed and found as per the prescribed standards.
- Committee noted that the proposal is involved in mining of Building Limestone by Semi-Mechanized method of mining without blasting.
- While deliberating on the CER activities, PP was asked to carry out CER activities in beneficiation of the Environment conservation, i.e. rain water harvesting / appropriate plantation etc.

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.**

#### 24. BUILDING LIMESTONE MINING, DIST: JAMNAGAR

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
SIA/GJ/MIN/62111/2021	PATAN BUILDING LIMESTONE QUARRY  (DINE SHBAI VITTHALBHAI)	Survey No. 197 P	Patan	Jamjodhpur	Jamnagar	4.900 Ha	Lol issued on 25.04.2017 for 10 years	11, 23 5 MT PA	Jamjodhpur - 8.71 km	construction	Rs.24.5 Lakh	06.07.2021  New project

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 Building Limestone.

A. Basic Information of the Project:																					
1.	Name of Project as per Form I	PATAN BUILDING LIMESTONE QUARRY Village Patan, Taluka Jamjodhpur, District: Jamnagar in the state of Gujarat. (Area= 4.90 ha)(Survey No. 197 P)																			
2.	Address of the lease	Survey No.:197 P Village:Patan Taluka: Jamjodhpur District: Jamnagar																			
3.	Name of lease holder	M/s Kandhaliey Enterprise																			
4.	Lease area (Ha)	4.90 Ha																			
5.	Cluster Details																				
	a. Total no. of leases in the cluster	07																			
	b. No. of TOR granted in cluster	02																			
	c. No. of EC granted in cluster	02																			
	d. Total area of the cluster	32.50.00 Ha																			
	e. Maximum individual lease area	4.90.00 Ha																			
	f. Minimum individual lease area	4.00.00 Ha																			
6.	Validity of lease with the date of expiry	10 years from the date of LOI issued.																			
7.	Rate of Mining (MT/Annum)	11,999 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>Sr. No</th> <th>Latitude</th> <th>Longitude</th> </tr> </thead> <tbody> <tr> <td>A.</td> <td>21°49'22.97" N</td> <td>70°02'27.92" E</td> </tr> <tr> <td>B.</td> <td>21°49'21.13" N</td> <td>70°02'38.80" E</td> </tr> <tr> <td>C.</td> <td>21°49'20.21" N</td> <td>70°02'39.98" E</td> </tr> <tr> <td>D.</td> <td>21°49'15.37" N</td> <td>70°02'36.41" E</td> </tr> <tr> <td>E.</td> <td>21°49'20.24" N</td> <td>70°02'26.80" E</td> </tr> </tbody> </table>		Sr. No	Latitude	Longitude	A.	21°49'22.97" N	70°02'27.92" E	B.	21°49'21.13" N	70°02'38.80" E	C.	21°49'20.21" N	70°02'39.98" E	D.	21°49'15.37" N	70°02'36.41" E	E.	21°49'20.24" N	70°02'26.80" E
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E.	21°49'20.24" N	70°02'26.80" E																			
13.	Manpower requirement	20																			
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	
17.	Maximum depth of sand removal (3 m or water depth whichever is less)	--
18.	Width of Riverbed (m)	Not applicable
19.	Average depth of water at lease area (m)	35mbgl
20.	Depth of mining (m)	--
21.	Ground Water Table in meter BGL	30 m – 35 m
22.	Does ground water interfere approach road exit? (Yes / No)  If yes, status report of CGWA	No
23.	Distance between lease and main road	SH-94 at a distance of 8.90 km
24.	Length of kaccha road (m)	823 m
25.	Length of pacca road (m)	11.5 km
26.	Plan for making pacca road	No
27.	Source of fresh water	The water demand shall be met from the existing open well situated outside the lease area and through tanker supply.
28.	Water requirement (KLPD)	5 KLPD
	a. Domestic	2.0 KLPD
	b. Dust suppression	1.0 KLPD
	c. Gardening / Green belt development	2.0KLPD
	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	1.14 km	100 m  (When Blasting is not involved)  <b>Or</b>  200 m  (When Blasting is involved)	As per CPCB Distance Criteria And order of of NGT before Principal Bench in the O.A. NO 85/2018 ( WZ) dtd 30.09.2020
	Public buildings	1.14 km		
	Inhabited sites	1.14 km		
	Protected monuments,	NA		
	Heritage sites	NA		
	National / State Highway	SH-94 at a distance of 8.90 km		
	District roads	600 m		

	Public roads	600 m		
	Railway line / area	Jamjodhpur Railway station 10.2 Km		
	Ropeway or Ropeway trestle or station	NA		
	Bridges	NA		
	Dams	NA		
	Reservoirs	NA		
	River	--		
	Canal	--		
	Lakes	--		
	Tanks	--		
2	■ Eco-Sensitive Zone (if notified)	--	>1 km / outside the notified Eco-Sensitive Zone	Vide directives of MOEF&CC dtd 16.07.2020
3	Eco-Sensitive Zone (if not notified)	--	>1 km and <10 km = Prior Clearance from NBWL is required	Vide directives of MOEF&CC dtd 16.07.2020
4	Distance of Coastal line from the site	--	>500 M from HTL	Amended CRZ Notification 2011

**C. Details of Mining:**

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

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

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

1.	a. Green belt development budget	Rs. 61,250/-
	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	<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</li> </ul>

		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.	water levels and quality in the existing open wells and bore wells in the vicinity will be carried out. If found necessary, additional observation wells will be sunk for monitoring the water levels and quality around the mine representing both upstream and downstream conditions.
c.	Air Environment	Dust due to excavation of material and transportation of excavated material from the project site to dumping sites area.	<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 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-	<ul style="list-style-type: none"> <li>· Training of employees for use of safety appliances and</li> </ul>

		<p>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.</p>	<p>first aid in vocational training center.</p> <ul style="list-style-type: none"> <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 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	Registration of Workers shall be done of the lease.	

	Building and other Construction Workers' (regulation of Employment & Conditions of Service) Act, 1996 and as Beneficiaries with the Gujarat Building and other Construction Workers Welfare Boards is obtained or not?	
d.	Insurance of Workers	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-229 and SH-94.

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

1.	Total cost of the project (Lakh)	24.5
	a. Upfront cost (Lakh)	
	b. Performance Security (Lakh)	Rs. 56,24,531.25/-
	c. Total Royalty (Lakh)	Rs. 5,39,9555/-

	d. Weigh Bridge Cost (Lakh)																
	e. Labor cost equipment (Lakh)																
	f. Equipment protection and implementation cost (Lakh)																
	g. Green Belt Development & maintenance cost (Lakh)	0.61															
	h. Cost of EMP (Lakh)	2.45															
	i. Cost of Safety measures (Lakh)	0.61															
	j. Cost of Post-Closure Mine Plan (Lakh)																
<b>2.</b>	Budget allocated for CER (Lakh)																
<b>3.</b>	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>Health Camps</td> <td>1.0</td> </tr> <tr> <td>2</td> <td>Up gradation of toilets of government school in nearby villages</td> <td>0.5</td> </tr> <tr> <td>3</td> <td>Repair and Painting of School Building in the project village</td> <td>0.5</td> </tr> <tr> <td></td> <td><b>Total</b></td> <td><b>2.0</b></td> </tr> </tbody> </table>	S. No.	Activities	Allocation of Fund (Rs. Lacs)	1	Health Camps	1.0	2	Up gradation of toilets of government school in nearby villages	0.5	3	Repair and Painting of School Building in the project village	0.5		<b>Total</b>	<b>2.0</b>
S. No.	Activities	Allocation of Fund (Rs. Lacs)															
1	Health Camps	1.0															
2	Up gradation of toilets of government school in nearby villages	0.5															
3	Repair and Painting of School Building in the project village	0.5															
	<b>Total</b>	<b>2.0</b>															

**H. Restoration / Reclamation Plan:**

<b>1.</b>	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.
<b>2.</b>	Post mining closure plan	The mined-out area{2.500 Ha} will be developed as water collection pond to store rain water. The unmined land of non-mineable area shall be used for plantation.
<b>3.</b>	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.
<b>4.</b>	Size of void for Rain Water Harvesting after backfilling	2.500 Ha
<b>5.</b>	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
<b>6.</b>	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 {2.500 Ha} will be developed as water collection pond to store rain water. The unmined land of non-mineable area shall be used for plantation.
<b>I. Details of Legal Action / Court Case:</b>		
1.	Details of Pending Court matter / Public Litigation Cases in any court of Law	Not applicable
2.	Details of Action taken by GPCB, if any	Not applicable
3.	Details of public complaint, if any	Not applicable
4.	Compliance of EC by RO-GPCB or MoEFCC-Bhopal	Not applicable
<b>J. Contact Details:</b>		
1.	<b>Contact details of Applicant</b>	
2.	Name	M/s Kandhaliey Enterprise
3.	Address	501- Jyoti Tower Apartment, Indira Marg, Jamnagar Gujarat-361004
4.	Contact no.	9723537377
5.	Email Id	kandhli2.jamc4@gmail.com
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.	8141255530
10.	Email Id	eis.gujarat@gmail.com

### Deliberation:

- Shri Rishabh Sehgal from M/s. Enviro Infra Solutions Pvt. Ltd. presented the details of the project before the Committee on behalf the PP and the PP has submitted the Authorization letter for same.
- Committee deliberated on method of mining, rate of mining, cluster situation created, no. of working hours and no. of workers, EMP, CER budget and its activities, Green belt development etc.
- Distance of the lease from Environmental Sensitivities was also discussed and found as per the prescribed standards.
- Committee noted that the proposal is involved in mining of Building Limestone by Semi-Mechanized method of mining without blasting.

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.**

**25. BLACK TRAP MINING, DIST: AMRELI**

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/62239/2021	Detad Black Trap Quarry Area  (SH REE MA RUT I STONE)	Survey No. 114 Paiky 1 B/ Paiky	Detad	Savarkundla	Amreli	4.000 Ha	Lol issued on 19.04.2016 for 14 years	90, 528 MT PA	Savarkundla – 21.27 km	Construction	Rs.20 Lakh	06.07.2021  New project

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

A. Basic Information of the Project:		
1.	Name of Project as per Form I	Detad Black Trap Quarry Area Village Detad, Taluka Savarkundla, District: Amreli in the state of Gujarat. by Shree Maruti Stone (Survey No. 114 Paiky 1 B/ Paiky)
2.	Address of the lease	Survey No.: Survey No. 114 Village: Detad Taluka: Savarkundla

		District:Amreli
3.	Name of lease holder	<b>ShriMaruti Stone</b>
4.	Lease area (Ha)	4.0 ha
5.	Cluster Details	
	a. Total no. of leases in the cluster	5
	b. No. of TOR granted in cluster	4
	c. No. of EC granted in cluster	4
	d. Total area of the cluster	13.5303
	e. Maximum individual lease area	4.0 ha
	f. Minimum individual lease area	1.63339
6.	Validity of lease with the date of expiry	
7.	Rate of Mining (MT/Annum)	90,528 m3 per annum
8.	Details of EC obtained (for expansion projects), if any	Not applicable
9.	Name of River Bed	Nil
10.	Is the river perennial / non-perennial?	Dhatardi tributary- 0.780 km
11.	Lease area (submerged / in stream / on dry river bed)	Nil
12.	All coordinates of the lease area as <b>per Approved Mining Plan</b>	1. 21°9'01.54" N to 71°21'55.02" E 2. 21°9'10.82" N to 71°22'05.57" E 3. 21°9'09.28" N to 71°22'08.66" E 4. 21°8'60.00" N to 71°21'58.12" E
13.	Manpower requirement	20
14.	Applicability of CRZ Notification	Nil
15.	Minimum Setback distance proposed to be maintained from River Bed (m)	Dhatardi tributary- 0.780 km
16.	Minimum buffer distance from bridge piers / water intake wells / irrigation structures	Surajvadi 5.13 km
17.	Maximum depth of Black trap removal (3 m or water depth whichever is less)	6m
18.	Width of Riverbed (m)	Not applicable
19.	Average depth of water at lease area (m)	60mbgl
20.	Depth of mining (m)	30m
21.	Ground Water Table in meter BGL	55-60 mbgl
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 34- 0.44 km
24.	Length of kaccha road (m)	700m
25.	Length of pacca road (m)	200m
26.	Plan for making pacca road	No
27.	Source of fresh water	The water demand shall be met from the existing open well situated outside the lease area and through tanker supply.
28.	Water requirement (KLPD)	5 KLD
	a. Domestic	2.0 KLD
	b. Dust suppression	1.5 KLD
	c. Gardening / Green belt development	1.5 KLD
	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	Yes

**B. Environmental Sensitivities:**

Sr No.	Environmental Sensitivities	Actual Distance	Minimum Distance	Reference
	Residential	Savarkundla at a distance of 21.27 km	<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 of NGT before Principal Bench in the O.A. NO 85/2018 ( WZ) dtd 30.09.2020</p>
	Public buildings	Savarkundla at a distance of 21.27 km		
	Inhabited sites	Savarkundla at a distance of 21.27 km		
	Protected monuments,	Nil		
	Heritage sites	Nil		
	National / State Highway	SH34 0.44 km		
	District roads	700 m		
	Public roads	200 m		
	Railway line / area	Jamjodhpur 9.76Km (Aerial)		
	Ropeway or Ropeway trestle or station	Nil		
	Bridges	--		
	Dams	--		
	Reservoirs	Surajvadi 5.13 km		
	River	Dhatardi tributary- 0.780 km		
	Canal	--		
	Lakes	--		
	Tanks	--		

2.	Eco-Sensitive Zone (if notified)	--	>1 km / outside the notified Eco-Sensitive Zone	Vide directives of MOEF&CC dtd 16.07.2020	
3.	Eco-Sensitive Zone (if not notified)	* Mitiyala Wildlife Sanctuary at a distance of 7.850 km.	>1 km and <10 km = Prior Clearance from NBWL is required	Vide directives of MOEF&CC dtd 16.07.2020	
4.	Distance of Coastal line from the site	--	>500 M from HTL	Amended CRZ Notification 2011	

**C. Details of Mining:**

1.	Method of Mining (Manual / Semi-mechanized / Mechanized).	Semi-mechanized opencast.
2.	Equipments to be used for Mining bulldozers, hydraulic excavators, JCB, scrapers, loaders, Diesel Pump, etc.)	Excavator-1 Dumper- 1 Drill machinery- 1
3.	Whether it includes blasting?	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 100mm.</li> <li>The depth of blast holes generally will be 6 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> </ul>

		<ul style="list-style-type: none"> <li>No fly rock will be observed in any controlled blasting. The throws of the blasted materials will be also controlled and restricted 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 be achieved through proper blast design patterns along with their proper implementation and supervision of the total blasting operations. Blasting shall be done by using short delay detonator to reduce ground vibration and control blasting shall be practiced only in Day time.</li> </ul>						
7.	Frequency of blasting	Once in a week						
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; 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 daytime as per DGMS guidelines;</li> <li>Proper warning signals will be used; 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; Effective stemming of the explosives be done in the drill holes</li> </ul>						
11.	Use of any Chemical with quantity	<ol style="list-style-type: none"> <li>A.N.F.O (A.N. 95%, F.O 5%)</li> <li>Special Gelatine</li> </ol>						
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	<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> </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.
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 with this condition.
	6.	A distance of 15 meters surrounding the magazine or store house shall be kept clear of dried grass or brush or flammable materials	Blaster will comply with this.
	7.	Where in any mine or part it is proposed to work by a system of deep-hole blasting and/or with the help of heavy machinery for its digging, excavation and removal in such manner as would not permit of compliance with the requirement of sub-regulation (1) the owner, agent or manager shall, not less than 60 days before starting such work, give notice in writing of the method of working to the Chief Inspector and the Regional Inspector; and no such work shall be commenced or 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 danger from falls of sides and material. (Rule no. 106(2)(B))	Will be comply

		8	Every magazine, or store or premises, where explosives are stored shall be 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 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>	Will be comply
		12	No person shall be appointed to be a blaster unless he is the holder of Manager's, Foreman's Mate's or Blaster's certificate. <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.
14	Compliance of Sustainable Sand Mine Guidelines published by MoEFCC in 2016	NIL		
16	Whether Replenishment Rate Study is approved by District Geologist? If yes, conclude in brief	No		

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

1.	a. Green belt development budget	30,000/-
	b. Green belt area / location	Along the periphery of the mine lease area.
	c. No. of trees to be planted	1000
	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 roads &amp; loading points will be carried out.</li> <li>• Development of green belt/plantation</li> </ul>

			around the lease boundary, roads, dumps etc.
	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</li> </ul>	

		<p>dust masks, helmets, shoes, safety awareness programs.</p> <ul style="list-style-type: none"> <li>• 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	<p>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;</p> <ul style="list-style-type: none"> <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.

**F. Transportation:**

1.	No. of vehicles per day carrying Minerals	<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>
2.	Fugitive dust emission control measures	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 SH34.
3.	Route plan in brief	<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>

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

1.	Total cost of the project (Lakh)	20 lakh									
	a. Upfront cost (Lakh)	--									
	b. Performance Security (Lakh)	11,28,76,875/-									
	c. Total Royalty (Lakh)	1,08,36,180/-									
	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)	2.0 (Proposed)									
	i. Cost of Safety measures (Lakh)	0.20									
j. Cost of Post-Closure Mine Plan (Lakh)											
2.	Budget allocated for CER (Lakh)	2.0									
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>Health Camps</td> <td>1.0</td> </tr> <tr> <td>2</td> <td>Up gradation of toilets of government</td> <td>0.5</td> </tr> </tbody> </table>	S. No.	Activities	Allocation of Fund (Rs. Lacs)	1	Health Camps	1.0	2	Up gradation of toilets of government	0.5
		S. No.	Activities	Allocation of Fund (Rs. Lacs)							
		1	Health Camps	1.0							
2	Up gradation of toilets of government	0.5									

			school in nearby villages	
		3	Repair and Painting of School Building in the project village	0.5
			<b>Total</b>	<b>2.0</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	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.
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	--
5.	Post Closure Liability / Safety aspects and Measures to be taken to avoid wild life and human accidents/ causalities	Fencing will done all along the project area
6.	Display of Caution Boards at strategic locations on the periphery of the pit area	Display of Caution Boards at strategic locations on the periphery of the pit area will be done
7.	Final Use of reservoir/ reclaimed land	The mined-out area (2.1057ha.) will be developed as water collection pond to store ran water. The unmined land of non-mineable area shall be used for plantation.

**I. Details of Legal Action / Court Case:**

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

**J. Contact Details:**

1.	Contact details of Applicant	
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2.	Name	Shri Maruti Stone
3.	Address	Village & Post: Detad, Taluka: Savarkundla, District: Amreli 364522
4.	Contact no.	9824458902
5.	Email Id	marutistone.amrelic8@gmail.com
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 Vasundhra, Delhi-NCR, Ghaziabad-201012
9.	Contact no.	8588896648
10.	Email Id	eis.gujarat@gmail.com

### Deliberation:

- Shri Rishabh Sehgal from M/s. Enviro Infra Solutions Pvt. Ltd. presented the details of the project before the Committee on behalf the PP and the PP has submitted the Authorization letter for same.
- During the presentation, while deliberating on the distance of the lease from Environmental Sensitivities, The Committee noted that the lease is located at the distance of 7.85 km from the boundary of Mitiyala Wildlife Sanctuary, i.e. <10 km from the boundary of Mitiyala Wildlife Sanctuary.
- Committee deliberated on MoEFCC OM dated 08.08.2019 as well as MoEFCC letter dated 16.07.2020 vide no. 6-60/2020 WL Part(I) vide Clause 3 (ii) of letter addressed to Chief Secretaries of all states mentions as below:

*“ii. Proposals involving any activity/project located within 10 km of National Park/Wildlife Sanctuary wherein ESZ has not been finally notified and listed in the Schedules of EIA Notification 2006 and requiring environmental clearance, **Prior Clearance from Standing Committee Of the National Board for wildlife will be required.**”*

- Committee noted that the lease is very near to the Mitiyala Wildlife Sanctuary and the lease area may be exposed to the movements of Lions and other schedule I animals. Hence, the Wildlife Conservation Plan approved by the competent Authority for all the Schedule I species found in the study area is required to be submitted by the PP.
- Committee also found that the decision for Writ Petition (PIL) No.56/2018 with Writ Petition (PIL) No.206/2018 regarding the leases located within 10 km radius from the Sanctuary is under consideration at Hon’ble Gujarat High Court.

In view of the above, the Committee unanimously decided to defer the proposal in upcoming SEAC meeting upon submission of below mentioned details:

- Prior Clearance from Standing Committee of the National Board for Wildlife
- Approved Wildlife Conservation Plan for all the Schedule I species found in the study area
- Final Judgment / Order of Hon'ble Gujarat High Court w.r.t Writ Petition (PIL) No.56/2018 with Writ Petition (PIL) No.206/2018.

**26. BUILDING LIMESTONE MINING, DIST: JAMNAGAR**

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
SIA/GJ/MIN/62189/2021	PATAN BUILDING LIMESTONE QUARRY  (M/S KANDHALIE ENTERPRISE 1 C7)	Survey No. 197 P	Patan	Jamjodhpur	Jamnagar	4.9000 Ha	Lol issued on 25.04.2017 for 10 years	11,230 MT PA	Jamjodhpur – 8.71 km	Construction	Rs.24.5 Lakh	06.07.2021  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 Building Limestone.

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

<b>1.</b>	Name of Project as per Form I	PATAN BUILDING LIMESTONE QUARRY Village Patan, Taluka Jamjodhpur, District: Jamnagar in the
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		state of Gujarat. (Area= 4.90 ha) (Survey No. 197 P)
2.	Address of the lease	Survey No. 197 P Village Patan, Taluka Jamjodhpur, District: Jamnagar in the state of Gujarat
3.	Name of lease holder	M/s Kandhaliy Enterprise
4.	Lease area (Ha)	4.90 Ha
5.	Cluster Details	
	Total no. of leases in the cluster	2
	a. No. of TOR granted in cluster	0
	b. No. of EC granted in cluster	0
	c. Total area of the cluster	9.8 ha
	d. Maximum individual lease area	4.90 ha
	e. Minimum individual lease area	4.90 ha
6.	Validity of lease with the date of expiry	10 year from the date of LOI issued.
7.	Rate of Mining (MT/Annum)	11,230 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	1. 21°47'53.07" N to 70°02'21.55" E 2. 21°47'49.48" N to 70°02'24.63" E 3. 21°47'49.76" N to 70°02'25.98" E 4. 21°47'45.89" N to 70°02'27.92" E 5. 21°47'44.90" N to 70°02'25.42" E 6. 21°47'43.95" N to 70°02'25.88" E 7. 21°47'42.27" N to 70°02'21.72" E 8. 21°47'51.54" N to 70°02'18.16" E
13.	Manpower requirement	20
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	NA
17.	Maximum depth of Limestone removal (3 m or water depth whichever is less)	6m
18.	Width of Riverbed (m)	Not applicable
19.	Average depth of water at lease area (m)	35 mbgl
20.	Depth of mining (m)	6m Maximum
21.	Ground Water Table in meter BGL	30 m – 35 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 94- 8.90 km
24.	Length of kaccha road (m)	8.90km
25.	Length of pacca road (m)	500m
26.	Plan for making pacca road	No
27.	Source of fresh water	The water demand shall be met from the existing open well situated outside the lease area and through tanker supply.
28.	Water requirement (kLPD)	5 KLPD
	a. Domestic	2.5 KLPD
	b. Dust suppression	1.0 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	8.71km	<p>100 m</p> <p>(When Blasting is not involved)</p> <p><b>Or</b></p> <p>200 m</p> <p>(When Blasting is involved)</p>	<p>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</p>
	Public buildings	8.71km		
	Inhabited sites	8.71km		
	Protected monuments,	NA		
	Heritage sites	NA		
	National / State Highway	SH 94- 8.90 km		
	District roads	8.90km		
	Public roads	500m		
	Railway line / area	Jamjodhpur Railway station 10.2 Km (Aerial		

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

### C. Details of Mining:

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

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

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

1.	a. Green belt development budget	Rs. 81000/-
	b. Green belt area / location	Along the periphery of the mine lease area.
	c. No. of trees to be planted	270
	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</li> </ul>

			proposed along the road sides, civic amenities in consultation with local/ govt. authorities. While selecting the plant species, preference will be given for planting native species of the area.
b. Water Environment	Because of the open Cast & semi mechanization method in the mining activity, the impact of mining operations on water quality is also expected to be insignificant. There would be no impact on the quality/quantity of ground water as existing ground water level in study area is deep. Surface water is also not diverted or disturbed. Therefore, there would not be any impact on surface water and ground water quality.		<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</li> </ul>

			<p>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. <ul style="list-style-type: none"> <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> </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. <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</li> </ul> </li> </ul>

			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; <ul style="list-style-type: none"> <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> </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.

**F. Transportation:**

1.	No. of vehicles per day carrying	3-4
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	Minerals	
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-94.

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

1.	Total cost of the project (Lakh)	24.5		
	a. Upfront cost (Lakh)			
	b. Performance Security (Lakh)	56,24,531.25/-		
	c. Total Royalty (Lakh)	5,39,955/		
	d. Weigh Bridge Cost (Lakh)			
	e. Labor cost equipment (Lakh)			
	f. Equipment protection and implementation cost (Lakh)			
	g. Green Belt Development & maintenance cost (Lakh)	0.81		
	h. Cost of EMP (Lakh)	2.0 (Proposed)		
	i. Cost of Safety measures (Lakh)	0.20		
j. Cost of Post-Closure Mine Plan (Lakh)				
2.	Budget allocated for CER (Lakh)			
3.	Is need based survey for CER carried out? (Yes / No)  If yes, give details of activities along with Budgetary Outlay	<b>S. No.</b>	<b>Activities</b>	<b>Allocation of Fund (Rs. Lacs)</b>
		1	Health Camps	1.0
		2	Up gradation of toilets of government school in nearby	0.5

			villages	
		<b>3</b>	Repair and Painting of School Building in the project village	0.5
			<b>Total</b>	<b>2.0</b>

**H. Restoration / Reclamation Plan:**

<b>1.</b>	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.
<b>2.</b>	Post mining closure plan	The mined-out area (2.5000 ha.) will be developed as water collection pond to store rain water. The un mined land of non-mineable area shall be used for plantation.
<b>3.</b>	Backfilling material and its quantity	Backfilling of voids is not done
<b>4.</b>	Size of void for Rain Water Harvesting after backfilling	--
<b>5.</b>	Post Closure Liability / Safety aspects and Measures to be taken to avoid wild life and human accidents/ casualties	Fencing will done all along the project area
<b>6.</b>	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
<b>7.</b>	Final Use of reservoir/ reclaimed land	The mined-out area (2.5000 ha.) will be developed as water collection pond to store ran water. The un mined land of non-mineable area shall be used for plantation.

**I. Details of Legal Action / Court Case:**

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

**J. Contact Details:**

<b>1.</b>	<b>Contact details of Applicant</b>	
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2.	Name	M/s Kandhaliey Enterprise
3.	Address	501- Jyoti Tower Apartment, Indira  Marg,Jamnagar Gujarat  361004
4.	Contact no.	8511815530
5.	Email Id	<a href="mailto:kandhli1.jamc7@gmail.com">kandhli1.jamc7@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 Vasundhra, Delhi-NCR, Ghaziabad-201012
9.	Contact no.	8588896648
10.	Email Id	<a href="mailto:eis.gujarat@gmail.com">eis.gujarat@gmail.com</a>

#### Deliberation:

- Shri Rishabh Sehgal from M/s. Enviro Infra Solutions Pvt. Ltd. presented the details of the project before the Committee on behalf the PP and the PP has submitted the Authorization letter for same.
- Committee deliberated on method of mining, rate of mining, cluster situation created, no. of working hours and no. of workers, EMP, CER budget and its activities, Green belt development etc.
- Distance of the lease from Environmental Sensitivities was also discussed and found as per the prescribed standards.
- Committee noted that the proposal is involved in mining of Building Limestone by Semi-Mechanized method of mining without blasting.

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.**

#### 27. BUILDING LIMESTONE MINING, DIST: JAMNAGAR

Application No	Name of Project	S. No.	Village	Taluka	Dist	Lease Area	Validity of lease	R O M	Near est Human Habitation	End Use	Investment in Rs	Date of Application Received by SEAC
SIA/GJ/MIN/61920/2021	VIRPUR BUILDING LIMESTONE QUARRY  (SHRI MANOJ MANDABA GAGIYA)	Survey No. 80/P 1	Virpur	Jamjodhpur	Jamnagar	1.000 Ha	LoI issued on 11.09.2017 for 10 years	9006 MT PA	Lalpur – 17.65 km	Construction	Rs.5 Lakh	06.07.2021  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 Building Limestone.

A. Basic Information of the Project:		
1.	Name of Project as per Form I	VIRPUR BUILDING LIMESTONE QUARRY Village Virpur, Taluka Jamjodhpur, District: Jamnagar in the state of Gujarat. (Area= 1 ha) (Survey No. 80/P 1)
2.	Address of the lease	Survey No.: 80/P 1 Village: Virpur Taluka: Jamjodhpur District: Jamnagar
3.	Name of lease holder	Shri ManojbhaiMandabhai Gagiya
4.	Lease area (Ha)	1.00 Ha
5.	Cluster Details	
	a. Total no. of leases in the cluster	5
	b. No. of TOR granted in cluster	2
	c. No. of EC granted in cluster	2
	d. Total area of the cluster	10.50.00 Ha
	e. Maximum individual lease area	5.50 Ha
	f. Minimum individual lease area	1.00 Ha
6.	Validity of lease with the date of expiry	10 years from the date of LOI issued.
7.	Rate of Mining (MT/Annum)	7997 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	<b>Sr. No</b>	<b>Latitude</b>	<b>Longitude</b>
		F.	22°7'2.30"N	70°6'57.20" E
		G.	22°7'2.04"N	70°6'59.34" E
		H.	22°6'59.90"N	70°6'58.70" E
		I.	22°6'59.93"N	70°6'57.12" E
		J.	22°6'58.10"N	70°6'57.10" E
		K.	22°6'58.10"N	70°6'58.50" E
		L.	22°6'56.20"N	70°6'57.70" E
		M.	22°6'56.60"N	70°6'55.80" E
		N.	22°6'59.60"N	70°6'56.00" E
13.	Manpower requirement	20		
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	--		
17.	Maximum depth of sand removal (3 m or water depth whichever is less)	--		
18.	Width of Riverbed (m)	Not applicable		
19.	Average depth of water at lease area (m)	35 mbgl		
20.	Depth of mining (m)	12m (upto 136 mRL) Maximum		
21.	Ground Water Table in meter BGL	30 m – 35 m		
22.	Does ground water interfere approach road exit? (Yes / No)  If yes, status report of CGWA	No		
23.	Distance between lease and main road	SH-94 at a distance of 5.67 km		
24.	Length of kaccha road (m)	870 m		
25.	Length of pacca road (m)	14 km		
26.	Plan for making pacca road	No		
27.	Source of fresh water	The water demand shall be met from the existing open well situated outside the lease area and through tanker supply.		
28.	Water requirement (KLPD)	2.5 KLPD		
	a. Domestic	2.0 KLPD		
	b. Dust suppression	0.25 KLPD		
	c. Gardening / Green belt development	0.25 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	1.75 km	100 m (When Blasting is not involved)  Or 200 m (When Blasting is involved)	As per CPCB Distance Criteria And order of of NGT before Principal Bench in the O.A. NO 85/2018 ( WZ) dtd 30.09.2020
	Public buildings	1.75 km		
	Inhabited sites	1.75 km		
	Protected monuments,	NA		
	Heritage sites	NA		
	National / State Highway	SH-94 at a distance of 5.67 km		
	District roads	1.62 km		
	Public roads	1.62 km		
	Railway line / area	Jamjodhpur Railway station 23.07 Km		
	Ropeway or Ropeway trestle or station	NA		
	Bridges	NA		
	Dams	NA		
	Reservoirs	NA		
	River	--		
Canal	--			
Lakes	--			

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

**C. Details of Mining:**

1.	Method of Mining (Manual / Semi-mechanized / Mechanized).	Semi-mechanized opencast.
2.	Equipments to be used for Mining bulldozers, hydraulic excavators, JCB, scrapers, loaders, Diesel Pump, etc.)	Excavator-1 Dumper- 1 Drill machinery- 1
3.	Whether it includes blasting?	No
4.	Details of Authorized Blasting Agency with date of validity certificate	NIL
5.	Procedure / SOP (in brief)	NIL
6.	Details of Blasting Parameters in brief	NIL
7.	Frequency of blasting	NIL
8.	Impact of blasting	NIL
9.	Outcome of Vibration study	NIL
10.	Blasting Activity Management Plan	NIL
11.	Use of any Chemical with quantity	NIL
12.	Precautions taken for Human Safety in brief	The risks of accident are envisaged due to the operation of equipment, failure of mine pit etc. No loose stone or debris is allowed to remain near the edges of excavation and along the sides of haul road. However, good safety practices shall be applied at the project site. All precautionary measures will be adopted and use of protective equipment will be mandatory. However, to deal the minor incidences and accidents, first aid measures at site will be provided.
13.	Crusher provided? If Yes, Measures taken for Air Pollution Control	No
14.	Compliance of DGMS Guidelines for Blasting	NIL
15.	Compliance of Sustainable Sand Mine Guidelines published by MoEFCC in 2016	NIL
16.	Whether Replenishment Rate Study is approved by District Geologist?	No

	If yes, conclude in brief	
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**D. Details of Green Belt Development:**

<b>1.</b>	a. Green belt development budget	Rs. 10,000/-
	b. Green belt area / location	Along the periphery of the mine lease area.
	c. No. of trees to be planted	100
	d. Types of trees to be planted	Indigenous species in consultation with local authority.

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

<b>a.</b>	<b>Details of EMP</b>	<b>Impact</b>	<b>Mitigation Measures</b>
	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 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</li> </ul>

			boundary, roads, dumps etc.
	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	--	--
4.	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</li> </ul>	

		<p>Officer</p> <ul style="list-style-type: none"> <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>
5.	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	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

	plan of workers	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-229 and SH-94.

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

1.	Total cost of the project (Lakh)	5.0												
	a. Upfront cost (Lakh)													
	b. Performance Security (Lakh)	Rs. 37,48,593.75/-												
	c. Total Royalty (Lakh)	Rs. 3,59,865/-												
	d. Weigh Bridge Cost (Lakh)													
	e. Labor cost equipment (Lakh)													
	f. Equipment protection and implementation cost (Lakh)													
	g. Green Belt Development & maintenance cost (Lakh)	0.10												
	h. Cost of EMP (Lakh)	0.50												
	i. Cost of Safety measures (Lakh)	0.15												
j. Cost of Post-Closure Mine Plan (Lakh)														
2.	Budget allocated for CER (Lakh)													
3.	Is need based survey for CER carried out? (Yes / No)  If yes, give details of activities along with Budgetary Outlay	<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>Health Camps</td> <td>1.0</td> </tr> <tr> <td>2</td> <td>Up gradation of toilets of government school in nearby villages</td> <td>0.5</td> </tr> <tr> <td>3</td> <td>Repair and Painting of School Building in the project village</td> <td>0.5</td> </tr> </tbody> </table>	S. No.	Activities	Allocation of Fund (Rs. Lacs)	1	Health Camps	1.0	2	Up gradation of toilets of government school in nearby villages	0.5	3	Repair and Painting of School Building in the project village	0.5
		S. No.	Activities	Allocation of Fund (Rs. Lacs)										
		1	Health Camps	1.0										
		2	Up gradation of toilets of government school in nearby villages	0.5										
3	Repair and Painting of School Building in the project village	0.5												

			<b>Total</b>	<b>2.0</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	The mined-out area (0.5731ha.) will be developed as water collection pond to store rain water. The unmined land of non-mineable area shall be used for plantation.
3.	Backfilling material and its quantity	Location of proposed dumping ground within the quarry area weather proved for presence or absence of mineral and be outside the UPL unless simultaneous backfilling as proposed or purely temporary dumping for a short period is proposed in mineralized area with technical constraints & justification.
4.	Size of void for Rain Water Harvesting after backfilling	0.5731 Ha
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 (0.5731ha.) 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 MoEFCC-Bhopal	Not applicable

**J. Contact Details:**

1.	<b>Contact details of Applicant</b>	
2.	Name	Shri ManojbhaiMandabhai Gagiya
3.	Address	61, Gagia Fali, Laloi, Taluka: Jamjodhpur, District: Jamnagar
4.	Contact no.	9427769837
5.	Email Id	manojgagiya.jamc32@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 Vasundhra, Delhi-NCR, Ghaziabad-201012
<b>9.</b>	Contact no.	8141255530
<b>10.</b>	Email Id	eis.gujarat@gmail.com

**Deliberation:**

- Shri Rishabh Sehgal from M/s. Enviro Infra Solutions Pvt. Ltd. presented the details of the project before the Committee on behalf the PP and the PP has submitted the Authorization letter for same.
- Committee deliberated on method of mining, rate of mining, cluster situation created, no. of working hours and no. of workers, EMP, CER budget and its activities, Green belt development etc.
- Distance of the lease from Environmental Sensitivities was also discussed and found as per the prescribed standards.
- Committee noted that the proposal is involved in mining of Building Limestone by Semi-Mechanized method of mining without blasting.

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.**

**28. BUILDING LIMESTONE MINING, DIST: JAMNAGAR**

Application No	Name of Project	S. No.	Village	Taluka	Dist	Lease Area	Validity of lease	ROM	Nearest Human Habitation	End Use	Investment in Rs	Date of Application Received by SEAC
SIA/GJ/MIN/62288/2021	METHAN BUILD	Survey No.	Met han	Jamjodhpur	Jamnagar	2.00	Lol issued on	14,998	Jamjodhpur –	Construction	Rs.10 Lakh	06.07.2021

	ING LIMES TONE QUAR RY AREA  (M/S SAINA TH MINE RALS)	28 4/ 1 P				Ha	28.07 .2017 for 10 years	MT PA	25.17 km			New proje ct
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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 Building Limestone.

A. Basic Information of the Project:				
1.	Name of Project as per Form I	METHAN BUILDING LIMESTONE QUARRY AREA at (Survey No. 284/ 1 P), Village Methan, Taluka Jamjodhpur, District: Jamnagar in the state of Gujarat. (Area= 2 ha)		
2.	Address of the lease	Survey No.:284/ 1 P Village:Methan Taluka: Jamjodhpur District: Jamnagar		
3.	Name of lease holder	M/s Sainath Minerals		
4.	Lease area (Ha)	2.00 Ha		
5.	Cluster Details			
	a. Total no. of leases in the cluster	5		
	b. No. of TOR granted in cluster	3		
	c. No. of EC granted in cluster	3		
	d. Total area of the cluster	08.43.82 Ha		
	e. Maximum individual lease area	2.4382 Ha		
	f. Minimum individual lease area	1.00 Ha		
6.	Validity of lease with the date of expiry	10 years from the date of LOI issued.		
7.	Rate of Mining (MT/Annum)	14,998 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	<b>Sr. No</b>	<b>Latitude</b>	<b>Longitude</b>
		A.	22°01'38.29"N	70°14'18.54" E
		B.	22°01'36.15"N	70°14'20.43" E

		C.	22°01'31.92"N	70°14'13.89" E
		D.	22°01'34.31"N	70°14'12.00" E
13.	Manpower requirement	20		
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	--		
17.	Maximum depth of sand removal (3 m or water depth whichever is less)	--		
18.	Width of Riverbed (m)	Not applicable		
19.	Average depth of water at lease area (m)	35 mbgl		
20.	Depth of mining (m)	6m (upto 200 mRL) Maximum		
21.	Ground Water Table in meter BGL	30 m – 35 m		
22.	Does ground water interfere approach road exit? (Yes / No)  If yes, status report of CGWA	No		
23.	Distance between lease and main road	SH-229 at a distance of 1.69 km		
24.	Length of kaccha road (m)	835 m		
25.	Length of pacca road (m)	13 km		
26.	Plan for making pacca road	No		
27.	Source of fresh water	The water demand shall be met from the existing open well situated outside the lease area and through tanker supply.		
28.	Water requirement (kLPD)	2.5 KLPD		
	a. Domestic	2.0 KLPD		
	b. Dust suppression	0.25 KLPD		
	c. Gardening / Green belt development	0.25 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	2.56 km	100 m  (When Blasting is not involved)	As per CPCB Distance Criteria And order of of NGT before Principal Bench in
	Public buildings	2.56 km		
	Inhabited sites	2.56 km		

	Protected monuments,	NA	<p style="text-align: center;"><b>Or</b></p> <p style="text-align: center;">200 m</p> <p style="text-align: center;">(When Blasting is involved)</p>	<p>the O.A. NO 85/2018 ( WZ) dtd 30.09.2020</p>
	Heritage sites	NA		
	National / State Highway	SH-229 at a distance of 1.69 km		
	District roads	1.71 km		
	Public roads	1.71 km		
	Railway line / area	Jamjodhpur Railway station 25.09 Km		
	Ropeway or Ropeway trestle or station	NA		
	Bridges	NA		
	Dams	NA		
	Reservoirs	NA		
	River	--		
	Canal	--		
	Lakes	--		
	Tanks	--		
2.	■ Eco-Sensitive Zone (if notified)	--	>1 km / outside the notified Eco-Sensitive Zone	Vide directives of MOEF&CC dtd 16.07.2020
3.	Eco-Sensitive Zone (if not notified)	--	>1 km and <10 km = Prior Clearance from NBWL is required	Vide directives of MOEF&CC dtd 16.07.2020
4.	Distance of Coastal line from the site	--	>500 M from HTL	Amended CRZ Notification 2011

**C. Details of Mining:**

1.	Method of Mining (Manual / Semi-mechanized / Mechanized).	Semi-mechanized opencast.
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2.	Equipments to be used for Mining bulldozers, hydraulic excavators, JCB, scrapers, loaders, Diesel Pump, etc.)	Excavator-1 Dumper- 1 Drill machinery- 1
3.	Whether it includes blasting?	No
4.	Details of Authorized Blasting Agency with date of validity certificate	NIL
5.	Procedure / SOP (in brief)	NIL
6.	Details of Blasting Parameters in brief	NIL
7.	Frequency of blasting	NIL
8.	Impact of blasting	NIL
9.	Outcome of Vibration study	NIL
10.	Blasting Activity Management Plan	NIL
11.	Use of any Chemical with quantity	NIL
12.	Precautions taken for Human Safety in brief	The risks of accident are envisaged due to the operation of equipment, failure of mine pit etc. No loose stone or debris is allowed to remain near the edges of excavation and along the sides of haul road. However, good safety practices shall be applied at the project site. All precautionary measures will be adopted and use of protective equipment will be mandatory. However, to deal the minor incidences and accidents, first aid measures at site will be provided.
13.	Crusher provided? If Yes, Measures taken for Air Pollution Control	No
14.	Compliance of DGMS Guidelines for Blasting	NIL
15.	Compliance of Sustainable Sand Mine Guidelines published by MoEFCC in 2016	NIL
16.	Whether Replenishment Rate Study is approved by District Geologist?  If yes, conclude in brief	No

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

1.	a. Green belt development budget	Rs. 20,000/-
	b. Green belt area / location	Along the periphery of the mine lease area.
	c. No. of trees to be planted	140
	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	<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</li> </ul>

		essentially.	road sides, civic amenities in consultation with local/ govt. authorities. While selecting the plant species, preference will be given for planting native species of the area.
b. Water Environment		Because of the open Cast & semi mechanization method in the mining activity, the impact of mining operations on water quality is also expected to be insignificant. There would be no impact on the quality/quantity of ground water as existing ground water level in study area is deep. Surface water is also not diverted or disturbed. Therefore, there would not be any impact on surface water and ground water quality.	<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	<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</li> </ul>

		mining activities.	movement of labors or vehicles be laid in adjoining area, this will prevent fragmentation, encroachment and human – animal encounter.
	f. Human Environment	The impact of mining activity in the area is positive on the socio-economic environment of the region. The proposed mine will be providing employment to local population and it will be give preference to the local people whenever there is requirement of man power.	<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	Yes	

	provided by 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-229 and SH-94.

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

1.	Total cost of the project (Lakh)	10.0															
	a. Upfront cost (Lakh)																
	b. Performance Security (Lakh)	Rs. 70,30,312.5/-															
	c. Total Royalty (Lakh)	Rs. 6,74,910/-															
	d. Weigh Bridge Cost (Lakh)																
	e. Labor cost equipment (Lakh)																
	f. Equipment protection and implementation cost (Lakh)																
	g. Green Belt Development & maintenance cost (Lakh)	0.20															
	h. Cost of EMP (Lakh)	1.0															
	i. Cost of Safety measures (Lakh)	0.30															
	j. Cost of Post-Closure Mine Plan (Lakh)																
2.	Budget allocated for CER (Lakh)																
3.	Is need based survey for CER carried out? (Yes / No)  If yes, give details of activities along with Budgetary Outlay	<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>Health Camps</td> <td>1.0</td> </tr> <tr> <td>2</td> <td>Up gradation of toilets of government school in nearby villages</td> <td>0.5</td> </tr> <tr> <td>3</td> <td>Repair and Painting of School Building in the project village</td> <td>0.5</td> </tr> <tr> <td></td> <td><b>Total</b></td> <td><b>2.0</b></td> </tr> </tbody> </table>	S. No.	Activities	Allocation of Fund (Rs. Lacs)	1	Health Camps	1.0	2	Up gradation of toilets of government school in nearby villages	0.5	3	Repair and Painting of School Building in the project village	0.5		<b>Total</b>	<b>2.0</b>
S. No.	Activities	Allocation of Fund (Rs. Lacs)															
1	Health Camps	1.0															
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3	Repair and Painting of School Building in the project village	0.5															
	<b>Total</b>	<b>2.0</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	The mined-out area (1.5384ha.) will be developed as water collection pond to store rain water. The unmined land of non-mineable area shall be used for plantation.
3.	Backfilling material and its quantity	Location of proposed dumping ground within the quarry area weather proved for presence or absence of mineral and be outside the UPL unless simultaneous backfilling as proposed or purely temporary dumping for a short period is proposed in mineralized area with technical constraints

		& justification.
4.	Size of void for Rain Water Harvesting after backfilling	1.5384 Ha
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 (1.5384 ha.) 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 MoEFCC-Bhopal	Not applicable

**J. Contact Details:**

<b>1.</b>	<b>Contact details of Applicant</b>	
2.	Name	M/s Sainath Minerals
3.	Address	Village- HariparMevasa, Taluka- Kalavad, Dist- Jamnagar, Gujarat 361001
4.	Contact no.	9824288579
5.	Email Id	sainath.jamc20@gmail.com
<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.	8141255530
10.	Email Id	eis.gujarat@gmail.com

**Deliberation:**

- Shri Rishabh Sehgal from M/s. Enviro Infra Solutions Pvt. Ltd. presented the details of the project before the Committee on behalf the PP and the PP has submitted the Authorization letter for same.
- Committee deliberated on method of mining, rate of mining, cluster situation created, no. of working hours and no. of workers, EMP, CER budget and its activities, Green belt development etc.

- Distance of the lease from Environmental Sensitivities was also discussed and found as per the prescribed standards.
- Committee noted that the proposal is involved in mining of Building Limestone by Semi-Mechanized method of mining without blasting.

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.**

#### 29. CHALK MINING, DIST: JAMNAGAR – TOR Violation

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
SIA/GJ/MIN/63170/2021	AMRAPAR CHALK MINE (HEMRAJ HIRJIKANT ARIYA & BHAGWANJI HIRJIKANT ARIYA)	Survey No. 401 Pai ki	Amarapur	Jamjodhpur	Jamnagar	2.6608 Ha	Order dated 22.11.2003 for 20 years	1899.75 MT PA	Malvada – 7 km	Construction	Rs.13.30 Lakh	06.07.2021  Existing project operating since 04.03.2004

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 Chalk.

<b>A. Basic Information of the Project:</b>				
1.	Name of Project as per Form I	AMRAPAR CHALK MINE Village Amrapar, Taluka Jamjodhpur, District: Jamnagar in the state of Gujarat. (Area=2.6608 ha) (Survey No. 401 Paiki)		
2.	Address of the lease	Survey No.:401 Paiki Village:Amrapar Taluka: Jamjodhpur District: Jamnagar		
3.	Name of lease holder	Shri HemrajbhaiHirjibhaiKantariya&BhagwanjibhaiHirjibhaiKantariya		
4.	Lease area (Ha)	2.6608 Ha		
5.	Cluster Details			
	a. Total no. of leases in the cluster	8		
	b. No. of TOR granted in cluster	1		
	c. No. of EC granted in cluster	0		
	d. Total area of the cluster	25.20.20 Ha		
	e. Maximum individual lease area	4.6640 Ha		
f. Minimum individual lease area	1.6188 Ha			
6.	Validity of lease with the date of expiry	20 years from the date of LOI issued.		
7.	Rate of Mining (MT/Annum)	1,899.75 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	<b>Sr. No</b>	<b>Latitude</b>	<b>Longitude</b>
		A.	21°44'14.74"N	70° 3'56.89"E
		B.	21°44'14.91"N	70° 3'59.92"E
		C.	21°44'15.44"N	70° 4'03.65"E
		D.	21°44'13.55"N	70° 4'03.98"E
		E.	21°44'12.85"N	70° 4'01.54"E
		F.	21°44'11.94"N	70° 4'01.74"E
		G.	21°44'11.82"N	70° 4'00.63"E
		H.	21°44'07.26"N	70° 4'01.22"E
		I.	21°44'06.92"N	70° 3'59.13"E
		J.	21°44'11.28"N	70° 3'57.98"E

13.	Manpower requirement	06
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	--
17.	Maximum depth of sand removal (3 m or water depth whichever is less)	--
18.	Width of Riverbed (m)	Not applicable
19.	Average depth of water at lease area (m)	55mbgl
20.	Depth of mining (m)	--
21.	Ground Water Table in meter BGL	50 m – 55 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	NH-8B at a distance of 9.26 km
24.	Length of kaccha road (m)	870 m
25.	Length of pacca road (m)	12.8 km
26.	Plan for making pacca road	No
27.	Source of fresh water	The water demand shall be met from the existing open well situated outside the lease area and through tanker supply.
28.	Water requirement (KLPD)	5 KLPD
	a. Domestic	2.0 KLPD
	b. Dust suppression	1.0 KLPD
	c. Gardening / Green belt development	2.0 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
	Residential	2.08 km	100 m	As per CPCB Distance Criteria And order of of
	Public buildings	2.08 km	(When Blasting is not	

	Inhabited sites	2.08 km	involved)  <b>Or</b>  200 m  (When Blasting is involved)	NGT before Principal Bench in the O.A. NO 85/2018 ( WZ) dtd 30.09.2020
	Protected monuments,	NA		
	Heritage sites	NA		
	National / State Highway	NH-8B at a distance of 9.26 km		
	District roads	1.28 km		
	Public roads	1.28 km		
	Railway line / area	Jamjodhpur Railway station 19.09 Km		
	Ropeway or Ropeway trestle or station	NA		
	Bridges	NA		
	Dams	NA		
	Reservoirs	NA		
	River	--		
	Canal	--		
	Lakes	--		
	Tanks	--		
2	■ Eco-Sensitive Zone (if notified)	--	>1 km / outside the notified Eco-Sensitive Zone	Vide directives of MOEF&CC dtd 16.07.2020
3	Eco-Sensitive Zone (if not notified)	--	>1 km and <10 km = Prior Clearance from NBWL is required	Vide directives of MOEF&CC dtd 16.07.2020
4	Distance of Coastal line from the site	--	>500 M from HTL	Amended CRZ Notification 2011

**C. Details of Mining:**

1.	Method of Mining (Manual / Semi-mechanized / Mechanized).	Semi-mechanized opencast.
2.	Equipments to be used for Mining bulldozers, hydraulic excavators, JCB, scrapers, loaders, Diesel Pump, etc.)	Excavator-1 Dumper- 1 Water pump- 1
3.	Whether it includes blasting?	No
4.	Details of Authorized Blasting Agency with date of validity certificate	NIL
5.	Procedure / SOP (in brief)	NIL
6.	Details of Blasting Parameters in brief	NIL
7.	Frequency of blasting	NIL
8.	Impact of blasting	NIL
9.	Outcome of Vibration study	NIL
10.	Blasting Activity Management Plan	NIL
11.	Use of any Chemical with quantity	NIL
12.	Precautions taken for Human Safety in brief	The risks of accident are envisaged due to the operation of equipment, failure of mine pit etc. No loose stone or debris is allowed to remain near the edges of excavation and along the sides of haul road. However, good safety practices shall be applied at the project site. All precautionary measures will be adopted and use of protective equipment will be mandatory. However, to deal the minor incidences and accidents, first aid measures at site will be provided.
13.	Crusher provided? If Yes, Measures taken for Air Pollution Control	No
14.	Compliance of DGMS Guidelines for Blasting	NIL
15.	Compliance of Sustainable Sand Mine Guidelines published by MoEFCC in 2016	NIL
16.	Whether Replenishment Rate Study is approved by District Geologist?  If yes, conclude in brief	No

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

1.	a. Green belt development budget	Rs. 26,608/-
	b. Green belt area / location	Along the periphery of the mine lease area.
	c. No. of trees to be planted	58
	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	<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</li> </ul>

		semi- mechanized, it is expected to affect the land environment essentially.	restoration work. <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)	<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</li> </ul>

		hence there shall be no impact on wildlife sanctuary due to mining activities.	and herbs will be allowed. · No track or new road for movement of labors or vehicles be laid in adjoining area, this will prevent fragmentation, encroachment and human – animal encounter.
	f. Human Environment	The impact of mining activity in the area is positive on the socio-economic environment of the region. The proposed mine will be providing employment to local population and it will be give preference to the local people whenever there is requirement of man power.	· Training of employees for use of safety appliances and first aid in vocational training center. · Regular maintenance and testing of all equipment as per manufacturers' guidelines.
	g. Others	--	--
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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 in tipper for transported up to consumer by

following the pacca road linked with project site. This pacca road is further connected with SH-229 and SH-94.

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

<b>1.</b>	Total cost of the project (Lakh)	13.30															
	a. Upfront cost (Lakh)																
	b. Performance Security (Lakh)	Rs. 8,90,507.81/-															
	c. Total Royalty (Lakh)	Rs. 85,488.75/-															
	d. Weigh Bridge Cost (Lakh)																
	e. Labor cost equipment (Lakh)																
	f. Equipment protection and implementation cost (Lakh)																
	g. Green Belt Development & maintenance cost (Lakh)	0.26															
	h. Cost of EMP (Lakh)	1.33															
	i. Cost of Safety measures (Lakh)	0.2608															
	j. Cost of Post-Closure Mine Plan (Lakh)																
<b>2.</b>	Budget allocated for CER (Lakh)																
<b>3.</b>	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>Health Camps</td> <td>1.0</td> </tr> <tr> <td>2</td> <td>Up gradation of toilets of government school in nearby villages</td> <td>0.5</td> </tr> <tr> <td>3</td> <td>Repair and Painting of School Building in the project village</td> <td>0.5</td> </tr> <tr> <td></td> <td><b>Total</b></td> <td><b>2.0</b></td> </tr> </tbody> </table>	S. No.	Activities	Allocation of Fund (Rs. Lacs)	1	Health Camps	1.0	2	Up gradation of toilets of government school in nearby villages	0.5	3	Repair and Painting of School Building in the project village	0.5		<b>Total</b>	<b>2.0</b>
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**H. Restoration / Reclamation Plan:**

<b>1.</b>	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.
<b>2.</b>	Post mining closure plan	The mined-out areawill be developed as water collection pond to store rain water. The unmined land of non-mineable area shall be used for plantation.
<b>3.</b>	Backfilling material and its quantity	Location of proposed dumping ground within the quarry area weather proved for presence or absence of mineral and be outside the UPL unless simultaneous backfilling as proposed orpurely temporary

		dumping for a short period is proposed in mineralized area with technical constraints & justification.
4.	Size of void for Rain Water Harvesting after backfilling	2.1508 Ha
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 MoEFCC-Bhopal	Not applicable

**J. Contact Details:**

<b>1.</b>	<b>Contact details of Applicant</b>	
2.	Name	Shri Hemrajbhai Hirjibhai Kantariya & Bhagwanjibhai Hirjibhai Kantariya
3.	Address	"Shri Nivas", 72, Dwarkadhish Society, Upleta, District- Rajkot-360490
4.	Contact no.	9429167007
5.	Email Id	<a href="mailto:kantariyahemraj.jamc11@gmail.com">kantariyahemraj.jamc11@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.	8141255530
10.	Email Id	<a href="mailto:eis.gujarat@gmail.com">eis.gujarat@gmail.com</a>

**Deliberation:**

- Shri Rishabh Sehgal from M/s. Enviro Infra Solutions Pvt. Ltd. presented the details of the project before the Committee on behalf the PP and the PP has submitted the Authorization letter for same.
- Committee deliberated on method of mining, rate of mining, cluster situation created, no. of working hours and no. of workers, EMP, CER budget and its activities, Green belt development etc.

- Distance of the lease from Environmental Sensitivities was also discussed and found as per the prescribed standards.
- Committee noted that the proposal is involved in mining of Building Limestone by Semi-Mechanized method of mining without blasting.
- Committee noted that the lease is existing and was operating since 2004.
- The consultant was asked to furnish the production details validated by the district geologist, Jamnagar and acknowledgement slip of earlier TOR / EC application made, if any to verify whether that the proposal is the case of TOR Violation or not. However Shri Rishabh Sehgal couldn't furnish the details.

Hence, Committee unanimously decided to consider the proposal in upcoming SEAC meeting upon submission of below mentioned details:

- Notarized Undertaking stating that, 'PP has stopped taking production with date of discontinuation of production and PP will not carry out production henceforth without obtaining EC'.
- Details of monthly (year wise) production taken since grant of lease till date validated by District Geologist
- Acknowledgement slip of application of EC / TOR made before 13.04.2018, if any

### 30. LIMESTONE MINING, DIST: JUNAGADH – B1 Appraisal– ADS on 28.05.2021

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/G J/MIN /59579 /202 1	Januda Shanti pura Limestone (Shivam Mining )	25,26,31 P& 78 P	Shanti pura and Janudha	Malatia Hatina	Junagadh	41 Hare Working area 20.9757 Ha	Lease is valid upto 22.01.2028	Expansion from 3,50,000 MTPA to 12,00,000 MTPA	Janudha – 620 m	Cement Industry	Rs.75 Lakh	08.02.2021  ADS on 26.02.2021

The proposal was deferred in the SEAC meeting dated 19.07.2021.

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 AnandZinzala, Member, SEAC	
7	Shri B. M. Tailor, Member, SEAC	
8	Shri A. V. Shah, Secretary, SEAC	

**ANNEXURE – I**  
**(Terms of Reference for mining proposals of River Bed Sand)**

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 – II

### (Terms of Reference for Non Sand Mining Proposals without Blasting)

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

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

		accordance with such conditions as the Chief Inspector may specify by an order in writing. Every such notice shall be in duplicate, and shall give the details of the method of working including the precautions that are proposed to be taken against the danger 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 an the charging and stemming of holes shall be carried out by or under the personal supervision of a competent person, in these regulations referred to as a 'blaster'. The blaster shall fire the shots himself.
7	Rule 160 (2)	No person shall be appointed to be a blaster unless he is the holder of Manager's, Foreman's Mate's or Blaster's certificate.

8. Vide letter of MOEF&CC dtd 07.07.2020, EIA,EMP submitted shall have Plagiarism report complying all the conditions mentioned therein.
9. Environmental Management Plan with details of capital and recurring cost including following details shall be included in EIA:
  - a. *Measures after post closure/working of mine, measures to be adopted as per OM of MOEF&CC dated 16/01/2020 addressing that after ceasing mining operations, PP shall undertake re-grassing of the mining area and any other area which have been disturbed due to mining activities and restore the land to a condition which is for the growth of fodder, flora and fauna.*
  - b. *Details of Dust mitigation measures due to mining, handling of mineral, loading, unloading, transportation and other allied activities similar to the applicable measures guided in Notification issued by MOEF&CC dated 25/01/2018 vide GSR 94(E).*

### ANNEXURE – III

#### (Terms of Reference for Non Sand Mining Proposals with Blasting)

1. To prepare SOP for blasting including details measures to be taken to warn trespassers/public in vicinity for blasting and address in EIA.
2. Authentication of ground water level data through concerned agency in order to prevent ground water intersection due to working of mine shall be addressed in detail in EIA.
3. A progressive fencing to be put up surrounding to the mine pit under progress is to be facilitated to prevent casualty during work.
4. Community Health Centre for the entire cluster shall be facilitated on permanent basis through a corpus of cluster members.
5. To carry out activities under CER as mentioned in OM of MOEF&CC dtd 01.05.2018, betterment of Great Bustard sanctuary in consultation with DFO shall be explored and implemented along with its upkeep.
6. To conduct survey for the approach road for the entire cluster and making a pacca road/s to be used by the concerned lease holders to be used by vehicles carrying mineral upto main road.
7. A cumulative environmental impact assessment study shall be carried out considering existing and proposed crushing units in study area.
8. To address all safety measures as per the guideline of DGMS including following:

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

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

6	Rule 160 (1)	The preparation of charges 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:
  - 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).*