

**GOVERNMENT OF INDIA
MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE
(IMPACT ASSESSMENT DIVISION)
NON-COAL MINING SECTOR**

SUMMARY RECORD OF 50th MEETING OF THE COMMITTEE OF THE EXPERT APPRAISAL COMMITTEE FOR ENVIRONMENTAL APPRAISAL OF NON-COAL MINING PROJECTS CONSTITUTED UNDER THE EIA NOTIFICATION, 2006.

The 50th meeting of the Expert Appraisal Committee for Environmental Appraisal of Mining Projects (Non-Coal) of the Ministry of Environment, Forest and Climate Change was held during 12th and 13th May, 2022 through video conference. The list of participants is annexed herewith. After login of the Committee Members through video conference link provided by NIC, discussion on each of the Agenda Items was taken up ad-seriatim.

(1.0.0) Deliberation & Circulation on the Minutes of the 49th EAC Meeting (Non-Coal Mining) held during 19th – 21st April, 2022.

The minutes of 49th EAC Meeting (Non-Coal Mining) held during 19th – 21st April, 2022 were placed before the members of the Committee. The Member Secretary informed the Committee that the following corrigendum was made which is mentioned below:

(A) Agenda no. – 1.3 (Page no. 25-27, Point no. 17 and 18):

PP's email dated 13th May, 2022 and as per the recommendation of the 50th EAC meeting held on 12th and 13th May 2022, point no.17 and 18 of agenda 1.3 of the 49th EAC minutes shall be substituted as under:

17. Details of EMP:

S.No.	Activities	Capital Cost (Rs. Lakhs)	Recurring Cost (Rs. Lakhs)
I	EMP for Pollution Control & Monitoring		
A	Mitigative Measures		
1	Permanent water sprinkling arrangements for main haulage road	20.00	2.00
2	One water tanker for water sprinkling in other roads and mining areas	25.00	1.50
3	Motor Grader & Soil Compactor for haul road	150.00	5.00

S.No.	Activities	Capital Cost (Rs. Lakhs)	Recurring Cost (Rs. Lakhs)
4	Bag filter installation at Crusher Hopper	20.00	4.00
5	Water Sprinkler system at crusher hopper and transfer point	4.00	0.50
6	Bench slope plantation in an area of 20.49 ha with total 40980 saplings from 11th year onwards upto the life of mine (Considering Rs. 90.156 Lakh)	90.16	7.51
7	Plantation on Un-worked Area covering an area 34.23 ha with total 68460 saplings from 6th year onwards upto the life of mine (Considering Rs. 150.61 Lakh)	150.61	9.41
8	Green belt around 7.5 m periphery covering an area of 7.47 ha (No. of saplings: 14940)	32.87	-
9	Garland Drain around soil dump, Reject, waste & Sub grade dump (L*W*D = 2440 m x 2 m x 1 m)	5.00	0.20
10	Retaining Wall around soil dump (L*W*H = 650 m x 1 m x 1.5 m)	6.00	0.20
11	Channelized Catch Drains	8.00	0.50
12	3 nos. of Settling Tank / Sedimentation Pond (Length*Width*Depth = 4 m x 4 m x 2 m)	10.00	0.50
13	Construction of Protective Bunds along the water reservoir	3.00	0.10
14	Construction of 3 nos. of Check Dams in and around 5 km area of mine boundary and its annual maintenance	25.00	1.50
15	Procurement of the Blast Vibration Measuring Instrument & Noise level meter	5.00	-
16	Avenue Plantation along both side of road (19 Km) in 11.5 Ha. (Total 23000 trees @2000 trees/ha)	69	-
	SubTotalA	623.64	32.92
B	Monitoring		
1	4 Ambient Air Quality Monitoring Stations at Mine Site (one online and 3 manual) at villages: Nandgaon, Ekodi, Bhoyegaon and Kawathala and display board at Mines Main Gate	65.00	3.50
2	Fugitive dust emission monitoring (5 locations * monthly)	-	1.00

S.No.	Activities	Capital Cost (Rs. Lakhs)	Recurring Cost (Rs. Lakhs)
3	PersonalDustMonitoring(5locations*Quarterly)	-	0.50
4	Installationof1Piezometersalongtheleaseperipheryinthe Premises	1.50	0.50
5	InstallationofModularSTP/ETP	6.00	0.20
6	River/Stream flow measurement and Surface Water & Ground water quality analysis (4 locations * 2 times in a year)	-	0.40
7	Raw water analysis (PZ wells) (4 locations * 2 times in a year)	-	0.20
8	Workshop Waste Water Quality Analysis (monthly) as well as maintenance of oil- water separators	-	0.15
9	Peak Particle Velocity Monitoring for nearest habitation i.e. Nandgaon, Ekodi, Bhoyegaon and Kawathala	-	1.50
10	Ambient Noise Monitoring (4 locations * monthly frequency)	-	1.00
11	Personal Noise Monitoring (5 Locations * quarterly)	-	1.00
	SubTotalB	72.05	9.95
	C Miscellaneous		
1	Digital mapping of entire mine area once in three years (Rs. 3 Lacs once in 3 years)	-	1.00
2	Others, if any	-	5.00
	SubTotalC.	0.00	6.00
	TOTAL(A+B+C)	696.4	48.87
I	EstimatedbudgetforaddressingthePublicHearing issues	485.00	33.0
	GrandTotal(I+II) in Lakhs	1183.4 (says)	81.87 (says)
	GrandTotal(I+II) in Crore	11.84	0.82

18. Details of project cost and employment:

Particulars	Budget
Capital Cost for Environment Protection	Rs. 6.97 Crore
Budget for addressing the Public Hearing issues	Rs. 4.85 Crore (Capital) and Rs. 33 Lakhs (Recurring)
Capital Cost for EMP	Rs. 11.84 Crore
Recurring Cost for EMP	Rs. 0.82 Crore / annum
Project Cost	Rs. 291 Crore
Employment	141 persons

(B) Agenda no-2.5, point no.13 page no.142 & 143

Due to typographically error, the committee recommended that following tables shall be substituted in the minutes of 49th EAC meeting under agenda 2.5, point no. 13 of Baseline Data in Pg. No: 142 & 143.

13. Baseline detail:

The primary baseline data for specific micro-meteorology data, ambient air quality, waste quality, noise level, soil and flora & fauna has been collected during Post Monsoon Season i.e., October to December, 2018. The Monitoring results of ambient air, surface water, soil, ambient noise and ground water have been reported and no major divergence was observed with respect to concentration values of various parameters of collected samples.

Period	October to December, 2018				
AAQ parameters at 7 locations	Pollutant	Min, µg/m ³	Max, µg/m ³	98 %ile, µg/m ³	Standard, µg/m ³
	PM2.5	16.9	33.1	31.5	60
	PM10	36.9	69.3	66.1	100
	SO ₂	3.4	6.7	6.6	80
	NO _x	7.9	16.7	14.9	80
AAQ modelling (Incremental GLC)	Pollutant	Baseline Concentration, µg/m ³	Incremental Concentration, µg/m ³	Total GLC, µg/m ³	Standard
	PM10	47.1	1.5	48.6	100
	PM2.5	22.2	0.9	23.1	60
	SO ₂	4.7	0.4	5.1	80
	NO _x	10.8	5.5	16.3	80
Noise level at 9 locations	Day Time: 53.3 to 72.1 Leq dB (A) Night Time: 47.7 to 64.2 Leq dB (A)				
Ground water quality at 6 locations	PP reported that pH of collected water samples varied from 6.6-8.0. Electrical conductivity ranged between 242.9 - 1164 µmhos/cm. Total hardness varied from 204-267 mg/l. Total Dissolved Solids in				

	the water samples ranged from 121.6 to 582 mg/l. Chloride ranged between 12-86 mg/l. PP also reported that Total Dissolved Solids, Total Hardness, Fluoride, Magnesium and Alkalinity exceeds the drinking water standards IS:10500.
Surface water quality at 6 locations	PP reported that the overall surface water quality can be considered in surface water quality criteria class of water 'D' & 'E' i.e., Propagation of Wildlife and Fisheries & Irrigation, Industrial Cooling, Controlled Waste Disposal.
Soil quality at 7 locations	PP reported that texture of the soil is clay loam in core zone and clay to sandy loam in buffer zone. pH ranges between 6.2- 6.6 in core zone and 5.9 to 8.2 in buffer zone. Primary nutrient profile shows that soil is low in fertility due to the availability of low amount of Nitrogen and Potassium. So, the addition of bio fertilizers will enhance the fertility of soil.
Traffic Survey	PP reported that the traffic study was done in the nearby road ascertain the present traffic on the road and addition of traffic due to the "Bhilapar Manganese Mine" project. After commencement of the proposed project the Level of Service or LOS will be for TinkhedaChurai Road is 0.19 and Approach Road is 0.10, The LOS of both the roads showing value less than 1 and hence it can be said here that the increased traffic load due to the project will not cause congestion on the road network. The carrying capacity of the road (Tinkheda Churai Road) is much higher than the proposed traffic volume.

The revalidation of baseline data for specific micro-meteorology data, ambient air quality, waste quality, noise level, soil and flora & fauna has been collected during Post Monsoon Season i.e., December 2021. The Monitoring results of ambient air, surface water, soil, ambient noise and ground water have been reported and no major divergence was observed with respect to concentration values of various parameters of collected samples.

Period	Revalidation of Baseline data: December 2021				
AAQ parameters at 7 locations	Pollutant	Min, µg/m ³	Max, µg/m ³	98 %ile, µg/m ³	Standard, µg/m ³
	PM2.5	29.0	45.5	45.1	60
	PM10	55.5	93.5	92.3	100
	SO2	4.2	8.6	8.4	80
	NOx	12.7	22.9	22.8	80
AAQ modelling (Incremental GLC)	Pollutant	Baseline Concentration, µg/m ³	Incremental Concentration, µg/m ³	Total GLC, µg/m ³	Standard
	PM10	64.5	1.5	66.0	100
	PM2.5	33.3	0.9	34.2	60
	SO2	6.8	0.4	7.2	80

	NOx	16.2	5.5	21.7	80
Noise level at 9 locations	Day Time: 64.4 to 74.2 Leq dB (A) Night Time: 47.7 to 64.4 Leq dB (A)				
Ground water quality at 6 locations	PP reported that pH of collected water samples varied from 6.9-7.7. Electrical conductivity ranged between 256.4 - 1180 µmhos/cm. Total hardness varied from 26-322 mg/l. Total Dissolved Solids in the water samples ranged from 128.2 to 590 mg/l. Chloride ranged between 16-88 mg/l. PP also reported that Total Dissolved Solids, Total Hardness, Fluoride, Magnesium and Alkalinity exceeds the drinking water standards IS:10500 in some of the locations.				
Surface water quality at 6 locations	PP reported that the overall surface water quality can be considered in surface water quality criteria class of water 'C', 'D' & 'E' i.e., Propagation of Wildlife and Fisheries & Irrigation, Industrial Cooling, Controlled Waste Disposal.				
Soil quality at 7 locations	PP reported that texture of the soil is clay loam to sandy loam in core zone and clay to sandy loam in buffer zone. pH ranges between 6.2- 7.8. Primary nutrient profile shows that soil is low in fertility due to the availability of low amount of Nitrogen and Potassium. So, the addition of bio fertilizers will enhance the fertility of soil.				
Traffic Survey	PP reported that the traffic study was done in the nearby road ascertain the present traffic on the road and addition of traffic due to the "Bhilapar Manganese Mine" project. After commencement of the proposed project the Level of Service or LOS will be for TinkhedaChurai Road is 0.19 and Approach Road is 0.10, The LOS of both the roads showing value less than 1 and hence it can be said here that the increased traffic load due to the project will not cause congestion on the road network. The carrying capacity of the road (Tinkheda Churai Road) is much higher than the proposed traffic volume.				

DAY 1: 12th May, 2022 (Thursday)

1.1 Expansion in Environmental Clearance of Daroli Limestone Mine-1 of M/s Udaipur Cement Works Limited in the Mine Lease Area of 703.3051 ha for increase in production capacity of Limestone from 1.64 MTPA to 4.10 MTPA (Total Excavation: 4.53 MTPA i.e. Limestone- 4.10MTPA + Over burden - 0.43 MTPA) and expansion in crusher capacity from 700 TPH to 2770 TPH by installing additional crusher (2070 TPH) & expansion in Overland Belt Conveyor (OLBC) Capacity from 1100 TPH to 2770 TPH located near Villages Daroli, Manderia, Bichhiwara, Mandesar & Mandesar Ka Guda, Tehsil Vallabhnagar, District Udaipur, Rajasthan - [File No. J-11015/33/2021- IA-II(M); Proposal No. IA/RJ/MIN/260182/2021] –Reconsideration for Environmental Clearance

The proposal is for Expansion in Environmental Clearance of Daroli-1 Limestone Mine in the mine lease area of 703.3051 Ha of M/s Udaipur Cement Works Limited. There is an increase in production capacity of Limestone from 1.64 Million TPA to 4.53 Million TPA of Total Excavation (Limestone - 4.10 Million TPA, Over burden - 0.43 Million TPA) and increase in Crusher capacity from 700 TPH to 2770 TPH by installing Additional Crusher (2070 TPH) & Expansion in Overland Belt Conveyor (OLBC) Capacity from 1100 TPH to 2770 TPH and increase in OLBC length from existing crusher location to proposed crusher location from 6.5 km to 11.5 km (Existing OLBC Length is 6.5 km which exists from Existing Crusher to Cement Plant and only 5.0 km additional length will increase from Existing to Proposed Crusher within lease area). The mine lease area is located near Villages Daroli, Manderia, Bichhiwara, Mandesar & Mandesar Ka Guda, Tehsil Vallabhnagar, District Udaipur, Rajasthan.

1. Project details:

Location	Latitudes	24°34'22.38"to 24°37'25.73"N
	Longitudes	73°55'08.50"to 73°56'32.05"E.
	SoI Topo sheet No.	45 H/14
Accredited Consultant and certificate no.	Enkay Enviro Services Pvt. Ltd., Jaipur. NABET/EIA/2023/RA 0183 valid till 21.12.2023	
KML file	Submitted	
Seismic zone	II	

2. Category details:

Category of the project	Category "A", Project or Activity 1(a) – 3 for Mining of Mineral
Provisions	As per EIA Notification S.O. 1533 (E), dated 14th September 2006 and subsequent amendments
Mining lease Area	703.3051 ha (Private land - 267.4470 ha, Govt. Waste Land -253.4637 ha & Grazing Land - 182.3944 ha)

3. Terms of Reference and Previous Environmental Clearance Details:

ToR Proposal No.	IA/RJ/MIN/204654/2021
Online application date for Form-I	19.03.2021
ToR Letter No.	IA-5-11015/33/2021-IA-II(M)
ToR Letter Date	20.10.2021
Production capacity	4.10 Million TPA
Top Soil	Nil
Waste (OB)	0.43 Million TPA

Total Excavation	4.53 Million TPA
Crusher	Expansion of crusher capacity from 700 TPH to 2770 TPH, by installing additional crusher (2070 TPH) & expansion in Overland Belt Conveyor (OLBC) Capacity from 1100 TPH to 2770 TPH and increase in OLBC length from 6.5 km to 11.5 km (Existing OLBC length is 6.5 km which exists from Existing Crusher to Cement Plant and only 5.0 km additional length will increase from existing crusher to proposed crusher within lease area (From 6.5 km to 11.5 km).
Previous EC	<ul style="list-style-type: none"> ● Previous Environment Clearance was obtained from MoEF&CC, New Delhi vide letter no. J-11015/460/2006-IA. II (M) dated 02.01.2009 for Production Capacity for 1.64 Million TPA of Limestone in an area of 704.944 Ha. ● Amended EC dated 06.09.2018 for reduction in mine lease area from 704.944 ha to 703.3051 ha.
Previous EAC Meetings for appraisal of the EC application	The proposal was earlier considered in the 48 th EAC (Non-Coal Mining) Meeting held during 28 th to 30 th March, 2022 wherein the Committee deferred the proposal.

4. ADS details:

S.N	ADS dated	ADS Reply by project proponent dated 07.04.2022
o	06.04.2022	
1	The project proponent submitted the certified compliance report dated 24.06.2021 along with the EIA/EMP report. PP needs to	The project proponent submitted the latest certified compliance report dated 10.05.2022 duly certified by IRO, Jaipur.

	submit the latest compliance report certified by the integrated Regional Office, MOEF&CC .			
2	The project proponent needs to revise the project cost and submit. The project cost is 271.585 Crores. An EMP budget of about 3 crores with capital expenditure within 3 years in the areas of water body rejuvenation, water supply, health facilities, sport facilities, monitoring equipment'	The revised project cost along with revised EMP budget of about 7368.357 Lacs in areas of water body rejuvenation, water supply, health facilities, sport facilities, monitoring equipment's, infrastructure creations including road, communication, WiFi and schools. This is also with reference to the project proponent's letter dated 12.05.2022.		
		PROJECT COST INCLUDING OLBC AND MACHINERY		
		Proposed Project Cost (Including Plant Machinery, Infrastructure, Statutory Fees for Govt. Approvals, EMP, CER, Greenbelt Development		
		Break-up of Project Cost	Capital (Rs. in Lakhs)	Recurring (Rs. In Lakhs)
		1	Plant Machinery (Crusher, Bag Filters and Atomized jet water sprinkler etc.) , Infrastructure & Fees for Govt. Approvals	10,353.643
		2.	EMP Cost (including CER budget & Greenbelt Development, Air & Water control measures (including OLBC) & Social Aspects)	7368.357
		A.	CER Budget/Community Development Activity	239.5*
		B.	Budget for Green Belt Development till Conceptual Stage	793.857
		C.	Air & Water Pollution Control Measures & equipments	6330.50
		29.50		

s, infrastructure creations including road, communication, WiFi and schools needs to be submitted with annual recurring expenditure till the life of mine.		(including OLBC) including noise, vibration monitoring for measuring impact due to mine.		
	D.	Social Aspects (Awareness & training)	4.5	0.5
	Total (1+2)		17722.00	878.25
	Existing Project cost is 95.95 Cr and proposed project cost is 177.22 Cr, thus the total project cost will be 273.17 Cr.			
	* Based on the revision of project cost from 271.585 Cr to 273.17 Cr, the PHAP is revised from 81 Lacs to 239.50 Lacs.			
REVISED EMP BUDGET**				
		EMP Budget Old (in Lacs)	Revised EMP Budget* (in Lacs)	
		7209.87	7368.357	
S. No.	Particulars	Capital Cost (Rs. In Lacs)	Recurring Cost/Annum (Rs. In Lacs)	
I.	Air Pollution Control & Management			
	One Atomized nozzle mounted on tanker for water sprinkling on haul roads. (existing) & equipments	195	10.0	
	Permanent water atomized Sprinkler on haulage Road	60.5	3.0	
	OLBC to control air pollution	6000.0	12.0	
II.	Water Pollution Control, Management & Conservation			
	(Construction of garland drain and retaining wall, Parapet wall at the UPL of pits at CP stage and sedimentation sumps to channelized the surface runoff)	75.00	3.5	
III.	Green Belt Development			
	Green Belt (Phase wise greenbelt development during course of mine)	793.857	15.0	
IV.	Rain Water Harvesting Structure			

			Construction of Rain water Harvesting Structure within consultation with relevant Department	10.0	1.0
		V.	Social Aspects		
			Environmental Awareness Program (Vocational Training, SHG's etc.)	4.5	0.5
		VI.	Public Hearing Action Plan (Community Development Activities)		
			Public Hearing Action Plan (CER Activities)	239.5	25.25
			Total	7368.357	70.25
REVISED BUDGET FOR PH ACTION PLAN**					
			Budget for PH Issues Old (in Lakh.)	Revised Budget for PH Issues ** (in Lakh.)	
			81.0	239.5	
S.No.	Activity Head	CSR Project or activities	Time bound Action Plan with Budgetary allocation	Amount Rs. In Lakhs 2022-23 to 2024-2025	Recurring Rs. In Lakhs (Every Year From 2022 to 2030)
1	Community Infrastructure Development	Beautification of edge of the Daroli pond (Talab ki Paal) in village Daroli.	Beautification of pond will be undertaken by creating a promenade	63.0	6.3

					of 300m length and 3.0 m width on SW side of the Daroli pond. There will be circular walkway with 1.0m width. This will be completed in 2022-2023 with a budget of Rs. 21 Lakhs		
				Maintenance & Repair of Road from Mandesar Village to Mine.	Mandesar is about 800m from the Western periphery of the mine. The village road towards western periphery will be repaired by filling up potholes with gravel gitti. Total budget of Rs. 1.0 is	9.0	3.0

					laid down for repair of the potholes of this road of 800 m length. The repair budget for 3 years will be 3.0 lacs. The activity will be undertaken from 2022-23 onwards.		
				Provision of Barbed Wire Fencing around cemetery at Village Daroli in consultation with local administration.	Total budget of Rs. 16.0 Lacs laid down for Barbed wire fencing (50x50 m) around cemetery at Village Daroli to be completed by year 2023-24.	26.0	1.0
				Development of Playground (Area cleaning and leveling). Plantation	Total budget of Rs. 5.0 Lakh is laid down for development of	20.0	1.5

				will be done nearby School.	Playground and Plantation to be completed in the year 2023-24.		
				Facility will be provided in Bhamrasiyab avaji temple i.e. Drinking water facility Provision of 2 nos. Toilet for Male & Female. Provision of Rest Shelter Plantation nearby temple.	An RO system with fitted water wank along with 2 numbers of toilet for male and female each along will be done. Rest shelter of 50 x50 sq.ft will be done with green belt development around the temple. Total budget of Rs. 20 lacs have been taken up and it will be done by year 2023-24.	60.0	6.5
		2	Drinking Water	We are providing drinking water	We are proposing to install RO system	15.5	3.5

				<p>through PHED to Daroli, Mandesar, Ghanoli & Maharaj ki Khedi Villages with regular water testing under by PHED. Apart from this, RO system will be provided at requisite locations in consultation with local administration.</p>	<p>in School at village Mandesar ka Ghuda and Bus Stand at village Daroli in this FY 2024-25 with a capital budget of Rs. 1.0 lacs. In the precedent year 2024-2025, we are proposing installation of RO plant in villages Majawada, Gupri and Daroli with a capital budget of Rs. 3.5 lacs.</p>		
		3	Educatio n	<p>02 nos. Computer with table and chair, 01 no. Printer will be provided. Company</p>	<p>Provision of Rs. 2.0 lac has been taken for computer, computer table and printer. It</p>	6.0	

				will take initiative for computer coaching classes, environmental conservation and management and road safety awareness sessions for students in consultation with School Principal of Govt. Middle School, Mandesar Ka Guda, with WiFi facilities	will be done by year 2023-24.		1.0
		4	Health	Bed, Stretcher, Wheelchair and Bench in waiting hall will be provided in health center of Mandesar Village in consultation with local Administration.	Total budget of Rs. 3.5 Lakh is laid down for providing bed, stretcher, bench and wheelchair for hospital. It will be done by year 2024-25	20.0	1.25

				To improve the soil quality camp for guidance from experts of Krishi Vighyan Kendra (KVK), Udaipur is already initiated and will continue to do so.	The budget for Rs. 1.0 Lakh is laid out for these camps by year 2022-23.	5.00	0.45
				Company will facilitate in consultation with local administrator for fodder in the lean season for livestock.	Provision of Rs. 5.0 Lakhs per year has been taken by the year 2023-24.	15.00	0.75
				Total		239.5	25.25
3	The project proponent needs to submit the EMP cost including the cost of OLBC, noise and vibration and monitoring at the edge of the villages for	Reply is submitted in ADS Reply Point No.2					

	measuring impacts due to mine	
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5. Lease Details:

Granted Prospecting Licence	Area	703.3051 ha
	Execution date	16.04.1969
	PL No.	ML No. 186/08
Prospecting operation, Commence date	16.04.1969	
Application for the Mining lease area and Date	30.01.1968	
Validity of mine lease	31.03.2030	
Grant of ML & Area	Letter No.	P-24 (58) Khan/68,
	Date	30.01.1968

6. Mining plan details:

Mining Plan (approved by Indian Bureau of Mines/DMG)	Letter No.	584(4)(3)(1834)/2020 RCOM-AJM
	Date	23/10/2020
	Validity	2020-21 to 2023-2024
Mining Parameters	Quantitative Description	
Bench Height	8.0 m	
Bench Width	20-30 m	
Method of Mining	Fully-Mechanized Opencast Mining	
Individual bench slope	80 ⁰ from vertical	
Overall pit slope	52 ⁰	
Drilling/Blasting	Drilling- 2 No. (1+ 1 STANDBY) of drills to be provided @ drilling rate 8m/ hour <u>Blasting Factors:</u> Burden (m)-3.0, Spacing (m)-4.5 Volume (cu.m.)- 3 x 4.5 x 8.0 = 108 cu.m Tonnage Yield (t)- 108 x 2.73 = 294.84 Tons	
RoM output size	700 mm	
Life of mine	34 Years	
Transportation details	By dumper, tipper/OLBC	

Dumper's capacity	25/35 Tonne
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7. Nearest village / town/ highway/railway station / water bodies:

Particular	Distance (Km)	Direction
	From Lease Boundary/Proposed Working Pit	
Village/Town		
MandesarKaGudha	0.30	S
Nearest Town- Dabok	5.19	W
Nearest City- Udaipur	16.65	W
Nearest District Headquarter – Udaipur	22.60	W
Highway		
NH – 27	Lease area interception is 250 Mtrs diagonally	N
SH – 09	5.12	WNW
Railway Station		
Debari	11.40	W
Water Bodies		
Berach River	0.19	N
Vela Nala	1.08	NW
GadelaNadi	2.48	NE
KataraNadi	2.53	NE
Udaisagar	8.78	W
KhemliTalav	8.92	NW
SukliNadi	9.92	SSW

8. Water requirement:

Total water requirement	325 KLD	Fresh water	35 KLD (Ground Water)
		Treated water	290 KLD (Mine Pit Water)
Source	Ground Water & Mine Pit Water		
Permission	NOC for ground water withdrawal has been obtained from CGWA vide letter no. CGWA/NOC/IND/REN/2/2022/6673 dated 22/04/2021 valid till 21/04/2024		

9. Presence of Environmentally Sensitive areas in the study is:

Forest Land/Protected Area/Environmental Sensitivity Zone	Yes/No	Details of Certificate/letter/Remarks
Forest Land	No	The same is authenticated from DCF, Udaipur, vide letter No. F Survey/DCF-North/2021-22/491, date- 28.01.2022.
National park	No	
Wildlife Sanctuary	No	

Schedule-1 species	Yes/No	Details of Certificate/letter/Remarks
Schedule-I species	No	It is authenticated from DCF, Udaipur, vide letter No. F () Survey/DCF-North/2021-22/491, date- 28.01.2022.

10. Status of CTE/CTO.

Consent to operate for mining of mineral was granted vide order no. 2019-20/Mines/9977, dated 22.07.2019 which is valid up to 30.04.2024.

Consent to operate for Limestone Crusher was granted vide order no. 2017-18/SCMG/4497, dated 23.03.2018 which is valid up to 31.01.2023.

11. Green belt/plantation details:

Proposed area for green belt/plantation	142.32 ha
Budget for green plant & plantation till the end of life of mine.	793.857 Lakhs

Particulars for Green belt/plantation	Area covered (in Ha)
7.5 m barrier & non-mineralized zone	Plantation has already been done in 4.20 ha area out of the total peripheral area of 12.489 Ha and by Sept 30th 2021, PP shall cover additional 4.0 Ha area and balance will be completed by Dec 2022

12. Baseline details:

Baseline Data (Air / Water / Noise / Soil / Ground water table/ others)	
Period of baseline data collection	March to May, 2019 and Additional Monitoring in October to December, 2021

Season (Summer / Pre-monsoon / Post-monsoon / Winter)	Summer Season and Post Monsoon Season
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13. Public Hearing details:

Advertisement for PH with date	Indian Express & Dainik Bhaskar dated 30.12.2021
Date of PH	01.02.2022
Venue	Rajeev Gandhi Seva Kendra-Daroli, Tehsil-Vallabhnagar, District- Udaipur (Raj)
Chaired by	Mr. O.P Bunkar, Additional District Collector and Additional District Magistrate, Udaipur and under the auspices of Mr. Vinay Katta, Regional Officer, Rajasthan State Pollution Control Board, Udaipur
Main issues raised during PH	Employment, Infrastructure Development, Drinking Water Facility Education, Health, Environment and other local social needs.
Budget proposed for addressing issues raised during PH	239.5 Lacs

14. Court case details:

Court Case	A case against the unit at ACJM Court Mavli, District- Udaipur (Raj.) is pending under the provision of section 15 read with Section 19 of the Environment (Protection) Act, 1986. Case No. 107/2017.
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15. Affidavit/Undertaking details:

Affidavit	The project proponent submitted the Affidavit dated 19.03.2021 in accordance with the statutory requirement & judgment of Hon'ble Supreme Court dated 2 nd August 2017 in writ Petition (civil) No. 114 of 2014 in the matter of common cause versus Union of India & Ores is submitted to MoEF&CC.
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Undertaking	<p>The project proponent has submitted an undertaking dated 12.05.2022 stating that:</p> <ol style="list-style-type: none"> 1. Out of the total Grazing land of 182.3944 ha, mining operations will be as per approved mining plan in only 60.0 ha of the grazing land after obtaining permission from competent authority for the first 10 years. Subsequently, if any additional requirement of the grazing land is required, requisite permission as per provision of the State Land and Revenue Department will be done progressively. 2. That the village roads passing through the lease area and connecting Pandu Mata temple situated in the Daroli 2 Mine Lease will be diverted and avenue plantation will be carried out. 3. That dedicated roads for the movement of mining equipment/machineries will be developed along the lease boundary to connect Daroli 2 Mine working pit/s to the proposed crusher in Daroli 1 Mine Lease area. Plantation on the either side of the dedicated road will be carried out. 4. That adequate safety measures such as traffic signal, speed breaker etc. will be provided at all existing village road intersections with the dedicated road within the Mine Lease area. 5. That no mining activity is proposed and will not be undertaken in future in undisturbed area within the Mine Lease area.
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16. Previous EC compliance and production details:

Particulars	Letter no. and date
Certified EC compliance report	The project proponent submitted the latest certified compliance report dated 10.05.2022 duly certified by IRO, Jaipur.
Certified past production	ME/UDI/ASN/M.L No.2/88/477 - dated 11.8.2016 (From 1976- 77-1998-99) ME/UDI/2018-19/196 - dated 11.02.2019. (From 1999-2000 to 2017-18) ME/UDAI/STATICAL/2020-21/73, date-31.03.2021. ME/UDAI/STATICAL/2021/24, date-18.08.2021.

17. Details of project cost and employment:

Particulars	Details
Budget for addressing the Public Hearing issues	239.5 Lakhs

Capital Cost for EMP	7368.357 Lakhs
Recurring Cost for EMP	70.25 Lakhs/annum
Project Cost	Existing Cost: 95.95 Crore. Proposed Cost: 177.22 Crores. Total Cost after Expansion: 273.17 Crores
Employment	169 persons

18. Observation and Recommendation of the Committee:

The proposal for Environmental Clearance was considered in the 50th EAC meeting held during 12th to 13th May 2022. After the detailed deliberations, the Committee recommended the proposal for expansion in Environmental Clearance of Daroli Limestone Mine-1 of Udaipur Cement Works Limited in the Mine Lease Area of 703.3051 ha for increase in production capacity of Limestone from 1.64 MTPA to 4.10 MTPA (Total Excavation: 4.53 MTPA i.e. Limestone - 4.10 MTPA + Over burden - 0.43 MTPA) and expansion in crusher capacity from 700 TPH to 2770 TPH by installing additional crusher (2070 TPH) & expansion in Overland Belt Conveyor (OLBC) Capacity from 1100 TPH to 2770 TPH located at Villages Daroli, Manderia, Bichhiwara, Mandesar & Mandesar Ka Guda, Tehsil Vallabh Nagar, District Udaipur, Rajasthan subject to the following specific conditions in addition to the general conditions of non-coal mining projects:

- i. The Project Proponent should install the continuous ambient air quality monitoring stations in such numbers as per the scientific study and in consultation with CPCB.
- ii. The project proponent shall monitor water quality with specific reference to Langelier Saturation Index to assess the impact of calcium carbonate on water quality.
- iii. The budget of Rs. 239.5 Lacs to address the concerns raised by the public including in the public hearing to be completed within 3 years from the date of start of mining operations. PP shall comply with all action plans made for public hearing concerns and make regular maintenance and record the progressive activity outcomes.
- iv. The project proponent to comply the outcome of the Hon'ble Court case.
- v. The Project Proponent shall carry out the gap plantation with 10 ft tall seedlings within one year in such a way that the density of the plantation should be uniform and the survival rate should not be less than 95%. Local species should be planted after consultation with local forest officer and as per CPCB/SPCB

- guidelines. The Project Proponent shall implement the practice of drip irrigation for plantation.
- vi. The Project Proponent shall strictly follow the mitigation measures provided in MoEF&CC Office Memorandum No. Z-11013/57/2014-IA.II(M), dated 29th October, 2014.
 - vii. The Project Proponent shall also organize employment-based apprenticeship/ internship training program every year with appropriate stipend for the youth and other programs to enhance the skill of the local people. The data should be maintained for the training imparted to the persons and the outcome of the training, for the assessment of the training program should be analyzed periodically and improved accordingly.
 - viii. The Project Proponent should explore the possibility for shifting to clean energy using electric equipment for cleaner production options to reduce the emission generated from various machineries.
 - ix. The Project Proponent should periodically monitor and maintain the health records of the mine workers digitally prior to mining operations, at the time of operation of mine and post mining operations. Regular surveillance on Silicosis shall be carried through regular occupational health check-up every year for mine workers.
 - x. The village roads are not permitted to be used for the purpose of transportation of the mineral.

1.2 Expansion in Environmental Clearance of Daroli Limestone Mine 2 in the mine lease area of 213.33 Ha of M/s Udaipur Cement Works Limited with increase in Limestone production capacity from 1.56 MTPA to 3.90 Million TPA of Total Excavation (Limestone – 3.89 Million TPA + OB/SB/IB –0.01 Million TPA) located near Village Manderiya, Bichiwara and Jaspura, Tehsil Vallabh Nagar, District Udaipur, Rajasthan –[File No. J-11015/32/2021-IA-II(M); Proposal No. IA/RJ/MIN/260440/2021] –Reconsideration for Environmental Clearance

The proposal is for Expansion in Environmental Clearance of Daroli Limestone Mine – 2 in the mine lease area of 213.33 Ha of M/s Udaipur Cement Works Limited. There is an increase in Limestone production capacity from 1.56 MTPA to 3.90 Million TPA of Total Excavation (Limestone – 3.89 Million TPA + OB/SB/IB –0.01 Million TPA). The mine lease area is located near Village Manderiya, Bichiwara and Jaspura, Tehsil Vallabh Nagar, District Udaipur, Rajasthan.

1. Project details:

Location	Latitude	24°34'22.12" to 24°34'52.89" N
	Longitude	73°55'17.29" to 73°56'02.56" E
	SoI Topo sheet No.	45 H/14
Accredited Consultant and certificate no.	Enkay Enviro Services Pvt. Ltd., Jaipur. NABET/EIA/2023/RA 0183 valid till 21.12.2023	
KML file	Submitted	
Seismic zone	II	

2. Category details:

Category of the project	Category "A", Project or Activity 1(a) – 3 for Mining of Mineral
Provisions	As per EIA Notification S.O. 1533 (E), dated 14th September 2006 and subsequent amendments
Mining lease Area	213.33 Ha (Private land - 71.33 ha and Govt. Waste Land -142 ha)

3. Terms of Reference and Previous Environmental Clearance Details:

ToR Proposal No.	IA/RJ/MIN/204635/2021
Online application date for Form-I	19.03.2021
ToR Letter No.	IA-5-11015/32/2021-IA-II(M)
ToR Letter Date	20.10.2021
Production capacity	3.89 Million TPA
Top Soil	Nil
Waste (Overburden)	0.01 Million TPA
Total Excavation	3.90 Million TPA
Previous EC details	Environmental Clearance was granted under EIA Notification 2006 vide letter No. J-11015/453/2006- IA.II (M) on 05.01.2009 for limestone production capacity of 1.56 MTPA for captive use.
Earlier EAC meetings	48 th EAC Meeting held on 29.03.2022

4. ADS details:

S. No	ADS Sought on 06.04.2022	ADS reply submitted on 07.04.2022
1	The project proponent	The project proponent submitted the latest certified compliance report dated 10.05.2022 duly certified by IRO, Jaipur.

	<p>submitted the certified compliance report dated 24.06.2021 along with the EIA/EMP report. PP needs to submit the latest compliance report certified by the integrated Regional Office, MOEF&CC</p>																									
2	<p>The project proponent needs to revise the project cost by adding the cost of land, cost of EMP and cost of operation. Minimum 2% of the project cost should be for EMP for addressing public concerns. A 3 year budget with capital investment with timelines</p>	<p>The revised project cost along with revised EMP budget of about 720.93 Lacs addressing the public concerns with 3 years budget plan and annual recurring till the end of life of mine. This is also with reference to the project proponent's letter dated 12.05.2022.</p> <p style="text-align: center;">REVISED PROJECT COST *</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="text-align: center;">Project Cost Old (in Lacs)</th> <th style="text-align: center;">Revised Project Cost* (in Lacs)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">875.93</td> <td style="text-align: center;">975.93</td> </tr> </tbody> </table> <table border="1" style="width: 100%;"> <thead> <tr> <th colspan="4" style="text-align: center;">Project Cost (Including Plant Machinery, Infrastructure, Statutory Fees for Govt. Approvals, EMP, CER, Greenbelt Development)</th> </tr> <tr> <th colspan="2" style="text-align: center;">Break-up of Project Cost</th> <th style="text-align: center;">Capital, Rs. In Lac</th> <th style="text-align: center;">Recurring Rs. In Lac</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1.</td> <td>EMP COST (including CER budget & Greenbelt Development, Air & Water control measures & Social Aspects)</td> <td style="text-align: center;">720.93</td> <td style="text-align: center;">38.75</td> </tr> <tr> <td style="text-align: center;">A.</td> <td>CER Budget/Community Development Activity</td> <td style="text-align: center;">127.25*</td> <td style="text-align: center;">12.25</td> </tr> <tr> <td style="text-align: center;">B.</td> <td>Budget for Green Belt Development</td> <td style="text-align: center;">471.68</td> <td style="text-align: center;">10.0</td> </tr> </tbody> </table>	Project Cost Old (in Lacs)	Revised Project Cost* (in Lacs)	875.93	975.93	Project Cost (Including Plant Machinery, Infrastructure, Statutory Fees for Govt. Approvals, EMP, CER, Greenbelt Development)				Break-up of Project Cost		Capital, Rs. In Lac	Recurring Rs. In Lac	1.	EMP COST (including CER budget & Greenbelt Development, Air & Water control measures & Social Aspects)	720.93	38.75	A.	CER Budget/Community Development Activity	127.25*	12.25	B.	Budget for Green Belt Development	471.68	10.0
Project Cost Old (in Lacs)	Revised Project Cost* (in Lacs)																									
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A.	CER Budget/Community Development Activity	127.25*	12.25																							
B.	Budget for Green Belt Development	471.68	10.0																							

and fixed targets as well as the annual recurring cost till life of mine.		till Conceptual Stage		
	C.	Air & Water Pollution Control Measures & Equipments	117.5	16.0
	D.	Social Aspects (Awareness & training)	4.5	0.5
	2.	Land Cost	Nil	Nil
	3.	Plant Machinery, Infrastructure & Statutory Fees for Govt. Approvals*	255.0	15.00
	Total (1+2+3)		975.93	53.75
	<p>The major plant and machinery is covered in Daroli-1 mine and will be deployed in Daroli-2 as and when required.</p> <p>*Based on the revision of the project cost from 875.92 Lacs, the PHAP is revised from 27.25 Lacs to 127.25 Lacs.</p>			
	REVISED EMP BUDGET**			
	EMP Budget Old (in Lacs)		Revised EMP Budget** (in Lacs)	
	620.93		720.93	
S. No.	Particulars	Capital Cost (Rs. In Lacs)	Recurring Cost/Annum (Rs. In Lacs)	
I.	Air Pollution Control & Management			
	One Atomized nozzle mounted on tanker for water sprinkling on haul roads & equipments	0.0	10.0	
	Permanent atomized water Sprinkler on haulage Road	60.5	3.0	
II.	Water Pollution Control, Management & Conservation			
	(Construction of garland drain and retaining wall, Parapet wall at UPL in CP stage and sedimentation sumps to channelized the surface runoff)	52.0	2.5	
III.	Green Belt Development			

			Green Belt (Phase wise greenbelt development during course of mine)	471.68	10.0
		IV.	Rain Water Harvesting Structure		
			Construction of Rain water Harvesting Structure within consultation of PHED Department	5.0	0.5
		V.	Social Aspects		
			Environmental Awareness Program (Vocational Training, SHG's etc.)	4.5	0.5
		VI.	Public Hearing Action Plan (Community Development Activities)		
			Public Hearing Action Plan (CER Activities)	127.25	12.25
			Total	720.93	38.75
REVISED PH ACTION PLAN***					
		Budget for PH Issues Old (in Lakh.)		Revised Budget for PH Issues *** (in Lakh.)	
		27.25		127.25	
				Amount Rs. In Lakhs	Recurring
			Activity Head	CER Project or activities	Time bound Action Plan with Budgetary allocation
				2022-23 to 2024-2025	(Every Year From 2022 to 2032)
			Community Infrastructure Development	Maintenance & Repair of Water tank/hand pump village	Water tank and hand pump will be repaired in Bhamarasiya
				2.5	NA

			<p>Bhamrasiya. Maintenance & Repair of Road in village Bhamrasiya.</p>	<p>village. Provision of Rs. 2.5 Lakhs for repairing of water tank has been considered for year 2022-23.</p>		
				<p>The village road will be repaired by filling up potholes with gravel gitti by 2023-24. Provision of Rs. 1.75 Lakhs for Repair of road in Village- Bhamrasiya has been considered for year 2023-24.</p>	1.75	0.25
			<p>Diversion and development of village road from Pandu Mata temple</p>	<p>Diversion and development of village road from Pandu Mata temple along lease boundary including plantation on</p>	100	10

				either side with adequate safety measures at intersections		
		Plantation / Afforestation	Plantation at Govt school Gupri.	Plantation work will be done near School at Village Gupri. Provision of Rs. 1.5 Lakh for Plantation for year 2022-23.	1.5	0.10
		Education	Provide facility in school for enhancement of education.	02 nos. Computer with table and chair, 01 no. Printer will be provided in year 2022-23.	2.5	0.10
				Company will take initiative for computer coaching classes with Wi-Fi facility, environmental conservation and management and road	1.0	NA

				safety awareness sessions for students in consultation with School Principal in year 2023-24.		
		Employment	Conduct Skill development programme	Company will conduct skill development plans such as Beauty parlor, sewing programme, , etc. Provision of Rs. 2.0 Lacs has been taken for year 2022-23 2023-24& 2024-25.	6.0	0.60
		Other	Conduct Camp for livestock development	Livestock development camp will be conduct annually. Provision of Rs. 2.0 Lakhs for livestock development camp in the year 2022-23 2023-24 and	6.0	0.60

				2024-25		
			Provide Sports Facility to the Kids & Youth.	Sport facilities will be provided for school going Kids in the year 2022-23 2023-24 and 2024-25	6.0	0.60
		Total			127.25	12.25
3	The project proponent needs to submit the EMP cost including the cost of OLBC, noise and vibration and monitoring at the edge of the villages for measuring impacts due to mine	Reply is submitted in ADS Reply Point No.2				

5. Lease Details:

Granted Prospecting License	Area	213.33 ha
	Execution date	10.12.1982
	PL No.	ML No. 23/01
Prospecting operation, Commence date	10.12.1982	

Application for the Mining lease area and Date	19.06.1982.	
Validity of mine lease	09.03.2032	
Grant of ML & Area	Letter No.	P-5 (111) Khan/Group- 2/80
	Date	19.06.1982

6. Mining plan details:

Mining Plan(approved by Indian Bureau of Mines/DMG)	Letter No.	584(4)(3)(1835)/2020 RCOM-AJM
	Date	23/10/2020
	Validity	2020-21 to 2022-2023
Mining Parameters	Quantitative Description	
Bench Height	8.0 m	
Bench Width	20-30 m	
Method of Mining	Fully-Mechanized Opencast Mining	
Individual bench slope	80 ⁰ from vertical	
Overall pit slope	52 ⁰	
Drilling/Blasting	Drilling- 2 No. (1+ 1 standby)of drills to be provided @ drilling rate 8m/ hour Blasting Factors- Burden (m)-3.0, Spacing (m)- As per approved mining plan Volume (cu.m.)- 3 x 4.5 x 8 = 108 cu. m Tonnage Yield (t)- 108 x 2.73 = 294.84t	
RoM output size	700 mm	
Life of mine	32 Years	
Transportation details	By dumper, tipper	
Dumpers capacity	25/35 Tonne	

7. Nearest village / town/ highway/railway station / water bodies

Particular	Distance(km)	Direction
Village		
Bichhiwara	Within lease area	--
Jaspura	0.27	S
Manderia	1.08	N
Majawar	1.4	E
Mandesar	3.72	NNW
Highway		

NH-27	4.73	N
SH-09	7.50	NW
Water Bodies		
BerachRiver	5.00	N
Vela Nala	5.23	NNW
KataraNadi	6.81	NNE
GadelaNadi	7.33	NNE
SukliNadi	7.99	SW
Udaisagar	8.77	W

8. Water requirement

Total water requirement	212 KLD	Fresh water	12 KLD (Ground Water)
		Treated water	200 KLD (Mine Pit Water)
Source	Ground Water & Mine Pit Water		
Permission	NOC for ground water withdrawal has been obtained from CGWA vide letter no. CGWA/NOC/IND/REN/2/2022/6673 dated 22/04/2021; valid till 21/04/2024.		

9. Presence of Environmentally Sensitive areas in the study area

Forest Land/Protected Area/Environmental Sensitivity Zone	Yes/No	Details of Certificate/ letter/ Remarks
Forest Land	No	The same is authenticated from DCF, Udaipur, vide letter No. F Survey/DCF North/2021-22/491, date-28.01.2022.
National park		
Wildlife Sanctuary		

Schedule-1 species	Yes/No	Details of Certificate/letter/Remarks
Schedule-I species	No	The same is authenticated from DCF, Udaipur, vide letter No. F Survey/DCF-North/2021-22/491, date- 28.01.2022.

10. Status of CTE/CTO:

Consent to operate was granted vide order no. 2020-21/Mines/10168, dated 31.08.2020 which is valid up to 04/01/2024.

11. Green belt/plantation details:

Proposed area for green belt/plantation	78.07 ha
Budget for green plant& plantation till the end of life of mine.	570.525Lakh

Particulars for Green belt/plantation	Area covered (in Ha)
7.5 m barrier & non-mineralized zone	Plantation has already been done in 1.80 ha area out of the total peripheral area of 6.30 Ha and by Sept 30 th 2021 shall cover additional 2.0 Ha area and balance 2.5 ha will be completed by Dec'2022.

12. Baseline details:

Baseline Data (Air / Water / Noise / Soil / Ground water table/ others)	
Period of baseline data collection	March to May, 2019 and Additional Monitoring in October to December, 2021
Season (Summer / Pre-monsoon / Post-monsoon / Winter)	Summer Season and Post Monsoon Season

13. Public Hearing details:

Advertisement for PH with date	Indian Express & Dainik Bhaskar dated 30.12.2021
Date of PH	01.02.2022
Venue	Rajeev Gandhi Seva Kendra-Daroli, Tehsil-Vallabhnagar, District- Udaipur (Raj)
Chaired by	Mr. O.P Bunkar, Additional District Collector and Additional District Magistrate , Udaipur and under the auspices of Mr.Vinay Katta, Regional Officer, Rajasthan State Pollution Control Board, Udaipur
Main issues raised during PH	Employment, Infrastructure Development, Drinking Water Facility Education, Health, Environment and other local social needs.
Budget proposed for addressing issues raised during PH	127.25 Lacs

14. Court case details:

Court Case	No litigation is pending against the project
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15. Affidavit/Undertaking details:

Affidavit	The project proponent submitted the Affidavit dated 23.12.2020 in accordance with the statutory requirement & judgment of Hon'ble Supreme Court dated 2nd August 2017 in writ Petition (civil) No. 114 of 2014 in the matter of common cause versus Union of India & Ores is submitted to MoEF&CC.
Undertaking	<p>The project proponent has submitted an undertaking dated 12.05.2022 stating that:</p> <ol style="list-style-type: none"> 1. That the village roads passing through the lease area and connecting Pandu Mata temple situated in the Daroli 2 Mine Lease will be diverted and avenue plantation will be carried out. 2. That dedicated roads for the movement of mining equipment/machineries will be developed along the lease boundary to connect Daroli 2 Mine working pit/s to the proposed crusher in Daroli 1 Mine Lease area. Plantation on the either side of the dedicated road will be carried out. 3. That adequate safety measures such as traffic signal, speed breaker etc. will be provided at all existing village road intersections with the dedicated road within the Mine Lease area. 4. That no mining activity is proposed and will not be undertaken in future in undisturbed area within the Mine Lease area.

16. Previous EC compliance and production details:

Particulars	Letter no. and date
Certified EC compliance report	The project proponent submitted the latest certified compliance report dated 10.05.2022 duly certified by IRO, Jaipur.
Certified past production	<p>ME/UDAIPUR/ASHUNI/ML-2/88/476 -dated 11.8.2016 (1982-83 to 1998-99). ME/UDAIPUR/ASHUNI /ML-23/01/298 - dated 12.04.2018. (From -1999-2000 to 2017-18) ME/UDAI/STATIC//20-21/74, date-30.03.2021. ME/UDAI/STATIC//2021/25, date-18.08.2021.</p>

17. Details of project cost and employment:

Particulars	Details
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Budget for addressing the Public Hearing issues	127.25 Lacs
Total Cost for EMP	720.93 Lacs
Recurring Cost for EMP	38.75 Lacs/annum
Project Cost	975.93 Lacs
Employment	86 persons

19. Observation and Recommendation of the Committee:

The proposal for Environmental Clearance was considered in the 50th EAC meeting held during 12th to 13th May 2022. After the detailed deliberations, the Committee recommended the proposal for expansion in Environmental Clearance of Daroli Limestone Mine 2 of M/s Udaipur Cement Works Limited with expansion in Limestone production capacity from 1.56 MTPA to 3.90 Million TPA of Total Excavation (Limestone – 3.89 Million TPA + OB/SB/IB – 0.01 Million TPA) in the mine lease area of 213.33 Ha (M.L. No.64/79(old), (23/2001(Renewal) located at Village Manderiya, Bichiwara and Jaspura, Tehsil Vallabh Nagar, District Udaipur, Rajasthan subject to the following specific conditions in addition to the general conditions of non-coal mining projects:

- i. The Project Proponent should install the continuous ambient air quality monitoring stations in such numbers as per the scientific study and in consultation with CPCB.
- ii. The project proponent shall monitor water quality with specific reference to Langelier Saturation Index to assess the impact of calcium carbonate on water quality.
- iii. The Project Proponent shall carry out the gap plantation with 10 ft tall seedlings within one year in such a way that the density of the plantation should be uniform and the survival rate should not be less than 95%. Local species should be planted after consultation with local forest officer and as per CPCB/SPCB guidelines. The Project Proponent shall implement the practice of drip irrigation for plantation.
- iv. The budget of Rs. 127.25 Lacs to address the concerns raised by the public including in the public hearing to be completed within 3 years from the date of start of mining operations. PP shall comply with all action plans made for public hearing concerns and make regular maintenance and record the progressive activity outcomes.

- v. The Project Proponent shall strictly follow the mitigation measures provided in MoEF&CC Office Memorandum No. Z-11013/57/2014-IA.II(M), dated 29th October, 2014.
- vi. The Project Proponent shall also organize employment-based apprenticeship/ internship training program every year with appropriate stipend for the youth and other programs to enhance the skill of the local people. The data should be maintained for the training imparted to the persons and the outcome of the training, for the assessment of the training program should be analyzed periodically and improved accordingly.
- vii. The Project Proponent should explore the possibility for shifting to clean energy using electric equipment for cleaner production options to reduce the emission generated from various machineries.
- viii. The Project Proponent should periodically monitor and maintain the health records of the mine workers digitally prior to mining operations, at the time of operation of mine and post mining operations. Regular surveillance on Silicosis shall be carried through regular occupational health check-up every year for mine workers.
- ix. The village roads are not permitted to be used for the purpose of transportation of the mineral.

1.3 Expansion in Terms of Reference of MarwarMundwa Limestone Mine (ML - II) (ML Area: 635 ha) for increase in Limestone Production Capacity from 0.5 Million TPA to 2.0 Million TPA, Top Soil 0.16 Million TPA, Waste (OB/IB) 0.58 Million TPA (Total Excavation 2.74 Million TPA) located near Villages Kherwad, Rupasar and Didyakalan, Tehsil Nagaur and Jayal, District Nagaur, Rajasthan of M/s Ambuja Cements Limited –[File No: IA-J-11015/25/2022-IA-II(NCM); Proposal No: IA/RJ/268131/2022] – Terms of reference

The proposal is for Expansion in Terms of Reference of Marwar Mundwa Limestone Mine in the mine lease area of 635 ha of M/s Ambuja Cements Limited. There proposal is for increase in Limestone Production Capacity from 0.5 Million TPA to 2.0 Million TPA, Top Soil 0.16 Million TPA, Waste (OB/IB) 0.58 Million TPA (Total Excavation 2.74 Million TPA). The mine lease area is located near Villages Kherwad, Rupasar and Didyakalan, Tehsil Nagaur and Jayal, District Nagaur, Rajasthan

1. Project details:

Location	Latitudes	27°05'24.332" to 27°08'43.581"N
	Longitudes	73°51'22.728" to 73°53'02.144"E

	SoilTopo sheet No.	Core Zone: G43B16 (45 E/16) Buffer Zone: G43B12 (45E/12) ; G43B16 (45E/16) ; G43H13 (45F/13)
Accredited Consultant and certificate no.	J.M. EnviroNet Pvt. Ltd. Accredited EIA Consultant by NABET (QCI) Certificate No: NABET/EIA/2023/RA 0186, dated 17.12.2020 & valid up to 07.02.2023	
KML file	Submitted	
Seismic zone	Zone II as per IS: 1893 (Part-I): 2002	

2. Category details:

Category of the project	Category “A”, Project or Activity 1(a)-(3) for Mining of Mineral
Provisions	As per EIA Notification S.O. 1533 (E), dated 14th September 2006 and subsequent amendments
Mining lease Area	635 Ha (Private land: 316.42 Ha and Govt. land: 318.58 Ha)

3. Terms of Reference and Previous Environmental Clearance Details:

ToR Proposal No.	IA/RJ/268131/2022
Online application date for Form-I	18.04.2022
Documents Submitted	Covering Letter, Authorization, Brief Summary, KML, Sol Toposheet, Pre Feasibility Report, Proposed ToR etc.
Production capacity	Limestone Production Capacity from 0.5 Million TPA to 2.0 Million TPA
Soil	0.16 million TPA
Waste	0.58 million TPA
Total Excavation	2.74 Million TPA
Crusher	There is no crusher in the lease area. Crusher (2000 TPH) of adjacent mine ML-I is being/will be used.
Previous EC details	<ul style="list-style-type: none"> ➤ Environment Clearance for 0.5 Million TPA Limestone Production in the name of M/s. Indo Nippon Special Cements Ltd., vide letter no. J-11015/422/2005-IA.II (M) on dated 18th January, 2007. ➤ Environmental Clearance was transferred for existing 0.5 million TPA Limestone Production Capacity in the name of M/s. Ambuja Cements

	Limited, vide letter no. J-11015/422/2005-IA.II(M) on dated 28 th March, 2017.
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4. Lease Details:

Granted Prospecting License	Area	1638 Ha
	Execution date	06.03.1993
	PL No.	F(3)(21)Mines Grill/92
Prospecting operation, Commence date	01.04.1993 to 31.03.1994	
Application for the Mining lease area	Applied on 28.07.1994	
Validity of mine lease	05.05.2007 to 04.05.2057 (50 years)	
Letter of Intent	Letter No.	F3(21) Khan/Gr-I/92
	Date	06.03.1995

5. Mining plan details:

Mining Plan (approved by Indian Bureau of Mines/DMG)	Letter No.	584(4)(3)(1881)/2021 RCOM-AJM		
	Date	12.11.2021		
	Validity	31.03.2027		
Mining Parameters	Quantitative Description			
Bench Height	6.0 m			
Bench Width	12.00 m			
Method of Mining	Fully Mechanized Opencast Mining Method			
Individual bench slope	75 ^o			
Overall pit slope	45 ^o			
Drilling/Blasting	S. No.	Particular	Unit	Details
	1	Dia of Hole	mm	115
	2	Burden	Mtr.	3.0
	3	Spacing	Mtr.	3.5
	4	Depth of the Hole	Mtr.	7
	5	Powder Factor	Kg/t	7
	6	Slurry Explosives		Aluminium Gelled Slurry Explosives
RoM output size	The crusher of adjacent mine ML-I is being/will be used. The ROM output size of the same is 65-75 mm			
Life of mine	As per the reserves on 01.09.2021, the life of			

	mine is 26 years and life of the mine from the date of execution of the lease i.e. 27.04.2007 is 40 years.
Transportation details	The Limestone mined out from this Mine is transported into the dumper of capacity 50 tons via Haul road to the crusher of 2000 TPH which has been installed in the adjacent mine ML-II for crushing. The crushed limestone from crushers directly dispatched to its existing cement plant (~3.0 Km in SW direction from ML-I) via overland belt conveyor of length ~3.5 Km.
Dumpers capacity	50 Tonnes

6. Nearest village / town/ highway/railway station / water bodies

Particulars	Particular's Name	Distance and Directions
Nearest village	Habitation of Rupasar Habitation of Kherwad	Within lease area ~ 250 m in NNE direction
Nearest Town / City	Mundwa Town	~4 km in SW direction
Nearest State/National Highway	➤ NH-58 ➤ SH-19 ➤ SH-39	~3.5km in West direction ~3.0 km in North direction ~5.5km in SW direction
Nearest Railway Station	MarwarMundwa Railway Station	~5.5 Km in SW direction
Nearest water bodies	A nallah (dry/seasonal) originate in the NNE part of the lease and merges with a pond which is inside the lease boundary.	
	PunadhiNadi	~2.5 Km in NNW
	PinsariyaNadi	~8.5 km in NE
	Alolapnadi	~8.5 Km in ENE
	KiyarNadi	~9.5 Km in SSW
	DendaNadi	~9.5 Km in SSE

7. Water requirement:

Total water requirement	55 KLD	Fresh water	55.0 KLD (Treated water from MatasukhLignite Mines)
		Treated Water	NIL

Source	Matasukh Lignite Mines of RSMM Ltd. after treatment. It is having a pipeline of 36 Km.
Permission	The agreement has been made between M/s. Ambuja Cements Limited and M/s. Rajasthan State Mines and Minerals Limited on 06.02.2019

8. Presence of Environmentally Sensitive areas in the study area

Forest Land / Protected Area / Environmental Sensitivity Zone	Yes/No	Details of Certificate/letter/Remarks
Forest Land	No	NA
National Park	No	
Wildlife Sanctuary & Forest	No	
Eco Sensitive Zone (ESZ)	No	

9. Status of CTE/CTO:

- **CTE** for 0.5 million TPA Limestone Production Capacity in favor of M/s. Ambuja Cements Limited vide letter no. F(Mines)/Nagaur (Nagaur)/4072(1)/2019-2020/3807-3811 dated 17/01/2020
- **CTO** for 0.5 million TPA Limestone Production Capacity in favor of M/s. Ambuja Cements Limited vide letter no. F(Mines)/Nagaur (Nagaur)/4072(1)/2019-2020/2832-2836 dated 15/09/2020 and valid upto 31/08/2025.

10. Green belt/plantation details:

Proposed area for green belt/plantation	63.70 ha
Budget for green plant & plantation till the end of life of mine.	555.51 Lacs

Particulars for Green belt/plantation	Area covered (in Ha)
7.5 m barrier & non-mineralized zone	Total area for greenbelt development is 11.0 ha which will be covered under greenbelt along 7.5m lease periphery. 40 ha Area to be covered under plantation on unworked (virgin) area, out of which 12.09 ha. Area to be covered on the safety barrier along the roads.
50 m safety zone of nallah, roads, electric lines	12.09 ha Area to be covered on the safety barrier along the roads.
Plantation on the backfilled area	Total 63.7 Ha will be covered under greenbelt/plantation including 12.7 Ha area under plantation on the backfilled

	area.
Mitigation measures to prevent Environmental Pollution	<p>Mitigation measures to prevent Air Pollution: Drilling machines (30 Mt/Hr) is being/will be equipped with both Water injection and dust collector system (DCT) to suppress dust generation at source. Fugitive dust emissions from all sources will be controlled regularly, Water spraying on haul roads, loading, unloading and transfer points shall be provided and maintained. In order to reduce air pollution in the surrounding, 11 Ha area will be covered under Green Belt around 7.5 m lease periphery within two year. Ambient Air Quality Monitoring Stations is being done at 4 locations.</p> <p>Mitigative measures to prevent Water Pollution: Garland drain having siltation pits will be provided at the toe of the dumps, to channelize the runoff water from dumps into the water reservoir (i.e. mined out pits). To control the surface run-offs, Retaining Wall around waste dump will be constructed.</p> <p>Mitigative measures to prevent Noise Pollution: Drilling is being/will be carried out with the help of sharp drill bits which will help in reducing noise. Secondary blasting is being/will be totally avoided and Hydraulic rock breaker will be used for breaking boulders. Adequate silencers with AC cabins is being/will be provided in Heavy Earth Moving Machines.</p>

11. Court case details:

Court Case	No court case is pending against the project.
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12. Affidavit/Undertaking details:

Affidavit	Affidavit dated 05.04.2022 in compliance of Ministry's OM no. 3-50/2017-IA.III (Pt.) dated 30 May 2018 has been submitted.
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13. Previous EC compliance and production details:

Particulars	Letter no. and date
Certified EC compliance report	Latest certified compliance report has submitted by the project proponent duly certified by IRO, Jaipur vide letter no. IV/ENV/R/MINE-414/636/2008 dated 03 rd March 2022

Certified past production	The authenticated production figures were obtained from Office of the Mining Engineer, Department of Mines and Geology, Nagaur vide letter no. Kh/Nagaur/ML No-3/1994/2022/2580 dated 05.04.2022.
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14. Details of project cost and employment:

Particulars	Details
Project Cost	Rs. 23.69 Crores (This the project cost for expansion)
Employment	24 persons

15. Observation and Recommendation of the Committee:

The proposal for Terms of Reference was considered in the 50th EAC meeting held during 12th to 13th May 2022. After the detailed presentation made by the project proponent and the consultant, the Committee observed that the project proponent is seeking expansion from 0.5 MTPA to 2.0 MTPA with total excavation of 2.74 MTPA. However, the EC compliance to earlier Environmental Clearance dated 18th January, 2007 and 28th March, 2017 is not properly visible through KML and the action now is being initiated by the project proponent. The committee noted that the videography of mine lease area through drone is required. The area is also not fully explored and there is a possibility of increase in mineral availability after the G1 exploration. Also, it appears that the EMP which is in place has also not been fully tested and the project proponent did not submit the efficacy of EMP during the operation of the mine with 40,000 tonnes/month of production. Since the expansion is four times, the project proponent is advised to show the compliance in terms of plantation, efficacy of EMP etc. and settle the issues related to Rehabilitation & Resettlement before the appraisal of the proposal for Terms of Reference. The Committee also noted that since the project proponent is using mineral in the ore, the project proponent shall explore the option of diverting the road with proper cost benefit analysis as mentioned by the Committee experts. The air quality at the downwind of the village needs to be monitored while the mine was in operation at its full capacity as per the earlier EC granted. The data on noise and vibration for the current operation and the impact on the nearby village should also be studied. Area for the pond and the garland drain also needs to be clearly delineated and the EMP for the same needs to be illustrated separately. Also, the project proponent needs to submit the details of mine lease documents in chronological order along with the copy of all the valid mine lease documents. The reply to above observations of the committee needs to be uploaded on Parivesh portal. Therefore, the Committee **deferred** the proposal.

1.4 Amendment in Terms of Reference dated 29.01.2021 of Existing captive Mine (Area: 471.03 ha.) for Production Capacity 7.72 Million TPA (Limestone

&Shale) and waste / topsoil 5.0 Lakhs CuM per annum (Maximum) with existing three nos. of Crushers with capacity of 850 TPH, 1000 & 1200 TPH located at Villages Ingalgi&Ravoor, Taluka Chittapur, District Kalaburagi, Karnataka of M/s ACC Limited –[File No. IA-J-11015/153/2018-IA-II(M); Proposal No. IA/KA/MIN/267872/2022] - Amendment inToR

The proposal is for Amendment in Terms of Reference dated 29.01.2021 of Existing captive Mine in the mine lease area of 471.03 ha of M/s ACC Limited. The Production Capacity is 7.72 Million TPA (Limestone) and waste / topsoil 5.0 Lakhs CuM per annum (Maximum) with existing three nos. of Crushers with capacity of 850 TPH, 1000 & 1200 TPH. The mine site is located near Villages Ingalgi&Ravoor, Taluka Chittapur, District Kalaburagi, Karnataka.

1. Project details:

Location	Latitudes	17° 03' 25.95718" N to 17° 04' 54.27953" N
	Longitudes	76° 57' 36.56397" E to 76° 59' 31.53570" E
	SOI Topo sheet No.	Core Zone - 56C/16 Buffer Zone - 56C/16 56-G/4, 56-H/1 and 56-D/13
Accredited Consultant and certificate no.	J.M. EnviroNet Pvt. Ltd. Accredited EIA Consultant by NABET (QCI) Certificate No: NABET/EIA/2023/RA 0186, dated 17.12.2020 & valid up to 07.02.2023	
KML file	Submitted	
Seismic zone	Seismic Zone – II as per IS: 1893	

2. Category details:

Category of the project	Category "A", Project or Activity 1(a)(3) for Mining of Mineral
Provisions	EIA Notification dated 14 th September, 2006
Mining lease Area	471.03 ha (Private land)

3. Terms of Reference details:

ToR Proposal No.	IA/KA/MIN/231497/2021
Online application date for Form-I	27.09.2021
Documents Submitted	Covering Letter, Authorization, Brief Summary, KML, SOI Toposheet, Pre-Feasibility Report, etc.
EAC meeting date	12.05.2021

Minutes of 50th EAC Meeting (Non-Coal mining) held during 12th and 13th May, 2022

ToR Letter No.	J-1105/153/2018-IA-II(M)
ToR grant Date	29.01.2021
Production capacity	7.72 Million TPA
Soil	Waste/Top Soil: 0.8 million TPA
Waste	
Total Excavation	8.52 Million TPA
Crusher	3 Nos. Existing at Mining Lease (1 x 850 TPH, 1 x 1000TPH and 1 x 1200 TPH)
Previous EC details	J-11015/7/2000-IA.II (M) on 07.09.2000 under the EIA notification 1994
Date of earlier EAC meetings	39 th EAC Meeting on 11.10.2021
Reason of Amendment	a). Inclusion of shale in granted ToRletter dated 29.01.2021. b). Not to consider the project under violation c). Exemption of public hearing as per MoEF& CC OM No. 22-4/2020 –IA.III dated 16.02.2021

4. Lease Details:

Granted Prospecting License	Area	The mining lease was issued in 1963.					
	Execution date	During that period mining lease was granted directly. Hence not applicable.					
	PL No.						
Validity of mine lease	31.03.2030						
Letter of Intent	Letter No.	Already granted ML No. 2641					
	Date	(471.03Ha)					
Additional information	S. No	Mineral	ML No.	Date of Grant	For Period	Ending with	Remarks
	1.	Limestone	1963	19.02.1963	20 Years	18.02.1983	Date of entering into Original Lease Deed
	2.	Clay	802	03.06.1968	20 Years	18.02.1983	
	3.	Limestone & Clay	1853	02.12.1982	20 Years	18.02.2003	1st Renewal
	4.	Shale	1949	19.07.1984	20 Years	18.02.2003	-
	5.	Limestone,	2641	28.06.2010	20	18.02.2023	Date of

	Shale & Clay		Years		Renewal-28.06.2010
	As per Section 8A (5) of MMDR (Amendment) 2015, 6. Lease period of Mining leases used for captive purpose has been extended upto 31.03.2030.				

5. Status of CTE/CTO:

- CTE has been obtained from KSPCB vide letter no KSPCB/ACC/CFE/DEO-6/99-2000/9051 dated 17.02.2000
- CTO has been obtained from KSPCB vide order no AW-326755 dated 14.09.2021 (Valid upto 18.02.2023)

6. Green belt/plantation details:

Proposed area for green belt/plantation	Plantation on Back Filled Area – 50 ha, Green belt area – 30 ha, Plantation on OB dump – 4 ha, Re-grassification on excavated area – 160 ha
Budget for green plan & plantation till the end of life of mine	Rs.56,17,938/- (Rs.9,36,323/- per year until Yr 2026)
Particulars for Green belt/plantation	Area covered (in Ha)
7.5 m barrier & non-mineralized zone	12 Ha
50 m safety zone of nallah, roads, electric lines	Road & Electric line – approx. 4 Ha
500 m safety zones of nearest habitation villages	Not Applicable as there are no nearest habitation villages near to the mine

7. Court case details

Court Case	Name of the court	Writ Petition is pending before the High Court at Bangalore.
	Case No.	11957/2009 (GM-MM-S) Year 2009
	Orders / directions of the court, if any and its relevance with the proposed project	By order dated 24.04.2009, the demand is stayed and continues as on date. The company has complied with the conditions of stay order and deposited the amount and furnished a valid Bank Guarantee."

8. Details of project cost and employment:

Particulars	Details
Total Cost for EMP	Rs. 162 lakhs /-
Recurring Cost for EMP	Rs. 20 lakhs /-
Project Cost	Rs. 352.2 Crores /-
Employment	112 persons

9. Observation and Recommendation of the Committee:

The proposal for Amendment in Terms of Reference was considered in the 50th EAC meeting held during 12th to 13th May 2022. After detailed deliberations made by the Project Proponent and the Consultant, the Committee observed that the Terms of Reference was granted on 29.01.2021 for regularization of earlier Environmental Clearance in compliance to Ministry's Notification S.O. 1530 (E) dated 6th April 2018. The Terms of Reference was granted under violation since the project proponent mined out Limestone and Shale from 1993 to 2018. However, the Environmental Clearance granted on 07.09.2000 was only for Limestone mineral. The Committee noted that the project proponent has not complied with the earlier EC conditions particularly with respect to the plantation. The Committee was of the following opinion:

S. No.	Request by project proponent for amendment in ToR dated 29.01.2021	Deliberation of EAC during 50 th EAC	Recommendation of EAC during 50 th EAC
1	Inclusion of shale in granted ToR letter dated 29.01.2021 i.e. Production	The Committee recommended the request of project	Production capacity of 7.72 MTPA (Limestone & Shale)

	capacity of 7.72 MTPA (Limestone & Shale) and waste / topsoil 5.0 Lakhs CuM per annum (Maximum)	proponent for amendment as proposed.	and waste / topsoil 5.0 Lakhs CuM per annum (Maximum)
2	The Terms of Reference was accorded under Notification S.O.1530 (E) dated 6th April 2018. The project proponent had requested not to consider the proposal under violation.	The Committee did not accept the request of project proponent for amendment as proposed.	
3	The project proponent had requested for exemption of public hearing as per MoEF& CC OM No. 22-4/2020 –IA.III dated 16.02.2021	The Committee did not accept the request of project proponent for amendment as proposed.	

Therefore, the Committee **recommended** the proposal for amendment in ToR dated 29.01.2021 as mentioned in the above table (only sr.no.1) for existing captive Mine (Area: 471.03 ha.) for Production Capacity 7.72 Million TPA (Limestone & Shale) and waste / topsoil 5.0 Lakhs CuM per annum (Maximum) with existing three nos. of Crushers with capacity of 850 TPH, 1000 & 1200 TPH located near Villages Ingalgi&Ravoor, Taluka Chittapur, District Kalaburagi, Karnataka. All other terms and conditions of TOR letter dated 29.01.2021 shall remain unchanged. Further, the Committee advised the project proponent, to incorporate the followings points in the EIA/EMP report:

- 1) The project proponent needs to submit the data on (a) plantation completed and (b) plantation in progress with survival percentage and plan for gap plantation.
- 2) The project proponent needs to submit the efficacy of EMP for the designated capacity
- 3) The project proponent needs to carry out the monitoring of baseline data for three months. Data should not be older than three years.
- 4) The project proponent needs to prepare a separate EMP budget for PH concerns delineating capital investment in three years along with recurring expenses. Augmentation plan requires EMP budget and the augmentation required with change in baseline scenario needs to be prepared afresh.
- 5) Any issues related to R&R as addressed in Environmental Clearance dated 07.09.2000 should be complied fully.
- 6) Latest certified compliance report needs to be submitted before the appraisal of the proposal for EC.

1.5 Sindwari, Ramakhera, Satkhanda Block-B (Auctioned Block) over an area of 474.50 ha with production capacity of 3 Million TPA ROM (Limestone: 1.80 MTPA, Soil: 0.076 MTPA, OB: 1.124 MTPA) along with crusher capacity of 500 TPH located in Villages: Ravliya, Bhavliya, Bhopali, Cherliya, Mangrol and Sindwari, Tehsil: Nimbahera, District: Chittaurgarh, Rajasthan of M/s Dalmia Cement (Bharat) Limited (DCBL) – [File No: J-11015/38/2018-IA-II(NCM); Proposal No: IA/RJ/MIN/73471/2018] – Reconsideration of Environmental Clearance

The proposal is for Environmental Clearance of Sindwari, Ramakhera, Satkhanda Block-B (Auctioned Block) over an area of 474.50 ha of M/s Dalmia Cement (Bharat) Limited (DCBL). The production capacity is 3 Million TPA ROM (Limestone: 1.80 MTPA, Soil: 0.076 MTPA, OB: 1.124 MTPA) along with crusher capacity of 500 TPH. The mine lease area is located in Villages Ravliya, Bhavliya, Bhopali, Cherliya, Mangrol and Sindwari, Tehsil Nimbahera, District Chittaurgarh, Rajasthan.

1. Project details:

Location	Latitudes	24°42'28.4513" N to 24°43'28.0121" N;
	Longitudes	74°37'20.04389"E to 74°38'52.59332"E
	SoI Topo sheet No.	Core zone: G43U10 (45L/10) Buffer Zone: G43U9 (45L/9)&G43U10 (45L/10)
Accredited Consultant Organisation and its certificate no.	Enkay Enviro Services Pvt. Ltd., Jaipur Accredited EIA Consultant by NABET (QCI) Certificate No: NABET/EIA/2023/RA 0183, valid up to 12.12.2023	
KML file	Submitted	
Seismic zone	II	

2. Category details:

Category of the project	Category "A", Project or Activity 1(a) – 3 for Mining of Mineral
Provisions	As per EIA Notification S.O. 1533 (E), dated 14 th September 2006 and subsequent amendments
Mining lease Area	474.50 Ha

3. Terms of Reference details:

ToR Proposal No.	IA/RJ/MIN/73471/2018
Online application date for Form-I	5 th April, 2018

EAC meeting for ToR	15 th May, 2018
ToR Letter No.	J-11015/38/2018-IA-II(M)
ToR grant Date	6 th June, 2018
Production capacity (TPA)	Limestone: 1.8 Million TPA
Soil	0.076 Million TPA
Waste	OB - 1.124 Million TPA
Total Excavation	3.0 Million TPA
Crusher	One crusher (500 TPH)
EIA/EMP uploaded on	21 st December, 2021

4. Lease Details:

Letter of Intent	The proposed mine “Sindwari, Ramakhera, Satkhanda Block- B” was e-auctioned by Government of Rajasthan and DCBL was declared as the “Preferred Bidder” for grant of this mining lease	
	Letter No.	P. 5(2) Khan/ Group – 2/ 2017
	Date	29 th August, 2017
Extension of LOI	Mines & Petroleum Department, Govt. of Rajasthan has granted extension of LOI validity vide letter dated 19.10.2020 and dated 03.11.2021. Presently is valid till 28.08.2022.	

5. Mining plan details:

Mining Plan (approved by Indian Bureau of Mines/DMG)	Letter No.	584(4)(3)(1754)/ 2018–RCM-Ajmer/ 1382	
	Date	26.09.2018	
	Validity	5 years from date of mine lease execution & registration. Lease will be executed after grant of EC.	
Mining Parameters	Quantitative Description		
Bench Height	10 m		
Bench Width	12-16 m		
Method of Mining	Opencast fully mechanized		
Individual bench slope	75 ⁰		
Overall pit slope	40 ⁰		
Drilling/Blasting	Yes		
	Blasting Parameter	:	Details
	Height of Bench	:	10m
	Sub-Drilling	:	0.5m

	Depth of Blast Hole	:	10.5m
	Burden	:	3.5m
	Spacing	:	4.0m
	Hole Diameter	:	150mm
	Diameter of the Cartridge	:	120mm
	Yield per Hole (Loosening of rock mass per hole)	:	140 m ³ or 350 Tonnes
	Powder Factor projected.	:	7 Kgs/ Tonnes
	Blasting pattern, manner and sequence of firing	:	'V' pattern Sequential blasting by using electric delay detonators or NONEL system,
RoM output size	50 to 75 mm sizes		
Life of mine	11 Years		
Transportation details	It is a non-captive mine. Part of crushed limestone will be transported to the cement plant of the subsidiary company (RPPL) of DCBL and part of the limestone along with other waste materials produced may also be sold to other cement plants & end use industries by road transport. NH 56 is passing through the lease and will be used for transportation.		
Dumpers capacity	25 tonnes of dumpers for transportation of excavated limestone/waste within mine block and 35 tonnes for transportation of crushed limestone to end-use industries.		

6. Land Area Breakup:

Private land	411.6 Ha
Government land	Govt. Land/Abadi – 29.14 Ha & Charagah/ Pasture Land:- 33.76 Ha
Total Mining lease area	474.50 Ha
Additional information	Charagah land will be transferred to the company for mining activities after providing equivalent land along with prescribed cost for raising gowcher- bhoomi as per the notification of State Govt. vide Department of Revenue Notification No.F10(3)Revenue-6/2001/19

	dated 31.05.2017. Equivalent alternative land has been identified and company has entered into ATS with the owners of the land. Company has submitted an application to Govt. of Rajasthan for exception on land ceiling which is under process.
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7. Nearest village / town/ highway/railway station / water bodies:

Particulars	Particular's Name	Distance & Directions	Remarks
Nearest Village	Ravliya (Entire habitation)	Within lease area towards NE	Habitation will not be disturbed during life of mine. Adequate safety barrier has been considered from habitation
	Bhavliya (A Part of Habitation)	Within lease area towards E	
Nearest Town & City	Nearest Town- Nimbahera	9.0 Km, SSE	--
	Nearest City- Chittorgarh	15.0 Km, N	--
Nearest Highway	NH- 56 (Earlier known as NH-79)	Passing through the lease area	NH will not be disturbed/diverted. 50 m safety barrier will be left from NH towards mining. Crushed mineral will be transported by NH to end use industries.
Nearest Railway Station	Mangrol Railway Station	2.40 Km, SE	--
Water Bodies	SatkhandaNadi	0.35 Km, N	--
	MurliyaReservoir	0.23Km, S	
	Gambhiri River	5.80 Km, E	
	GambhiriDam	6.50 Km, ESE	

8. Water requirement

Total water requirement	83.0 KLD	Fresh water	74.3 KLD
		Treated water	8.7 KLD

Source	Water demand will be met from ground water and after development of the mine pit; DCBL will augment the mine pit rain water for meeting the requirements except domestic water requirement.
Permission	Permission for abstraction of ground water has been obtained from CGWA, Department of Water Resources, Govt. of India vide NOC no. CGWA/NOC/MIN/ORIG/2021/13708 dated 12.11.2021.

9. Presence of Environmentally Sensitive areas in the study area

Forest Land/Protected Area/Environmental Sensitivity Zone	Yes/No	Details of Certificate/letter/Remarks
Forest Land	No	No National Park, Wildlife Sanctuary or Reserve of Special Zone etc. fall within 10Km radius of the lease area. There is no forest land within the lease area. The same has been authenticated from Office of DCF, Chittaurgarh vide letter dated 22.09.2021.
National Park	No	
Wildlife Sanctuary	No	

Schedule-1 species	Yes/No	Details of Certificate/letter/Remarks
Schedule-I species	Yes	There are six Schedule -I species found/reported which are as follows: - (a.) Pavocristatus (Indian Peafowl), (b.) Pantherapardusfusca (Indian Leopard), (c.) Prionailurusrubiginosus (Rusty-Spotted Cat), (d.) Canis lupus pallipes (Indian Wolf), (e.) Varanusbengalensis (Indian Monitor Lizard) & (f.) Gyps indicus/Gyps bengalensis (Indian Vulture)
Wildlife Conservation Plan	Yes	Wild Life Conservation Plan is approved by Principal Conservator of Forest & CWLW, Rajasthan vide letter dated 10th March 2022. Rs. 2.67 crores have been allocated for various conservation and mitigative activities out of which Rs. 53.5 Lacs have been deposited to Govt. of Rajasthan, in the account of Rajasthan Protected Areas Conservation Society (RPACS), for implementation of WLCP, in compliance of the demand raised by Govt. of Rajasthan.

10. Green belt/plantation details:

Proposed area for green belt/plantation	103.953 ha with 259,883 no. of trees (Safety zone along Lease boundary-6.6 ha; Safety barrier along nallah, road & canal-50.01 ha; Back filled area-5 ha; upper most 2 benches of excavated pits-24.29 ha and plantation on Infrastructure area at the end of life of mine-18.053 ha)
Budget for green plant & plantation till the end of life of mine.	Rs. 520 Lakhs
Budget for nursery	Rs. 10 lakhs

Particulars for Green belt/plantation	Area covered (in Ha)
7.5 m barrier & non-mineralized zone	6.6
50 m safety zone of nallah, roads, electric lines	50.01 (in safety barrier along road, nallahs, canal and around mine office)
500 m safety zones of nearest habitation villages	Covered under 50.01 ha as mentioned above
Plantation on backfilled area	Plantation will also be done on backfilled area (5 ha), on upper most 2 benches of excavated pits (24.29 ha) and on Infrastructure area at the end of life of mine (18.053 ha).

11. Baseline Details:

Baseline Data (Air / Water / Noise / Soil / Ground water table/ others)		
Period of baseline data collection	October to December, 2018	
Season (Summer / Pre-monsoon / Post-monsoon / Winter)	Post Monsoon Season	
Data collection by approved Laboratory	Baseline data generation was carried out by NABL approved laboratory M/s SCS Enviro Services Pvt. Ltd., Jaipur (Rajasthan)	
Pre-dominant wind direction	North-East to South-West and North to South during post monsoon season	
Air quality monitoring	PM ₁₀	44.0 - 65.3 µg/m ³
	PM _{2.5}	25.7 - 40.1 µg/m ³
	SO _x	6.0 - 9.4 µg/m ³
	NO _x	6.0 - 10.5 µg/m ³
Surface water quality monitoring	pH	7.43 – 7.88
	DO	4.7 - 5.2 mg/l
	BOD	2.0– 3.5 mg/l
	COD	9.0–13.0 mg/l

Ground water quality monitoring	pH	6.69-7.19
	TDS	436– 1114 mg/l
	Total Hardness	276Mg/l - 484 mg/ l
	Total Alkalinity	240 – 544 mg/l
	Calcium	92.80 – 153.60 mg/ l
	Sulphate	48.75 - 234.26 mg/l
Noise monitoring	Day time	47.9-52.1 dB(A)
	Night time	40.7 – 42.2 dB(A)
Soil quality monitoring	pH	7.25 - 7.81
	Nitrogen	35 - 70Mg/100 gram
	Phosphorus	13.70– 105.16Mg/100 gram
	Potassium	0.6 - 24Mg/100 gram

12. Public Hearing Details:

Advertisement for PH with date	Indian Express, RajasthanPatrika&DanikBhaskar, Chittorgarh Advertisement date: 24.01.2020
Date of PH	Public Hearing was scheduled to be conducted on 16.09.2019 as per the EIA Notification 14th September' 2006 but it was cancelled by District Collector, Chittaurgarh because of exigency. Later, it was rescheduled and conducted on 27.02.2020
Venue	Community Building, Village: Cherliya: Gadia, Tehsil:Nimbahera, District:Chittaurgarh
Chaired by	Shri Mukesh Kumar Kalal, Additional District Collector, Chittaurgarh and Mr. Sharad Saxena, Regional Officer, Rajasthan State Pollution Control Board, Chittaurgarh
Main issues raised during PH	LandCompensation,Infrastructuredevelopment,Employment,Educationfacilities,Ground waterDevelopment,Medicalfacilities,Environment alpollution etc.
Budget proposed for addressing issues raised during PH	Rs. 472 Lakh.
Additional information	Also, Rs. 2.72 crore is earmarked as soft loan for PAFs for development of start-ups which is covered in R&R budget.

13. Court case details:

Court Case	No court case/litigation is pending against the project.
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14. Rehabilitation and Resettlement:

R & R details	<p>Habitation of two Villages i.e., Ravaliya (entire habitation) and Bhavaliya (a part of habitation) are within the lease area. NH 56 is passing through the lease and both villages are at eastern side of NH. There will be no resettlement of the villages as the entire working will be restricted till the safety distance from NH-56 on its Western side which otherwise will also be acting as a natural barrier between the working of mine and habitation of both the villages. Opposite side/eastern side of NH-56 including NH itself, is not proposed to be disturbed.</p> <p>However, there is encroachment on chargah land. Resettlement of the same has been considered in R&R budget. For charagah land, as per the Govt. of Rajasthan, Revenue (Group- 6) Notification No. F10 (3) Revenue-6/2001/19 dated 31.05.2017– The development charges for, the year 2017 shall be rupees fifty thousand per bigha or part thereof and for subsequent year it shall be increased by five percent every year”. As per the rules of State Government vide Department of Revenue, Equivalent alternative land has been identified for Charagah land and company has entered into ATS with the owners of the land. Company has submitted an application to Govt. of Rajasthan for exception on land ceiling which is under process.</p> <p>It is proposed to purchase the private agriculture land with mutual agreement in line of the RFCTARR Act 2013 (Right to Fair Compensation, Transparency in land Acquisition and Rehabilitation & Resettlement) and Gazette Notification released by Revenue (Group-6) Department, Govt. of Rajasthan vide notification no P.1(3)RAJ.6 /2011 /PART/26 dated 14.06.2016. There will be a mutual consent between the PP and PAF's/ PAP's on the budget negotiation.</p> <p>Estimated budget towards land purchase is Rs. 150 cr.</p>
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15. Affidavit/Undertaking details:

PP submitted an undertaking dated 17.12.2021	The instructions as per MoEF&CC O.M. No. J-11013/41/2006-IA. II (I) dated 04.08.2009 has been followed during the preparation of this EIA/EMP
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	Report.
Consultant submitted an Undertaking dated 21.12.2021	The Consultant submitted an undertaking to the effect that the data and the information provided are to the best of consultant's knowledge.

16. ADS details: Earlier, the proposal was considered in 45th EAC Meeting for Environment Clearance held on 24.01.2022. EAC deferred the proposal and additional information was sought to submit vide ADS raised on 07th Feb., 2022. The reply is as follows:

S. No.	ADS Point	Reply
1	The project proponent needs to submit the impact of vibrations from the mine on the Highway traffic and vice versa. The project proponent needs to carry out the Vibration study and submit the impacts of vibration during blasting and excavation on the Highway	The study has been carried out by Department of Mining Engineering, Anna University during March 2022 to address the same. Recommendation of study will be implemented during operation. The detailed report has been submitted.
2	The dam is about 6.5 km and the reservoir is 250 m away from the mine site. The project proponent needs to submit the impact of mining, particulate emissions, deposition of particles in the water bodies, and any change in the water quality likely to occur due to mining activities as well as transportation of the material.	The following conclusions are drawn from the detailed investigation of the site: 1. The controlled blasting can be carried out in the Satkhanda B Block mining lease area which limit the blast induced ground vibrations (PPV) to less than 2 mm/s to ensure the safety of the National Highway, Reservoir, and Dam and other habitations located in the shortest distance from the mine. 2. Keeping the above in view, it is concluded that the maximum explosive charge per delay be restricted to a maximum specified in Table 11.2 to limit the ground vibrations reaching the structures to 2 mm/s. 3. The predictions of the numerical modelling and computational modelling study also showed that the PPV is within 2 mm/s. 4. The results of Artificial neural network

		(ANN) modelling that establishes the complexity of relationship among the inputs and outputs with a greater degree of accuracy with R2 of 0.832. Hence, this technique proves to be easier and economical.
3	The Wildlife Conservation Plan needs to be revised as per the suggestions given by the experts during the presentation and the project proponent needs to submit the revised approved wildlife conservation plan needs to submit.	Wild Life Conservation Plan was approved by Principal Conservator of Forest & CWLW, Rajasthan vide letter dated 10 th March 2022 and further clarified vide letter dated 15 th March 2022. Approved WLCP has been submitted with the ADS reply. It is submitted that, Rs. 53.5 Lacs of the estimated budget i.e. Rs. 267 lacs have been deposited to Rajasthan Protected Areas Conservation Society (RPACS), Govt. of Rajasthan for implementation of WLCP, as per the demand raised by Govt. of Rajasthan.
4	The EMP cost needs to be revised by deleting the cost of monitoring and the EMP cost should address only the cost of prevention and control of emission including the noise and vibration and submit accordingly	EMP has been revised and budget earmarked for all monitoring activities has been excluded. Now Capital Cost for EMP is Rs. 9.64 Cr. and Recurring cost is Rs. 0.635 Cr. Capital cost for Post Project Environmental Monitoring is Rs. 93 Lacs and recurring cost is Rs. 15.5 Lacs.
5	The project proponent needs to submit the detailed note on transportation currently in practice both on the highway and the underpass and the scenario after the mine starts working, impacts if any, on the traffic as well as movement of people residing on the either side of the Highway.	Annual limestone production capacity of proposed mine is 1800000 Tons and daily limestone production capacity will be 6000 Tons. For transportation of 6,000 TPD limestone, 172 trips of 35 tonnes capacity will be required per day. For transportation of crushed limestone from the proposed mine to the end use plants, it is proposed to use about 200 m

	<p>of MDR road connecting underpass and thereafter will use NH-56.</p> <p>As per the study, proposed V/C ratio including traffic load of proposed mining activity, at NH-56 is 0.11 'Excellent' and proposed V/C ratio at MDR 210 is 0.25 'Very Good'.</p> <p>It can be concluded that the present road networks (NH as well as MDR road connecting underpass) are good enough to bear the incremental traffic load</p> <p>A Detailed Note has been submitted with the detailed ADS reply.</p>
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17. Details of the EMP:

Sr. No.	Activities	Capital Cost (Lakhs)	Recurring Cost (Lakhs)
A.	Air Quality Management		
1	Permanent water sprinkling arrangements for main haulage road	10	2
2	One tankers (16 KL) mounted water sprinkling system	20	7
3	Bag filter for crusher, Mist fog system and construction of wind breaking wall for crusher hopper	15	1
SUB-TOTAL		45	10
B.	Greenbelt development/plantation		
1	Greenbelt in 7.5 m statutory boundary on 15.75 ha area (39,375 Saplings) considered as capital cost	79	40
	Plantation in safety barrier, on backfilled area & on upper most 2 benches of pits covering ~88.203 ha area with 2,20,508 saplings [Total cost = Rs. 4.41 Crore]-Average as recurring cost		
SUB-TOTAL		79	40
C.	Water Quality Management		
1	Construction of garland drain and retaining wall and sedimentation pits to channelized the surface	52	5

	runoff.		
2	Installation of STP and waste water quality monitoring	8	2
SUB-TOTAL		60	7
D.	Measures to control vibration Trench (6 m in width and 8 in depth) to be created to reduce the ground vibration in the National highway and reservoir direction i.e. towards the south and eastern direction.	40	5
E.	Environmental Awareness Program	1	1.5
F.	Action plan for addressing the issues raised during the public hearing with budgetary provision	472 (within 3 years)	
G.	Wild Life Conservation Plan as per In-Principal approval of PCCF&CWLW	267	
GRAND TOTAL		964	63.5

18. Details of project cost and employment:

Particulars	(Rs. In Crore)
Capital Cost for Environment Protection	2.25
Budget for addressing the Public Hearing issues	4.72
Budget for Wild Life Conservation Plan as per In-principle approval of PCCF&CWLW	2.67
Total Cost for EMP	9.64
Recurring Cost for EMP	0.635
Project Cost	243
Employment	46 persons

19. Observation and Recommendation of the Committee:

The proposal for Environmental Clearance was considered in the 50th EAC meeting held during 12th to 13th May 2022. After detailed deliberations made by the Project Proponent and the Consultant, the Committee **recommended** the proposal for Environmental Clearance of Sindwari, Ramakhera, Satkhanda Block-B (Auctioned Block) over an area of 474.50 ha with production capacity of 3 Million TPA ROM (Limestone: 1.80 MTPA, Soil: 0.076 MTPA, OB: 1.124 MTPA) along with crusher capacity of 500 TPH located in Villages: Ravliya, Bhavliya, Bhopali, Cherliya, Mangrol and Sindwari, Tehsil: Nimbahera, District: Chittaurgarh, Rajasthan of M/s Dalmia

Cement (Bharat) Limited (DCBL) subject to the following specific conditions in addition to the standard conditions of non-coal mining projects:

- 1) Continuous air quality monitoring shall be done in the impact zone in the downwind direction within 200 m from the core zone. Other three monitoring stations proposed, two in the downwind direction and one as a reference within 500 m of the core zone.
- 2) As committed through the report submitted by the project proponent that the controlled blasting to be carried out with a proper blast design so as to limit the noise pollution as well as keep blast induced ground vibrations (PPV) should be less than 2 mm/son the highway and other structures.
- 3) Adequate buffer zone (minimum 50 m preferably more than that) shall be kept between the mine and highway as well as the water body passing through the mine lease area.
- 4) Transport of material will be restricted between 6 am and 6 pm or day light hours, as the season may be and shall not exceed the time limit.
- 5) The project proponent had committed that it has marked 2.72 Crore as soft loan for project affected people for development of startups as a part of R&R budget. A progress report shall be submitted in every 6 months to the Ministry.
- 6) The project proponent shall monitor water quality with specific reference to Langelier Saturation Index to assess the impact of calcium carbonate on water quality.
- 7) The project proponent had committed that Greenbelt in 7.5 m statutory boundary will be on 15.75 ha area (39,375 Saplings) and Plantation in safety barrier, on backfilled area & on upper most 2 benches of pits will be covering ~88.203 ha area with 2,20,508 saplings. As committed, the project proponent shall start immediately and a progress report on plantation with survival rate shall be submitted every year to the Ministry.
- 8) The monitoring of noise and vibration shall be conducted at the edge of the mine lease and the progress report must be submitted to the Ministry in every 6 months.

- 9) The fugitive dust emission through personal dust monitoring shall be conducted and the data must be submitted to the Ministry in every 6 months to the Ministry.
- 10) The Project Proponent should periodically monitor and maintain the health records of the mine workers digitally prior to mining operations, at the time of operation of mine and post mining operations. Regular surveillance on Silicosis shall be carried through regular occupational health check-up every year for mine workers.

1.6 Expansion in Environmental Clearance in RAS-I Limestone mine in the mine lease area of 183.53 ha (ML No. 10/94) with increase in Limestone production capacity from 0.279 MTPA to 2.80 MTPA and sizing of the material using crusher and the wobbler of 1200 TPH located at Villages Sewariya, Bhaktawarpura, Dhaneriya, and Kotadiya, Tehsil Jaitaran, District Pali, Rajasthan of M/s Ambuja Cements Limited [Proposal no: IA/RJ/MIN/98212/2017; File No. J-11015/82/2017-IA.II (M)] –Reconsideration of Environmental Clearance

The proposal is for Expansion in Environmental Clearance in RAS-I Limestone mine in the mine lease area of 183.53 ha of M/s Ambuja Cements Limited. The proposal is for increase in Limestone production capacity from 0.279 MTPA to 2.80 MTPA and sizing of the material using crusher and the wobbler of 1200 TPH. The mine site is located at Villages Sewariya, Bhaktawarpura, Dhaneriya, and Kotadiya, Tehsil Jaitaran, District Pali, Rajasthan of M/s Ambuja Cements Limited.

1. Project details:

Location	Latitudes	26 ^o 23'12.75" N to 26 ^o 24'16.61"N
	Longitudes	74 ^o 13'26.32" E to 74 ^o 14'35.49"E
	Sol Topo sheet No.	Core zone : G43I3 Buffer zone : G43I3 & G43I7
Accredited Consultant and certificate no.	J.M. EnviroNet Pvt. Ltd. Certificate no. NABET/EIA/2023/RA 0186	
KML file	Submitted	
Seismic zone	Zone – II as per IS: 1893 (Part-I) : 2002	

2. Category details:

Category of the project	Category "A" under Schedule 1(a) – Mining of Minerals activity
Provisions	EIA Notification dated 14th September, 2006.
Mining lease Area	183.53 Ha (Govt. Land- 180.43 ha & Private Land- 3.10 Ha)

3. Terms of Reference and previous Environmental Clearance details:

ToR Proposal No.	IA/RJ/MIN/66058/2017
Online application date for Form-I	July 10 th , 2017
Documents Submitted	Form I, PFR, Brief Information, Proposed ToR, SOI Toposheet etc.
EAC meeting date	29.08.2017
ToR Letter No.	J-11015/82/2017-IA.II (M)
ToR grant Date	28.09.2017
Production capacity	2.80 Million TPA
Soil	Nil
Waste	0.25 million TPA
Others	0.49 million TPA (Mineral Reject)
Total Excavation	3.54 Million TPA
Crusher	1 x 1200 TPH
EIA/EMP uploaded on	01.02.2019
Previous EC details	Environmental Clearance for existing limestone production Capacity of 0.279 million TPA has been obtained from MoEFCC vide letter no J-11011/54/2010-IA-II (I) dated 29.03.2012
Date of earlier EAC meeting for the appraisal of EC	35 th EAC Meeting on 16.08.2021

4. ADS details: Project was considered for Environmental Clearance in 35th EAC (Non-coal Mining) meeting held on 16.08.2021. Additional Details Sought was raised on 26.08.2021. Reply of Additional Detail Sought was submitted to MoEFCC on 21.04.2022 which is as follows:

S. No	ADS Point points sought on 26.08.2021	Reply submitted by the project proponent on 21.04.2022
1.	The project proponent needs to undertake the plantation in the next 2 months in order to complete it as committed using 3 m sapling as per approved mining plan including the peripheral plantation	<ul style="list-style-type: none"> ➤ Total Length of mining lease periphery is calculated as 6040 m. ➤ Area for greenbelt under 7.5 m lease periphery is estimated as 4.53 ha. ➤ Out of 4.53 ha area of greenbelt, 3.0 ha area has been covered with 7500 no of Sapling of 10 feet height in and around Mines area and remaining 1.53 ha area cannot be covered with

		<p>greenbelt due to stony land.</p> <ul style="list-style-type: none"> ➤ Range Forest Officer, Sendra has also visited the site for verification of plantation work. ➤ A certificate from Ranger Officer, Sendra, District Pali has also been received vide letter no Survey/2021-22/125 dated 09.03.2022 stating that out of 6040 m length of lease periphery, it will not be appropriate to do plantation on 1800 m length due to hill area. ➤ Plantation including selection of species work has been undertaken with the due consultation / supervision of DCF, Sendra Office, District Pali. ➤ Major sapling species are Sessam, Gulmohar, Neem, Karanj and Cassia saima. ➤ Photographs showing plantation done in the lease area has been submitted with ADS Reply
2.	The project proponent needs to submit the revised wildlife conservation plan as per the suggestions made by the EAC during the presentation.	Revised Wildlife Conservation Plan has been approved from Chief Wildlife Warden vide letter no F 11 (421) Vikas-II/CWLW/2021-22/510 dated 12.04.2022. Copy of same submitted with ADS Reply
3.	The project proponent needs to submit the revised EMP for proposed crusher, transportation of 18 km of the mineral and along with the revised EMP budget assigned. The project proponent needs to submit the revised EMP for public hearing concerns indicating capital cost (85 lakhs) with breakup of 3 years which can be monitored by the Ministry	Earlier, Total Capital cost proposal for EMP was Rs. 974 Lakh which has now been increased as Rs. 1216.70 Lakh (~24% up from the previous budget given). Detailed breakup of EMP budget (Existing and proposed) submitted with ADS Reply.
4.	The project proponent needs to	Earlier budget earmarked for greenbelt

	<p>submit the budget of plantation which is to be revised by increasing the cost of sapling which was taken as 200 to 300 and completing the plantation at the density of 2000 plants/ha. Also, make a provision for gap plantation ensuring 95% survival rate and resubmit the budget for first 5-year plan and also till the conceptual closure of mine</p>	<p>and plantation was Rs. 1.2 Crore which has been now increased as Rs. 3.71 Crore (Capital) and Rs. 1.30 Crore (Recurring). Detailed breakup of budget earmarked for greenbelt and plantation submitted with ADS Reply.</p>
<p>5.</p>	<p>The project proponent needs to submit the impact of change in topography on hydrology as well as change in water availability in the nearby area since the hydrology of the area may change due to chopping of the hill.</p>	<ul style="list-style-type: none"> ➤ Since the area is devoid of any perennial drainage pattern or water body or any other prominent geomorphological features, mining will not create as such any adverse impact. ➤ However, rain fall which will be falling in the Lease area shall be affected and efforts to divert rainwater in to nearby water pond shall be undertaken. ➤ Till conceptual stage ~78 Ha area shall be affected due to mining, total expected rainwater in the mining affected area would be ~ 0.34 MCM which partly shall be channelized to nearby pond through storm drain and rest will be available in the mine pit which shall act as a small water reservoir for few days considering the very meager rainy days and high evaporation. ➤ Water Table (~370 AMSL) shall also be far below the ultimate mine pit depth (396 AMSL) which clearly indicates – no adverse impact on surrounding ground water regime of the area. ➤ However, Ambuja is pursuing various activities on water harvesting / recharging which shall certainly create a positive impact on ground water

		<p>environment.</p> <ul style="list-style-type: none"> ➤ As per the proposal / commitment of the company, over the years, the population of trees shall be increased significantly in the vicinity which shall also develop a positive impact on the environment. ➤ Therefore, in totality, as such no adverse impact due to mining activity has been envisaged.
6.	The project proponent needs to submit the particle emission considering it as elevated source at 10 m interval and work out the zone of impact using source-receptor model.	The particle emission has been calculated at 10 m interval and work out the zone of impact using source-receptor model. Its value calculated as 4.63 µg/m ³ . Isopleth showing particle emission using source-receptor model submitted with ADS Reply.
7	The project proponent needs to survey the plantation using drone and submit it in order to show the clear picture of plantation completed till date using drone survey video	As advised drone survey has been undertaken. Photographs of drone survey showing plantation within mining lease area submitted with ADS Reply.
8	The project proponent needs to submit a detailed note on switch over from road transportation to conveyer transportation from RAS-1 to the plant site near RAS- 2 with due consideration that it has to cross a railway crossing and a highway. PP submitted that the work can be completed in 3 years.	<ul style="list-style-type: none"> ➤ Ras-II existing mines which is close to Plant is having quality issues ➤ Ras-I Limestone is comparatively better-quality Limestone with good quantity resources ➤ To manufacture cement we need to blend more quantity of Limestone from Ras-I mines to achieve desired Raw mix ➤ We require Limestone from Ras-I to the tune of 2.8 MTPA. However, it shall be achieved in a phased manner. (1.2/1.5/1.8/2.0/2.8MTPA) ➤ We urge to grant us permission to transport Limestone to the maximum extent of 1.8MTPA through Road and above that shall be transported through

		<p>OLBC.</p> <ul style="list-style-type: none"> ➤ Since, land procurement, road survey and various permissions to cross State Highway will take considerable time of 03 years. ➤ Existing road conditions are pretty well and can take load of increased no of vehicles for 1.8MTPA. However, as per CRRl, it was confirmed that the existing road can take load for entire desired capacity expansion of Limestone i.e., 2.8 MTPA. ➤ Nevertheless, as earlier we are committed, the complete increased capacity of 2.8 MTPA shall be transported through OLBC / dedicated corridor.
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5. Lease Details:

Granted Mine lease	Area	183.53 ha
	In favor of	DLF Cements Ltd.
	Letter details	P-3(28)/Mine/Group-1/92 dated 24.04.1997 for a period of 20 years w.e.f date of lease registration.
	Execution date	13.06.1997
	Registration date	25.11.1997
First mine lease transfer	Transfer of mining lease from M/s. DLF Cements Ltd to Ambuja Cement Rajasthan Ltd (ACRL) was done by State Govt vide their order no P-3(28)/Mine/Group-1/92 dated 16.05.2005 of which supplementary lease execution was done on 17.11.2005.	
Second mine lease transfer	Transfer of mining lease from Ambuja Cement Rajasthan Ltd (ACRL) to Gujarat Ambuja Cements Ltd (GACL) was done by Directorate vide their order no Nikhabhu/Sojat/CC.8/P.1(1)10/1994/2073 dated 06.12.2005 which was executed on 02.01.2006 and registered on 10.01.2006.	

Validity of mine lease	Mining Lease has been extended upto 24.11.2047, under Section 8A (5) of M.M.D.R. Amendment Act 2015. Letter for the same has also been obtained from the Office of Mining Engineer, Department of Mines and Geology, Rajasthan vide their letter no. ME/Sojat/Major/ML/10/1994/2055 dated 24.02.2015 in favor of GACL.
Third mine lease transfer	Transfer of Mining Lease from Gujarat Ambuja Cements Ltd (GACL) to Ambuja Cements Ltd (ACL) is under process with Department of Mines & Petroleum. Letter has been forwarded from Directorate of Mines & Geology to Department of Mines & Petroleum vide their letter no Nikhabhu / Major / Sojat / CC.I / M.L.2 / 94 / 1360 dated 07.09.2017.

6. Mining plan details:

Mining Plan (approved by Indian Bureau of Mines/DMG)	Letter No.	584(4)(3)(1739)/2018 RCM-AJM/787-790
	Date	07.06.2018
	Validity	2021 - 2022
Mining Parameters	Quantitative Description	
Bench Height	8 m	
Bench Width	18 m	
Method of Mining	Open Cast Mechanized Mining Method	
Individual bench slope	80-90 degree will be maintained	
Overall pit slope	45 °	

Drilling/Blasting	<p>Since the limestone is hard and compact, drilling is required to break the rock. Drilling is being/ will be carried out by crawler mounted DTH hammer Drill machine equipped with in built arrangement of water sprinkling for dust suppression and separate dust extraction system. Following drilling parameters are being/ will be used to meet the production requirements:</p> <ul style="list-style-type: none"> ➤ Bench Height : 8 meters ➤ Drill Hole dia : 115 mm ➤ Burden :3 - 3.5 meters ➤ Spacing : 3.5 -4 meters ➤ Sub Grade Drilling: 10% of the Bench height <p>Blasting is being/ will be done using the non electric shock tube initiating system like Noiseless Trunkline Delays. The oversized boulder generated during primary blasting is being/ will be broken up by hydraulic rock breaker. No secondary blasting is envisaged in this mine.</p> <p>Blasting Parameters</p> <ul style="list-style-type: none"> ➤ Burden : 3 m to 3.25 m ➤ Spacing : 3.5 m to 4.0 m ➤ Stemming :1/3 of the hole depth ➤ Sub Grade Drilling :10% of the Bench height ➤ Charge of explosive per hole : Bottom primer charge 5-6 Kg and Column charge 35-40 Kg ➤ Powder factor : 8 tonnes per kg ➤ Average no. of holes blasted : 50 ➤ Maximum holes blasted per delay : 01
RoM output size	-80 mm
Life of mine	45 years

Transportation details	Presently, the uncrushed ore is being transported to the crusher of 1200 TPH Capacity at RAS-II Mine by Dumpers. Then the crushed material is being transported to the Captive Cement Plant by the tippers. With the proposal of increased capacity of Limestone Production, it is also proposed to install crusher of 1200 TPH, belt conveyor and screening Plant system with Limestone storage facility at RAS-I Mine so that the crushed limestone can be directly transported to the cement plant by tippers
Dumpers capacity	35 T

7. Nearest village / town/ highway/railway station / water bodies:

Particulars	Particular's Name	Directions
Nearest village	Garh	~600 m in WSW direction
Nearest Town / City	Beawar	~32 km in SSE direction
Nearest State/National Highway	SH-39	~10.30 km in SW direction
	NH-8	~30 km in SE direction
Nearest Railway Station	Beawar	~32 km in SSE direction
Nearest water bodies	AgunaBala	~3.5 km in ESE direction
	PhutiyaBala	~3.5 km in East direction
	SukriNadi	~4.0 km in North Direction
	AthunaBala	~4.0 km in NE Direction
	Chhoralobala	~6.0 km in NE Direction

8. Water requirement:

Total water requirement	120 KLD	Fresh water	120 KLD
		Treated water	-
Source	Sourced from groundwater.		
Permission	Application for withdrawing ground water has been submitted to CGWA vide letter dated 26.10.2017		

9. Presence of Environmentally Sensitive areas in the study area:

Forest Land/Protected Area/Environmental Sensitivity Zone	Yes/No	Details of Certificate/letter/Remarks

Forest Land	No	No forest land falls within the lease area. A Certificate showing No forest land involved within the ML area has been obtained from Deputy Conservator of Forest, Pali vide letter no.F () DCF/Survey/2018-19/3681 dated 02.07.2018
National park	No	There is no National Park, Wildlife Sanctuary, Biosphere Reserves, Tiger Reserves, and Wildlife Corridors etc. within 10 km radius of the mining lease area. One Pagara Block Reserve Forest and one Protected Forest falls within 10 km radius study area. Letter along with authenticated location map has been received from Deputy conservator of Forest, Pali vide letter No./F() DCF/Survey/2018-19/3681 dated 02.07.2018.
Wildlife Sanctuary & Forest	No	

Schedule-1 species	Yes/No	Details of Certificate/letter/Remarks
Schedule-I species	Yes	Two scheduled –I Species i.e. Monitor lizard (<i>Varanus bengalensis</i>) & Indian Peafowl (<i>Pavocristatus</i>) were found within 10 km radius of the Mining Lease area.
Wildlife Conservation plan	Yes	Conservation plan for two schedule I specie i.e. Monitor lizard & Indian Peafowl has been approved from Dy. Conservator of Forest vide letter No. /F () DCF/Survey/2018-19/3681 dated 02.07.2018.

10. Status of CTE/CTO.

- CTE was obtained for 0.279 million TPA limestone production capacity vide letter dated 09.07.2012.
- CTO was obtained from RSPCB vide letter dated 17.01.2020 for 0.279 million TPA production capacity (Valid till 31.07.2023)

11. Green belt/plantation details:

Proposed area for green belt/plantation	57.4 ha
Budget for green plant & plantation till the end of life of mine.	Rs. 3.70 Crore (Capital) and Rs. 1.30 Crore (Recurring)
Particulars for Green belt/plantation	Area covered (in Ha)
7.5 m barrier & non-mineralized zone	4.53 ha

12. Baseline details:

Baseline Data (Air / Water / Noise / Soil / Ground water table/ others)	
Period of baseline data collection	October to December, 2017 and December, 2020
Season (Summer / Pre-monsoon / Post-monsoon / Winter)	Post Monsoon Season

13. Public Hearing details:

Advertisement for PH with date	19.09.2018 (“DainikNavjyoti” and “The Times of India”)
Date of PH	25.10.2018
Venue	Atal Sewa Kendra, Gram Panchayat, Kudki, Tehsil-Jaitaran, District Pali, State Rajasthan
Chaired by	Shree Sudhir Kumar Sharma, District Collector, Pali. Mr. Amit Sharma, Regional Officer, Rajasthan State Pollution Control Board
Main issues raised during PH	Issues raised during public hearing were about Social Development in the nearby area, Environment, Employment, Construction of Road & Gaushala, Skill Development, Water facilities etc.
Budget proposed for addressing issues raised during PH	Rs. 85.0 Lakhs

14. Court case details:

Court Case	The company already has valid EC / CTO in the name of Ambuja cements Limited. However, Name Change matter is subjudice and the company has obtained stay from Honorable High Court.
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15. Affidavit/Undertaking details:

Affidavit/Undertaking	Affidavit in accordance with the statutory requirement & judgment of Hon’ble Supreme Court dated 2nd August 2017 in writ Petition (civil) No. 114 of 2014 in the matter of common cause versus Union of India & Ores before grant of ToR/EC has been submitted to MoEFCC.
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16. Previous EC compliance and production details:

Particulars	Letter no. and date
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Certified EC compliance report	Compliance status of existing EC was certified by RO, MoEFCC vide their letter dated 06.07.2021 and Action plan of 3 partial complied conditions submitted to RO, MoEFCC on 22.07.2021.
Certified past production	Past Production details has been certified by Mining Department vide letter no ME/Sojat/Static/2019/356 dated 09.03.2021

17. Details of the EMP budget:

Sl. No.	Activities	Proposed budget (In Lakhs)	
		Capital	Recurring
A.	Mitigative Measures		
1.	Water tanker mounted water sprinkling arrangement for water spraying at haulage road, Mining area (Proposed 1 nos. @ 30 lakhs per truck mounted water tanker)	30.00	10.00
2.	Approx 11000 No. of saplings around lease periphery and gap plantation work in the lease area @ Rs.300 including cost of seedling, plantation, manuring, pesticide / termite and watch & ward, watering.	33.00	11.55
3.	Green belt development around the Conveyor Belt 7200 Plants @300	21.60	7.56
4.	Plantation on un-worked area, safety zone of nallah, habitation, including avenue plantation around Mines office (6.2 ha)	-	2.00
5.	Plantation for first 05 years @ 2000 Plants per ha (5 ha) @ Rs 300	30.00	10.50
6.	Balance Plantation till conceptual stage (95,200 sapling over 47.6 Ha area, total 52.60 Ha area)	285.60	99.9
7.	Wheel washing setup with civil work	10.00	0.50
8.	Inbuilt water sprinkling system at Crusher & screening plant	15.00	1.00
9.	Bag-filter / de-dusting system	300.00	5.00
9.	Covered silo	280.00	3.00
10.	Construction of one no of garland drain is proposed (in length of 500m, width 1m, height 1m)	5.00	2.00
11.	Construction of one no of retaining wall is proposed (Length 500m, width 1m, height 1m)	5.00	2.00
12.	Vacuum cleaner (for road brooming purpose)	30.00	1.15

13.	Washing Ramp	10.00	0.50
14.	Oil- water separator	2.00	0.25
15.	Pond rehabilitation work	5.00	0.75
	Sub Total	1062.2	157.66
B.	Monitoring		
1.	Display Board at main gate for display of Ambient, Air, Noise and Hazardous waste monitoring data.	0.00	0.20
2.	One proposed online AAQM Station in mines area	50.0	2.50
3.	Air monitoring Equipment for PM10 & PM2.5	-	1.00
4.	Weather monitoring Station with civil work.	2.50	0.50
5.	3 AAQM Station in mines area (Manual)	-	0.20
6.	Monitoring Van	-	3.50
7.	Installation of piezometers	10.00	1.00
8.	Water quality and level monitoring at mine site and villages (2 locations).	1.00	2.00
9.	Workshop Waste water quality analyses	0.00	0.25
10.	Water Flow meter (02 nos)	3.00	0.50
11.	➤ The Peak particle velocity monitoring for nearest habitation ➤ Noise Level Monitoring in core and buffer zone	3.00	0.25
	Sub Total	69.5	11.9
C.	Estimated Budget for Addressing the Public Hearing Issues	85.0	8.5
	Total	1216.7	178.06

18. Details of project cost and employment:

Particulars	Budget
Capital Cost for Environment Protection	Rs. 11.31 Crore
Budget for addressing the Public Hearing issues	Rs. 0.85 Crore
Total Cost for EMP	Rs. 12.16 Crore
Recurring Cost for EMP	Rs. 1.78 Crore/ annum
Project Cost	Rs. 85 Crore
Employment	70 persons

19. Observation and Recommendation of the Committee:

The proposal for Environmental Clearance was considered in the 50th EAC meeting held during 12th to 13th May 2022. After detailed deliberations made by the

Project Proponent and the Consultant, the Committee **recommended** the proposal for Environmental Clearance of expansion in Limestone production capacity from 0.279 MTPA to 2.80 MTPA and sizing of the material using crusher and the wobbler of 1200 TPH in RAS-I in the Mine lease area of 183.53 ha (ML No. 10/94) located at villages Sewariya, Bhaktawarpura, Dhaneriya, and Kotadiya, Tehsil Jaitaran, District Pali, Rajasthan of M/s Ambuja Cements Limited subject to the following specific conditions in addition to the standard conditions of non-coal mining projects:

- 1) The expansion in Environmental Clearance shall be functional only after execution of mine lease in the name of M/s Ambuja Cements Limited.
- 2) The plantation that has been carried out on the suggestion of EAC should be continued with more vigour. The details of plantation with survival rate shall be submitted to the Ministry annually.
- 3) On review of Wildlife Conservation Plan, the Committee noted that Rs. 10 Lakhs has been indicated as administrative budget. This should be removed from the Wildlife Conservation Plan.
- 4) The mineral beneficiation given in the EIA report is only the sizing of the material using crusher and the wobbler. So, this beneficiation in the instant case will be treated as sizing of material.
- 5) The project proponent shall implement switch over from road to OLBC in 30 months instead of 3 years. As per the plan submitted, the project proponent was supposed to complete the activity by May, 2025. However, it should be done before November, 2023. The status of the work completion shall be submitted to the Ministry annually.
- 6) The project proponent shall monitor water quality with specific reference to Langelier Saturation Index to assess the impact of calcium carbonate on water quality.
- 7) Approval/permission of the CGWA/SGWA shall be obtained before drawing ground water for the project activities, if applicable. Concerned State Pollution Control Board (SPCB) shall not issue Consent to Operate (CTO) till the project proponent obtains such permission.

- 8) The monitoring of noise and vibration shall be conducted at the edge of the mine lease and the progress report must be submitted to the Ministry in every 6 months.
- 9) The fugitive dust emission through personal dust monitoring shall be conducted and the data must be submitted to the Ministry in every 6 months to the Ministry.
- 10) The Project Proponent should periodically monitor and maintain the health records of the mine workers digitally prior to mining operations, at the time of operation of mine and post mining operations. Regular surveillance on Silicosis shall be carried through regular occupational health check-up every year for mine workers.

1.7 Amendment in existing Environmental Clearance granted on 22.09.2014 by MoEF&CC w.r.t Change in mine lease area from 512.354 ha (602.054 ha - 89.70 ha) to executed ML area 519 ha for existing limestone mine with production capacity of 3.0 MTPA (ROM) located at Villages Itagi&Mogla, Taluka Chittapur, District Kalaburagi, Karnataka in favor of M/s. Orient Cement Limited - [Proposal No: IA/KA/MIN/214419/2021; File No. J-11015/60/2011-IA-II (M)] - Amendment in EC

The proposal is for Amendment in existing Environmental Clearance granted on 22.09.2014 by MoEF&CC in favour of M/s. Orient Cement Limited. The proposal is for amendment w.r.t change in mine lease area from 512.354 ha (602.054 ha - 89.70 ha) to executed ML area 519 ha for existing limestone mine with production capacity of 3.0 MTPA (ROM) located at Villages Itagi & Mogla, Taluka Chittapur, District Kalaburagi, Karnataka.

1. Project details:

Location	Latitudes	17 ⁰ 06'41.03880" N to 17 ⁰ 08'10.57568" N
	Longitudes	77 ⁰ 07'35.07929" E to 77 ⁰ 09'13.0.5734" E
	Gol Topo sheet No.	56 G/4
Accredited Consultant Organisation and its certificate no.	J.M. EnviroNet Pvt. Ltd. Accredited EIA Consultant by NABET (QCI) Certificate No: NABET/EIA/2023/RA 0186, dated 17.12.2020 & valid up to 07.02.2023	
KML file	Submitted	
Seismic zone	Zone-III	

2. Category details:

Category of the project	Category “A” under Schedule 1(a) – Mining of Minerals activity
Provisions	EIA Notification dated 14th September, 2006.
Mining lease Area	519 Ha (Private land)

3. The details of the previous Environmental Clearance (EC) are furnished as below:

Date of application	File No	Details	Date of accord
14.08.2012	J-11015/60/ 2011-IA. II(M)	EC was granted in favor of M/s Orient Cement for Limestone production of 3.0 MTPA in the mine lease area of 602.054 ha under EIA Notification, 2006	22.09.2014
Reason of Amendment	Change in mine area from 512.354 ha (602.054 ha - 89.70 ha) to Executed ML area 519 ha		

4. Lease Details:

Mine lease	<ul style="list-style-type: none"> ➤ Mine lease was granted by State Govt. over an area of 522.05 ha for a period of 50 years vide letter no. DMG/MLS/1682AML2010/2015-16 dated 04.07.2015. ➤ Corrigendum was issued by State Govt for correction in ML area from 522.05 ha to 519 ha vide their letter no DMG/MLS/1682AML2010/2015-16 dated 31.07.2015.
Execution of mine lease	<ul style="list-style-type: none"> ➤ Mining lease was executed for 519 ha out of total applied ML area of 602.054 ha on 31.07.2015 vide lease Deed No 2681 for a period of 50 Years effective from 31/07/2015. ➤ Orient cement approached to State Govt. to regularize the extent of Mining lease in line with EC on 14.06.2019.

Additional information	➤ The State Department of Mines, Govt of Karnataka vide letter dated 31.07.2019. The relevant extract is as follows: “As per the Amended Provisions of MMDR Act, 2015 the mining lease shall be on auction basis and as per MoAHCEM Rules, 2016 there is no provision to reduce/part surrender of the mining lease area and In the light of above mentioned facts and circumstances, I am directed to request Ministry of Environment, Forest and climate change that EC may be revised to 519 ha as per granted area under the mining lease with a condition that no mining activity shall be carried out in Pit 3 area unless M/s OCL comply with other conditions of the EC. Geology has executed the lease deed for 519 ha. ”	
Validity of mine lease	30.07.2065	
Letter of Intent	Letter No.	DMG:MLS:1682 AML 2010:11-12/13290
	Date	08.02.2012

5. Mining plan

Mining Plan (approved by Indian Bureau of Mines/DMG)	Letter No.	279/1060/2012/BNG/194
	Date	13.04.2022
	Validity	2020-21 to 2024 -25
Mining Parameters	Quantitative Description	
Bench Height	8 m	
Bench Width	4 m (At Ultimate stage)	
Method of Mining	Fully Mechanized Opencast Method	
Individual bench slope	80° From Horizontal;	
Overall pit slope	≤58°	
Drilling/Blasting	Down to the Hole drilling with control blasting.	
RoM output size	01 m ³ (Maximum up to)	
Life of mine	60 years	
Transportation details	The ROM limestone after exploitation is being transported to crusher by tippers and thereafter by closed belt conveyor to the cement plant.	
Dumpers capacity	25 tonnes capacity	

6. Nearest village / town/ highway/railway station / water bodies

Particulars	Villages	Directions
Nearest Village	Village Itagi	Surrounded by Lease
Nearest Town/ City	Kalaburagi	~36 km in NW direction
Nearest Highway	NH - 218	~33 km in West direction

Nearest Railway Station	Chittapur	~3.7 km in Westdirection
Water Bodies	Kagna River	~5.4 km in North direction
	Benithora River	~7.9 km in Northdirection

7. Water requirement

Total water requirement	50 KLD	Fresh water	50 KLD
		Treated water	-
Source	Raw water reservoir of the plant and later from mine pit		

8. Presence of Environmentally Sensitive areas in the study area

Forest Land/Protected Area/Environmental Sensitivity Zone	Yes/No	Details of Certificate/letter/Remarks
Forest Land	No	Nil
National park	No	
Wildlife Sanctuary & Forest	No	

9. Status of CTE/CTO.

- CFE has been obtained from KSPCB vide letter no PCB/MIN//CFE/2014-15/1012 dated 21.11.2014.
- CFO has been obtained from KSPCB vide letter dated 27.02.2020 which is valid up to 31.03.2025.

10. Green belt / plantation details:

Particulars for Green belt/plantation	Area covered (in Ha)
7.5 m barrier & non-mineralized zone	9.9 Ha & Entire area is mineralized with limestone however the occurrence of massive limestone decreases towards southwest of the ML as revealed by boreholes drilled in the area. Hence non-mineralized area is not available
50 m safety zone of nallah, roads, electric lines	30.28 Ha.
500 m safety zones of nearest habitation villages	54.42 Ha.
Other Barren Land/Backfilling area	26.17 Ha.

11. Affidavit/Undertaking details:

Affidavit/Undertaking	Company has submitted an Affidavit to MoEF&CC that the mining would be done strictly in accordance with the statutory requirement & judgment of Hon'ble Supreme Court dated 2nd August 2017 in writ Petition (civil) No. 114 of 2014 in the matter of common cause versus Union of India & Ores.
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12. Rehabilitation & Resettlement:

R & R details	<p>Total Lease Grant area - 519 Ha Purchased Land – 406.30 Ha. To be Purchased land – 112.70 Ha All lands will be purchased by the end of 2023. NO Habitation or dwellings within the mine lease area</p> <ol style="list-style-type: none"> i. Land sellers are paid as per compensation package fixed/ decided by the tripartite committee comprising of project proponent, land sellers & District authorities in the presence of local legislator and other leaders and agreed upon by all. ii. Gainful employment to the land sellers directly or through its agencies, within the needs of the company. iii. Preference to local people for the various jobs as per qualifications and suitability. iv. Initiated necessary training activity by identifying 40 local people and sending them for training in various trades at L&T Training Centre. They will be absorbed in various jobs in the project v. As part of CSR activities, Rs 74 crores will be spent in the first ten years of the project Welfare measures in the fields of Education, Health, Hygiene & Sanitation, Community mobilization, Livelihood Promotion & capability building etc. of the local population
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13. Previous EC compliance and production details:

Particulars	Letter no. and date
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Certified EC compliance report	<ul style="list-style-type: none"> ➤ Compliance of existing EC was certified by RO, MoEFCC vide their letter dated 21.01.2019 ➤ In compliance of the non-compliance of certain EC Conditions, as observed by EAC in its 4th meeting. Project was monitored by Regional Office, MoEFCC during their visit on 09.12.2020 and Compliance of existing EC conditions was certified by RO, MOEFCC vide their letter dated 19.04.2021.
Certified past production	Past production details has been authenticated by Dept. of Mines Kalaburagi vide letter no. DMG/DDK/ML/2021-22/1489 dated 29.07.2021.

14. ADS details:

The proposal was considered by EAC in its 33rd and 35th Meeting held on 13.07.2021 and 17.08.2021 respectively. During 35th EAC meeting, the Committee asked the project proponent to submit the revised table of area breakup. The project proponent submitted the revised table vide letter dated 17.08.2021, which is as follows:

S.	Pit No	Area (Ha)			
		Applied in EC (As per LOI)	as per Executed ML	As per granted EC	As per Present proposal
1.	Pit No.1	238.8	197.5	238.8	197.5
2.	Pit No.2	42.1	10.51	42.1	10.51
3.	Pit No.3	89.7	44.62	-	-
4.	Allied activities & Undisturbed Area	231.454	266.37	231.454	310.99 (Includes 44.62 ha "No Mining zone "area of pit 3)
	TOTAL	602.054	519	512.354	519

- 41.3 ha area in Pit no 1 has been reduced in lease execution due to increase in village safety zone from 300 m to 500 m and increase in nala safety zone from 15m to 50m
- 31.59 ha area in Pit no 2 has been reduced in lease execution due to increase in nala safety zone from 15m to 50m
- At present mining is being carried out in Pit 1 only with 36.91 ha area under operation.

- The part Area of pit 3 i.e. 44.62 ha (which is No Mining Zone) out of 89.70 ha (which was included in lease deed executed by State Govt on 31.07.2015) has been considered under allied activity and undisturbed area and mining activity in this 44.62 ha included in the mining lease will be initiated only after taking necessary approval from MOEF in due course, as stated in the original EC.

In the same context, Company undertakes the following:

- Company will also abide with all other terms and conditions mentioned in Existing EC dated 22.09.2014.
- As per 35th EAC Meeting, the “Committee examined the revised data submitted by the project proponent and then observed that the mining area of pit-1, pit-2, pit-3 and non-mining area as per approved mining plan does not match with the information submitted by project proponent. It appears to be reduction in the pit area for both pit-1 and pit-2. The project proponent is advised to submit the modified mining plan as per the revised submission made before the EAC. Therefore, the Committee deferred the proposal”
- Modified Mining Plan with Progressive Mine Closure Plan has been prepared for revised proposal (Page no 2 & 3 of Approved Modified Mining Plan) and same has been approved by Indian Bureau of Mines vide letter no 279/1060/2012/BNG/194 dated 13.04.2022.
- Copy of the Approved Modified Mining Plan has been submitted to MoEFCC with Reply on 15.04.2022.

15. Details of the EMP:

Activities	Capital cost (Crores)	Recurring cost (Lakhs/annum)
Dust suppression system	0.10	1.50
Bag filter for crusher	0.32	3.00
Stack	0.10	0.00
Bag filter for transfer point	0.05	1.00
Covering for belt conveyor	0.10	1.00
Water tanker etc for spraying on roads	0.20	0.50
Workshop wastewater treatment	0.10	1.00
Check dams	0.10	1.00
Retaining walls	0.25	2.00
Occupational Health protection equipment	0.10	2.00
Total	1.37	13.00

16. Details of project cost and employment:

Particulars	Budget (Rs. In Crore)
Capital Cost for Environment Protection	Rs. 135.30 Crores - Capital cost of the integrated project (Cement plant, Captive power plant and Captive Limestone Mine)
Budget for addressing the Public Hearing issues	Rs. 74.0 Crores
Total Cost for EMP	Rs. 209.3 Crores - EMP cost of the integrated project (Cement plant, Captive power plant and Captive Limestone Mine)
Recurring cost for EMP	Rs. 8.0 Crores - Recurring EMP cost of the integrated project (Cement plant, Captive power plant and Captive Limestone Mine)
Project Cost	Rs. 1500 Crores - Capital cost of the integrated project (Cement plant, Captive power plant and Captive Limestone Mine)
Employment	1314 Nos Direct and Indirect employments have been provided. Preference to locals has been given and based on their qualification company has provided either direct or indirectly employment to the Land sellers too.

19. Observation and Recommendation of the Committee:

The proposal for Amendment in Environmental Clearance was considered in the 50th EAC meeting held during 12th to 13th May, 2022. After detailed deliberations made by the Project Proponent and the Consultant, the Committee **recommended** the proposal for Amendment in Environmental Clearance granted on 22.09.2014 by MoEF&CC w.r.t Change in mine area from 512.354 ha (602.054 ha - 89.70 ha) to executed ML area 519 ha for existing limestone mine with production capacity of 3.0 MTPA (ROM) located at Villages Itagi&Mogla, Taluka Chittapur, District Kalaburagi, Karnataka in favour of M/s. Orient Cement Limited. The other terms and conditions mentioned in earlier EC letter dated 22.09.2014 shall remain unchanged.

- (i) Mining operations will be restricted to pit-1 and pit-2 areas only.
- (ii) The Project Proponent should periodically monitor and maintain the health records of the mine workers digitally prior to mining operations, at the time of operation of mine and post mining operations. Regular surveillance on

- Silicosis shall be carried through regular occupational health check-up every year for mine workers.
- (iii) The project proponent shall monitor water quality with specific reference to Langelier Saturation Index to assess the impact of calcium carbonate on water quality.

1.8 Granite Building Stone quarry of M/s Kavumkal Granites in the mine lease area of 4.0262 Ha with total production capacity of 1856378 MT located at Athikkayam Village, Ranny Taluk, Pathanamthitta District, Kerala – [File No. IA-J-11015/95/2021- IA.II(NCM); Proposal No. IA/KL/MIN/237190/2020] –Reconsideration of Environmental Clearance

The proposal of M/s Kavumkal Granites is for grant of Environmental Clearance for Granite Building Stone quarry in the mine lease area of 4.0262 Ha area located at Athikkayam village, Ranny Taluk, Pathanamthitta District, Kerala. The mine lease area is located between latitude 9°24'54.46" N to 9°25'3.39" N and longitude 76°50'21.19" E to 76°50'28.83" E. The mine lease area falls under the Survey of India Toposheet No. 58C/15 and falls in Seismic Zone III. The EIA consultant is SBA Enviro Systems Private Limited and accreditation no. of the consultant is NABET/EIA/1720/SA094. The category of the project is Category "B", Project or Activity 1(a) – 4 for Mining of Mineral as per EIA Notification S.O. 1533 (E), dated 14th September 2006 and subsequent amendments. SEIAA, Kerala has been constituted on 3rd March 2022, however, as per the Ministry's O.M. dated 23rd October 2017, "In cases, the proposal is appraised by the EAC due to non-existence of SEIAA/SEIAC, then irrespective of whether recommended, deferred or additional information sought, it will continue to be appraised and decided at the central level, even if the SEIAA/SEIAC is constituted later on."

2. The project proponent submitted the application of Environmental Clearance to MoEF&CC on PARIVESH portal vide proposal no. IA/KL/MIN/237190/2020 on 03.11.2021. The project proponent submitted that Terms of Reference was obtained from SEIAA, Kerala vide letter no. 1259(A)/EC2/2019/SEIAA dated 12/11/2020 for production of Granite Building Stone. The project proponent submitted form 1, form 2, copy of LOI, PFR, EMP, approved mining plan, Authorization letter, Cluster Certificate and DSR as per 2016 Notification for the appraisal of the proposal.

3. Earlier, the proposal for Environmental Clearance was considered in the 42nd EAC meeting held during 30th November to 3rd December, 2021 wherein the committee noted that the project proponent did not submit the authenticated District Survey Report as per Ministry's Notification S.O 3611(E) dated 25.07.2018. As per 2018 Notification "The District Survey Report shall form the basis for application for

environmental clearance, preparation of reports and appraisal of projects” and the Committee deferred the proposal. Accordingly, the project proponent replied for additional details sought on 21.01.2022 and 14.02.2022. The project proponent also submitted the Hon’ble High Court, Kerala order vide WP(C) NO. 22773 OF 2021 dated 31/01/2022. The relevant extract is produced below:

“The writ petition is disposed of directing respondents 1 & 3 to consider and pass orders on Ext.P10 proposal for Environmental Clearance submitted by the petitioner, on the basis of DSR 2016 issued by the Department of Mining and Geology, Government of Kerala, within a period of one month from the date of receipt of a copy of this judgment.

The certificate issued by the Geologist, Department of Mining and Geology, District Office, Pathanamthitta on 02.12.2021, which is produced as Ext.P13 in the writ petition, confirming that the DSR 2016 is being applied in the State of Kerala, shall also be considered by respondents 1 & 3 while finalizing their orders. The petitioner may upload the certificate issued by the Geologist in the concerned portal along with DSR of 2016, if not already uploaded.”

The project proponent accordingly submitted the certificate issued by the Geologist dated 02.12.2021.

The proposal for Environmental Clearance was again considered in the 47thEAC Meeting (Non-Coal Mining) held during 7thto 9thMarch 2022. After detailed deliberations, the Committee observed that the Letter of Intent (LOI) was obtained by the project proponent for mining of granite building stone for 4.0262 Ha from the Directorate of Mining and Geology, Thiruvananthapuram, Kerala vide letter dated 23/06/2018, which is not valid as on date. During the presentation, the project proponent informed the Committee that PP has applied for the extension of LOI. The Committee also observed some mining activities inside the mine lease area through KML file. Therefore, the Committee deferred the proposal due to want of the certain information. The project proponent submitted the information on 13.04.2022 which is as follows:

S. No.	ADS Point	Reply submitted by the project proponent on 13.04.2022
1	The project proponent submitted the Letter of Intent (LOI) for mining of granite building stone for 4.0262 Ha from the Directorate of Mining and	Letter of Intent (Lol) for mining of granite building stone for 4.0262 Ha has been extended by the Directorate of Mining and Geology, Thiruvananthapuram, Kerala, vide letter No. DMG/1114/2022-M1 dated 08/04/2022. The copy is submitted with the ADS reply.

	Geology, Thiruvananthapuram, Kerala dated 23/06/2018, which was valid for one year. The project proponent needs to submit the valid Letter of Intent	
2	The project proponent needs to submit the letter from DMG that there are no mining activities outside the mine lease area	This project is a fresh quarry with valid LOI, hence there was no mining activity outside the mine lease area which is evident in the KML file. Therefore, it is not possible to get a letter from DMG stating that there were no mining activities outside the mine lease area.
3	The project proponent needs to submit the letter from the concerned authority mentioning the actual distance of the Periyar National Park from the mine lease boundary	Dy. Director of Periyar Tiger Reserve West Division had issued a letter dated 22.03.2022 to M/s Kavumkal Granites stating that distance of the mine lease is 11.27 km away from the Periyar Tiger Reserve West Division.

4. The project proponent submitted that the Letter of Intent (LoI) for mining of granite building stone for 4.0262 Ha has been received from the Directorate of Mining and Geology, Thiruvananthapuram, Kerala, vide Letter of Intent No.5281/M3/2018 dated 23/06/2018. The LoI extension letter has been issued vide letter No. DMG/1114/2022-M1 dated 08/04/2022. The Mining plan has been prepared by Mr. Jayachandra Panicker P.S, Recognized Qualified Person (RQP – DMG/KERALA/RQP/12/2017) and the same was approved by the Senior Geologist, Pathanamthitta District, GoK, vide letter No. 1852/DOPTA/M/18 dated 24/09/2018 which is valid up to 01/12/2027. The Mining plan is approved for the total production of 1856378MT. The proposed annual production is estimated as 185637.8 MT. The project proponent submitted that life of mine is 10 years. PP submitted that the total production capacity will be 185637.8 MTPA; Soil: 90585 tonne and Overburden: 92819 tonnes. The total water requirement for the proposed project has been estimated to be around 7 KLD. About 1 KLD is required for domestic consumption, 4 KLD is required for dust suppression and 2KLD is required for green belt development. The required water will be met from bore well & open well.

5. The project proponent submitted that the method of mining will be open cast semi-mechanized with 45° pit slope. PP also submitted that since the bench height needs to be maintained to 5.0 m, blast hole will be by jack hammer where the diameter

is normally 32 mm and the depth of the hole is 2.5 to 2.6 m. Blasting pattern is generally square or staggered with burden ranging from 0.75 to 1.00 meters and spacing of 1.0 to 1.2 meters. Maximum holes blasted per day are 40 to 50 with normal delay detonators to mitigate adverse impacts such as air blast, throw and the ground vibration. Holes are electrically detonated using electric detonators. Nitrate mixture (Class-2) types of explosives are used for blasting with 20 to 25 percent, proportion of primer/ booster cartridges and rest as column charge. About 2 to 3 kg of explosives are loaded in 32 mm diameter holes. And powder factor ranging between 7 to 8 tons per kg of explosives is achieved. PP also submitted that loading of the building stone blocks will be done mechanically to tippers of 10 MT capacity and transported from the quarry to the stockyard and mineral rejection/waste will also be handled mechanically.

6. The project proponent submitted that the nearest village is Koothattukulam which is 1.4 km away from the mine site in NE. SH 44 & NH 183A are 4.7km in NE and 5.6 km in S respectively. Chengannur railway station is 27.5 km away in SW and Pampa River is 3.2 km away in NE direction. The project proponent submitted that there is no National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, Ramsar site Tiger/Elephant Reserves are located within 10 km radius of the mine lease area. PP also submitted that the nearest forest is Periyar National Park which is at 10.5 km away from the mine site.

7. As per the NGT order dated 13.09.2018 and the subsequent Office Memorandum of MoEF& CC, Government of India dated 12/12/2018, if the area of the proposal as individual or as cluster condition is >5ha it is required to take up the EIA studies including public hearing. There are three other quarries adjacent to the proposed quarry. The first one is an existing quarry of Kavumkal Granites for an area of 6.075Ha, second one is the Quarry of Manimalethu Crusher Industries over an area of 4.3564 Ha and Johnson Rocks for an area of 9.733 Ha (Not yet started as application is under consideration of SEIAA). Hence, considering the four quarries i.e., including proposed quarry area of 4.0262 ha, the total cluster area becomes 24.1906 Ha, the project falls under cluster condition. The cluster certificate is submitted by the PP vide letter no. 1033/DOPTA/M/2018 dated 07/08/2020. Therefore, the project proponent submitted the EIA report, December 2020. The baseline data was collected during Pre-Monsoon (Jan. 2021 to March 2020). Public hearing was conducted on 03.03.2021 at Manimalethu Auditorium, Vehcoochira, Pathanaththitta.

8. The project proponent submitted that the mine lease area of 4.0262 Ha is a private land. The project proponent submitted that capital and recurring cost for EMP is Rs0.22Crore and Rs. 0.03Crore respectively. Total project cost is Rs. 2.225Crore and direct manpower requirement is 20 persons.

9. Observation and Recommendation of the Committee:

The proposal for Environmental Clearance was considered in the 50th EAC meeting held during 12th to 13th May, 2022. After the detailed deliberations, the Committee **recommended** the proposal for Environmental Clearance of Granite Building Stone quarry of M/s Kavumkal Granites in the mine lease area of 4.0262 Ha with total production capacity of 1856378 MT located at Athikkayam Village, Ranny Taluk, Pathanamthitta District, Kerala subject to the compliance of following Specific conditions in addition to all Standard conditions applicable for non-coal mining projects:

- (i) The project proponent shall continue to monitor the air quality, noise quality at the edge of the mine in all the directions besides specific station in the direction of village and submit the 6 monthly report to the IRO.
- (ii) The project proponent shall ensure the compliance of necessary measures to be taken for the transportation of the mineral such as plantation along the road and suppression of the dust.
- (iii) The Project Proponent should periodically monitor and maintain the health records of the mine workers digitally prior to mining operations, at the time of operation of mine and post mining operations.
- (iv) The Project Proponent should periodically monitor and maintain the health records of the mine workers digitally prior to mining operations, at the time of operation of mine and post mining operations.
- (v) Approval/permission of the CGWA/SGWA shall be obtained before drawing ground water for the project activities, if applicable. Concerned State Pollution Control Board (SPCB) shall not issue Consent to Operate (CTO) till the project proponent obtains such permission.

1.9 Environmental Clearance for River Sand (Bajri) Mining Project with production capacity of 16,56,120 TPA located at Villages Bhawgarh, Balunda, Jarela, Mundiya, Nand Ganwadi, Pagara, Singola, Mahtabpura, Piplda Khurd, Boreda, Piplda Kalan, Arjunpura, Bislai, Gorela, Takariya Dhani, Gopalpura, Pali Tehsil Mangrol & Kishanganj, District Baran, Rajasthan in the Mining lease area of 329.90 ha of M/s Pramod Meena Baran – [File No. J-11015/166/2014-IA.II(M);

Proposal No. IA/RJ/MIN/25563/2014] - Reconsideration of Environmental Clearance

The proposal is for Environmental Clearance of River Sand (Bajri) Mining Project in the Mine lease area of 329.90 ha of M/s Pramod Meena Baran. The production capacity is 16,56,120 TPA. The mine lease area is located at Villages Bhawgarh, Balunda, Jarela, Mundiya, Nand Ganwadi, Pagara, Singola, Mahtabpura, Piplda Khurd, Boreda, Piplda Kalan, Arjunpura, Bislai, Gorela, Takariya Dhani, Gopalpura, Pali Tehsil Mangrol & Kishanganj, District Baran, Rajasthan.

1. Project details:

Location		Block A	Block B
	Latitudes	25°26'17.69"N to 25°26' 22.55"N	25°22'31.70"N to 25°17'46.52"N
	Longitudes	76°34'33.45"E to 76°34' 27.26"E	76°20'11.75"E to 76°21'22.78"E
	Sol Topo sheet No.	54C11 (Site)	
Accredited Consultant and Certificate No.	Change of Environment consultant as per the letter dated 05.04.2022 from M/s Grass Roots Research & Creation India (P) Ltd. to Overseas Min-Tech Consultants (NABET/EIA/1720/RA0091)		
Seismic zone	Zone-II as per IS-1893 (part-1)-2002		

2. Category details:

Category of the project	Category "A", Project or Activity 1(a) for Mining of Mineral
Provisions	As per EIA Notification S.O. 1533 (E), dated 14th September, 2006 and subsequent amendments
Mining lease Area (MLA) (in ha.)	329.90 Ha

3. ToR/EC Details:

ToR Proposal No.	IA/RJ/MIN/25563/2014
ToR Letter No.	J-11015/166/2014-IA.II(M)
ToR grant Date	08.10.2014
Production capacity	16,56,118 TPA

ToR corrigendum Letter No.	J-11015/166/2014-IA.II(M)
ToR corrigendum Date	23.01.2015

4. Lease Details:

Granted Prospecting Licence	Area	329.90 Ha
	Execution date	09.07.2022
	PL No.	34/2012
Validity of mine lease	5 Years	
Letter of Intent	Letter No.	Nide/P-2(A-2) Kota/Bajri/2012/3002 & SKA/baran/LOI/2021/2620
	Date	24/12/2013 & 21-12-2021

5. Mining plan details:

Mining Plan (approved by Indian Bureau of Mines / DMG)	Letter No.	SME/Kota/1409/2015
	Date	23.04.2015
	Validity	5 years
Additional information	Mining Plan has been approved by Department of Mining & Geology, Kota Circle	
Method of Mining	Opencast Semi Mechanized method	
Drilling/Blasting	Excavation	
RoM output size	0.2 mm to 10 mm	
Transportation details	Tractor/ Dumper	
Dumpers capacity	2 no. of Trucks with capacity of 10 Tonner	

6. ADS details:

The proposal was earlier considered in the 32nd EAC (Non-Coal Mining) meeting held during 30th – 31st May, 2018. Based on the detailed deliberations and discussions, the committee deferred the proposal and suggested to submit the required information/clarification. However, the ADS reply was not submitted on the Parivesh portal. The project proponent submitted the information in the PowerPoint slideshow (PPT) vide Email dated 2nd May, 2022 as sought by the EAC in the 32nd EAC (Non-Coal Mining) meeting held during 30th – 31st May, 2018 as mentioned below:

S.No.	ADS dated 13.06.2018	ADS Reply by project proponent in the PPT vide Email dated 02.05.2022
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1	Complete appraisal of the EIA/EMP report along with TOR compliance and other mitigation measures.	The Project proponent submitted that the complete appraisal of EIA/EMP done on EAC meeting held on 31st may 2018.
2	Details of Scientific Replenishment Study report needs to be presented with other requisite information.	The Project proponent submitted the details of Scientific Replenishment Study.
3	DMG, State Government to submit demarcated river stretch through latitudes and longitudes (out of the total lease) where river sand/bajri mining can be permitted based on available reserves and Original Ground Level (OGL) at each cross section in consultation with State Irrigation Department;	The Project proponent submitted that the DMG, State Govt. demarcated river stretch through latitude and longitudes (out of total lease) where river sand / Bajri mining can be permitted based on available reserves and original ground level(OGL) at each cross-section in consultation with irrigation department.
4	PP and Consultant to submit latitudes and longitudes of the identified cross section, duly authenticated by State Government, which shall be used for replenishment study in future for calculation of replenishment amount/ rate;	The Project proponent submitted the latitude and longitudes of the identified cross-section duly authenticated by state govt. which used for replenishment study and for calculation of replenishment amount/rate.
5	PP to give undertaking that only Scrapers shall be used for mining to ensure that the mining depth be maintained as 1.0 meters (max.) from Original Ground Level and No other heavy machinery like bucket excavators, JCB machines etc. shall be used which may adversely impact the aquatic biota;	The Project proponent submitted an undertaking regarding the use of scrapper for mining to ensure mining depth be maintained as 1.0 meter (max) and other heavy machinery like bucket excavators, JCB machines etc. will not be used. This may adversely impact the aquatic biota.
6	State Government of Rajasthan shall regulate the mining operations made by PP and submit report to MoEF&CC on quarterly basis. It shall also be ensured that leveled cross section is made before the onset of next rainfall	The Project proponent submitted that the mining operations suspended by Hon'ble Supreme Court thus leveled cross section not prepared and submitted before the onset of next rainfall season.

	season; and	
7	State Department of Mines & Geology and PP are required to submit District Survey Report (DSR) in line with provisions made in Ministry's notification dated 15.01.2016.	The Project proponent submitted the District Survey Report, Baran.
8	The Committee deliberated the issues and is of the view that Department of Mines and Geology, Government of Rajasthan shall first confirm whether the instant LOI/Lease is valid or not before consideration of the Proposal.	The Project proponent submitted the LOI issued by the state Govt. letter no. SKA/bara/LOI/2021/2620 dated 21.12.2021 issued by Department of Mines & Geology, Government of Rajasthan.
9	The PP is required to submit the sections clearly marking the lateral and depth extents of present ground profile as well as proposed excavation profile at individual sections. The same needs to be verified/approved by the State Mines and Geology Department, Govt. of Rajasthan.	The Project proponent submitted the Plan & Sections clearly Showing the lateral and depth extents the Material will be excavated, present ground profile as well as proposed excavation profile at individual sections duly verified/Approved by State Mines & Geology Department, Govt. of Rajasthan.
10	The PP needs to submit a database in structured tabulated form clearly mentioning the nomenclature of the section line, latitude and longitude of both the extents of section line, chainage and respective levels (RL, AMSL) of all the points taken on that section line. That means with the help of this database profile of ground at that section line can be drawn with the help of suitable CAD software.	The Project proponent submitted the database structured tabulated form clearly mentioning the nomenclature of the section line, latitude and longitude of both the extents of section line, Chainage and respective level RL of all the points taken on that section line with the help of this database profile of ground at that section line can be drawn with the help of CAD software.
11	Thus with the help of existing ground profile and proposed extents of excavation considering the stipulations of lateral extents of	The Project proponent submitted the estimation of Proposed Quantum of excavation in Tonne with the help of specific gravity verified by State

	<p>sustainable sand mining guidelines, as mentioned above, The PP shall estimate the proposed quantum of excavation in tonnages with the help of Specific Gravity verified by the State DMG between every two consecutive sections. Such estimation shall be furnished by the PP in tabular form which includes the nomenclature of section lines, area proposed for excavation, distance between two consecutive section lines, volume, specific gravity, tonnage of the mineral, maximum depth extent from existing ground profile. Respective plans shall also be submitted clearly marking the area to be excavated. The same needs to be verified by the State Mines and Geology Department, Govt. of Rajasthan. In addition to this a composite plan mentioning the above proposed excavation zones for the entire mine lease area also needs to be submitted. Thus PP needs to submit a plan clearly showing the area to be put in under excavation and no excavation zones. Respective KML files of such lateral extents of excavation and no excavation zone within ML shall also be submitted by the PP.</p>	<p>Department of Mines & Geology between every two consecutive sections done with the help of existing ground profile and proposed extents of excavation considering the stipulations of lateral extents & Sustainable Sand Mining Guidelines.</p> <p>Estimation of quantity furnish able in tabular form and includes the nomenclature of section lines, Volume, Specific gravity, tonnage of the mineral, Maximum depth extent from existing ground profile, Plans showing the area to be excavated is given in Plate No-5 in Replenishment Report. The same has been verified by State Department of Mines & Geology. A composite plan mentioning the above Proposed excavation zone for the entire Mine Lease area also attached as DRG No.-5 Annexure: 7 of replenishment report. A plan clearly showing the area to be put under excavation and no excavation zones is given at DRG No.-5 KML files (Google Image) of lateral extents of excavation and no excavation zone within ML also given as Plate No.-1 Annexure: 9 of replenishment Report.</p>
<p>12</p>	<p>PP needs to submit a plan clearly mentioning the width of river, lease boundaries, area left under safety zones as prescribed as per Sustainable Sand Mining Management Guidelines, 2016, as per statutory requirements under</p>	<p>The Project proponent submitted a plan clearly showing the width of river lease boundary area left under safety zone as prescribed as per Sustainable Sand Mining Management Guidelines 2016 and 2020</p>

	Rajasthan Minor Mineral Concession Rules and other competent authority.	
13	The plans and sections should be depicting the dates (period) of survey further in order to ensure the ground survey. PP should submit the dates (period) of survey, the model no & details of the instrument used for such survey, field recordings and observations along with name, signatures and contact details of the Surveyor explicitly be mentioned and recorded in the field book as well as in Plan & Sections.	The Project proponent submitted Plan & Sections the dates of Survey. A field Book showing the date (period) of Survey, The model Number & detail of the instruments used. Field recordings and observations along with name, Signature and contacts details of the Surveyor mentioned and recorded in the field book.
14	In addition to this soft copy (Excel or CSV file, DWG file) of all such survey recordings should also be submitted in proper order & sequence in order to cross check & verification samples checks of sections.	The Project proponent submitted the soft Copy of excel or CSV file, DWG files of all Survey recordings area submitted in proper order & sequence in order to cross check & verification samples check of samples.
15	The Committee deliberated the issues w.r.t. erection of pillars and accordingly suggested that the PP needs to erect the pillars with the following specifications and submit the details (in table form) of the same along with photographs. The specifications inter-alia are as (a) the distance between two adjacent pillars shall not be more than 100 meters; (b) the pillars shall be of square pyramid frustum shaped above the surface and cuboid shaped below the surface; (c) each pillar shall be of reinforced cement concrete; (d) the pillars shall have a base of 0.30m X 0.30m and	The Project proponent submitted that the erected pillars with the following specifications: <ul style="list-style-type: none"> i. The distance between two adjoining pillars is not more than 100 meters. ii. The pillars are of square pyramid frustum shaped above the surface & cuboid shaped below the surface. iii. Each Pillars are of Reinforced cement concrete. iv. Each pillars having base of 0.3mtrs x0.3mtrs and height of 1.30mtrs of which 0.7mtrs are above ground & 0.6mtrs below ground. v. All Pillars are painted in yellow colour and top 10cm in red by enamel paint and grouted with

	<p>height of 1.30m of which 0.70m shall be above ground level and 0.60m below the ground; (e) all the pillars shall be painted in yellow colour and the top ten cm in red colour by enamel paint and shall be grouted with cement concrete; (f) on all the pillars, distance and bearing to the forward and backward pillars and latitude and longitude shall be marked; (g) each pillar shall have serial number in a clockwise direction and the number shall be engraved on the pillars; (h) the number of pillar shall be the number of the individual pillar upon the total number of pillars in the lease; and (i) the tip of all pillars shall be a square of 15 cm on which a permanent circle of 10 cm diameter shall be drawn by paint or engraved and the actual boundary point shall be intersection of two diameters drawn at 90 degrees.</p>	<p>cement concrete.</p> <p>vi. Distance backward & forward bearing with latitude & longitude marked on the pillar.</p> <p>vii. Each Pillar are numbered in clockwise direction and number engraved on the pillar.</p> <p>viii. The Number of pillars is the number of individual pillars upon the total number of pillars in the lease.</p> <p>ix. The tip of the pillar is square of 15 cm on which a permanent Circle of 10cm diameter drawn.</p>
<p>16</p>	<p>PP shall submit the compliances as per the Ministry's Office Memorandum No. 3-50/2017-IA.III (Pt.), dated 30.05.2018 by an undertaking by way of affidavit to comply with all the statutory requirements and judgment of Hon'ble Supreme Court dated the 2nd August 2017 in Writ Petition (Civil) No. 114 of 2014 in the matter of Common Cause versus Union of India and Ors. w.r.t. judgment of Hon'ble Supreme Court dated the 2nd August 2017 in Writ Petition (Civil) No. 114 of 2014 in the matter of Common</p>	<p>The Project proponent submitted that the compliances as per the Ministry's Office Memorandum No.350/2017-IA.III (Pt.), dated 30.05.2018 by an undertaking by way of affidavit to comply with all the statutory requirements and judgment of Hon'ble Supreme Court dated the 2nd August 2017 in Writ Petition (Civil) No. 114 of 2014 in the matter of Common Cause versus Union of India and Ors. w.r.t. judgment of Hon'ble Supreme Court dated the 2nd August 2017 in Writ Petition (Civil) No. 114 of 2014 in the matter of Common Cause versus Union of India and Ors.</p> <p>Note: Out of the documents submitted by the project proponent vide letter dated</p>

	Cause versus Union of India and Ors.	07.04.2022 are in the order for example the Letter of intent vide dated 21.12.2021, Replenishment Study Report for Sand mining Project and District Survey Report of Baran District for the year 2021-2022.
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7. Observation and Recommendation of the Committee:

The proposal for Environmental Clearance was considered in the 50th EAC meeting held during 12th and 13th May, 2022. After the detailed deliberation made by the project proponent and the consultant, the Committee observed that the baseline data was more than seven years old and the supporting documents along with their annexures were not submitted as sought in the 32nd EAC (Non-Coal Mining) meeting held during 30th – 31st May, 2018. Also the submission was not according to the Sustainable Sand Mining Management Guidelines 2016 and Enforcement & Monitoring Guidelines of Sand Mining 2020. In view of the above, the committee **deferred** the proposal and sought the following information:-

- i. The project proponent needs to submit the Environmental status report of the project site after carrying out study of Air, Water (Ground water & Surface water) and Noise for 15 days period (non-monsoon season). The project proponent should submit the photographs of monitoring stations & sampling locations. The photographs should mention the date, time, latitude & longitude of the monitoring station/sampling location. In addition to this, the project proponent should submit the original test reports and certificates of the lab which will analyze the samples.
- ii. The project proponent needs to submit the action plan to carry out Scientific Replenishment Study as per the Methodology prepared by MoEF&CC along with CMPDI i.e. "Methodology for sand Replenishment Study in pursuance to Hon'ble Supreme Court of India's Order dated 11.11.2021 in S.L.P. (Civil) No. 10587 of 2019" to assess the available quantity of Bajri.
- iii. The project proponent needs to submit the action plan as per Enforcement & Monitoring Guidelines of Sand Mining 2020.
- iv. The project proponent needs to compare the current study data with the previous study data. If any changes exist, then detailed mitigation measures needs to be submitted.

- v. The project proponent needs to submit the detailed plan in tabular format (year-wise) for afforestation and green belt development in and around the mining lease. The project proponent should submit the number of saplings to be planted, area to be covered under afforestation & green belt, location of plantation, target for survival rate and budget earmarked for the afforestation & green belt development.
- vi. The project proponent needs to submit the approved modified Mining plan in accordance with the Sustainable Sand Mining Management Guidelines 2016 and Enforcement & Monitoring Guidelines of Sand Mining 2020.

Day 2: 13th May, 2022 (Friday)

2.1 Proposal for Environmental Clearance of M/s Satish Kumar Garg & Company with proposed production capacity of Quartz: 0.14 MTPA, Feldspar: 0.52 MTPA, Barites: 0.001 MTPA, Quartzite & Stone (Road Metal & Masonry Stone): 8.42 MTPA & Soil: 1.0 MTPA, (Total Excavation: 10.081 MTPA) along with 4 Mobile Crushers (4 x 300 TPH capacity) in the mine lease area of 79.32 ha, located at Village: Musnota, Tehsil: Narnaul, District: Mahendragarh, Haryana – [File. No: IA-J-11015/14/2021-IA-II(M), Proposal No: IA/HR/MIN/ 197727/2021] - Reconsideration of EC

1. The instant proposal is for reconsideration of Environmental Clearance for mining of 'Quartz, Feldspar, Barites, and Quartzite & Stone with production capacity of Quartz: 0.14 MTPA, Feldspar: 0.52 MTPA, Barites: 0.001 MTPA, Quartzite & Stone (Road Metal & Masonry Stone): 8.42 MTPA & Soil: 1.0 MTPA, (Total Excavation: 10.081 MTPA) along with 4 Mobile Crushers with (4 x 300) TPH capacity in the mine lease area of 79.32 ha, located at Village: Musnota, Tehsil: Narnaul, District: Mahendragarh, Haryana.

2. The EAC during deliberations noted the following:

The proposal was earlier considered in the 45th EAC (Non-Coal Mining) meeting held during 24th, 25th and 27th January, 2022. After detailed deliberations made by the Project Proponent and the Consultant, the Committee noted that the Kharsa no.s 599, 600, 601, 626, 627, 628, 648 & 649 at Village Musnota of the instant mine lease area falls under the Aravalli Plantation as per the list of villages/area located in Aravalli Plantation in Mahendergarh block published in the portal of Haryana Forest Department. The Committee was of the view that the instant proposal as per MoEF Notification dated 07.05.1992 falls under Aravalli range and unless the Forest Department quotes and interprets the Hon'ble Supreme Court order and excludes the Khasra Nos falling in the mine lease area, the instant proposal cannot be considered further. Therefore, the Committee deferred the proposal for want of requisite

information. Then, the Project Proponent vide letter dated 14.04.2022 submitted the information on 15.04.2022 in PARIVESH portal and accordingly the proposal was reconsidered in the 50th EAC (Non-Coal Mining) meeting held during 12th – 13th May, 2022.

Based on observation of EAC and compliance of observation of EAC made by PP, the following are detailed below:

S. No	Observation of EAC	Reply by Project Proponent
1	The Project Proponent needs to submit all the mine lease documents such as Prospecting License, Letter of Intent (LoI) and Grant of mining lease and its execution details since from the inception of the mine chronologically with the supporting documents.	PP submitted that initially mining lease was granted by Mines and Geology Department, Haryana on 29.04.2002 for Barites, Feldspar and Quartz in favor of Shri. Satish Kumar Garg & Company over an area of 79.32 ha for a period of 20 years. Further, Mines and Geology Department, Haryana has added Associated Minor Minerals (Quartzite & Stone) vide Memo no. Glg/Hy/E-2625/4245, dated 29.08.2018 and the lease period is deemed to have been extended for 50 years from 29.04.2002 to 28.04.2052. Supplementary lease deed for associated Minor Minerals (Quartzite & Stone) has been executed on 14.03.2019.
2	The Project Proponent needs to submit the letter from the APCCF, Department of Forest Haryana with specific reference to latest order of Hon'ble Supreme Court stating that the mine lease area does not fall under Aravalli range and the Kharsa no.s 599, 600, 601, 626, 627, 628, 648 & 649 does not falls under the Aravalli Plantation.	<p>PP submitted the letter from the Principal Chief Conservator of Forests, Haryana vide Lr no NT/7103 dated 31.03.2022 stating that <i>the Aravali Notification of 1992 has been made by the MoEFCC under Environment Protection Act. In Haryana, the implementation of the said Act is with the Environment Department.</i></p> <p><i>As far as whether the noted khasra nos are in Aravali Project Plantation Area or not, the position is as under</i></p> <p><i>The Hon'ble Supreme Court passed Order dated 18.03.2004 in matter of M.C. Mehta Versus Uol & Others whereby, it was directed that no mining activity is permissible in Aravalli area where plantation was done under the European</i></p>

		<p><i>Union Project. For compliance of the Order passed by Hon'ble Supreme Court, the area where plantation was done in Aravalli area under the said European Union were identified by a District Level Committee (DLC). The subject noted Khasra nos. were included in the report of DLC. Thereafter, the project proponents of noted Khasra numbers filed CWP 2628 of 2018 before the Hon'ble High Court of Punjab & Haryana. The Hon'ble High Court passed judgment in said CWP whereby' the inclusion of subject noted Khasra nos. in Aravalli Project plantation area have been negated. This imply that the said Khasra nos. are not part of the Aravalli Plantation area.</i></p> <p><i>Three no. of SLP's [PIL's] Diary Nos. 19180/2021, 14442/2021 and 23870/2021 have been filed by private persons (not by Government) whereby challenge has been made to the above said Order of Hon'ble Punjab & Hatyana High Court dated 26.04.2018 in CWP No. 2682 of 2018. However, the Hon'ble supreme court has not granted stay or nor is there any other interim order on operation of Judgment dated 26.04.2018 passed by the Hon'ble High Court.</i></p> <p><i>Thus, by virtue of Judgment of Hon'ble Punjab & Haryana High Court dated 26.04.2018 in CWP No. 2682 of 2018, the noted Khasra nos. are not in Aravali Plantation Area.</i></p> <p><i>PP also submitted the Letter from Joint Director, Director General, Environment & Climate Change Dept, Haryana vide Memo No DE&CC/2022/838 dated 07.04.2022 stating that the Aravali Notification dated 07.05.1992 is applicable only in Gurugram and Alwar District of Haryana and Rajasthan.</i></p>
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3	The Project Proponent has shown that the road network to transport the materials using the village roads i.e., Musnota-Panchoota, Gagunta-Golwa & Galgata and part of the road falls under the forest land i.e., 0.9350ha and will be constructed through Aravalli Plantation kharsa no. 514, 578, 651, 672, 673 and 689 of Villages Musnota. Hence, PP needs to obtain the Forest Clearance for diversion of forest land of 0.9350ha for construction of kutchcha path.	PP submitted that the updated application has been submitted to Forest Department for diversion of forest land of 2.4326 ha instead of 0.9350 ha vide proposal no FP/HR/Approach/151191/2022 dated 16.04.2022 for construction of kutchcha path. PP also submitted the copy of time line details.
4	The Committee noted that the road width of 4.5m is grossly inadequate and PP should make it to minimum 9m wherever applicable in all four evacuation routes.	PP submitted that they will construct 10 m wide road in all four evacuation routes. Application has been submitted to Forest Department for diversion of forest land of 2.4326 ha vide proposal no FP/HR/Approach/151191/2022 dated 16.04.2022.
5	The public hearing concerns raised during public hearing to be addressed with the revised budget and should be more focused on health, education and livelihood for the welfare of the local people. PP also needs to revise the EMP cost.	PP submitted that earlier public hearing budget was allocated as Rs. 1.14 Cores (Capital) and Rs. 7.0 Lakhs (Recurring) which has now been revised as Rs. 1.40 Crore (Capital) and Rs. 7.0 Lakh (Recurring).
6	The Project Proponent needs to submit the letter from the Principal Chief Conservator of Forest (PCCF) that there is no National Park, Wild Life Sanctuary, Tiger Reserves and Wildlife Corridors etc. within 10 km radius of the study area.	PPsubmitted the letter from the Principal Chief Conservator of Forests & Chief Wildlife Warden vide letter no 3185 dated 07.03.2022 stating <i>that there is No National Park, Wildlife Sanctuary, Tiger Reserves and Wildlife Corridors around 10 km radius of the project site.</i>
7	The Project Proponent submitted the list of flora and fauna in the report of Wildlife Conservation Plan and not a separate letter authenticated by Principal Chief Conservator of Forest (PCCF) submitted. Hence, the PP needs to submit the separate letter for list of flora and fauna in the 10km study	PP submitted the list of Flora and fauna authenticated from the Principal Chief Conservator of Forests & Chief Wildlife Warden vide letter no 3185 dated 07.03.2022 stating <i>that there is one Schedule-I species such as Peafowl found within 10 km radius.</i>

	area authenticated by Principal Chief Conservator of Forest (PCCF).	
8	The Project Proponent needs to submit the 500 meters Cluster Certificate obtained from State Mines and Geology in the PARIVESH portal.	PP submitted the letter from the Office of the Mines & Geology Department, Narnaul vide Lr Memo No. 5110 dated 14.01.2022 stating that <i>there is no mining lease within 500 m radius of mining lease area.</i>
9	Proposed mining area in Musnota village falls in the purview of Section 4 of Punjab Land Preservation Act. PP shall clarify the same whether the mine lease area covers under jurisdiction of Punjab or Haryana from the concern state Governments.	<p>PP submitted the copy of order of Hon'ble High Court of Punjab-Haryana order dated 15.05.2009 in the matter of CWP No.20134 of 2004 of Vijay Bansal and Others vs State Of Haryana and Others wherein it has mentioned that <i>the lands/areas forming part of the notification under section 3 of the Punjab Land Preservation Act, 1900 and in respect of which restrictions have been imposed under Section 4 of the said Act are declared to be "forest lands" for the purposes of the Indian Forest Act, 1927 and the Forest (Conservation) Act, 1980. It is, accordingly, directed that these areas shall not be used for 'non forest purposes' including the mining of 'major' or 'minor' minerals.</i></p> <p>PP also submitted that mining lease area is located at Village Musnota, Tehsil Narnaul, District Mahendragarh, Haryana for which the mining lease granted by State Govt of Haryana. Punjab Land Preservation Act, was enacted in the year 1900 for joint Punjab which also included the area of Haryana State which became separate State on 01.11.1966 on reorganization of State of Punjab which at that time included areas of Haryana as well as of Himachal Pradesh. Under Reorganization Act all law of Joint Punjab were applicable on Haryana also which were subsequently amended as per requirement by the State of Haryana.</p>
10	PP shall also submit the current status of the mine lease area as	PP has not submitted any information for the above said point in the PARIVESH

	<p>per the Revenue records and Forest records along with the supporting documents duly authenticated by the concern Revenue Department and Forest Department.</p>	<p>portal. However, during the EAC meeting held on 12th – 13th May, 2022, PP has shown the copy of Jamabandi showing that Khasra No. of mine lease falls under the Govt Waste land (Gair Mumkin Pahar) under the ownership of Gram Panchayat. Further, PP stated that with regards to Forest records letters has been submitted vide letter dated 16.09.2002, 28.10.2016 and 31.03.2022. Thereafter, PP vide email and letter dated 13.05.2022 submitted the copy of Tehsildar letter dated 05.05.2022 and the copy of Jamabandi.</p>
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3. The EAC after deliberations observed that the Project Proponent has not submitted the reply of the point no. 10 of the additional details sought by the EAC in its earlier EAC meeting held during 24th, 25th and 27th January, 2022. The Project Proponent has replied that with regards to Forest records letters has been submitted vide letter dated 16.09.2002, 28.10.2016 and 31.03.2022 and with regards to revenue records, PP has shown the letter obtained from Tehsildar vide letter dated 05.05.2022 and the copy of Jamabandi and further PP stated that the entire mine lease area of 79.32ha is a Government Waste land (Gair Mumkin Pahar). Thereafter, PP vide email and letter dated 13.05.2022 submitted the copy of Tehsildar letter dated 05.05.2022 and the copy of Jamabandi. Further, EAC also observed that as per Dy. Conservator of Forest letter dated 16.09.2002, wherein it was mentioned that the path for transportation of mineral/ore will not be near the adjoining forest area wherein the PP has submitted the updated application for diversion of forest land of 2.4326 ha instead of 0.9350 ha vide proposal no FP/HR/Approach/151191/2022 dated 16.04.2022 for construction of kutcha path through Aravalli Plantation khasra no.s of 459, 465, 466, 504, 514, 578, 650, 651, 652, 672 and 689 of Village Musnota. Accordingly, EAC decides that the project proponent shall bring alternative route for transportation of minerals.

The EAC also noted that the Special Leave Petitions SLP(C) diary no.23870 of 2021 titled Bheem Singh & Anr Vs M/s Satish Kumar Garg & Company & Ors., filed against the Project Proponent before the Hon'ble Supreme Court of India. The said SLP was listed before the Hon'ble Supreme Court on 07.01.2022, on which date the Hon'ble Supreme Court of India was pleased to issue notice in the said matter. The EAC opined that the instant matter is sub-judice which is pending before the Hon'ble Supreme Court. Further, the transportation of mineral is proposed under Aravalli plantation, the Project proponent needs to submit the plan for alternative route for transportation of minerals/ore bypassing the village road and forest area under Aravalli plantation. Therefore, the EAC **deferred** the proposal.

2.2 Proposal for Terms of Reference of M/s Sagar Cements Ltd for mining of Limestone with production capacity of 3.3 MTPA with Total Excavation 3.398 MTPA (Cement grade LS - 3.135 MTPA + Sub Grade LS (Blendable) - 0.165 MTPA + Top Soil - 0.098 MTPA) along with 1 x 1000 TPH crusher in the mine lease area of 326.58 ha, located at Pedaveedu and Mattampally Village of Mattampally Mandal Suryapet District, Telangana – [File. No: J.11015/53/2003-IA.II(M), Proposal No: IA/TG/MIN/257081/2022] - Terms of Reference (ToR)

1. Project Details:

Project Proponent	M/s Sagar Cements Ltd	
Location	Village	Pedaveedu and Mattampally
	Tehsil/Taluka	Mattampally
	District	Suryapet
	State / UT	Telangana
	Latitudes	A (16°44'21.00"N - 16°46'14.30"N) B (16°44'48.40"N - 16°44'59.90"N)
	Longitudes	A (79°51'13.00"E - 79°52'23.30"E) B (79°50'19.60"E - 79°51'3.80"E)
	Sol Toposheet No.	56/P/13 & 14
KML file	Project Proponent presented the KML file during the presentation to indicate the location of mine lease on Google Earth.	
Seismic zone	II	
Accredited Consultant and certificate no.	B.S. Envi – Tech Pvt. Ltd NABET/EIA/1922/RA 0174	

2. Category details:

Category of the project	A
General conditions	Nil
Schedule No.	1(a) Mining of Minerals
Provisions	EIA Notification, 2006 and subsequent amendments as on date
Mining lease Area (MLA) (in ha.)	326.58 ha

3. M/s Sagar Cements Ltd initially submitted the application for grant of Terms of Reference vide proposal no: IA/TG/MIN/80392/2018 dated 27.09.2018 as per the provision of S.O.1530(E) dated 06.04.2018. Then, the Ministry sought EDS on 09.10.2018. Due to delay in obtaining information from various departments, proposal was deleted from the PARIVESH portal and therefore PP again applied online for grant of Terms of Reference (ToR) vide proposal no. IA/TG/MIN/ 114695/2019 dated 17.08.2019 and submitted Form-1 & Pre-Feasibility Report along with the reply of EDS. The proposal was considered in the 13th EAC Meeting held during January 30-31, 2020

wherein “the Committee was of the view that in the instant case, PP did not obtained amendment in both the ECs after amalgamation of mining leases, PP approached the Ministry in the year 2012 but no supporting documents in this regard was submitted by PP. As this is a typical case wherein one EC was granted under EIA 1994 and another EC was granted under EIA 2006 then the combined mining lease can be considered as per provision of notification 6.04.2018 or not. There is also difficulty in ascertaining the violation of S.O. 804(E) dated 14.03.2017 and Common Cause Judgment dated 02.08.2017. The Committee was of the view that comments of Policy Sector may be sought for dealing with such type of cases. The Committee also of the view that PP should submit the communication made by the Ministry if any with respect to amalgamations of ECs and prove that production from both the mines is within the approved EC capacity. The Committee therefore deferred the proposal.

4. The proposal was again considered in the 27th EAC meeting held during 3rd - 5th February, 2021, wherein the Committee noted that the Project Proponent has not addressed any of the Additional Details Sought (ADS) points sought by the EAC during the meeting held on January 30-31, 2020 and the Committee was of the view that till the information submitted by the Project Proponent, the proposal will not be considered for grant of TOR and therefore the Committee returned the proposal in present form”. PP submitted the information vide letter no SCL:GA:2021 dated 22.02.2021.

5. The proposal was again reconsidered in the 29th EAC meeting held during 15th – 17th March, 2021. During the EAC meeting, the Project Proponent and the Consultant submitted the details of the mining leases, Consent to establishment, Consent for Operate, Environmental clearance and past production details certified from Asst Director of Mines and Geology, Suryapet. The Committee noted that the Project Proponent has applied for Revalidation of EC granted for a production of 0.8 million TPA of Limestone in an MLA 196.35 Ha dated 09.12.2004 under EIA Notification 1994 as per Ministry’s Notification vide S.O. (E) 1530, dated 06.04.2018. The Committee observed that the PP has operated the mines without obtaining EC before 09.12.2004 and also exceeded the production capacity as granted in CFO during 2001-02, 2003-04 & 2004-05. The Committee also noted that the EC for 196.27 Ha lease area was obtained under EIA 1994 and for lease area 130.30 Ha the EC was obtained under EIA notification 2006 and later on PP amalgamated the lease on 29.04.2008. The Committee felt that during the amalgamation of mining leases, PP was required to obtain fresh EC under the EIA Notification 2006 as the scope of mining was changed due to increase in mining area. Also, PP informed that they have not obtained the certified compliance report from time to time. Thus Committee was of the view that the instant case is a violation of EIA Notification 2006 and violation under the Common Cause Judgement dated 02.08.2017. The instant proposal cannot be considered as per

the Ministry's Notification S.O. 1530 dated 06.04.2018, as mining project is applicable for the mining projects, which were granted environmental clearance under the EIA Notification, 1994, and but not obtained environmental clearance for expansion/modernization/ amendment under the EIA Notification, 2006.

The following principle as approved by the Competent Authority with respect to consideration of violation cases to be followed: i. Send the matter to the Sector EAC for consideration of the case on merit. ii. Take action against the alleged violation as per law. iii. Do not wait for either the evidence of action having been started or violation proceedings to finish before taking up the case on merit. iv. The EC if given after consideration on merit would be valid from the date it is given and not with retrospective effect. For the period before it, if violation is established by the court or the competent authority, the punishment/penalty as per law would be imposed. In view of the above, Committee therefore returned the proposal in present form and asked PP to apply fresh for grant of ToR as violation proposal. Ministry may take action accordingly.

6. In view of the above, the Project Proponent submitted the fresh application for grant of Terms of Reference under violation vide proposal no: IA/TG/MIN/ 257081/2022 dated 19.04.2022 and submitted Form-1 and Prefeasibility report under the provisions of EIA Notification, 2006.

7. The details of the previous Environmental Clearance (EC) are furnished as below:

Date of application	Proposal No/File No	Details	Date of accord
28.03.2003	J-11015/ 53/2003	Environmental Clearance for expansion of limestone mining project (production enhancement from 0.48 MTPA to 0.8 MTPA) involving lease area of 196.35 ha under the provisions of EIA Notification, 1994	09.12.2004
31.10.2006	IA/AP/MIN/ 8777/2006 & J-11015/ 374/2006	Environmental Clearance for limestone production of 2.5 MTPA in limestone mine-2 of 130.23 ha under the provisions of EIA Notification, 2006	18.07.2007

8. Details of Mine lease area submitted by project proponent.

- Government of Andhra Pradesh vide G.O.Ms.No. 117, Ind. & Com. (M.II) Dept., dated 21.02.1984 have granted a Mining Lease for Limestone over an extent of

1200.00 Acres in Sy.No.540, 541 of Pedaveedu Village, Huzurnagar Taluga, Nalgonda District for a period of (20) years in favour of M/s. Sagar Cements Limited. The Mining Leases deed was executed by the Assistant Director of Mines Geology, Nalgonda on 18.08.1984 and the lease was in force upto 17.08.2004.

- Government of Andhra Pradesh vide G.O.Ms.No.316 Ind. & Com. (M.I) Dept., dated 22.11.1997 have granted another Mining Lease for Limestone over an extent of Acres 212.00 Gts in Sy.No.541 of Pedaveedu Village, Mattampally Mandal, Nalgonda District for a period of (20) years in favour of M/s. Sagar Cements Limited. The Mining Leases deed was executed by the ADM&G, Nalgonda on 10.02.1998 and the lease in force upto 09.02.2018.
- Thereafter, the Government of Andhra Pradesh vide G.O.Ms.No.372 Ind. & Com. (M.I) Dept., dated 07.09.2002 have accorded permission to M/s. Sagar Cements Limited under Rule 29 of M.C.Rules, 1960 for part surrender of an extent of 927.00 Acres out of 1200.00 Acres granted in Sy.No.540/A part and 540/B of Pedaveedu Village and also accorded permission under Rule 38 of M.C.Rules, 1960 for clubbing of above two Mining Leases for Limestone over an extent of 485.00 Acres in Sy.No.540/A & 541 of Pedaveedu Village, Mattampally Mandal, Nalgonda District with the co-terminus period of 1" lease i.e. upto 17.08.2004. The Mining Leases deed was executed by the ADM&G, Nalgonda on 11.10.2002.
- The Government of Andhra Pradesh vide G.O.Ms.No.139 Ind. & Com. (M.I) Dept., dated 02.07.2004 have granted 1stRenewal of Mining Lease for Limestone over an extent of 485.00 Acres in Sy.Nos. 540/A & 541 of Pedaveedu Village, Mattampally Mandal, Nalgonda District in favour of M/s.Sagar Cements Limited for a further period of (20) years w.e.1.18.08.2004. The same lease deed was executed by the ADM&G, Miryalaguda on 06.08.2004 and the lease is in force upto 17.08.2024.
- Again, the Government of Andhra Pradesh vide G.O.Ms.No.310 Ind. & Com. (M.I) Dept., dated 13.11.2006 have granted another Mining Lease for Limestone over an extent of Ac. 321.32 Gts. (130.23 Hectares) in Sy.No.202, 203, 269/P, 270, 271, 273 to 295, 296/P, 297, 305/P, 306/P and 307/P of Pedaveedu Village Mattampally Mandal, Nalgonda District for a period of (20) years in favour of M/s. Sagar Cements Limited. The Mining Lease deed was executed by the ADM&G, Nalgonda on 09.03.2007 and the lease is valid upto 08.03.2027.
- Further, the Government of Andhra Pradesh have accorded permission for Amalgamation of existing (2) Mining Leases held by M/s. Sagar Cements Limited into a single Mining Lease for Limestone over a total extent of Ac. 806.32 Gts., (i.e. Acres 485.00 + 321.32 Acres) in Sy.Nos.540/A, 541, 202, 203, 269/P, 270, 271, 273 to 295, 296/P, 297, 305/P, 306/P, 307/P of Pedaveedu Village,

Mattampally Mandal, Nalgonda District under Rule 38 of M.C.Rules, 1960 with the co-terminus period of first lease i.e. upto 17.08.2024. The Mining Lease deed was executed by the Assistant Director of Mines & Geology, Nalgonda on 29.04.2008 and the lease in force up to 17.08.2024.

- Then, the Government of Telangana vide G.O Ms. No. 75 dated 26.08.2017 have extended the mine lease period up to 50 years from the date of original grant of mining lease i.e., from 18.08.1984 to 17.08.2034. The Mining Lease deed was executed by the Assistant Director of Mines & Geology, Nalgonda on 10.02.2018 for a period of 50 years from the date of original grant of mining lease i.e., from 18.08.1984 to 17.08.2034.
- PP submitted the supplementary lease deed made on 10th Feb, 2018 between Governor of Telangana and M/s Sagar Cements Limited for a period of 50 years from 18.08.1984 to 17.08.2034.

9. Land Use/Land Cover of the Mine lease area:

Private land	130.31
Government land	196.27
Total Mining lease area (MLA)	326.58
Private land for crusher, workshop & other infrastructure outside the MLA	Nil

10. Details of Mine Plan: -

Modified Mining Plan along with Progressive Mine Closure Plan approved by Indian Bureau of Mines (IBM)	Letter No.	AP/NLG/MP/Lst-53/HYD
	Dated	21.03.2018
	Mineral	Limestone
	Mine lease area	326.58 Ha
	Period	2018-19 to 2022-23
Mining Parameters	Quantitative Description	
Method of Mining	Fully mechanized opencast mining method.	
Mineable Reserves	89.662 Million Tonnes	
Life of mine	27 years	
Bench Height	9.0 m	
Overall pit slope	60°	
Drilling/Blasting	Deep-hole drilling & blasting and use of HEMM with Excavator & Dumper combination.	
RoM output size	-75mm	
Transportation details	Limestone will be transported to the crusher by 60 tons tippers dumpers from the mine pit to crusher and then to the cement plant (through closed conveyor of 1km length) for its captive use.	

Crusher	PP vide email and letter ref: SCL/SCLM/MoEFCC/EC/2022 dated 13.05.2022 submitted that capacity of the crusher is 1 x 1000 TPH.
Dumpers capacity	60 tonnes
Topsoil/OB/Waste	PP reported that total quantity of 1.42 million cum of top soil is estimated to be generated at the end of mine life, from the mining activity which will be used for afforestation of 7.5 m barrier zone and 50 m nala safety barrier zone. No over burden will be generated and subgrade generated will be consumed by blending with high grade.
Depth of Mining	24 m bgl (54 m RL)
Water table	30 m bgl
Groundwater intersection	PP reported that there will be no intersection of ground water table.

11. Water requirement:

Total water requirement	100m ³ /day	Fresh water	-
		Treated water	-
Source	existing mine pits of M/s Sagar Cements Limited		
Permission	Not Applicable		

12. Nearest village / town/ highway/railway station / water bodies:

Particulars	Villages	Distance & Direction
Nearest Village	Mattampalli	1.3 km, N
Nearest Town	Suryapet	47.0 km, NNW
Nearest Highway	National Highway (NH-65) - Hyderabad - Vijayawada -	28.4 km, NE
Interstate Boundary	Telangana - Andhra Pradesh	4.0 km - SSW
Nearest Railway Station	Damarcherla (Vishnupuram) RS	24.0 km, W
Nearest water bodies	Mamidimotra Vagu Ura Vagu Krishna River	0.8 km, W 2.9km, SE 3.9 km, S

13. The Project Proponent reported that there is no forest land involved in the mine lease area. PP also reported that the following Reserve Forest such as Sultanpur RF: 0.8 km, S, RF near to mine: 1.3 km, S, Pittalsarikota RF: 3.2 km, SE, RF near to mine: 5.0 km, E, Gurrambodu RF: 5.1 km, W, Regulagadda RF: 5.2 km, S, Yepalmadhavaram RF: 5.5 km, E, Tangeda RF: 5.9 km, S, Chintalapalem RF: 6.3 km, SE, Vajralgani RF: 7.3 km – W, Gundlapahad RF: 9.3 km, W and Uranam RF: 9.5 km, SE are found within 10 km radius of the study area. Further, PP submitted that there is no National Park, Wildlife Sanctuary, Elephant/Tiger Reserve, Biosphere Reserves within 10 km radius of the study area.

14. The Project Proponent reported that the afforestation was done in Nala, Road and safety barriers of 7.5m barrier zone over an area of 26.5 Ha.

15. The Project Proponent submitted that Consent for Establishment was granted by Andhra Pradesh Pollution Control Board vide Lr No.194/PCB/CFE/ RONLG/HO /2007 dated 03.07.2007 for limestone production of 3.3 MTPA. PP also Consent for Operation for Renewal was granted by Andhra Pradesh Pollution Control Board on 02.04.2016 for limestone production of 3.30 MTPA which was valid up to 31.01.2021.

16. The Project Proponent submitted the past production details certified by Asst. Director of Mines and Geology, Suryapet for the period 1984-85 to 2019-2020. PP also submitted that spate production details is available till 2008 for both the mines and thereafter combined production details is available as the mining leases were amalgamated. As per the past production details submitted by the PP, it was observed that the PP has been operating the mines without obtaining EC before 09.12.2004 and also PP exceeded the production capacity of CFO of 4,80,000 MT during the year 2001-02 (4,99,375 MT), 2003-04 (6,05,500 MT) & 2004-05 (5,57,000 MT). It is also observed that the PP obtained EC for 196.35 Ha on 09.12.2004 under EIA 1994 and for lease area 130.28 Ha on 18.07.2007 under EIA notification 2006 and later on PP amalgamated both the mine leases on 13.03.2008. During the amalgamation of mining leases, PP was required to obtain fresh EC under the EIA Notification 2006 wherein the PP has been operating the mines from the year 2008 after amalgamation of both the mines without obtaining EC which is a violation of the EIA Notification, 2006. PP also submitted the Affidavit cum Undertaking bearing AC 112117 dated 25.01.2021 that "M/s Sagar Cements Ltd shall comply with all the statutory requirements and Judgement of Hon'ble Supreme Court dated 02.08.2017 in Writ Petition Civil No. 114/2014 in the matter of Common cause versus Union of India and Others".

17. Court case details:

Court Case	No litigation is pending against the project.
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18. Rehabilitation & Resettlement:

R & R details	No R& R issues
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19. Details of Project Cost and Employment:

Particulars	Budget (Rs. In Crore)
Project Cost	0.5
Employment	82 Persons

20. The EAC after deliberations observed that the EC for 196.35 Ha lease area was obtained on 09.12.2004 under EIA 1994 and for lease area 130.28 Ha the EC was obtained on 18.07.2007 under EIA notification 2006 and later on PP amalgamated both the mine leases on 13.03.2008. The EAC opined that during the amalgamation of mining leases, PP was required to obtain fresh EC under the EIA Notification 2006 as the scope of mining was changed due to increase in mine lease area. The EAC also noted that the PP has been operating the mines without obtaining EC before 09.12.2004 and also PP exceeded the production capacity of CFO of 4,80,000 MT during the year 2001-02 (4,99,375 MT), 2003-04 (6,05,500 MT) & 2004-05 (5,57,000 MT). Thus, the EAC was of the view that the instant case is a violation of EIA Notification 2006 and violation under the Common Cause Judgement dated 02.08.2017. Therefore, the EAC **recommended** the proposal for grant of Terms of Reference under Ministry's SOP for identification and handling of violation cases under EIA, notification 2006 dated 07.07.2021 for M/s Sagar Cements Ltd for mining of Limestone with production capacity of 3.3 MTPA with Total Excavation 3.398 MTPA (Cement grade LS - 3.135 MTPA + Sub Grade LS (Blendable) - 0.165 MTPA + Top Soil - 0.098 MTPA) along with 1 x 1000 TPH crusher in the mine lease area of 326.58 ha, located at Pedaveedu and Mattampally Village of Mattampally Mandal, Suryapet District, Telangana for undertaking detailed EIA/EMP study subject to the following specific conditions in addition to the standard ToR conditions applicable for non-coal mining projects:-

- i. The State Government/SPCB to take action against the project proponent under the provisions of the Environment (Protection) Act, 1986 and further no consent to operate to be issued till the project is granted EC. If the action has been initiated by the State/State PCB, status of the same may be submitted to the Ministry.
- ii. The Project Proponent shall be required to submit a bank guarantee equivalent to the amount of remediation plan and natural and community resource augmentation plan with the SPCB prior to the grant of EC. The quantum shall be recommended by the EAC and finalized by the regulatory authority. The bank guarantee shall be released after successful implementation of the EMP, followed by recommendations of the EAC and approval of the regulatory authority.
- iii. Assessment of ecological damage with respect to air, water, land and other environmental attributes. The collection and analysis of data shall be done by an environmental laboratory duly notified under the Environment (Protection) Act, 1986, or an environmental laboratory accredited by NABL, or a laboratory of a Council of Scientific and Industrial Research (CSIR) institution working in the field of environment.

- iv. Preparation of EMP comprising remediation plan and natural and community resource augmentation plan corresponding to the ecological damage assessed and economic benefits derived due to violation.
- v. The remediation plan and the natural and community resource augmentation plan to be prepared as an independent chapter in the EIA report by the accredited consultants.
- vi. Details of benefit accrued during the violation period along with capital cost of the project is to be submitted.
- vii. The Action Plan on the compliance of the recommendations of the CAG as per Ministry's Circular No. J-11013/71/2016-IA.I (M), dated 25.10.2017 needs to be submitted at the time of appraisal of the project and included in the EIA/EMP Report.
- viii. The Project Proponent needs to carry out the Public Hearing as per provisions of EIA Notification, 2006. PP should also submit the time bound action plan on concerns of the public with a timeline of 3 years through proper separate budget for the concerns of the local people in terms of health care facilities for COVID, betterment of schools nearby and to facilitate the online education system by providing Wi-Fi connectivity, smart classrooms and desktops/tablets, infrastructure, and environment protection.
- ix. The Project Proponent should prepare the EMP considering the scenario of pollution to be generated for normative and peak total excavation for assessing air and noise pollution.
- x. The Project Proponent needs to carry out the cumulative impact assessment by considering all the mining activity including the transport scenario of the operating mines in the study area and should indicate the capacity of the each mine considered for predication of air quality modeling. The control case and worst-case scenario needs to be demonstrated with controlling factor and GLCs values for all the pollutants needs to be clearly mentioned. The input parameters used for the modeling also needs to be submitted.
- xi. The Project Proponent needs to submit the detailed greenbelt/plantation plan in tabular format (year wise for entire life of mine) with proper time bound capital and recurring cost. Entire plantation shall be carried out by planting the seedling of 10 ft height with at least 90% survival rate and the entire peripheral plantation, safety barrier plantation and gap plantation shall be completed within 6 months from the start of mining operations. The casualties of each year shall be replaced every year with new saplings and such number of saplings shall not be

counted in the number of saplings proposed to plant in that year. PP shall undertake the progressive bench plantation up to HFL for eco restoration of water bodies. An undertaking in this regard needs to be submitted by PP at the time of appraisal of EC.

- xii. The Project Proponent needs to submit the latest satisfactory certified EC compliance report by the Ministry's Integrated Regional Office at the time of appraisal of EC.
- xiii. PP shall conduct drone survey of the mine lease area and buffer area and submit during the appraisal for EC.

2.3 Proposal for amendment in ToR dated 22.03.2022 of M/s SAIL for Expansion of Barsua-Taldih-Kalta Iron Mines from 8.05 MTPA to 16.0 MTPA (ROM), Topsoil/OB/IB: 3.92 MTPA and handling 2.0 MTPA Sub-grade dumps/Tailings (Total excavation: 22.0 MTPA) and installation of new Dry Processing Plants of 7.0 MTPA for Taldih & 4.0 MTPA for Kalta and augmentation of existing 3.5 MTPA Barsua Beneficiation Plant along with adequate loading, siding and other associated infrastructure in the amalgamated mine lease area of 2558.551 ha [FC available 2419.871 ha + Non-Forest land 138.710 ha] out of 2564.323 ha, located at Tantra & Bahamba Villages and Toda RF in Koira Tehsil, Sundargarh District, Odisha – [File. No: J-11015/351/2006-IA.II(M), Proposal No: IA/269345/2022] - Amendment in ToR

1. Project Details:

Project Proponent	M/s Steel Authority of India Limited (SAIL)	
Location	Village	Tantra & Bahamba Villages and Toda RF
	Tehsil/Taluka	Koira Tehsil
	District	Sundargarh
	State / UT	Odisha
	Latitudes	21°49'25.43880"N to 21°59'50.88516"N
	Longitudes	85°07'43.73832"E to 85°13'53.48136"E.
	Sol Toposheet No.	73G/1 (F45N1)
KML file	Project Proponent presented the KML file during the presentation to indicate the location of mine lease on Google Earth.	
Seismic zone	II	
Accredited Consultant and certificate no.	Nil	

2. Category details:

Category of the project	A
General conditions	Nil

Schedule No.	1(a) Mining of Minerals & 2(b) Mineral beneficiation
Provisions	EIA Notification, 2006 and subsequent amendments as on date
Mining lease Area (MLA) (in ha.)	amalgamated mine lease area of 2558.551 ha [FC available 2419.871 ha + Non-Forest land 138.710 ha] out of 2564.323 ha

3. The Project Proponent obtained Terms of Reference vide Lr No. J-11015/351/2006-IA.II(M) dated 22.03.2022 for expansion of Barsua-Taldih-Kalta Iron Mines from 8.05 MTPA to 16.0 MTPA (ROM), Topsoil/OB/IB: 3.92 MTPA and handling 2.0 MTPA Sub-grade dumps/Tailings (Total excavation: 22.0 MTPA) and installation of new Dry Processing Plants of 7.0 MTPA for Taldih & 4.0 MTPA for Kalta and augmentation of existing 3.5 MTPA Barsua Beneficiation Plant along with adequate loading, siding and other associated infrastructure in the amalgamated mine lease area of 2558.551 ha [FC available 2419.871 ha + Non-Forest land 138.710 ha] out of 2564.323 ha, located at Tantra & Bahamba Villages and Toda RF in Koira Tehsil, Sundargarh District, Odisha.

4. Now, the Project Proponent requested for amendment in TOR dated 22.03.2022 in subject and preamble only. PP submitted that Barsua, Taldih and Kalta Iron mines are in amalgamated mining lease covering 2564.323 ha. The loading, siding and associated infrastructure facilities of Barsua – Taldih – Kalta Iron mines are located at Barsua Valley and Roxy Rly Siding outside the amalgamated mining lease area since inception. However, in approved TOR, it is inadvertently mentioned that these loading, siding and associated infrastructure are in the amalgamated mine lease area and the same is requested to be amended in the approved TOR dated 22.03.2022. PP also submitted that in addition to the amalgamated mine lease, M/s SAIL has area over 164.626 ha at Barsua Valley adjoining to ML for installation of allied mining facilities & Barsua Railway Siding. Iron ore from Barsua & Taldih is dispatched from the Barsua Railway Siding. Further, SAIL has Roxy Railway Siding for dispatch of iron ore from Kalta Iron Mine located outside ML at road distance of 18 km via NH – 520. PP sought for amendment in TOR dated 22.03.2022 as mentioned below: -

S. No	Reference as per TOR letter dated 22/03/2022	Details as mentioned in TOR dated 22.03.2022	Amendment Sought by PP in TOR dated 22.03.2022	Reason for change
1	Subject, Page No. 1	“Proposal for Terms of Reference of M/s SAIL for expansion of Barsua-Taldih-Kalta Iron mines	"Proposal for Terms of Reference of M/s SAIL for expansion of Barsua-Taldih-Kalta Iron Mines	The loading, siding and associated infrastructure

S. No	Reference as per TOR letter dated 22/03/2022	Details as mentioned in TOR dated 22.03.2022	Amendment Sought by PP in TOR dated 22.03.2022	Reason for change
		<p>from 8.05 MTPA to 16.0 MTPA (ROM), Topsoil/OB/IB: 3.92 MTPA and handling 2.0 MTPA Sub-grade dumps/Tailings (Total excavation : 22.0 MTPA) and installation of new Dry Processing Plants of 7.0 MTPA for Taldih & 4 MTPA for Kalta and augmentation of existing 3.5 MTPA Barsua Beneficiation Plant along with adequate loading, siding and associated infrastructure in the amalgamated mine lease area of 2558.581 ha [FC available 2419.871 ha + non-forest land 138.710 ha] out of 2564.323 ha, located at Tantra & Bahamba Villages and Toda RF under Koira Tehsil, Sundargarh District, Odisha – Terms of Reference (Expansion) regarding”</p>	<p>from 8.05 MTPA to 16.0 MTPA (ROM), Topsoil/OB/1B: 3.92 MTPA and handling 2.0 MTPA Sub-grade dumps/Tailings (Total excavation: 22.0 MTPA) and installation of new Dry Processing Plants of 7.0 MTPA for Taldih & 4 MTPA for Kalta and augmentation of existing 3.5 MTPA Barsua Beneficiation Plant in the amalgamated mine lease area of 2558.581 ha [FC available 2419.871 ha + non-forest land 138.710 ha] out of 2564.323 ha located at Tantra & Bahamba Villages and Toda RF in Koira Tehsil, along with adequate loading, siding, part of tailings dam and other associated infrastructure facilities in the acquired areas of SAIL outside the ML area, in Sundargarh District, Odisha"</p>	<p>facilities of Barsua – Taldih – Kalta Mines are located outside the amalgamated mining lease area which was submitted in the online Form – 1 as well as in PFR.</p>
2	Para 1, Page No. 1	<p>“This has reference to the online proposal no. IA/OR/MIN/241335/2021 of M/s SAIL for expansion of Barsua-Taldih-Kalta Iron mines from 8.05 MTPA to 16.0 MTPA (ROM), Topsoil/OB/IB: 3.92</p>	<p>This has reference to the online proposal no. IA/OR/MIN/241335/2021 of M/s SAIL for Expansion of Barsua-Taldih-Kalta Iron Mines from 8.05 MTPA to 16.0 MTPA (ROM), Topsoil/OB/1B: 3.92 MTPA and handling</p>	<p>As per the covering letter submitted along with online Form – 1 & PFR.</p>

S. No	Reference as per TOR letter dated 22/03/2022	Details as mentioned in TOR dated 22.03.2022	Amendment Sought by PP in TOR dated 22.03.2022	Reason for change
		MTPA and handling 2.0 MTPA Sub-grade dumps/ Tailings (Total excavation: 22.0 MTPA) and installation of new Dry Processing Plants of 7.0 MTPA for Taldih & 4.0 MTPA for Kalta and augmentation of existing 3.5 MTPA Barsua Beneficiation Plant along with adequate loading, siding and associated infrastructure in the amalgamated mine lease area of 2558.581 ha [FC available 2419.871 ha + non-forest land 138.710 ha] out of 2564.323 ha, located at Tantra & Bahamba Villages and Toda RF under Koira Tehsil, Sundargarh District, Odisha”	2.0 MTPA Sub-grade dumps/ Tailings (Total excavation: 22.0 MTPA) and installation of new Dry Processing Plants of 7.0 MTPA for Taldih & 4 MTPA for Kalta and augmentation of existing 3.5 MTPA Barsua Beneficiation Plant in the amalgamated mine lease area of 2558.581 ha [FC available 2419.871 ha + non-forest land 138.710 ha] out of 2564.323 ha located at Tantra & Bahamba Villages and Toda RF in Koira Tehsil, along with adequate loading, siding, part of tailings dam and other associated infrastructure facilities in the acquired areas of SAIL outside the ML area, in Sundargarh District, Odisha	
3	Para 5 of ToR	“The Project Proponent submitted that the Barsua Iron Mine (Southern part) and Kalta Iron Mine (Northern part) are in operation since 1960 and 1966 respectively. The Taldih Iron Mine (Middle part) has started production in the year 2016. There were two contiguous mining leases namely ML - 130 (main	The Project Proponent submitted that the Barsua Iron Mine (Southern part) and Kalta Iron Mine (Northern part) are in operation since 1960 and 1966 respectively. The Taldih Iron Mine (Middle part) has started production in the year 2016. There were two contiguous mining leases namely ML - 130 (main	As submitted in PFR & Form -1.

S. No	Reference as per TOR letter dated 22/03/2022	Details as mentioned in TOR dated 22.03.2022	Amendment Sought by PP in TOR dated 22.03.2022	Reason for change
		<p>iron ore mining lease) and ML-162 (for infrastructure) under the Barsua-Taldih-Kalta Iron Mines. The mining lease for ML-130 (2486.383 ha) was granted on 06.01.1960 for a period of 30 years and subsequently it has renewed & lease deed for the 2nd renewal period has been executed on 13.11.2014 having validity up to 05.01.2030. The associated infrastructure facilities of Barsua Iron Mine are located in another adjoining mining lease viz ML - 162 (77.94 ha), which was granted on 29.04.1960 and subsequently it has also been renewed as well as extended the lease period up to 28.04.2030 and supplementary lease deed was executed on 24.09.2016. Based on the SAIL's application, Dept. of Steel and Mines, Govt. of Odisha vide proceeding No. IV(B)SM-03/2020/10418/SM, Bhubaneswar, dated 02.12.2020 amalgamated the contiguous Mining Leases viz ML - 130 (2486.383 ha) and ML -</p>	<p>iron ore mining lease) and ML - 162 (for infrastructure) under the Barsua-Taldih-Kalta Iron Mines. The mining lease for ML-130 (2486.383 ha) was granted on 06.01.1960 for a period of 30 years and subsequently it has renewed & lease deed for the 2nd renewal period has been executed on 13.11.2014 having validity up to 05.01.2030. The associated infrastructure facilities of Barsua Iron Mine are located in another adjoining mining lease viz ML - 162 (77.94 ha), which was granted on 29.04.1960 and subsequently it has also been renewed as well as extended the lease period up to 28.04.2030 and supplementary lease deed was executed on 24.09.2016. Based on the SAIL's application, Dept. of Steel and Mines, Govt. of Odisha vide proceeding No. IV(B)SM-03/2020/10418/SM, Bhubaneswar, dated 02.12.2020 amalgamated the contiguous Mining Leases viz ML - 130 (2486.383 ha) and ML - 162 (77.94 ha) covering total area of 2564.323 ha</p>	

S. No	Reference as per TOR letter dated 22/03/2022	Details as mentioned in TOR dated 22.03.2022	Amendment Sought by PP in TOR dated 22.03.2022	Reason for change
		162 (77.94 ha) covering total area of 2564.323 ha having validity up to 05.01.2030. Lease deed of the amalgamated lease has been executed on 30.03.2021”.	having validity up to 05.01.2030. Lease deed of the amalgamated lease has been executed on 30.03.2021. In addition to the amalgamated mining lease, surface right area over 164.626 ha at Barsua Valley adjoining to the mining lease was also obtained for installation of various allied mining facilities such as ore processing plant, ore stock piles, loading bins, railway siding, tailing pond etc. and being used since inception of the mines. Loading & siding facilities for dispatch of iron ore from Kalta Iron Mine are located at Roxy Siding outside the lease area.	
4	Para 17, Pg No 7	“The proposal for Terms of Reference (Expansion) was considered in the 46 th EAC (Non-Coal Mining) meeting held during 15 th -17 th February, 2022. After detailed deliberations made by the Project Proponent and the Consultant, the Committee recommended the proposal for grant of Terms of Reference (ToR) for M/s SAIL for	The proposal for Terms of Reference (Expansion) was considered in the 46 th EAC (Non-Coal Mining) meeting held during 15 th - 17 th February, 2022. After detailed deliberations made by the Project Proponent, the Committee recommended the proposal for grant of Terms of Reference (ToR) for M/s SAIL for expansion of Barsua-Taldih-Kalta Iron mines from 8.05	As per the details submitted in the online Form – 1 as well as in PFR.

S. No	Reference as per TOR letter dated 22/03/2022	Details as mentioned in TOR dated 22.03.2022	Amendment Sought by PP in TOR dated 22.03.2022	Reason for change
		<p>expansion of Barsua-Taldih-Kalta Iron mines from 8.05 MTPA to 16.0 MTPA (ROM), Topsoil/OB/IB: 3.92 MTPA and handling 2.0 MTPA Sub-grade dumps/Tailings (Total excavation: 22.0 MTPA) and installation of new Dry Processing Plants of 7.0 MTPA for Taldih & 4.0 MTPA for Kalta and augmentation of existing 3.5 MTPA Barsua Beneficiation Plant along with adequate loading, siding and associated infrastructure in the amalgamated mine lease area of 2558.581 ha [FC available 2419.871 ha + non-forest land 138.710 ha] out of 2564.323 ha, located at Tantra & Bahamba Villages and Toda RF under Koira Tehsil, Sundargarh District, Odisha for undertaking detailed EIA/EMP study”.</p>	<p>MTPA to 16.0 MTPA (ROM), Topsoil/OB/IB: 3.92 MTPA and handling 2.0 MTPA Sub-grade dumps/Tailings (Total excavation: 22.0 MTPA) and installation of new Dry Processing Plants of 7.0 MTPA for Taldih & 4 MTPA for Kalta and augmentation of existing 3.5 MTPA Barsua Beneficiation Plant in the amalgamated mine lease area of 2558.581 ha [FC available 2419.871 ha + non-forest land 138.710 ha] out of 2564.323 ha located at Tantra & Bahamba Villages and Toda RF in Koira Tehsil, along with adequate loading, siding, part of tailings dam and other associated infrastructure facilities in the acquired areas of SAIL outside the ML area, in Sundargarh District, Odisha for undertaking detailed EIA/EMP study.</p>	
5	Para 18 of ToR:	“The matter was examined in the Ministry in accordance with the Environmental Impact Assessment Notification, 2006 and further amendments thereto and the undersigned is	The matter was examined in the Ministry in accordance with the Environmental Impact Assessment Notification, 2006 and further amendments thereto and the undersigned is	As per the details submitted in the online Form – 1 as well as in PFR.

S. No	Reference as per TOR letter dated 22/03/2022	Details as mentioned in TOR dated 22.03.2022	Amendment Sought by PP in TOR dated 22.03.2022	Reason for change
		<p>directed to say that the Ministry of Environment Forest & Climate Change after accepting the recommendation of EAC during its 46th EAC (Non-Coal Mining) meeting held during 15th-17th February, 2022 hereby accords Specific and Standard Terms of Reference (ToR) for M/s SAIL for expansion of Barsua-Taldih-Kalta Iron mines from 8.05 MTPA to 16.0 MTPA (ROM), Topsoil/OB/IB: 3.92 MTPA and handling 2.0 MTPA Sub-grade dumps/ Tailings (Total excavation: 22.0 MTPA) and installation of new Dry Processing Plants of 7.0 MTPA for Taldih & 4.0 MTPA for Kalta and augmentation of existing 3.5 MTPA Barsua Beneficiation Plant along with adequate loading, siding and associated infrastructure in the amalgamated mine lease area of 2558.581 ha [FC available 2419.871 ha + non-forest land 138.710 ha] out of 2564.323 ha, located at Tantra & Bahamba Villages and Toda RF under Koira Tehsil, Sundargarh District, Odisha for</p>	<p>directed to say that the Ministry of Environment Forest & Climate Change after accepting the recommendation of EAC during its 46th EAC (Non-Coal Mining) meeting held during 15th-17th February, 2022 hereby accords Specific and Standard Terms of Reference (ToR) for M/s SAIL for expansion of Barsua-Taldih-Kalta Iron mines from 8.05 MTPA to 16.0 MTPA (ROM), Topsoil/OB/IB: 3.92 MTPA and handling 2.0 MTPA Sub-grade dumps/ Tailings (Total excavation: 22.0 MTPA) and installation of new Dry Processing Plants of 7.0 MTPA for Taldih & 4 MTPA for Kalta and augmentation of existing 3.5 MTPA Barsua Beneficiation Plant in the amalgamated mine lease area of 2558.581 ha [FC available 2419.871 ha + non-forest land 138.710 ha] out of 2564.323 ha located at Tantra & Bahamba Villages and Toda RF in Koira Tehsil, along with adequate loading, siding, part of tailings dam and other associated infrastructure facilities</p>	

S. No	Reference as per TOR letter dated 22/03/2022	Details as mentioned in TOR dated 22.03.2022	Amendment Sought by PP in TOR dated 22.03.2022	Reason for change
		undertaking detailed EIA/EMP study”.	in the acquired areas of SAIL outside the ML area, Sundargarh District, Odisha for undertaking detailed EIA/EMP study.	

5. The EAC after deliberations noted that the project proponent obtained the Terms of Reference vide letter dated 22.03.2022 for expansion of Barsua-Taldih-Kalta Iron Mines from 8.05 MTPA to 16.0 MTPA (ROM), Topsoil/OB/IB: 3.92 MTPA and handling 2.0 MTPA Sub-grade dumps/Tailings (Total excavation: 22.0 MTPA) and installation of new Dry Processing Plants of 7.0 MTPA for Taldih & 4.0 MTPA for Kalta and augmentation of existing 3.5 MTPA Barsua Beneficiation Plant along with adequate loading, siding and other associated infrastructure in the amalgamated mine lease area of 2558.551 ha [FC available 2419.871 ha + Non-Forest land 138.710 ha] out of 2564.323 ha, located at Tantra & Bahamba Villages and Toda RF in Koira Tehsil, Sundargarh District, Odisha. The Committee observed that the PP wants amendment in subject and preamble of ToR dated 22.03.2022. The Committee observed that the loading, siding and associated infrastructure facilities of Barsua – Taldih – Kalta Iron mines are located at Barsua Valley and Roxy Rly Siding outside the amalgamated mining lease area since inception. Thus, the Committee was of the view that the proposal to amend the adequate loading, siding, part of tailings dam and other associated infrastructure facilities in the acquired areas of SAIL outside the mine lease area does not fall under the purview of EAC (Non-Coal Mining) and hence the proposal for amendment in ToR cannot be accepted. Therefore, the Committee **returned the proposal in present form.**

2.4 Proposal for Terms of Reference of M/s Odisha Mining Corporation Limited for Gandhamardan–A Iron Ore Mine for enhancement of Iron Ore production capacity from 0.35 MTPA to 2.88 MTPA [Total excavation: 4.71 MTPA (2.88 MTPA (ROM) + 1.38 MTPA (Waste Rock) +0.45 MTPA (Top Soil)] along with Crushing plant (1 x 250 TPH existing and 1 x 250 TPH proposed) and Screening plant (existing 2 x 200 TPH will be replaced by new 6 x 250 TPH) in the mine lease area of 618.576 ha, located at villages Suakati, Daonra & Gandhamardan PRF, Telkoi Tehsil, Keonjhar District, Odisha – [File. No: J-11015/1088/2007-IA.II(M), Proposal No: IA/OR/MIN/240540/2021] - Terms of Reference (Expansion)

The proposal for Terms of Reference (Expansion) was earlier considered in the 43rd EAC (Non-Coal Mining) meeting held during 14th – 16th December, 2021. After detailed deliberations made by the Project Proponent and the Consultant, the Committee on

viewing the KML file noted that the PP has been mining in common mine boundary of Gandhamardan – A (instant mine) and Gandhamardan – B (adjacent mine); PP has also been stacking 1.34 million tonnes (Mt) of rejects generated in Gandhamardan – B (adjacent mine) in Gandhamardan – A (instant mine) mine lease area. The Committee also noted that in PFR (Pg. No 17), PP submitted that stacks are located in mineralised areas and will be re-handled in phases and shifted to Gandhamardan – B (adjacent mine) mine lease area so that the quarries in Gandhamardan – A can be expanded. The Committee was of the view that dumping of waste outside the mining lease area is not permitted by Hon'ble Supreme Court judgment order dated 21.04.2014 in Writ Petition (Civil) No. 435 of 2012 in the matter of Goa Foundation Versus Union of India & Ors and also PP has been operating the mine in common mine boundary of Gandhamardan – A (instant mine) and Gandhamardan – B (adjacent mine) without obtaining amendment in EC and the Committee opined that the instant proposal attracts the violation of the EIA Notification, 2006. The committee informed to project proponent to submit all the relevant documents for examination of violation in the Ministry. The Committee was of the view that the proposal for replacement of screening plant was not convincing. The Committee also noted that PP has not submitted the certified EC compliance report by IRO. Therefore, the Committee deferred the proposal and was of the view that the proposal may be considered only after submission of requisite information.

2. The EAC during the meeting noted that the Member Secretary informed the EAC that the Project Proponent vide email dated 27.04.2022 informed that the compliance to the information sought by the EAC in its 43rd EAC (Non-Coal Mining) meeting held during 14th - 16th December, 2021 is still under progress and also PP requested the Ministry to place the proposal subsequent to the reply of Additional Details Sought (ADS) in respect of the aforementioned proposal. Therefore, the EAC **deferred** the proposal.

2.5 Proposal for Terms of Reference of M/s Tata Steel Limited for Joda West Iron and Manganese Mine for enhancement of production of Manganese Ore from 1.80 LTPA [2.118 LTPA (ROM) to 8.0 LTPA (ROM)] and production of Iron Ore (New Product) for 20.0 LTPA (ROM) with overburden generation of 76.62 LTPA (Peak), Topsoil of 0.058 LTPA (peak) & Total excavation of 10.4678 MTPA (Peak) along with mobile dry processing unit of 2 x 300 TPH in the mine lease area of 1437.719 ha, located at villages Joda, Kamarjoda, Banspani, Bhuyan Roida, Bichhakundi Tehsil Barbil, Sub Division Champua, District Keonjhar, Odisha – [File. No: J-11015/86/2004-IA.II(M), Proposal No: IA/OR/MIN/266173/2022] - Terms of Reference (Violation)

1. Project Details:

Project Proponent	M/s Tata Steel Limited
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Location	Villages	Joda, Kamarjoda, Banspani, Bhuyan Roida, Bichhakundi
	Tehsil/Taluka	Barbil Sub Division Champua
	District	Keonjhar
	State / UT	Odisha
	Latitudes	21°58'00" N to 22°02'00" N
	Longitudes	85°23'00" E to 85°26'00" E
	Sol Toposheet No.	73 G/5 and 73 F/8
KML file	Project Proponent presented the KML file during the presentation to indicate the location of mine lease on Google Earth.	
Seismic zone	II	
Accredited Consultant and certificate no.	Vimta Labs Ltd NABET/EIA/1922/RA0226	

2. The Project Proponent earlier applied for ToR vide proposal no: IA/OR/MIN/79094/2018 dated 16.09.2018 as per the Ministry's notification S.O 1530 (E) dated 06.04.2018 and submitted the Form-I and Prefeasibility report and the proposal was considered in the 37th EAC meeting held during October 23-24, 2018 wherein the Committee was of the view that this is a case of violation of the EIA Notification as PP has mined out the iron ore without the EC during 2003-04 (29,050 TPA), 2004-05 (88,370 TPA), 2005-06 (29,954 TPA) & 2006-07 (3,705 TPA) and the same may dealt by violation notification S.O.804(E) dated 14.03.2017. The Committee deferred the proposal. The EAC suggested that the Ministry may examine the issues. In this regard, Ministry vide it's letter no. J-11015/115/2018-IA.II (M) dated 14.12.2018 requested the Dept. of Environment, Govt. of Odisha to initiate credible action against the PP under sec. 19 of the Environment (Protection) Act, 1986. Then the proposal was delisted on 25.03.2019 and then the Project Proponent relisted the proposal on 15.03.2021 from the PARIVESH portal and informed the Ministry vide MGM/P&E/148/2021 vide letter dated 12.03.2021 that based on the direction from MoEF&CC letter dated 14.12.2018, a case bearing no 2CC 127/2013 of 2013 dated 05.08.2013 was initiated in the court of JMFC Barbil, Dist Keonjhar Odisha and communicated by Department of Forest & Environment, Govt of Odisha to MoEF&CC, New Delhi vide letter no ENV-I24/2018/05/F&E, dt 01.01.2019.

3. The proposal was again considered in the 30th EAC meeting held during 6th - 8th April, 2021. Based on the presentation made by the Project Proponent and discussion held in the 30th EAC meeting during 6th - 8th April, 2021; the Committee noted that this is a violation case of the EIA Notification 2006 and subsequent amendments, as PP has mined out the iron ore without the EC during 2003-04 (29,050 TPA), 2004-05 (88,370 TPA), 2005-06 (29,954 TPA) & 2006-07 (3,705 TPA) and the proposal was considered

in the 37th EAC meeting held during October 23-24, 2018 and the credible action has been already taken. PP again relisted the same proposal which was earlier submitted under Ministry Notification S.O 1530 (E) dated 06.04.2018.

The following principle as approved by the Competent Authority with respect to consideration of violation cases to be followed: i. Send the matter to the Sector EAC for consideration of the case on merit. ii. Take action against the alleged violation as per law. iii. Do not wait for either the evidence of action having been started or violation proceedings to finish before taking up the case on merit. iv. The EC if given after consideration on merit would be valid from the date it is given and not with retrospective effect. For the period before it, if violation is established by the court or the competent authority, the punishment/penalty as per law would be imposed. In view of the above, Committee was of the view that PP should apply a fresh application with facts and figures mentioning the case of violation as 'Yes' in the Form 1 for consideration of Terms of Reference (ToR) for violation proposal and the same was agreed by the PP. The Committee therefore returned the proposal in present form.

4. As per the recommendation of 30th EAC meeting held during 6th - 8th April, 2021, the Project Proponent submitted the fresh proposal for grant of Terms of Reference (ToR) under violation vide online proposal no. IA/OR/MIN/266173/2022 dated 07.04.2022 and submitted Form1 and Prefeasibility report under the provisions of EIA Notification, 2006. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals and falls under Category "A" as the mining lease area is greater than 250ha and appraised at the Central level.

5. The Project Proponent submitted that initially Environmental Clearance was granted vide Ministry's letter No. J-11015/86/2004-IA.II(M) dated 13.09.2005 to enhance production of iron ore from 0.45 LTPA to 1.80 LTPA involving a lease area of 1437.71 ha under the provisions of EIA Notification, 1994. Further, the Ministry, vide letter J-11015/86/2004-IA.II(M) dated 07.02.2016 has issued the corrigendum w.r.t. name of mineral from Iron Ore to Manganese Ore.

6. The Project Proponent submitted that the mining lease for Iron & Manganese ore over an area of 12.17 Sq Miles was granted and executed on 17.01.1933 in favour of M/s TISCO for a period of 30 years from 17.01.1933 to 16.01.1963 including other two Tata Steel leases of Khondbond & Katamati. The 1st renewal of mining lease for Iron & Manganese was granted in favour of M/s TISCO Ltd for a period of 20 years from 17.01.1963 to 16.01.1983 over the same area. The 2nd renewal of mine lease was granted for a period of 20 years w.e.f. 17.01.1983 to 16.01.2003 vide Govt Order dated 24.12.1983 over an area of 1437.719 ha and lease deed was executed on 27.10.1984 and registered on 27.11.1984. The PP filed application for 3rd renewal of the mining lease on 07.12.2001 for a period of 20 years from 17.01.2003 to 16.01.2023 for Iron

&Manganese over an area of 1437.719 ha which is before one year prior to the expiry of the 2nd RML period i.e., 16.01.2003. Further, PP submitted that the 3rd renewal of mining lease has been approved in principle by State Govt. of Odisha, vide letter no. IV(A)SM-17/2006-6523/SM, dated 20.09.2010 & by Central Govt, vide letter no. 5/100/2010-M-IV, dated 08.12.2010. Express Order passed by Government of Odisha, vide letter no. SM- SM-III(A) 14/2006/4068, dated 31.05.2014 over an area 1437.719 ha applied for renewal. Govt. of Odisha, Steel & Mines Department vide Lr No. III(A) SM-14/20063308/SM/ Bhubaneswar, dated 18.04.2015 extended the validity period of the above mining lease over 1437.719 ha under section 8A of the MMDR Act, 1957 as amended by the MMDR Amendment Act, 2015 from 17.01.2003 to 31st March, 2030. Supplementary lease deed for Joda West Iron and Manganese Mine was executed on 06.05.2015 vide e-registration no. 11031500229 for the period upto 31.03.2030.

7. The Project Proponent submitted the Approval of Modification of Review of Mining Plan of Joda West Iron & Mn. Mine along with Progressive Mine Closure Plan (PMCP) approved by Indian Bureau of Mines (IBM) vide letter no. MRMP/A/10-ORI/BHU/2020-21 dated 06.08.2020 for the period upto 31.03.2023.

8. Details of Mine Plan:

- The Project Proponent submitted that opencast mechanized method of mining will be adopted. Overburden and ROM are being removed by using shovel-dumper combination.
- PP reported that the Reserves & Resources (as on 01.04.2020) for Iron Ore is 69.85 Million Tonnes and Manganese Ore is 5.626 Million Tonnes.
- PP submitted that for Manganese Ore at the proposed maximum rate of ROM excavation during the plan period 2020-23 (i.e. 8.0 LTPA), the anticipated life of mine is about 5 years by considering the reserves and resources available as on 01.04.2020 and for Iron Ore at the proposed maximum rate of ROM excavation during the plan period 2020-23 (i.e. 20.0 LTPA), the anticipated life of mine is about 29 years by considering the reserves and resources available as on 01.04.2020. However, since the validity of lease is till 31-03-2030 thus conceptual plan and end of life for this project shall be 8 years i.e., till 31-03-2030.
- The proposed Iron ore quarry will have the maximum bench height of 10m & width of 10- 12m during the mining plan period. Shovels of up to 1.6 Cu.M capacities and dumpers of up to 35 ton capacities are proposed to be deployed.
- The blasted ore shall be handled by Shovel-Dumper combination and transported to either ore stock piles or directly fed to the mobile crushing plant for dry processing. Similarly, the overburden will be stored in designated overburden dump. During the plan period, one Iron ore pit namely South Pit have been proposed within the diverted forest land during 2022-23.

- The Mineral Reject (45 - 58% Fe Content) of Iron ore excavated with ROM will be stacked at designated place. Similarly, the Mineral Reject (Iron Ore Fines) generated during dry processing will be stored at Mineral Storage area.
- For Manganese, The ROM excavated from quarry is shifted to sorting yard for mechanized screening by dumpers. After dressing and sorting, different grades of ore are kept separately at sorting yard to prevent contamination. Mineral rejects generated during dressing and sorting is transported to separate places for its storage for future use.
- Mineral fines generated during dressing and sorting are kept at sorting yard and dispatched to different parties when there is a market demand.
- The different quality of finished ore is then loaded manually to the dumpers and transported to stacking ground for stacking the ore in regular geometrical shapes and samples are collected and analyzed at our laboratory. Then removal permission is obtained from Mining & Geology Department of State Government after stack verification. Thereafter, the stacks are dispatched to designated place as mentioned in the ore removal permission obtained.
- Transportation of ore and overburden within the mining area shall be through dump trucks. Finished ore from stack yard after sorting and grading shall be transported from the lease to the Railway siding by trucks on road.
- PP vide letter ref no. MGM/P&L/ENV/207/22 dated 13.05.2022 submitted that the iron ore will be processed through mobile dry processing units only for crushing for sizing and screening. Dry processing unit having 2 x 300 TPH of crushing and double deck vibrating screening arrangement will be used for processing of Iron Ore. PP also submitted the flowsheet of dry processing unit.

9. The Project Proponent submitted that presently, the peak water demand of the mine is 146.0 KLD for ground water. Apart from this, around 100.0 KLD of surface water sourced from Kundra Nala/Sona River is used for haul road dust suppression. With the expansion of the mine, it is envisaged that the peak water demand will increase by additional 25 to 30 KLD for surface water. At present Groundwater table has not been intersected at any of the pits however as the mine is excavated deeper then localized water table at D-Quarry is expected to be intercept. PP submitted the agreement bearing no 50AA 199/64 made on 16.12.2021 between M/s Tata Steel Limited and the Governor of Odisha represented by Superintending Engineer for supply of water for the purpose of industrial/domestic use for drawal of 3.70 cu.sec/month for a period of 12 months with effective from 02.09.2021. PP also submitted the NOC for Groundwater abstraction vide NOC. CGWA/NOC/MIN/REN/ 1/2021/5996 for abstraction of freshwater of 146.0 m³/day which is valid from 23.07.2020 to 22.07.2022.

10. The Project Proponent submitted that the company has developed greenbelt and afforestation over overburden dumps, avenue areas over 69.73 ha (As on 01.04.2020)

by planting around 2.85 Lakh nos of saplings (Since 2004-05). In addition to this, an area of 35.116 Ha is developed as safety zone wherein around 90,000 saplings have been planted since 2004-05. In order to support the greenbelt development activities, a centralised poly house/nursery (2000 sq.mtr) was developed at Bichakundi Village in Sep'2019 for propagation of around 1 Lakh saplings/year from 25-30 different native varieties of forestry species with project investment of Rs.28 Lacs.

11. The Project Proponent reported that the total mine lease area is 1437.719 Ha, out of which Forest land is 1246.522 Ha (Reserve Forest: 505.392 ha, Khesra Forest: 43.867 ha, DLC Forest: 618.054 ha & Sabik Forest: 79.239 ha) and Non-Forest Land is 191.167 Ha. PP submitted that the Stage-II FC granted over an area of 436.678 ha by MoEF vide letter F.No. 8-89/2004-FC, Dt.10.08.2007. Two Diversion Proposal were filed for diversion of balance forest area within Joda West Iron & Manganese Mine i.e. over an area of 730.635 ha of balance forest land and 79.239 ha of non-forest land recorded as forest as on 25.10.1980 (Sabik Forest). The diversion proposal over 730.635 ha of balance forest land submitted on-line on 25.11.2015 and the hard copy of the said proposal was submitted in the office of Add. P.C.C.F, Odisha on 08.12.2015, the said proposal has been assigned State Serial No. OR-O85/2015. Similarly, the diversion proposal of the Sabik Forest land over 79.239 ha submitted on-line on 20.06.2016 and the hard copy of the said proposal was submitted in the office of Add. P.C.C.F, Odisha on 01.07.2016, the said proposal has been assigned State Serial No. OR-O58/2016. Both the diversion proposals are under active consideration with the State Government. PP also submitted that Reserve Forests such as Baitarini (within ML area), Siddhamath (0.2 km, NW), Karo (9.2 km, NW), Thakurani (2.2 km, NE), Chamakpur (4.3km, E) and water bodies such as Baitarini (3.5km, E), Sona River (along the SW Lease Boundary), Tapadihi Nallah (6.9km, W), Kundra Nallah (7.0km, NE), Kakarpani Nallah (5.6 km SW), Mahadeva Nallah (8.8km, NE), Dalko Nallah (2.8km, SE) are found within 10km radius of the study area.

12. The Project Proponent submitted the Approval of Site-Specific Wildlife Conservation plan approved by PCCF (Wildlife) & Chief Warden, Odisha vide letter no. 7726/ 1 WL-SSP-93/2015 dated 31.08.2015 with a budget of Rs 1130.08 Lakhs in respect of Joda West Iron & Manganese mines. PP also submitted that there is no National Park, Wildlife Sanctuary, Eco-sensitive area, Protected areas within 10km radius of the study area.

13. The Project Proponent submitted the past production details duly authenticated from the Office of the Deputy Director of Mines, Joda Circle vide Lr. No. 3879/Mines dated 19.09.2018 for the year 1993-94 to 2017-18, Office of the Joint Director of Mines vide Lr. No. 1785/Mines dated 31.03.2021 for the year 2018-19 to 2019-2020 and Office of the Joint Director of Mines vide Lr. No. 4181/Mines dated 20.07.2021 for the year

2020-21. Based on the production details provided by the Deputy Director of Mines, Joda Circle, District Keonjhar, Govt. of Odisha, the production of manganese ore is within the EC capacity; However, the PP has mined out the Iron Ore without the EC during 2003-04 (29,050 TPA), 2004-05 (88,370 TPA), 2005-06 (29,954 TPA) & 2006-07 (3,705 TPA). PP has never taken the EC for iron ore mining. PP reported that demand was raised by the Deputy Director of Mines, Joda Circle, Dist. – Keonjhar vide letter No. 4142/ Mines dated 02.09.2017 amounting of Rs. 47,09,19,071.00/- (Rupees Forty-Seven Crores Nine Lakh Nineteen Thousand Seventy-One only) on or before 31.12.2017 in pursuance to the para 225 of the order dated 02.08.2017 of Hon'ble Supreme Court in WPC No. 114/2014. Also, demand was raised vide letter no.5182/ Mines, dated 23.10.2017 amounting of Rs. 2,64,74,469/- (Rupees Two Crore Sixty-Four Lakh(s) Seventy-Four Thousand Four Hundred Sixty-Nine Only) towards compensation under section 21(5) of MMDR Act, 1957 for production made in excess of lower of the approved limits under Mining Plan & Consent to Operate. Also, Demand was raised vide letter no. 5146/Mines dated 23.10.2007 amounting of Rs 27,19,547 (Rupees Twenty-Seven Lakhs Nineteen Thousand Five Hundred Forty-Seven only) towards the compensation under Section 21(5) of MMDR act, 1957 for production without the Forest Clearance as rationalized by the CEC, in pursuance to the para 225 of the Order dated 02.08.2017 of Hon'ble Supreme Court in WPC No. 114/2014. Further the Demand was revised to NIL after noticing anomalies in production figures vide letter no. 6305/Mines dated 23.12.2007. Further, PP informed that the in compliance to the order of the Hon'ble Supreme Court dated 02.08.2017 in WPC No. 114/2014, the project proponent has paid the compensation amount of Rs. 47,09,19,071.00/- (Rupees Forty-Seven Crores Nine Lakh Nineteen Thousand Seventy-One only) on date 22.12.2017 being the price thereof as compensation under Section 21(5) of MMDR Act, 1957 for alleged production without/in excess of the Environment clearance as rationalized by the CEC as per the demand Notice No. 4142/Mines dated 02.09.2017 issued by the Deputy Director of Mines, Joda Circle, District-Keonjhar. PP also submitted the No Objection Certificate (NOC) from the Directorate of Mines, Odisha vide Lr No. MX-III (d)-59/2018 7008/DM dated 11.10.2018 in confirmation of payment made in with the judgment of Hon'ble Supreme Court of India passed on 02.08.2017 in Writ Petition Civil No. 114/2014 and this certificate is issued for processing of ToR/EC. PP also submitted the Affidavit in a Non- Judicial Stamp Paper vide 33AA 497206 to undertake that Tata Steel Limited would comply with all the statutory requirements and Judgement of Hon'ble Supreme Court on dated 02.08.2017 in WPC No. 114/2014 in the matter of Common cause versus Union of India and Ors.

14. The Project Proponent submitted the Consent to Operate issued by the State Pollution Control Board, Odisha vide Consent Order No: 4234/IND-I-CON-186 dated 17.03.2022 for production of 0.18 MTPA of Manganese Ore and operation of stationery

screening plant 1 x 70 TPH and the consent order is valid for the period upto 31.03.2026.

15. The Project Proponent submitted that the no Rehabilitation & Resettlement (R&R) Plan is required as no displacement of people is proposed for the expansion of mining project.

16. The Project Proponent submitted that a case bearing no 2CC 127/2013 of 2013 dated 05.08.2013 was initiated in the court of JMFC Barbil, Dist Keonjhar Odisha. PP also submitted that for the demand towards compensation under section 21(5) of MMDR Act, 1957 for production made in excess of lower of the approved limits under Mining Plan & Consent to Operate, the user agency took the shelter of Revision Cell of Ministry of mines, Government of India vide RA No. 22(59)2017 of 2017 & the Revisionary Authority directed the State Government not to take any coercive measures to recover the amounts specified in the impugned orders.

17. Details of project cost and employment:

Particulars	Budget (Rs. In Crore)
Project Cost	Rs. 269.0
Employment	Existing: 528 persons Additional: 215 persons After expansion: 743 persons

18. The EAC after deliberations noted that the instant proposal is a violation case of the EIA Notification 2006 and subsequent amendments as the Project Proponent has mined out the Iron Ore without the EC during 2003-04 (29,050 TPA), 2004-05 (88,370 TPA), 2005-06 (29,954 TPA) & 2006-07 (3,705 TPA). Therefore, the EAC **recommended** the proposal for grant of Terms of Reference under Ministry's SOP for identification and handling of violation cases under EIA, notification 2006 dated 07.07.2021 for M/s Tata Steel Limited for Joda West Iron and Manganese Mine for enhancement of production of Manganese Ore from 1.80 LTPA [2.118 LTPA (ROM) to 8.0 LTPA (ROM)] and production of Iron Ore (New Product) for 20.0 LTPA (ROM) with overburden generation of 76.62 LTPA (Peak), Topsoil of 0.058 LTPA (peak) & Total excavation of 10.4678 MTPA (Peak) along with mobile dry processing unit of 2 x 300 TPH in the mine lease area of 1437.719 ha, located at villages Joda, Kamarjoda, Banspani, Bhuyan Roida, Bichhakundi Tehsil Barbil, Sub Division Champua, District Keonjhar, Odisha for undertaking detailed EIA/EMP study. In addition to Standard Term of Reference for non-coal mining, along with the recommendation made by NEERI in its carrying capacity study for Odisha, the Committee also prescribed the following specific terms of reference for this project: -

- i. Ministry vide its letter no. J-11015/115/2018-IA.II (M) dated 14.12.2018 requested the Dept. of Environment, Govt. of Odisha to initiate credible action against the project proponent under section 19 of the Environment (Protection) Act, 1986. Further no consent to operate to be issued till the project is granted EC. The action initiated by the State Govt./State PCB, status of the same may be submitted to the Ministry.
- ii. The Project Proponent shall be required to submit a bank guarantee equivalent to the amount of remediation plan and natural and community resource augmentation plan with the SPCB prior to the grant of EC. The quantum shall be recommended by the EAC and finalized by the regulatory authority. The bank guarantee shall be released after successful implementation of the EMP, followed by recommendations of the EAC and approval of the regulatory authority.
- iii. Assessment of ecological damage with respect to air, water, land and other environmental attributes. The collection and analysis of data shall be done by an environmental laboratory duly notified under the Environment (Protection) Act, 1986, or an environmental laboratory accredited by NABL, or a laboratory of a Council of Scientific and Industrial Research (CSIR) institution working in the field of environment.
- iv. Preparation of EMP comprising remediation plan and natural and community resource augmentation plan corresponding to the ecological damage assessed and economic benefits derived due to violation.
- v. The remediation plan and the natural and community resource augmentation plan to be prepared as an independent chapter in the EIA report by the accredited consultants.
- vi. Details of benefit accrued during the violation period along with capital cost of the project is to be submitted.
- vii. The Action Plan on the compliance of the recommendations of the CAG as per Ministry's Circular No. J-11013/71/2016-IA.I (M), dated 25.10.2017 needs to be submitted at the time of appraisal of the project and included in the EIA/EMP Report.
- viii. The Project Proponent needs to carry out the Public Hearing as per provisions of EIA Notification, 2006. PP should also submit the time bound action plan on concerns of the public with a timeline of 3 years through proper separate budget for the concerns of the local people in terms of health care facilities for COVID, betterment of schools nearby and to facilitate the online education system by

providing Wi-Fi connectivity, smart classrooms and desktops/tablets, infrastructure, and environment protection.

- ix. The Project Proponent should monitor the water quality at the river and also sediment water quality with specific reference to Iron and Manganese.
- x. The Project Proponent needs to monitor the ambient air quality at Village Joda, nearest receptors, predominant downwind direction and at other sensitive receptors. Accordingly, PP shall propose to install Continuous Ambient Air Quality Monitoring Station within certain timeline.
- xi. The Project Proponent should prepare the EMP considering the scenario of pollution to be generated for normative and peak total excavation for assessing air and noise pollution.
- xii. The Project Proponent needs to carry out the cumulative impact assessment by considering all the mining activity including the transport scenario of the operating mines in the study area and should indicate the capacity of the each mine considered for predication of air quality modeling. The control case and worst-case scenario needs to be demonstrated with controlling factor and GLCs values for all the pollutants needs to be clearly mentioned. The input parameters used for the modeling also needs to be submitted.
- xiii. The Project Proponent needs to revise the distance of the safety zone from 50m to 100m all along the mine lease boundary. Dumping should be 300m away from river. Hence, the Project Proponent needs to submit the map demarcating the safety zone, location of dumps, mineralized and non-mineralized zone and other surface features in the vicinity of the mine lease area.
- xiv. The Project Proponent needs to carry out the detailed hydro geological study by specifically addressing the issues of inundation of water from river into mine and surface runoff from mine into river and accordingly river conservation plan needs to be submitted all along the stretch of its mine lease boundary. PP should also address the protection measures to be taken to prevent silt runoff from Iron and Manganese mine into river water by proper buffer zone plantation, creation of protection bund with adequate clearance from HFL.
- xv. The Project Proponent needs to study the traffic density and carrying capacity of the road and should include the same in the EIA/EMP report. PP should also explore the possibility of having dedicated Road/Over Land Belt Conveyor (OLBC) for transportation.

- xvi. The Project Proponent needs to submit the engineering design for garland drains, check dams, check filters and embankment and its efficacy to mitigate the potential impact of water body.
- xvii. As the ratio of over burden to the mineral is very large almost 5 times, the Project Proponent needs to submit the engineering design for garland drains, management of dump, check dams, check filters and embankment and its efficacy to mitigate the potential impact.
- xviii. The Project Proponent needs to submit the plantation schedule around the mine periphery, closed dump areas, around the crusher plant and as well as in buffer zone as a part of the EMP for public concerns.
- xix. The Project Proponent needs to submit the plan for removal of dwelling units in phased manner from the mine lease area.
- xx. The Project Proponent needs to submit the details of payment of Net Present Value (NPV) with the supporting documents at the time of appraisal of EC.
- xxi. The Project Proponent needs to submit the latest satisfactory certified EC compliance report by the Ministry's Integrated Regional Office at the time of appraisal of EC.
- xxii. PP shall conduct drone survey of the mine lease area and buffer area and submit during the appraisal for EC.

2.6 Proposal for Terms of Reference of M/s Rekh chand Jain for mining of Limestone in Chhote Kadma Limestone Mine with production capacity of 20500.05 TPA in the mine lease area of 2.80 ha, located at Village- Chhote Kadma, Tehsil- Darbha (Jagdalpur), District- Bastar, Chhattisgarh – [File. No: IA-J-11015/35/2021-IA-II(M), Proposal No: IA/CG/MIN/267318/2022] - Reconsideration of Terms of Reference (Violation)

1. Project Details:

Project Proponent	M/s Rekh chand Jain	
Location	Village	Chhote Kadma
	Tehsil/Taluka	Darbha (Jagdalpur)
	District	Bastar
	State / UT	Chhattisgarh
	Latitudes	18°57'52.30547"N to 18°58'21.38681"N
	Longitudes	81°50'56.22542"E to 81°51'11.172849"E
	Sol Toposheet No.	65F/13

KML file	Submitted in PARIVESH portal
Seismic zone	II
Accredited Consultant and certificate no.	P and M Solutions NABET/EIA/1922/IA0053

2. Category details:

Category of the project	A
General conditions	Mining lease area located at distance of approx. 4.14 km, SE from Kanger valley National Park and 1.82 km from Eco Sensitive Zone boundary
Schedule No.	1(a) Mining of Minerals
Provisions	EIA Notification, 2006 and subsequent amendments as on date
Mining lease Area (MLA) (in ha.)	2.80 ha

3. The proposal was earlier considered in the 33rd EAC meeting held during 13th to 16th July, 2021. The Committee opined that SOP dated 7.07.2021 was issued by the Ministry for identification and handling of violation cases under EIA, 2006 has been stayed by the Madurai bench of Hon'ble High Court of Madras vide order dated 15.07.2021. The Committee noted that the instant proposal is located at a distance of 4.14 km, SE from Kanger Valley National Park which is notified by Ministry's Notification S.O 3653(E) dated 10.10.2019. The Committee also observed that the PP made presentation using KML file for showing the location of Kanger Valley National Park by drawing the boundary of the Eco Sensitive Zone (ESZ) and informed that the mine lease area is located 2.8km, NW away from the Eco Sensitive Zone (ESZ). Therefore, the Committee was of the view that the submission made by the PP needs to be authenticated by the Competent Authority in the State along with the authenticated location map and the same was agreed by PP and therefore the Committee returned the proposal in present form and asked Ministry to take action against Project Proponent under E(P)A,1986.

4. Now, the Project Proponent again submitted a fresh application vide proposal no. IA/CG/MIN/267318/2022 dated 11.04.2022 along with the information sought by the EAC in its 33rd EAC meeting held during 13th to 16th July, 2021 and accordingly the proposal was reconsidered in the 50th EAC (Non-Coal Mining) held during 12th -13th May, 2022 wherein the PP submitted the following: -

S. No	Observation of EAC	Reply by PP
1	The Committee also observed that the PP made presentation using KML file for showing the location of Kanger Valley National Park by drawing the boundary of the Eco Sensitive Zone (ESZ) and	PP submitted the letter obtained from the Office of the Director Kanger Valley National Park, Jagdalpur (Chhattisgarh) vide letter dated 28.08.2021 wherein it

	informed that the mine lease area is located 2.8km, NW away from the Eco Sensitive Zone (ESZ). Therefore, the Committee was of the view that the submission made by the PP needs to be authenticated by the Competent Authority in the State along with the authenticated location map.	was mentioned that the minimum distance of the mine from the Eco Sensitive Zone (ESZ) is 1.82 km. PP also submitted the Google Map certified by PCCF (Wildlife)/ Chief Wildlife Custodian showing the distance of the mine from Eco Sensitive Zone boundary.
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5. The Ministry of Environment, Forest and Climate Change vide Lr No. F.No. J-11015/35/2021-IA.II(M) dated 24.09.2021 issued show cause notice under section 5 of the Environment (Protection) Act, 1986 to show cause within 15 days of receipt of this notice. The instant mine lease is operating from 2002 onwards without NBWL clearance and Environmental Clearance as required under EIA Notification, 1994/2006.

6. Lease Details:

S.no	Grant of mine lease	Date of the grant	Name of the Mineral	Period of Grant	Granted by	Mine lease area in Ha
1	Grant of mining lease vide Lr No. F-2-385/96/12, Raipur	17.05.2002	Limestone	20 years	Govt. of Chhattisgarh	2.80
2	Extension of mining lease vide No.74/ Mineral/ Kh.4/ B.P./2021 Jagdalpur,	05 01.2022	Limestone	50 years	Office of the Collector (Mineral Branch) Jagdalpur, District Bastar (Chhattisgarh)	2.80

7. Details of executed Mine leases:

S.no	Date of grant of Lease execution	Period of Grant		Details
		From	To	
1	Date of entering into original lease deed.	10.06.2002	09.06.2022	Lease deed executed on 10.06.2002

8. Land Use/Land Cover of the mine lease area:

Private land	Nil
Government waste land	2.80 Ha

Total Mining lease area (MLA)	2.80 Ha
Private land for crusher, workshop & other infrastructure outside the MLA	Nil

9. Mining plan:

Review of Mining Plan along with Progressive Mine Closure Plan approved by Indian Bureau of Mines	Letter No.	Bastar/Chup/khayo-1301/2021-Raipur/451 dated
	Date	07.01.2022
	Mineral	Limestone
	Mine lease area	2.80 Ha
	Validity	2022-23 to 2026-27
Mining Parameters	Quantitative Description	
Method of Mining	Opencast semi mechanized method with drilling & blasting	
Total Geological Reserves	7,35,903.20 Tons	
Total Mineable Reserves	5,84,909.11 Tons	
Life of mine	30 Years	
Bench Height	3.0m	
Bench Width	More than height	
Individual bench slope	60°	
Overall pit slope	60°	
Drilling/Blasting	Drilling operation will be done with the help of Jack hammer drill with compressed air.	
Transportation details	Transportation will be done via an approach road of 0.20 km which further connects NH-16 in NE direction.	
Dumpers capacity	20 T	
Waste generation and management	PP submitted that during the proposed plan period total 12,685.79 tons of soil/OB/waste (2935.79 tons of soil/OB & 9750 tons of mineral rejects) will be generated. Generated OB/ waste will be stacked along the lease boundary in the mining limit & used for the plantation & backfilling in the 7.5m barrier zone about total area of 0.04 ha with dump height 3.0 m.	
Ultimate depth of mining	567 mRL	
Groundwater table	20 to 25 m bgl	
Groundwater intersection	The expected depth of the proposed quarry will be up-to 567 mRL which will not encounter the water table	

10. Water requirement:

Total water requirement	4.5 KLD	Drinking & Domestic	2.5 KLD
		Green belt	1.5 KLD
		Dust suppression	0.5 KLD
Source	Bore well and mine sump		

11. Nearest village / town/ highway/railway station / water bodies:

Particulars	Particular's Name	Distance & Directions
Nearest Village	Bade Arapur	4.5 km, NE
Nearest Town	Darbha (Jagdalpur) Town	~21 km, NE
Nearest Highway	National Highway 16	4.0 km, N
Nearest Railway Station	Tokapal Railway Station	5.0 km, NE
Nearest Water Body	Kanger river	2.0 km, SW

12. The Project Proponent submitted the letter obtained from DFO vide Lr no Ma.Chi/ 1571, Jagdalpur dated 01.05.2001 that this proposal does not attract the Forest (Conservation) Act, 1980. PP reported that mine lease area is located at distance of approx. 4.14 km, SE from Kanger valley National Park and submitted the letter from the Office of the Park Premises Officer, Kotmasar vide Lr No. 1041,/Jagdalpur dated 09.12.2019 and Lr. No. Ta.Adhi./2942, Jagdalpur Dated 12.12.2019 issued from the Office of the Director, Kanger Ghati National Park, Jagdalpur wherein it has mentioned that the distance of the instant mining lease is 4.14 km from Kanger Ghati National Park. PP submitted the letter obtained from the Office of the Director Kanger Valley National Park, Jagdalpur (Chhattisgarh) vide letter dated 28.08.2021 wherein it was mentioned that the minimum distance of the mine from the Eco Sensitive Zone (ESZ) is 1.82 km. Final Notification declaring Eco Sensitive Zone around [Kanger Valley Wildlife Sanctuary](#) published vide Ministry's Notification S.O. 3653(E) dated 10th October, 2019. As per the Notification, the Eco-Sensitive Zone shall be to an extent of 0 (zero) to 6.6 kilometres around the boundary of Kanger Valley National Park and the area of the Eco-Sensitive Zone is 166.00 square kilometres. Extents of Eco-Sensitive Zone at different direction of the National Park are North: 4.5 km, North- East: 4.6 km, East: 0 km, South-East: 2.4 km, South 4.8 km, South-West 3.9 km, West 6.6 km and North-West 2.6 kilometre.

13. The Project Proponent submitted that proposed area for greenbelt/plantation will be 0.9 ha. About 400 Plants are proposed to be planted during plan period. Plantation will be done in barrier zone (0.115 ha) of the lease area. Plantation of wide leaf trees, tall grasses around the quarry pits, on OB dumps and also around the offices are proposed. At the end of life of mine a total of 2300 saplings will be planted. PP earmarked a budget of Rs 11.5 lakhs towards development of green plant & plantation till the end of life of mine.

14. The Project Proponent submitted the letter certified from Mining Inspector, Distt Bastar (C.G.) and Deputy Director (Mining Dept) Distt Bastar wherein it has been mentioned that there are total 6 Nos Mines around 500m radius of the mining lease and the total cluster area is 7.90 Ha. PP submitted the past production details duly authenticated by Office of the Collector, Department of Mining vide Lr 1422/Khanij/kha.Li.4/Khanipatta/2021, Jagdalpur, dated 16.06.2021 for the period from 01.07.2002-31.12.2002 to 01.01.2021-16.06.2021. PP also submitted the Affidavit in a non-judicial stamp paper of Rs 100 bearing L 161936 dated 10.06.2021 that 'I shall comply with all the statutory requirement & judgment of Hon'ble Supreme Court dated 2nd August 2017 in writ Petition (civil) No. 114 of 2014 in the matter of common cause versus Union of India & Ors'.

15. The Project Proponent submitted that there is no any litigation pending against the project and/or land in which the project is proposed to be set up.

16. The Project Proponent submitted that the Rehabilitation & Resettlement (R&R) Plan is not applicable for this project.

17. Details of project cost and employment:

Particulars	Budget (Rs. In Crore)
Project Cost	Rs. 0.5
Employment	45 persons

18. The EAC after detailed deliberations noted that the instant proposal falls under violation as the mine lease was operating from 2002 onwards without NBWL clearance and Environmental Clearance as required under EIA Notification, 1994/2006. The EAC also noted that the Ministry vide letter dated 24.09.2021 issued show cause notice under section 5 of the Environment (Protection) Act, 1986 to show cause within 15 days of receipt of this notice. The EAC observed that the Project Proponent has not yet replied to the show cause notice issued by the Ministry. Thus, the EAC was of the view that the proposal may not be considered further till the Project Proponent replies to the show cause notice issued by the Ministry vide letter dated 24.09.2021. Therefore, the EAC **deferred the proposal.**

2.7 Proposal for Terms of Reference of M/s Rafik khan for mining of Limestone in Chhote Kadma Limestone Mine with production capacity of 22,000.05 TPA in the mine lease area of 2.43 ha, located at Village- Chhote Kadma, TehsilDarbha (Jagdalpur), District- Bastar, Chhattisgarh – [File. No: IA-J-11015/36/2021-IA-II(M), Proposal No: IA/CG/MIN/267015/2022]- Reconsideration of Terms of Reference (Violation)

1. Project Details:

Project Proponent	M/s Rafik khan	
Location	Village	Chhote Kadma
	Tehsil/Taluka	Darbha (Jagdalpur)
	District	Bastar
	State / UT	Chhattisgarh
	Latitudes	18°58'11.92441"N to 18°58'19.66441"N
	Longitudes	81°51'05.13721"E to 81°51'11.73960"E.
	Sol Toposheet No.	65F/13
KML file	Submitted in PARIVESH portal	
Seismic zone	II	
Accredited Consultant and certificate no.	P and M Solutions NABET/EIA/1922/IA0053	

2. Category details:

Category of the project	A
General conditions	Mining lease area located at distance of approx. 4.07 km, SE from Kanger valley National Park and 1.72 km from Eco Sensitive Zone boundary
Schedule No.	1(a) Mining of Minerals
Provisions	EIA Notification, 2006 and subsequent amendments as on date
Mining lease Area (MLA) (in ha.)	2.43 ha

3. The proposal was earlier considered in the 33rd EAC meeting held during 13th to 16th July, 2021. The Committee opined that SOP dated 7.07.2021 was issued by the Ministry for identification and handling of violation cases under EIA, 2006 has been stayed by the Madurai bench of Hon'ble High Court of Madras vide order dated 15.07.2021. The Committee noted that the instant proposal is located at a distance of 4.07 km, SE from Kanger Valley National Park which is notified by Ministry's Notification S.O 3653(E) dated 10.10.2019. The Committee also observed that the PP made presentation using KML file for showing the location of Kanger Valley National Park by drawing the boundary of the Eco Sensitive Zone (ESZ) and informed that the mine lease area is located 2.8 km, NW away from the Eco Sensitive Zone (ESZ). Therefore, the Committee was of the view that the submission made by the PP needs to be authenticated by the Competent Authority in the State along with the authenticated location map and the same was agreed by PP and therefore the Committee returned the proposal in present form and asked Ministry to take action against Project Proponent under E(P)A,1986.

4. Now, the Project Proponent again submitted a fresh application vide proposal no. IA/CG/MIN/267015/2022 dated 11.04.2022 along with the information sought by the

EAC in its 33rd EAC meeting held during 13th to 16th July, 2021 and accordingly the proposal was reconsidered in the 50th EAC (Non-Coal Mining) held during 12th -13th May, 2022 wherein the PP submitted the following: -

S. No	Observation of EAC	Reply by PP
1	The Committee also observed that the PP made presentation using KML file for showing the location of Kanger Valley National Park by drawing the boundary of the Eco Sensitive Zone (ESZ) and informed that the mine lease area is located 2.8km, NW away from the Eco Sensitive Zone (ESZ). Therefore, the Committee was of the view that the submission made by the PP needs to be authenticated by the Competent Authority in the State along with the authenticated location map	PP submitted the letter obtained from the Office of the Director Kanger Valley National Park, Jagdalpur (Chhattisgarh) vide letter dated 28.08.2021 wherein it was mentioned that the minimum distance of the mine from the Eco Sensitive Zone (ESZ) is 1.72 km. PP also submitted the Google Map certified by PCCF (Wildlife)/ Chief Wildlife Custodian showing the distance of the mine from Eco Sensitive Zone boundary.

5. The Ministry of Environment, Forest and Climate Change vide Lr No. F.No. J-11015/35/2021-IA.II(M) dated 24.09.2021 issued show cause notice under section 5 of the Environment (Protection) Act, 1986 to show cause within 15 days of receipt of this notice. The instant mine lease is operating from 2002 onwards without NBWL clearance and Environmental Clearance as required under EIA Notification, 1994/2006.

6. Lease Details:

S.no	Grant of mine lease	Date of the grant	Name of the Mineral	Period of Grant	Granted by	Mine lease area in Ha
1	Grant of mining lease vide LrF-3-48/2001/ Khanij, Raipur	24.07.2002	Limestone	20 years	Govt. of Chhattisgarh	2.43
2	Extension of mining lease vide No. 16/ Mineral/ Kh.4/K.P./04/2001/2021 Jagdalpur,	28.12.2021	Limestone	50 years	Office of the Collector (Mineral Branch) Jagdalpur, District Bastar (Chhattisgarh)	2.43

7. Details of executed Mine leases:

S.no	Date of grant of Lease execution	Period of Grant		Details
		From	To	
1	Date of entering into original lease deed.	12.08.2002	11.08.2022	Lease deed executed on 12.08.2002

8. Land Use/Land Cover of the mine lease area:

Private land	Nil
Government waste land	2.43 Ha
Total Mining lease area (MLA)	2.43 Ha
Private land for crusher, workshop & other infrastructure outside the MLA	Nil

9. Mining plan:

Review of Mining Plan along with Progressive Mine Closure Plan approved by Indian Bureau of Mines	Letter No.	Bastar/Chup/khayo-1302/2021-Raipur
	Date	07.01.2022
	Mineral	Limestone
	Mine lease area	2.43 Ha
	Validity	2022-23 to 2026-27
Mining Parameters	Quantitative Description	
Method of Mining	Opencast semi mechanized method with drilling & blasting	
Total Geological Reserves	4,59,541.89 Tons	
Total Mineable Reserves	2,27,516.26 Tons	
Life of mine	11 Years	
Bench Height	3.0m	
Bench Width	More than height	
Individual bench slope	60°	
Overall pit slope	60°	
Drilling/Blasting	Drilling operation will be done with the help of Jack hammer drill with compressed air.	
Transportation details	Transportation will be done via an approach road of 0.22km which further connects NH-16 in NE direction	
Dumpers capacity	20 T	
Waste generation and management	PP submitted that during the proposed plan period total 6,733.56 cu.m or 13,666.94 tons of soil/OB/waste (3166.94 tons of soil/OB & 10,500 tons of mineral rejects) will be generated. Generated OB/ waste will be stacked along the	

	lease boundary in the mining limit & use for the plantation & backfilling in the 7.5m barrier zone about total area of 0.07 ha with dump height 3.0 m.
Ultimate depth of mining	564.4 mRL
Groundwater table	20 to 25 m bgl
Groundwater intersection	The expected depth of the proposed quarry will be up-to 564.4 mRL which will not encounter the water table

10. Water requirement:

Total water requirement	7.5 KLD	Drinking & Domestic	2.5 KLD
		Green belt	3.5 KLD
		Dust suppression	1.5 KLD
Source	Bore well and mine sump		

11. Nearest village / town/ highway/railway station / water bodies:

Particulars	Particular's Name	Distance & Directions
Nearest Village	Chhote Kadma	0.41 km, NW
Nearest Town	Darbha (Jagdalpur) Town	21 km, NE
Nearest Highway	National Highway 16	4.0 km, N
Nearest Railway Station	Tokapal Railway Station	5.0 km, NE
Nearest Water Body	Kanger river	2.0 km, SW

12. The Project Proponent obtained Letter dated 14.08.2001 issued from DFO Bastrar wherein it has mentioned that the mine lease does not come under Forest Protection Act 1980. PP reported that mine lease area is located at distance of approx. 4.07 km, SE from Kanger valley National Park and submitted the letter from the Office of the Park Premises Officer, Kotmasar vide Lr No. 1033, Jagdalpur Dated 05.12.2019 and Lr. No. Ta.Adhi./2942, Jagdalpur Dated 12.12.2019 issued from the Office of the Director, Kanger Ghati National Park, Jagdalpur wherein it has mentioned that the distance of the instant mining lease is 4.07 KM from Kanger Ghati National Park. PP submitted the letter obtained from the Office of the Director Kanger Valley National Park, Jagdalpur (Chhattisgarh) vide letter dated 28.08.2021 wherein it was mentioned that the minimum distance of the mine from the Eco Sensitive Zone (ESZ) is 1.72 km. Final Notification declaring Eco Sensitive Zone around [Kanger Valley Wildlife Sanctuary](#) published vide Ministry's Notification S.O. 3653(E) dated 10th October, 2019. As per the Notification, the Eco-Sensitive Zone shall be to an extent of 0 (zero) to 6.6 kilometres around the boundary of Kanger Valley National Park and the area of the Eco-Sensitive Zone is 166.00 square kilometres. Extents of Eco-Sensitive Zone at different direction of

the National Park are North: 4.5 km, North- East: 4.6 km, East: 0 km, South-East: 2.4 km, South 4.8 km, South-West 3.9 km, West 6.6 km and North-West 2.6 kilometre.

13. The Project Proponent submitted that proposed area for greenbelt/plantation will be 0.80 ha. About 900 Plants are proposed to be planted during plan period. Plantation will be done in barrier zone (0.15 ha) of the lease area. Plantation of wide leaf trees, tall grasses around the quarry pits, on OB dumps and also around the offices are proposed. At the end of life of mine a total of 2000 saplings will be planted. PP earmarked a budget of Rs 10.0 lakhs towards development of green plant & plantation till the end of life of mine.

14. The Project Proponent submitted the letter certified from Mining Inspector, Distt Bastar (C.G.) and Deputy Director (Mining Dept) Distt Bastar wherein it has been mentioned that there are total 5 Nos Mines around 500m radius of the mining lease and the total cluster area is 8.27 Ha. PP submitted the past production details duly authenticated by Office of the Collector, Department of Mining vide Lr 1423/Khanij/kha.Li.4/Khanipatta/2021, Jagdalpur, dated 16.06.2021 for the period from 01.07.2002-31.12.2002 to 01.01.2021-16.06.2021. PP also submitted the Affidavit in a non-judicial stamp paper of Rs 100 bearing L 161935 dated 10.06.2021 that 'I shall comply with all the statutory requirement & judgment of Hon'ble Supreme Court dated 2nd August 2017 in writ Petition (civil) No. 114 of 2014 in the matter of common cause versus Union of India & Ors'.

15. The Project Proponent submitted that there is no any litigation pending against the project and/or land in which the project is proposed to be set up.

16. The Project Proponent submitted that the Rehabilitation & Resettlement (R&R) Plan is not applicable for this project.

17. Details of project cost and employment:

Particulars	Budget (Rs. In Crore)
Project Cost	Rs. 0.45
Employment	45 persons

18. The EAC after deliberations noted that the instant proposal falls under violation as the mine lease was operating from 2002 onwards without NBWL clearance and Environmental Clearance as required under EIA Notification, 1994/2006. The EAC also noted that the Ministry vide letter dated 24.09.2021 issued show cause notice under section 5 of the Environment (Protection) Act, 1986 to show cause within 15 days of

receipt of this notice. The EAC observed that the Project Proponent has not yet replied to the show cause notice issued by the Ministry. Thus, the EAC was of the view that the proposal may not be considered further till the Project Proponent replies to the show cause notice issued by the Ministry vide letter dated 24.09.2021. Therefore, the EAC **deferred the proposal.**

List of members of Expert Appraisal Committee participated through VC

S.No.	Member Name	Member Address	Designation	12 th May 2022	13 th May 2022
1	Dr. S.R. Wate	Add. 148/149, Nagar Vikas Society, Narendra Nagar, Nagpur-440015, Maharashtra	Chairman	Yes	Yes
2	Dr. Ajay Deshpande	Building A-26, Flat-403, Happy Valley Homes, Manpada, Ghodbunder Road, Thane (West) - 400610, Maharashtra	Member	No	No
3	Shri B Ramesh Kumar	H-No. 6-1-134/6, Balram Compound, Padmarao Nagar, Secundrabad-500025, Andhra Pradesh	Member	Yes	Yes
4	Prof. S. Ramakrishna Rao	50-120-9/1, Tulasi Mani Regency North Extension, Seethammadhara, Visakhapatnam - 530013 Andhra Pradesh.	Member	Yes	Yes
5	Shri Santosh Gupta	Flat No. 405, Block -B, Gaur Green Vista, NyayKhand - 1, Indrapuram,	Member	Yes	Yes

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		Ghaziabad- 201014			
6	Dr. Asha Rajvanshi	B-104/106 rockvalley Apartments, General Mahadev Singh Road, SewlaChowk, Majra, Dehradun - 248001	Member	Yes	Yes
7	Shri G.P. Kundargi	Plot No. 32, MOIL Vatika, Chicholi Road, Fetri, Nagpur 441501, Maharashtra	Member	Yes	Yes
8	Dr. A.K. Malhotra	House no. 33, Sector – 11, Dwarka. (Near Gate No. – 1 of sector 11 metro Station), New Delhi – 110075.	Member	Yes	Yes
9	Prof. (Retd.) Dr. Gurdeep Singh	Centre of Mining Environment, Department of Environmental Science & Engg. Indian Institute of Technology (Indian School of Mines), Dhanbad-826004	Member	Yes	Yes
10	Dr. Parimal Chandra Bhattacharjee	A/3 Asiyana Housing Complex Maligaon, Guwahati-781011, Assam	Member	No	No
11	Prof. (Retd.) Mukesh Khare	House no.780, Sector-21, Pocket-E, Gurugram, Haryana-122016.	Member	Yes	Yes
12	Shri V. K. Soni	Government of India, Ministry of Earth Sciences, India Meteorological Department, MausamBhawan, Lodi Road, New	Member	No	No

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		Delhi – 110003			
13	Shri Pankaj Kulshrestha	Regional Controller of Mines, IBM Block D, Second Floor, Indira Bhavan, Civil Lines, Nagpur - 440001	Member	No	No
14	Shri Ram Avatar Meena	Representative of DGMS	Member	Yes	No
15	Shri Pankaj Verma	2 nd Floor, Prithvi Block, Indira Paryawaran Bhawan, MoEF&CC, Jorbhag, New Delhi- 110003	Member Secretary	Yes	Yes