

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

SUMMARY RECORD OF 48th MEETING OF THE COMMITTEE OF THE EXPERT APPRAISAL COMMITTEE FOR ENVIRONMENTAL APPRAISAL OF NON-COAL MINING PROJECTS CONSTITUTED UNDER THE EIA NOTIFICATION, 2006.

The 48th 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 28th to 30th March, 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) Deliberation & Circulation on the Minutes of the 47th EAC Meeting (Non-Coal Mining) held on 7th, 8th and 9th March, 2022.

The minutes of 47th EAC Meeting (Non-Coal Mining) held on 7th, 8th and 9th March, 2022 were placed before the members of the Committee.

Day 1: 28th March, 2022 (Monday)

1.1 Proposal for Environmental Clearance of M/s SAIL for mining of Iron ore in Kalta Iron ore mine (ML-139) with production capacity of 49,701 TPA (ROM) within mine lease area of 25.981 ha, located at Village Kalta, Koida Tehsil, Sundargarh District, Odisha – [File No: IA-J-11015/21/2018-IA-II(M), Proposal No: IA/OR/MIN/72371/2018; Consultant: In Situ Enviro Care] - Environmental Clearance (EC)

EAC Meeting Details:

EAC meeting	48 th
Date of Meeting	28 th – 30 th March, 2022

The proposal of M/s SAIL is for mining of Iron ore in Kalta Iron ore mine (ML-139) with production capacity of 49,701 TPA (ROM) within mine lease area of 25.981 ha, located at Village Kalta, Koida Tehsil, Sundargarh District, Odisha. The mine lease area is located between Latitude 21°59'47.16420"E to 22°00'34.53264"E and Longitude 85°13'36.79428"E to 85°14'10.42764"E. The mine lease area falls under the Survey of India Toposheet No: 73 G/1 and 73 F/4 and falls in Seismic Zone-II. The Project Proponent presented the KML file during the presentation to indicate the location of mine lease on Google Earth.

2. M/s SAIL has made an online application vide proposal no: IA/OR/MIN/72371/2018 dated 02.03.2022 and submitted Form 2 and EIA report under the provisions of the EIA Notification, 2006. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals of the schedule of the EIA Notification, 2006 and falls under Category "A" as the instant proposal attracts the general conditions as the interstate boundary of Jharkhand and Odisha is located within 5 km from the mine lease area and appraised at Central level.

3. The details of the Terms of References (TOR) are furnished as below:

Date of application	Proposal No	Consideration	Details	Date of accord
19.01.2018	IA/OR/MIN/72371/2018	22-23 March, 2018 & August 24, 2018	Terms of Reference for production capacity of 49,701 TPA (ROM) of Iron Ore within the mine lease area of 25.98 Ha	11.09.2018

4. The Project Proponent submitted that the mining lease was granted by the Department of Steel and Mines, Government of Odisha on 17.01.1975 for a period of 20 years i.e., up to 16.01.1995, over an area of 38.182 Ha. 1st renewal of mining lease (RML) application was submitted on 16.02.1994 for a period of 20 years i.e. from 17.01.1995 to 16.01.2015 and 2nd renewal of mining lease application was submitted on 04.01.2014 for a period of 20 years. PP also submitted that the mining of iron ore was executed on 17.01.1975 for a period of 20 years over 25.981 Ha. The original granted area was 38.182 Ha spread over two blocks namely Block A of 22.9982 Ha and Block B of 15.1838 Ha totaling 38.182 Ha. However, during execution a portion of 12.201 Ha located at the northern side of the leasehold and coming within the district of Keonjhar was deducted from the total area keeping the area of the lease to 25.981 Ha. The executed area is located in two blocks namely Block A of 10.7972 Ha and Block B of 15.1838 ha aggregating to 25.981 Ha. PP submitted the letter from the Office of the Divisional Forest Officer, Bonai Division vide Lr No. 89/6F dated 02.01.2015 stating that the total area of the mining lease is 38.1820 Ha., out of which an area of 12.2012 Ha has been surrendered by M/s SAIL vide renewal application dated 16.02.1994 and the balance area comes to 25.9808 Ha (or 25.981 Ha) which is entirely forest land. Govt. of Odisha vide Lr No. III (B) SM-10/2012 1287/SM, Bhubaneswar dated 10.02.2016 have extended the lease period for a period of 50 years i.e., from 17.01.1975 to 16.01.2025 subject to execution of supplementary lease deed for the period from 17.01.1975 to 16.01.2025 obtaining all statutory clearances, payment of requisite dues as per act and rules within three months. Then, PP obtained the letter from Govt. of Odisha vide Lr No. 4230/III (B) SM-10/2012/SM, Bhubaneswar dated 30.05.2020 for extension of time for further one year for execution of supplementary lease deed with effect from

09.05.2020.PP submitted that the mine lease area (ML-139) consists of two blocks viz Block A (10.7972 ha) and Block B (15.1838 ha) aggregating to 25.981 ha. The Block B is in geographical and geological continuity with the main BarsuaTaldihKalta Mines (Amalgamated Mining Lease ML -130 & ML-162). PP also submitted that ML-139, being situated at northern end of the Kalta area, the ML – 139 leases was worked as a part of Kaltalron Ore Mine for till 1987-88 and then mining operations suspended.

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

Private land	-
Forest land	25.981 Ha
Total Mining lease area (MLA)	25.981 Ha
Private land for crusher, workshop & other infrastructure outside the MLA	Nil

6. Details of Mine Plan:

Review of Mining Plan along with the Progressive Mine Closure Plan approved by Indian Bureau of Mines, Bhubaneswar	Letter No.	RMP/A/17-ORI/BHU/2019-20
	Date	13.11.2019
	Mine lease area	25.981 Ha
	Mineral	Iron Ore
	Validity	2020-21 to 2024-25
Mining Parameters	Quantitative Description	
Method of Mining	Open cast mining with Drilling & Blasting with manual sizing & sorting. Worked on single shift basis. Other Than Fully Mechanized (OTFM)	
Geological Reserves	21,52,357 Tonnes	
Mineable Reserves	2,58,736 Tonnes	
Life of mine	43 years	
Bench Height	6 m	
Bench Width	10 m	
No. of benches	9 No.s (4 years)	
Overall pit slope	45°	
Drilling/Blasting	100 mm holes by DTH drills and Controlled Blasting along with Shock tube initiation system / NONEL system	
Transportation details	By trucks to Roxy Railway Siding through NH – 520 (Four Lane Road) over 22 km and and subsequently dispatched by rail to SAIL steel plants.	
Dumper's capacity	10 Tonne	
Topsoil, Mineral Rejects and Waste	PP reported that there is no top soil and mineral rejects will be generated during the plan period. In the plan period around 23,757 m ³ of overburden/waste will be generated. Out of which	

	615 m ³ will be utilize in filling of disturbed safety zone and 15,352 m ³ waste will be utilize in making of road etc. in first three years of plan period. In fourth year and fifth year 6,942 m ³ and 848 m ³ quantity of waste respectively will be dump in the designated waste dump over an area of 0.9 Ha.
Groundwater table	10-15 m bgl approx., (730-725mRL).
Depth of Mining	798 mRL from the hill top
Groundwater intersection	PP reported that the mining activity will not intersect the groundwater

7. Water requirement:

Total water requirement	49.0KLD		Drinking	4.0 KLD
	Fresh water: 47.0 KLD	Treated water: 2.0 KLD	Green Belt	3.0 KLD
			Dust suppression	42.0 KLD
Source	Water will be met from existing water source i.e., Najkura Nalah, which flows near the mine.			

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

Particulars	Particular's Name	Distance & Direction
Village	Kalta	About 3.5 km, SW
Town	Barbil	About 18.0 km, North East
Highway	NH-520	About 3.85 km, SE
Railway Station	Barbil Railway Station	About 19 km, NE
Water bodies	Karo River, about 4.3 km, East	
	Two seasonal nallahs exist, one in each block A & B.	

9. The Project Proponent reported that the entire mine lease area of 25.981 is a forest land. PP submitted that the application for Stage-I forest clearance has been submitted vide proposal no: FP/OR/MIN/10329/2015 dated 22.07.2015 and forest clearance yet to be obtained from forest department for diversion of entire mine lease area of 25.981 ha. PP vide Lr Ref. No: KIM/E&L/ML-139/973 dated 02.08.2012 informed the Divisional Forest Officer, Bonai that the payment of Rs 2,70,98,183/- (Rupees two crores seventy lakhs ninety eight thousand one hundred eighty three only) has been made towards the NPV in respect of ML-139 (25.981 Ha) on dated 03.07.2012 and dated 31.07.2012. PP submitted that the FRA Certificate from the O/o the Collectorate Sundargarh (Revenue Section) vide Lr No 1150/R dated 14.05.2012 wherein it was certified that on the basis of the verification report and Palli Sabha resolution dated 27.10.2011 of village Kalta that no such facilities managed by Government requiring diversion of forest land U/s 3(2) of the Forest Rights Act, 2006 exist over the forest land proposed for diversion. PP also submitted that the compensatory land for afforestation has been identified. PP submitted the location map

authenticated by the Principal Chief Conservator of Forests (Wildlife) & Chief Wildlife Warden, Odisha wherein it was mentioned that the Karo-Karampada Elephant Corridor is located at a distance of 1.2 km from the mine lease area. Further, PP reported that the following Reserve Forests such as Karampada R.F: 1.2 km, N, Mendhamaruni R.F: 6.3 km, E, Karo R.F: Just east of the lease's northern part, Uliburu R.F: 3 km, NE Tholkabad R.F: 6.6 km NW and Lakraghat R. F: 7 km, NE are found within the 10km radius of the study area.

10. The Project Proponent submitted that the Schedule-I species such as Indian Elephant, Sloth bear & Yellow monitor are found in the study area. PP also submitted the list of flora and fauna authenticated from the Office of the Divisional Forest Officer, Bonai Division vide Lr No. 2014/6F-(Mg) dated 22.03.2021.

11. The Project Proponent submitted that the proposed area for greenbelt/plantation will be 11.676 Ha, out of which 2.46 Ha falls under greenbelt, 2.306 Ha under external dumps & others and 6.91 Ha under quarry floors. PP proposed to plant 20,691 no.s of plants over an area of 11.676 Ha. PP earmarked a budget of Rs. 2.5 Lakhs per annum towards development of green plant & plantation till the end of life of mine.

12. The primary baseline data for specific micro-meteorology data, ambient air quality, waste quality, noise level, soil and flora & fauna has been collected during Summer season. The Monitoring results of ambient air, surface water, soil, ambient noise and ground water for the month of March to May, 2019 have been reported and no major divergence was observed with respect to concentration values of various parameters of collected samples.

Baseline Data (Air / Water / Noise / Soil / Ground water table/ others)					
Period of baseline data collection			March to May, 2019		
Season (Summer / Pre-monsoon / Post-monsoon / Winter)			Summer		
Period	Results of Baseline monitoring				
AAQ parameters at 8 locations	Pollutant	Min, $\mu\text{g}/\text{m}^3$	Max, $\mu\text{g}/\text{m}^3$	98 %ile, $\mu\text{g}/\text{m}^3$	Standard, $\mu\text{g}/\text{m}^3$
	PM2.5	30.5	49.2	48.9	60
	PM10	60.1	86.1	85.5	100
	SO ₂	4.2	7.8	7.7	80
	NO _x	13.4	21.5	21.3	80
AAQ modelling (Incremental GLC)	Pollutant	Baseline Concentration, $\mu\text{g}/\text{m}^3$	Incremental Concentration, $\mu\text{g}/\text{m}^3$	Total GLC, $\mu\text{g}/\text{m}^3$	Standard
	PM2.5	47.6	9.5	57.1	60
	PM10	81.1	10.0	91.1	100
	SO ₂	6.9	3.4	10.3	80

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	NOx	19.7	8.0	27.7	80
Noise level at 8 locations	Day Time: 42.1 to 58.2 Leq dB (A) Night Time: 34.9 to 46.1 Leq dB (A)				
Surface water quality at 3 locations	PP submitted that the pH varied from 7.12 to 7.43. TDS varied from 139 to 169 mg/l. Chloride level ranged between 34.8 to 46.1 mg/l. BOD varied from 1.2-1.8 mg/l. COD varied from 4.8 to 6.1 mg/l. DO varied from 5.6 to 6.8 mg/l. The results indicate that the surface water is in conformity with IS-2296 standards.				
Ground water quality at 5 locations	PP submitted that the pH varied from 6.59 to 7.85. TDS varied from 442 to 488 mg/l. Chloride level ranged between 105 to 147 mg/l. Total hardness varied from 182 mg/l to 198 mg/l. Most of the heavy metals in all samples are below detectable limits. Overall, the samples collected from the study area were found to be fit for consumption.				
Soil quality at 5 locations	PP submitted that the pH of the soil i.e., 7.59 to 7.98 indicates that the soil is slightly basic in nature. Electrical conductivity (EC) ranged between 168-235 µmhos/cm. Soil quality are not contaminated by any polluting sources.				
Traffic study	PP reported that the 24-hour survey was carried out for enumeration of vehicle for assessment of the road and its carrying capacity on 04.06.2019 to 05.06.2019. The survey was carried out at Kalta Chowk, Toda Basti and Kalta Mine view point. No. of truck trips /day to and fro is 34 trucks and increase in PCU/day is 102. It is seen that the V/C ratio will increase from 0.41 to 0.45 by operation of Kalta iron ore Mines and confers to Level of service as Good. Hence, the additional load on the carrying capacity of the concerned roads is not likely to have any significant impact.				

13. Public Hearing Details:

Advertisement for PH with date	“Times of India” dated 13.08.2021 and in Odiya in “Samaj” dated 13.08.2021
Date of PH	15 th September, 2021
Venue	Football Play Ground beside Gram Panchayat Office of Kalta Village under Koira Block of Sundargarh District, Odisha.
Chaired by	Addl. District Magistrate (ADM), Sundargarh
Main issues raised during PH	Development work in Jhirpani and Toda Villages, compensation to land losers, local employment, dust pollution, drinking water facility, education, bus facility for school children, development of SHG groups, women empowerment, street lights and medical facilities.
Budget proposed for addressing issues raised during PH	Environment: Capital Cost: 30 Lakhs Recurring Cost: 3 Lakhs/Annum Others: CSR Activities in and around mine: 70

	Lakhs/Annum i. CSR, Education: Rs 15 Lakhs/Annum ii. Health: 07 Lakhs/Annum iii. Sports: 02 Lakhs/Annum iv. Community Centre: 10 Lakhs v. Check Dam: 15 Lakhs
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14. The Project Proponent submitted the past production details duly authenticated from the Office of the Deputy Director of Mines, Koira vide Memo No: 1826/Mines, dated 24.04.2018 from the period 1976-77 to 1987-88 and for the period 1988-2018. PP submitted that the production was started before 1994 i.e., from the year 1976-77 to 1987-88. Prior to 1994, the highest production achieved was 94,463.0 Tonne during the year 1977-78. Thereafter, no production was carried out from the year 1988 to till date.

15. The Project Proponent submitted that there will be no resettlement or rehabilitation involved in the mine lease area.

16. 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.

17. Details of the EMP:

S. No.	Measures	Capital cost (in Rs.)	Annual recurring cost (in Rs.)
		Proposed	Proposed
1	Pollution Control i) Dust Suppression ii) Garland drain & ground dump	30,000,00 ^{&} -	3,00,000 3,00,000
2	Pollution Monitoring i) Air pollution ii) Water pollution	-	1,50,000 1,50,000
3	Occupational Health	5,00,000	3,00,000
4	Green Belt	-	2,50,000
5	Mine Closure Plan	2800000 [@]	-
6	Others (Site Specific Wildlife Management Cost)	3550000 ^{\$}	-
	Total	98,50,000	14,50,000

& = Mobile water sprinkler for dust suppression

@= Approximate Cost of mine closure plantation over 9.216 ha [Plantation & long-term maintenance 3 lakhs per ha]

\$= Will be spent over a period of 10 years for Implementation of site-specific wildlife conservation plan within the project area

Note: -

i. NPV of an amount of Rs. 2,70,98,183/- was deposited in CAMPA account for the total forest area.

- ii. In addition to that SAIL paid the cost of Regional Wildlife Management Plan @ 43,000/- per ha.

18. Details of project cost and employment:

Particulars	(Rs. In Crore)
Capital Cost for Environment Protection	0.985
Budget for addressing the Public Hearing issues	Environment: Capital Cost: 30 Lakhs Recurring Cost: 03 Lakhs/Annum Others: CSR Activities in and around mine: 70 Lakhs/Annum i. CSR, Education: Rs 15 Lakhs/Annum ii. Health: 07 Lakhs/Annum iii. Sports: 02 Lakhs/Annum iv. Community Centre: 10 Lakhs v. Check Dam: 15 Lakhs
Total Cost for EMP	1.13
Recurring Cost for EMP	0.145
Project Cost	10.08
Employment	87 Nos.

19. Observation and Recommendation of the Committee:

The proposal for Environmental Clearance was considered in the 48th EAC (Non-Coal Mining) meeting held during 28th-30th March, 2022. After detailed deliberations made by the Project Proponent and the Consultant, the Committee noted that the PP is not having Stage-I Forest Clearance which is under process and the Govt. of Odisha extended the time for one year for execution of supplementary lease deed with effect from 09.05.2020 vide Lr No. 4230/III (B) SM-10/2012/SM, Bhubaneswar dated 30.05.2020 and it got expired on 08.05.2021 and the current status of the mine lease area is in question. The Committee also noted that the recommendation made by NEERI in its carrying capacity study for Odisha was not a part of Terms of Reference (ToR) granted on 11.09.2018 and the Committee opined that the PP should submit the compliance of the recommendation made by NEERI in its carrying capacity study for Odisha. The Committee observed that the PP has not carried out the cumulative impact assessment. Therefore, in view of the above, the Committee **deferred** the proposal and was of the view that the proposal may be considered only after submission of the following additional information: -

- i. The Project Proponent shall submit the valid mine lease after 08.05.2021, duly authenticated by the concern Department of State Government of Odisha.

- ii. The Project Proponent shall submit the clear status whether the mine lease are two separate mine leases or two blocks and its subsequent amalgamations with proof of documents duly authenticated by the concern Department of State Government of Odisha.
- iii. The Project Proponent needs to submit the compliance of the recommendation made by NEERI in its carrying capacity study for Odisha.
- iv. The Project Proponent needs to carry out the cumulative impact assessment for air quality, noise level and ground vibration by considering all the mining activity including the transport scenario of the Block A (10.7972 ha) and Block B (15.1838 ha) at the age of mine lease. 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.
- v. The Project Proponent needs to revise the budget of public hearing concerns raised by the public with a timeline of 3 years from the date of start of mining operations. The activities proposed should be actionable and monitorable. As the study area is falling in two states, details of public participated in the public hearing from the both the States should be submitted.
- vi. The Project Proponent needs to revise the EMP cost and should submit the activity wise time bound actionable budget with its efficacy. PP should assign the recurring cost on the EMP cost to be spent every year.
- vii. The Committee noted that theKaro-Karampada Elephant Corridor is located at a distance of 1.2 km from the mine lease area as per the location map authenticated by the Principal Chief Conservator of Forests (Wildlife) & Chief Wildlife Warden, Odisha. Hence, the Project Proponent should specifically address the movement of elephants in the study area in the Wildlife Conservation Plan. PP also needs to submit the approval of Wildlife Conservation Plan for the instant mine lease (ML-139, 25.981 ha).
- viii. The Project Proponent needs to submit the Stage-I Forest clearance. PP needs to submit the details of payment towards Net Present Value (NPV).
- ix. The Project Proponent needs to submit the measures taken for protection of nalah in the vicinity of the mine lease area.
- x. The Project Proponent needs to submit the normative and peak total excavation in tonnes including mineral, overburden, inter-burden, waste, top soil, rejects etc. to be handled annually and the management of topsoil and waste needs to be

properly addressed. The mineable reserves, blocked reserves need to be mentioned along with the life of mine. Waste to be generated during the entire life of mine and details of the location of dumping/backfilling area needs to be submitted.

- xi. The Project Proponent needs to submit the letter from the State Govt for surrendered area of 12.2012 Ha.
- xii. The Project Proponent needs to submit the Permission letter for withdrawal of Surface water from Najkura Nala.

1.2 Proposal for Terms of Reference of M/s. Sree Jayajothi Cements Private Limited for mining of Limestone in Gorlagutta Limestone Block (Auction Block) with production capacity of Limestone: 1.2 MTPA, Over Burden: 1.2 MTPA, Top Soil: Nil (Total excavation: 2.4 MTPA) within the mine lease area of 181.03 ha, located at Village Gorlagutta, Betamcherla Mandal, Kurnool District, Andhra Pradesh – [File No: IA-J-11015/105/2021-IA-II(NCM), Proposal No: IA/AP/MIN/260506/2022; Consultant: B.S. Envi – Tech Pvt. Ltd] - Terms of Reference (ToR).

EAC Meeting Details:

EAC meeting	48 th
Date of Meeting	28 th – 30 th March, 2022

The Proposal of M/s. Sree Jayajothi Cements Private Limited is for mining of Limestone in Gorlagutta Limestone Block (Auction Block) with production capacity of Limestone: 1.2 MTPA, Over Burden: 1.2 MTPA, Top Soil: Nil (Total excavation: 2.4 MTPA) within the mine lease area of 181.03 ha, located at Village Gorlagutta, Betamcherla Mandal, Kurnool District, Andhra Pradesh. The mine lease area is located between Latitude 15°24'28.07"N - 15°25'15.96"N and Longitude 78°10'06.23"E - 78°11'46.93"E. The mine lease area falls under the Survey of India Toposheet No: 57 I/3 and falls in Seismic Zone-II. The Project Proponent presented the KML file during the presentation to indicate the location of mine lease on Google Earth.

2. M/s. Sree Jayajothi Cements Private Limited initially has made an online application vide proposal no: IA/AP/MIN/241132/2021 dated 27.11.2021 and submitted Form1 and Prefeasibility report under the provisions of the EIA Notification, 2006 and the proposal for Terms of Reference was considered in the 43rd EAC (Non-Coal Mining) meeting held during 14th – 16th December, 2021 wherein the Member Secretary informed the Committee that the Project Proponent vide letter reference no. MOEFCC/EAC/GGB/2021 dated 04.12.2021 requested to withdraw the proposal listed in agenda no. 1.2 in the 43rd EAC (Non-Coal Mining) held during 14th December –

16thDecember, 2021 and informed that fresh application will be submitted as there is enhancement in production capacity. Therefore, the Committee returned the proposal in present form.

3. Now, the Project Proponent submitted a fresh application for Terms of Reference vide proposal no:IA/AP/MIN/260506/2022 dated 08.03.2022 and submitted Form1 and Prefeasibility report under the provisions of the EIA Notification, 2006. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals under Category “A” of the schedule of the EIA Notification, 2006 as the mining lease area is greater than 100 ha and appraised at Central level.

4. Details of Mine lease:

S. No	Letter of Intent (LoI)	Date of the grant	Name of the Mineral	Period of Grant	Granted by	Mine lease area in Ha
1	Letter of Intent issued in terms of Rule 10 (2) of Mineral (Auction) Rules, 2015 vide Lr Memo No. INC01-MG0MAJM/21/2019-M-III	07.07.2021	Limestone	-	Government of Andhra Pradesh	181.030

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

Patta land	6.47 Ha
Government land	174.56 Ha
Total Mining lease area (MLA)	181.03 Ha
Private land for crusher, workshop & other infrastructure outside the MLA	Nil

6. Mining plan:

Approval of Modified Mining Plan with Progressive Mine Closure Plan approved by Indian Bureau of Mines	Letter No.	No. AP/ KNL/ MP/Lst-150/ Hyd.
	Date	01.03.2022
	Validity	5 years
	Mine lease area	181.03 Ha
	Mineral	Limestone
Mining Parameters	Quantitative Description	
Method of mining	Opencast mechanized method with deep hole drilling and blasting	

Mineable reserve	61.05 Million Tonnes
Life of the Mine	50 years
Bench Height	8.0 m
Bench Width	20.0 m
Transportation details	Dumpers of 25 tonnes capacity will be used for transport of limestone from pit to crusher at Yanakandla mine.
Topsoil/OB	PP submitted that no topsoil generation is envisaged during the lease period. About 1.2 MTPA/4,80,000 Million cu.mts of over burden to be removed and to be dumped within the mine lease area.
Conceptual land use	PP submitted that the total mine lease area is 181.03 ha out of which 139.679 ha will be utilized for mining operations during life of mine / lease period (50 years), 17.391 ha area will be under dumps, 18.907 ha will be undisturbed and Greenbelt will be developed over an area of 4.8 ha (7.5m barrier zone) and 0.253 ha will be under utilities.
Water table	220 m RL to 210m RL from ground level
Ultimate Depth of mining	296.0 m RL
Ground water intersection	PP reported that the mining activity will be well above the ground water table and there is no chance of ground water intersection.

7. The Project Proponent reported that the proposed peak water requirement is about 152.5 m³/day for dust suppression, plantation and domestic purposes. This requirement will be met through existing pits of other captive mines and after development of the mine pit in this instant mine, rain water collected in the mine pit will be used.

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

Particulars	Particular's Name	Distance & Direction
Village	Gollagutta	0.102 km, S
	Govindine	2.2 km, SE
Town	Nandyal	31.5 km, ENE
Highway	State Highway (NH – 380) Connecting Banaganapalli – Kurnool	0.07 km, S
Railway Station	Dhone – Nandyal of South Central Railway line	4.06 km, WNW
	Betamcherla RS	7.2 km, NW
Temple	Yaganti Uma Maheswara Swami Temple	7.82km, SSW
Waterbodies	Reguvanamu Vagu	0.01 km, S
	Muchchatla Vagu	0.1 km, SW
	GNSS Canal	5.84 km, ESE

	Srisailam Right Bank Canal	7.85 km, ESE
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9. The Project Proponent reported that there is no forest land involved in the mine lease area. PP also reported that there is no National Park, Wild Life Sanctuary, Tiger/Elephant Reserves, Biosphere Reserves within 10 Km radius of the study area. Further, PP reported that the following Reserve Forests such as near Govindinne Village RF – Adjacent, E, Ramathirtham RF- 2.0 km, NE, Rangapuram Block A RF, 0.4 km, S, Rangapuram Block B RF– 0.3 km, W, Panyam RF - 3.3 km, N, near Yanakandla Village RF -5.9 km, SSE, Ramathirtham Extension RF – 7.4km, NE, Ramathirtham Extension Block II RF – 0.4km, NE and Betamcherla RF - 8.1 km, NNW are found within 10km of the study area.

10. The Project Proponent reported that the Greenbelt will be developed over an area of 5.296 ha.

11. The Project Proponent submitted that there is no human settlement within the mine lease area and the mining activities do not involve any displacement of human settlement. Hence, no Rehabilitation and Resettlement issues envisaged for the project.

12. 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.

13. Details of project cost and employment:

Particulars	(Rs. In Crore)
Project Cost	Rs.3.0 Cr
Employment	68 Persons

14. Observation and Recommendation of the Committee:

The proposal for Terms of Reference was considered in the 48th EAC (Non-Coal Mining) meeting held during 28th - 30th March, 2022. After detailed deliberations made by the Project Proponent and the Consultant, the Committee **recommended** the proposal for grant of Terms of Reference for M/s. Sree Jayajothi Cements Private Limited for mining of Limestone in Gorlagutta Limestone Block (Auction Block) with production capacity of Limestone: 1.2 MTPA, Over Burden: 1.2 MTPA, Top Soil: Nil (Total excavation: 2.4 MTPA) within the mine lease area of 181.03 ha, located at Village Gorlagutta, Betamcherla Mandal, Kurnool District, Andhra Pradesh 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 Project Proponent needs to monitor the ambient air quality, noise level and ground vibration at the mine lease boundary in the direction of the habitation. PP

should also submit the protection measures taken for protection of habitation due to mining activity. The data monitored should be submitted to the Ministry.

- ii. 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 and the cement plant 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.
- iii. 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.
- iv. The Project Proponent needs to submit the protection measures to be taken in compliance of the MoEF&CC Office Memorandum No. Z11013/57/2014-IA.II (M), dated 29th October, 2014.
- v. The Project Proponent shall undertake the peripheral plantation after the grant of Terms of Reference and the plantation undertaken shall be submitted by mentioning the details of no. of saplings planted, type of species planted and amount spent towards peripheral plantation along with the photographs at the time of appraisal of Environmental Clearance (EC). PP should also submit the detailed plantation/greenbelt plan in tabular format (year wise for entire life of mine) with proper capital and recurring cost.
- vi. 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.
- vii. The Project Proponent needs to submit the land use classification of mine lease area of 181.03 ha along with the ownership of the land with the supporting documents.
- viii. The Project Proponent should submit the list of Schedule – I species present in the lease area authenticated by PCCF and the status of Forest land, National Park/Sanctuary, Biosphere Reserve/Tiger Reserve/Elephant Reserve/any other

Reserve, Habitat for migratory birds, Corridor for animals within 10 km of the lease area.

- ix. The Committee noted that on viewing the KML file few excavated mine pits are visible on NW and eastern side within the mine lease area. Hence, the Project Proponent needs to submit the letter from Department of Mines and Geology, Government of Andhra Pradesh clarifying whether any illegal mining activity has been carried out by PP or not.

1.3 Proposal for Environmental Clearance of M/s. UltraTech Cement Ltd for mining of limestone in Sitapuri Limestone mine for expansion of production capacity of Limestone from 3.66 Million TPA to 6.20 Million TPA, Soil: 0.52 Million TPA, OB/SB/IB: 4.48 Million TPA (Total Excavation: 11.20 Million TPA) along with expansion in Crusher Capacity from 1200 TPH to 1800 TPH within the mine lease area of 965.0 ha, located at Villages: Sitapuri, Udiyapura, Borlai, Avaral, Andiyav & Chirakhan, Tehsil: Manawar, District: Dhar, Madhya Pradesh – [File No: J-11015/442/2013-IA-II(M), Proposal No: IA/MP/MIN/26252/2013; Consultant: J.M. EnviroNet Pvt. Ltd.] - Environmental Clearance (Expansion).

EAC Meeting Details:

EAC meeting	48 th
Date of Meeting	28 th – 30 th March, 2022

The proposal of M/s. UltraTech Cement Ltd is for mining of Limestone in Sitapuri Limestone mine for expansion of production capacity of Limestone from 3.66 Million TPA to 6.20 Million TPA, Soil: 0.52 Million TPA, OB/SB/IB: 4.48 Million TPA (Total Excavation: 11.20 Million TPA) along with expansion in Crusher Capacity from 1200 TPH to 1800 TPH within the mine lease area of 965.0 ha, located at Villages: Sitapuri, Udiyapura, Borlai, Avaral, Andiyav & Chirakhan, Tehsil: Manawar, District: Dhar, Madhya Pradesh. The mine lease area is located between Latitude 22°20'7.669"N to 22°23'8.635"N and Longitude 75°05'25.663"E to 75 °07'29.634"E. The mine lease area falls under the Survey of India Toposheet no: F43J3, F43J4 & F43J15 and falls in Seismic Zone – II. The Project Proponent presented the KML file during the presentation to indicate the location of mine lease on Google Earth.

2. M/s. UltraTech Cement Limited has made an online application vide proposal no: IA/MP/MIN/26252/2013 dated 16.02.2022 and submitted Form 2 and EIA report under the provisions of the EIA Notification, 2006. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals under Category "A" of the schedule of the EIA Notification, 2006 as the mining lease area is greater than 100 ha and appraised at Central level.

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

Date of application	Proposal No	Consideration	Details	Date of accord
04.07.2015	IA/MP/MIN/26252/2013	September 22-24, 2015	Environmental Clearance for Sitapuri Limestone mine with production capacity of 3.66 Million TPA (ROM) of Limestone in the mine lease area of 965 Ha	30.12.2015

4. The details of the Terms of References (TOR) are furnished as below:

Date of application	Proposal No	Consideration	Details	Date of accord
28.02.2021	IA/MP/MIN/200702/2021	27 th -30 th July, 2021	Terms of Reference for Sitapuri Limestone mine for expansion of production capacity of Limestone from 3.66 Million TPA to 6.20 Million TPA, Topsoil: 0.52 Million TPA, OB/SB/IB: 4.48 Million TPA (Total Excavation: 11.20 Million TPA) along with expansion in Crusher Capacity from 1200 TPH to 1800 TPH within the mine lease area of 965.0 ha	17.08.2021

5. Details of mine lease:

S.no	Letter of Intent/Grant of mine lease	Date of the grant	Name of the Mineral	Period of Grant/ Validity	Granted by	Mine lease area in Ha
1	Letter of Intent for grant of mine lease vide Lr No F 3-31/2009/12-1	23.09.2013	Limestone	6 months	Govt of Madhya Pradesh	965 Ha
2	Grant of mining lease vide F 3-46/2006/12-2	03.05.2014	Limestone	30 years	Govt of Madhya Pradesh	965 Ha

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3	Lease extension vide Lr 1190/Mineral/2015-16	11.06.2015	Limestone	50 years	Office of the Collector (Mining Office), District Dhar, Madhya Pradesh	965 Ha
4	Agreement for extension of mining lease vide 684/Mineral/2016-17	19.05.2016	Limestone	50 years	Office of the Collector (Mining Office), District Dhar, Madhya Pradesh	965 Ha

6. 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.	09.05.2014	08.05.2044	Lease deed executed between Governor of Madhya Pradesh and M/s UltraTech Cement Ltd in a non-judicial stamp paper of Rs 5000 bearing 832465 dated 09.05.2014.
2	Date of entering into supplementary lease deed.	09.05.2014	08.05.2064	Lease deed executed vide No.MP119002020A1629881 and registered on 05.10.2020

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

Private land	772.75 ha
Government land	192.25 ha
Total Mining lease area (MLA)	965.00 ha
Private land for crusher, workshop & other infrastructure outside the MLA	Nil
Additional information (if any)	PP submitted that the total mine lease area is 965 ha, out of which 192.25 ha is Govt. Land & 772.75 ha is Private land. Out of the 772.75 ha of Pvt. Land, surface right has been obtained for 676.618 ha land, out of which 545.597 ha land

	has been acquired through surface right & 14.511 ha land has been acquired through registry. Remaining 131.016 ha Pvt. land is left to be acquired for which surface right order has already been obtained. Thus, total land under possession is 752.358 ha, to be acquired is 131.016 ha & not to be acquired (non-mineralized zone) is 81.621 ha.
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8. Mining plan:

S.no	Mining Plan along with the Conceptual Plan Approved By	Letter no	Dated of Approval	Grant period		Details
				From	To	
1	Modification in Approved Mining Plan and Progressive Mine Closure Plan approved by Indian Bureau of Mines	MP/Dhar/Limestone/MPL N/MOD-19/2020-21/3961	12.02.2021	2021-22	2023-24	Limestone over an area of 965 ha

9. The Project Proponent submitted that mining operations are being carried out by fully mechanized opencast method, utilizing Heavy Earth Moving Machinery (HEMM) with drilling and blasting with the use of suitable explosives and same shall continue in future also. PP reported that the Total geological reserve is 207.42 Million TPA (As on 01.04.2021) and Mineable Reserve is 118.81 Million TPA (As on 01.04.2021). The life of the mine will be 19.5 years (say 20 years). The bench height will be 6-8 m and bench width will be 25-30 m (working width). The individual benches are sloped at 80° to 85° from horizontal and overall pit slope will be 45°. Excavated limestone is being/will be transported from mine face to crusher via 40 Tonnes dumpers and waste to the excavated pit (where the limestone fully extracted up to ultimate pit limit) for backfilling purpose. After crushing, the limestone is being/will be transported by ~8.2 km long covered conveyor belt to cement plant for stacking in stockpile and is being used as main raw material for clinker/cement manufacturing. Double rotor impact crusher of 1200 TPH capacity has been installed in southern most part of the ML. It will have peak performance level of 1800 TPH after minor modification and debottlenecking. PP reported that at present, 0.393 Million Tonnes of Soil & 1.03 Million Tonnes of waste have been generated. Soil has been stacked with retaining wall at toe of dump & some part is being used in greenbelt/plantation. Waste is being used for backfilling purpose & small quantity used in construction of settling ponds, channels, garland drains etc. At the end of life of mine; 9.96 Million Tonnes of Soil & 89.53 Million Tonnes of waste will

be generated. The waste will be concurrently used in backfilling & soil will be used in greenbelt/plantation & spreading over backfilled area. A part of waste also be utilized for development of access roads and haul roads within ML. PP reported that water table exists at a depth of 230m AMSL to 241m AMSL and the present working depth is 242 m AMSL (28m bgl) and ultimate working depth will be 236m AMSL and Ground water shall be intersected during the year 2023-2024. PP submitted that there is one Kaccha road passing through the mine lease area connecting Borlai to Sitapuri Village and Borlai to Deora Village in NE to SE direction in southern part of the mine lease area. PP has proposed to shift these roads via Borlai – Avaral Village. PP also submitted that the Gram Panchayats of Sitapuri, Deora and Borlai Village accorded their consent for shifting of the roads vide letter no. 1580/JP/17 dated 25.07.2017.

10. Water requirement:

Total water requirement	185.0 KLD		Fresh water	176.0 KLD
	Existing	Additional	Treated water	9.0 KLD
	100 KLD	85 KLD		
Source	Mine pit and Bore wells			
Permission	PP submitted the NOC obtained from CGWA vide NOC noCGWA/NOC/MIN/ORIG/2022/14238, dated 05.01.2022 for groundwater withdrawal (9.0 KLD) & dewatering (195.13 KLD) and is valid up to 04.01.2024			

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

Particulars	Villages	Directions
Nearest Village	Village Avaral Village Chirakhan Village Borlai	Non-mining zone of ML Area in West Part Adjacent to the ML in NNE direction Adjacent to ML in East direction
Nearest Town/ City	Manawar	~10 km, South
Nearest Highway	SH-38 NH-59	~2.0 km, West ~24.0 km, North
Nearest Railway Station	Mhow Railway Station	~ 70 km, ENE
Water Bodies	NVDA Canal Part of Pond Man River Sukkar River Zirabad Reservoir Dongliya River Gandharva River	A canal is passing through the ML area entering from North direction and crossing the rest of the part of the ML Part of the pond (tank) falls in SW corner of the lease ~0.2 km, West ~2.5 km, West ~3.0 km, North ~8.0 km, NE ~8.0 km, West

12. The Project Proponent submitted that total minelease area is 965 ha out of which 192.25 ha is Govt. land & 772.75 ha is Private land and there is no forest land involved in the mine lease area. PP reported that following Reserve Forest such as Reserve Forest (~0.5km, E), Nimkhera RF (~3.0 km, ENE), Dhamnod RF (~4.0 km, ENE), Lawani RF (~5.5 km, East), Sardarpur RF (~8.0 km, NNW) and Dhar RF (~9.0 km, NE) exists within the 10 km radius of the study area. Further, PP submitted that there is no National Parks, Biosphere Reserve, Wildlife Corridors, and Tiger/Elephant Reserves located within the radius of 10km of the mine lease area. PP also submitted the location map authenticated from the Principal Chief Conservator of Forest and Chief Wild Life Warden, Bhopal, Govt. of Madhya Pradesh, vide letter no V. Pra./Maa. Chi./2581, Bhopal, dated 09.04.2015 and the same is further authenticated for expansion proposal vide letter no. V. Pra./Maa. Chi./Mine-23/8432, Bhopal, dated 17.11.2021. PP submitted the certificate obtained from District Mining officer, Dhar vide letter no. S. No./18/Mineral/2014-15, Dhar, dated 02.01.2014 confirming that the mining lease area does not falls under the “Aravali Range”. PP also submitted the Certificate from Regional Office, MPPCB, Bhopal vide letter no 850/Sh. Ka. Dhar/Pranibo/2020, Indore, dated 05.10.2021 confirming that the mining lease area does not falls under the “Critically Polluted Area”.

13. The Project Proponent reported that there is no Schedule I species found within the study area. PP submitted the list of flora and fauna authenticated from the Principal Chief Conservator of Forest and Chief Wild Life Warden, Bhopal, Govt. of Madhya Pradesh, vide letter no V. Pra./Maa. Chi./2581, Bhopal, dated 09.04.2015 and the same is further authenticated for expansion proposal vide letter no. V. Pra./Maa. Chi./Mine-23/8432, Bhopal, dated 17.11.2021.

14. Green belt/plantation details:

Proposed area for green belt/plantation	381.54 ha
7.5 m barrier & non-mineralized zone	35.18 ha
Others	At conceptual stage, 381.54 ha will be covered under greenbelt/ plantation/ (Greenbelt: 35.18 Ha, Plantation on Safety zone: 10.17 Ha, On Backfilled: 323.87 Ha, Bench Plantation: 12.32 Ha).
Budget for green plant & plantation till the end of life of mine.	Rs. 7.15 Crore
Existing status of plantation	PP reported that at present 6.4 ha area has been developed as greenbelt and 9.45 ha area has been developed under safety zone. Remaining area for greenbelt i.e., 28.78 ha area to be developed from the year 2021-22

	to 2023-24 & remaining plantation on safety zone i.e., 0.72 ha area will be developed from the year 2024-25 to 2028-29.
No.s of Plant	PP reported that at conceptual stage, approximately 5,72,310 no.s of trees will be planted on 381.54 ha area at the rate of 1500 trees per ha. Survival rate is/will be maintained at 90%.

15. The primary baseline data for specific micro-meteorology data, ambient air quality, waste quality, noise level, soil and flora & fauna has been collected during Winter season. The monitoring results of ambient air, surface water, soil, ambient noise and ground water for the month of December, 2020 to February, 2021 have been reported and no major divergence was observed with respect to concentration values of various parameters of collected samples.

Baseline Data (Air / Water / Noise / Soil / Ground water table/ others)					
Period of baseline data collection			December, 2020 to February, 2021		
Season (Summer / Pre-monsoon / Post-monsoon / Winter)			Winter		
Period	Results of Baseline monitoring				
AAQ parameters at 11 locations	Pollutant	Min, µg/m ³	Max, µg/m ³	98 %ile, µg/m ³	Standard, µg/m ³
	PM2.5	26.0	48.6	48.1	60
	PM10	53.9	89.1	88.4	100
	SO ₂	5.7	14.5	14.3	80
	NO _x	12.0	29.7	29.3	80
AAQ modelling (Incremental GLC)	Pollutant	Baseline Concentration, µg/m ³	Incremental Concentration, µg/m ³	Total GLC, µg/m ³	Standard
	PM2.5	48.6	1.3	49.9	60
	PM10	89.1	3.5	92.6	100
	SO ₂	13.7	2.0	15.7	80
	NO _x	28.1	1.4	29.5	80
Noise level at 11 locations	Day Time: 52.2 to 69.8 Leq dB (A) Night Time: 41.7 to 61.4 Leq dB (A)				
Surface water quality at 3 locations	PP submitted that the pH ranged from 7.35 to 7.49 indicating slightly alkaline in nature. The colour and turbidity within the permissible range and odour was found agreeable at all the locations. COD ranged from 16.3 to 41.4 mg/l and BOD ranged from 5.2 to 9.4 mg/l. The physical quality and chemical quality is good and safe for aquatic biodiversity. However, the results indicates that water sample collected from Man River is cleaner as compared to Zirabad Reservoir & Udiyapura Pond.				
Ground water	PP submitted that the pH ranged from 7.60 to 7.96 indicating slightly				

quality at 11 locations	alkaline in nature. The colour and turbidity were found to be BDL and odour and taste were agreeable at all sampling locations. Total hardness ranged from 239.48 to 416.05 mg/l, alkalinity ranged from 279.06 to 471.32 mg/l and Total Dissolved Solids ranged from 482 to 752 mg/l and maximum hardness & dissolved solids were found at village Avaral. The groundwater analysis indicated that all the samples were observed to be within the permissible limits and complies with the drinking water standard (IS: 10500-2012).
Soil quality at 11 locations	PP submitted that the soil samples exhibit Brown & Brownish Black color which indicated that the soil has high organic matter content and it varied from 0.71% to 0.96%. The textures of the collected soil samples found to be Silt clay loam and silty loam. pH ranged from 7.43 to 8.06 indicating slightly alkaline in nature. The results indicated that the texture, alkaline nature and presence of organic matter of the soil reflects that the soil is appropriate for the plant growth. Moreover, in terms of essential macro-nutrients, it can be said that the soil quality of selected locations is average for the plant growth.
Traffic study	PP reported that there will be no change in traffic density due to transportation of mineral as transportation is being/will be done by covered conveyor belt from crusher to the Dhar Cement Plant.

16. Public Hearing (PH) Details:

Advertisement for PH with date	National Level/Local Level: i. Free Press Edition on 28.11.2021 ii. Patrika Edition on 28.11.2021
Date of PH	29.12.2021
Venue	Mines Office, Sitapuri Limestone Mine, Village-Sitapuri, Vikaskhand – Manawar, District – Dhar, MP.
Chaired by	i. Dr. Saloni Sidana: Additional District Collector, Dhar ii. Mr. Kantilal Choudhary, Regional Officer, M. P. Pollution Control Board, (Dhar), Pithampur
Main issues raised during PH	Infrastructure Development, Education, Drinking Water Facilities, Pond Deepening Work, Employment based training plantation in nearby areas, Regular health check-up camp organization etc.
Budget proposed for addressing issues raised during PH	Rs. 3.13 Crores

17. The Project Proponent submitted the Consent to Establish issued by the M.P. Pollution Control Board vide outward no. 33817 and was valid from 10.07.2016 to 04.03.2021. PP also submitted the Renewal of Consent to Operate issued by the M.P. Pollution Control Board vide Outward No. 113057, dated 16.07.2021 for the production of Limestone of 3.660 Million Ton per year and is valid up to 31.07.2022. PP submitted the Certified EC Compliance report issued by the MoEF&CC, Regional Office, Bhopal vide File No. 3-12/2018 (Env.)/523, dated 16.07.2021. PP vide email dated 28.03.2022 submitted the Recertification of partially complied conditions was obtained from MoEF&CC, Regional Office, Bhopal vide file no 3-12/2018 (Env)/081, dated 15.03.2022.

18. The Project Proponent submitted that the mine started operation on Sept., 2017. PP submitted the past production details duly authenticated from the Office of Collector (Mining Branch) District, Dhar, MP vide letter no. 491/Khanij/2020-21, Dhar, dated 26.02.2021 from the year 2017-18 to 2020-21 (Up to Jan., 2021) and vide letter no. 3248/Khanij/2021-22, Dhar, dated 02.12.2021 from the year 2017-18 to 2021-2022 (Up to Nov., 2021). PP also submitted the Affidavit in a non-judicial stamp paper of Rs 100 bearing AX 956936 dated 25.02.2021 stating that they will 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.

19. The Project Proponent submitted that total mine lease area is 965 ha out of which 192.25 ha is Govt. land & 772.75 ha is Private land. Out of the 772.75 ha of Pvt. Land, surface grant order has been obtained for 676.618 ha land, out of which 545.597 ha land has been acquired and 14.511 ha land has been purchased through registry. Total fixed compensation for surface right for 545.597 ha land is Rs. 89.099 Crores was calculated by State Govt., against which the company paid Rs. 109.119 crore (Rs 20.02 crore extra). Remaining 131.016 ha of Pvt. Land to be acquired through surface right for which the amount fixed by the State Govt. is Rs. 21.691 crore and in against of the same, the PP will pay Rs. 26.181 crore (Rs 4.49 crore extra). Thus, total land under possession is 752.358 ha, to be acquired is 131.016 ha & not to be acquired (non-mineralized zone) is 81.621 ha. PP also reported that the no of Project Affected Families (PAFs) is 559 no.s and the no. of households is 1506 no.s. The Govt. Land has been acquired after taken permission directly from the State Government. The Private land which mostly belongs to tribal neither it has not been acquired directly nor will be in future. UTCL has been taken surface right through the District Collector for private land acquisition for mining, UTCL has granted surface right under section 247 (5) of MP Land revenue Code 1959. There will be no voluntary resettlement done. Every PAFs are being/ will get the best suitable compensation for land lease. Total budget proposed for the R&R Action Plan is Rs. 110.790 Crore.

20. 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.

21. **Affidavit/Undertaking details:**

PP submitted an undertaking dated 15.02.2022	PP certified that we have reviewed the EIA report and take full responsibility and ownership of the contents presented in the EIA report by J.M. EnviroNet Pvt. Ltd. Instructions as per MoEF&CC vide O.M. No. J-11013/41/2006-IA. II (I) dated 4 th August, 2009 has been followed in the preparation of this EIA Report.
Consultant submitted an Undertaking dated 15.02.2022	The conditions laid down in Terms of Reference prescribed by MoEF&CC, New Delhi vide letter no. J-11015/23/2021- IA-II (M) dated 17.08.2021 have been complied as per data/details provided by Project Proponent & as per Approved Modified Mining Plan along with Progressive Mine Closure Plan approved by IBM and the data submitted are factually correct.
Plagiarism Certificate checked on 16.02.2022	The Head of the Accredited Consultant Organization/ Authorized person certified that this EIA Report has been evaluated by using online in-house software viz. Plagiarism Checker X. The report produced has been analyzed by the system and based on that, I certify that the EIA Report produce in accordance with good scientific practice.

22. **Details of the EMP**

S. No.	Activities	Budget (Rs. In Crore)		
		Existing	Additional	Total
1.	Project Cost	185.21	22.5	207.70
Cost for EMP				
2.	A. Cost for Environment Protection	2.31	2.95	5.26
	B. Budget for addressing the Public Hearing Issues	1.10	3.13	4.23
	C. Cost for conservation of Flora & Fauna	-	0.1	0.1
	Total EMP	3.41	6.18	9.59
3.	Recurring Cost for EMP (Lakh/Annum)	1.01	1.15	2.16

23. **Details of project cost and employment:**

Particular	Budget (Rs. In Crore)
Capital Cost for Environment Protection	2.95
Budget for addressing the Public Hearing issues	3.13
Total Cost for EMP	6.18 including Rs. 0.1 crore for conservation of Flora & Fauna
Recurring Cost for EMP	1.15
Project Cost	22.5
Employment	Existing: 112 persons, Proposed: 51 persons Total: 163 persons

24. Observation and Recommendation of the Committee:

The proposal for Environmental Clearance (Expansion) was considered in the 48th EAC (Non Coal Mining) meeting held during 28th – 30th March, 2022. After detailed deliberations made by the Project Proponent and the Consultant, the Committee **recommended** the proposal for grant of Environmental Clearance for M/s. UltraTech Cement Ltd for mining of limestone in Sitapuri Limestone mine for expansion of production capacity of Limestone from 3.66 Million TPA to 6.20 Million TPA, Soil: 0.52 Million TPA, OB/SB/IB: 4.48 Million TPA (Total Excavation: 11.20 Million TPA) along with expansion in Crusher Capacity from 1200 TPH to 1800 TPH within the mine lease area of 965.0 ha, located at Villages: Sitapuri, Udiyapura, Borlai, Avaral, Andiyav & Chirakhan, Tehsil: Manawar, District: Dhar, Madhya Pradesh subject to the following specific conditions in addition to the standard EC conditions applicable for non-coal mining projects:

- i. The Environmental Clearance will be valid for 19 years from the date of initial grant of EC letter dated 30.12.2015 as the life of the mine is 19 years.
- ii. 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.
- iii. The Project Proponent needs to install one monitoring station to monitor air quality, noise level and ground vibration near the School in Block-3 and data monitored should be submitted to the Ministry's Integrated Regional Office and Madhya Pradesh Pollution Control Board every six months.
- iv. The budget of Rs 3.13 Cr 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 carry out the gap plantation within one year in such a way that there of density of the plantation should be uniform and the survival rate should not be less than 95%. PP also needs to carry out the extensive peripheral plantation in Block-3 in view of proximity of the School.
- 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 29thOctober, 2014.
- vii. The Project Proponent needs to submit the performance report on tribal welfare and EMP fund expenditure with targets achieved annually to the Ministry's Integrated Regional Office.
- viii. The Project Proponent should implement the Rehabilitation of project affected families (PAFs) and payment of compensation to PAFs as per the policy and guidelines of the Central/State Government, as provided under the law.
- ix. 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.
- x. 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 machinery.
- xi. 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.

1.4 Proposal for Terms of Reference (ToR) of M/s Tata Steel Limited for Tiringpahar Iron & Manganese mines for enhancement of production of Manganese Ore from 0.85LTPA (0.98LTPA ROM) to 5.38LTPA (ROM) and production of Iron Ore (new product) for 6.889LTPA (ROM) with overburden generation of 41.62 LTPA (Peak) & Total excavation of 52.17 LTPA (Peak) within the mine lease area of 169.0 ha located at villages Guruda, Palasa (Kha), Jadibahal & Khondbondh, Barbil Tehsil, Keonjhar District, Odisha – [File No: J-11015/87/2004-IA.II(M), Proposal No: IA/OR/MIN/255835/2022; Consultant: Vimta Labs Limited] - Terms of Reference (Expansion)

EAC Meeting Details:

EAC meeting	48 th
Date of Meeting	28 th – 30 th March, 2022

The proposal of M/s Tata Steel Limited is for Tiringpahar Iron & Manganese mines for enhancement of production of Manganese Ore from 0.85LTPA (0.98LTPA ROM) to 5.38LTPA (ROM) and production of Iron Ore (new product) for 6.889LTPA (ROM) with overburden generation of 41.62 LTPA (Peak) & Total excavation of 52.17 LTPA (Peak) within the mine lease area of 169.0 ha located at villages Guruda, Palasa (Kha), Jadibahal & Khondbondh, Barbil Tehsil, Keonjhar District, Odisha. The mine lease area is located between Latitude 21°54'N to N 21°59'N and Longitude 85°22'E to 85°26'E. The mine lease area falls under the Survey of India Toposheet No: 73 G/5 and falls in Seismic Zone-II. The Project Proponent presented the KML file during the presentation to indicate the location of mine lease on Google Earth.

2. The Project Proponent earlier applied for Terms of Reference vide online proposal no: IA/OR/MIN/79113/2018 dated 16.09.2018 and the proposal was considered by the EAC in its meeting held during 3rd -5th February, 2021 wherein the Committee noted that this is a violation of the EIA Notification 2006 and subsequent amendments as PP has enhanced the manganese ore during 2006-07 (86715 TPA) against the approved EC capacity of 85,000 TPA and the EAC recommended the proposal for grant of Standard Terms of Reference and accordingly the Ministry issued the Terms of Reference vide No. IA-J-110115/117/2018-IA-II(M) dated 04.03.2021 for Tiringpahar Iron and Manganese Mine of M/s Tata Steel Limited with the production capacity of 0.85 LTPA of Manganese Ore (MLA: 169.00 ha), located at Palsha, khondbond, Jaribahal and Gurda village at Barbil Tehsil in Champua sub-division of Keonjhar District in Odisha. In addition to Standard Term of Reference for non-coal mining, standard ToR as per the recommendation made by NEERI in its carrying capacity study for Odisha.

3. The Project Proponent earlier applied for amendment in ToR vide online proposal no: IA/OR/MIN/214987/2021 dated 20.07.2021 and the proposal was considered in the 34th EAC (Non Coal Mining) meeting held during 27th to 30th July, 2021, the Committee opined that SOP dated 07.07.2021 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 returned the proposal in present form and was of the view that PP should approach Ministry after the final adjudication of the Hon'ble High Court.

4. Now, the Project Proponent applied for fresh proposal for Terms of Reference vide proposal no: IA/OR/MIN/255835/2022 dated 16.02.2022 for inclusion of Iron Ore and submitted Form 1 and Prefeasibility report under the provisions of the EIA Notification, 2006. The proposed project activity is listed at schedule no. 1(a) Mining of

Minerals under Category “A” of the schedule of the EIA Notification, 2006 as the mining lease area is greater than 100 ha and appraised at Central level.

5. The Project Proponent initially obtained Environmental Clearance vide MoE&F vide LrNo.J-11015/87/2004-IA.II(M) dated 17.11.2005 for enhancement of production of Manganese Ore from 0.43 LTPA to 0.85 LTPA involving a lease area of 169 Ha under the provisions of the EIA Notification, 1994.

6. The Project Proponent submitted that the lease was granted for a period of 30 years with effect from 01.03.1930 over an area of 643.710 hectares in villages Palasa (Kha), Jadibahal, Khandbondh, Joruri, Jalahari, Jajanga and Baitarani Reserve Forest in Keonjhar District, Odisha. The lease area is consisting with three discontinuous blocks as Guruda, Joruri and Tiringpahar. The first renewal was for a period of 20 years from 01.03.1960 to 29.02.1980 over an area of 643.710 ha. The second renewal was for a period of 20 years from 01.03.1980 to 29.02.2000 over an area of 643.710 ha. The application for third renewal of mining lease on 05.01.1999 for Iron and Manganese Ore over an area of 169.0 ha, which is prior to expiry of the 2nd renewal of mine lease period i.e., 29.02.2000. The mining operations are thus continuing & confined within the applied area of 169.0 ha as per the provisions of Rule 24A (6) of MCR-1960. The Govt. of Odisha vide letter no. 3278/S&M/Bhubaneswar dt. 18.04.2015 have extended the validity period of lease under Section 8A of the M&M (D&R) Act, 1957 as amended by the MMDR (Amendment) Act, 2015 from the date of expiry of the last valid period of lease i.e., 01.03.2000 up to 31.03.2030 and Supplementary lease deed was executed between the Governor of Odisha and M/s Tata Steel Limited vide Affidavit bearing 031659 dated 08.05.2015 for the period upto 31.03.2030.

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

Forest land		Non-Forest land	
Type of forest	Area (Ha)	Type of land	Area (Ha)
Khesra Forest	10.392	Waste land	23.864
DLC Forest	58.522	Agricultural land	2.647
Sabik Forest	64.26	Other land (Khani)	9.315
Total Forest land	133.174 Ha	Total Non-Forest land	35.826 Ha
Total mining lease area (MLA)		169.0 ha	

8. The Project Proponent submitted the Approval of Review of Mining Plan of Tiringpahar Iron and Mn Mine along with the Progressive Mine Closure Plan (PMCP) approved by Indian Bureau of Mines (IBM) vide Lr. No.RMP/A/07-ORI/BHU/2020-21 dated 31.07.2020 over an area of 643.710 Ha for the period 2020-21 to 2024-25. PP also submitted that the process of surrender of the balance area of 474.710 Ha is under progress with the State Govt, therefore the mining plan prepared showing original lease area of 643.710 Ha. PP submitted that the Final Mine Closure Plan (FMCP) for 474.710

ha was submitted to IBM and approved vide letter no. FMCP/OTFM/09-ORI/BHU/2015-16, dated 01.09.2016. Hence, the mining and allied activities have been confined within the retained area of 169.0 ha.

9. The Project Proponent submitted that the method of mining will be fully mechanized opencast having provision of sorting and sizing by manual means. The excavation is being carried out by shovel dumper combination. Drilling by 100mm & 150 mm drills and blasting by conventional explosives. The benches are being maintained with 6 - 8 m high with width of 8 - 10m. PP reported that the total Manganese Ore reserve and resource is 5.007 Million Tonnes and Iron Ore reserve and resources is 5.84 Million Tonnes as on 01.04.2020. The anticipated life of mine is about 8 years by considering the proved reserves and resources available as on 01.04.2020. ROM excavated from quarry is dressed, sorted, and sized/graded at sorting yard by manual means. The waste from mining is overburden generated during extraction of ore, which shall be stacked separately and rehabilitated by adequate plantations in the area as per progressive reclamation activities. Mode of transport of raw material inside mine is by dumpers. From the mine to the railway siding, the ore will be transported by the help of dumpers having capacity of 10-30 tonnes. The manganese ore is transported by road or by rail to the ferro alloys plants to convert it to ferro manganese which in turn will transport it back to steel plants primarily by road transport. Proposed expansion shall also use dry magnetic separator apart from dry screening & crushing plant. Presently, the iron ore is not being processed within the lease area. The same is stacked at suitable locations within the lease and shall be used in future. Depending upon the requirement, it is proposed that iron ore (mineral rejects) will be processed through mobile dry processing units only for crushing for sizing and screening. Dry processing unit having 2 X 275 TPH of crushing and double deck vibrating screening arrangement will be used for processing all grades of the ore based on the specification from captive steel plants/ customers. PP also reported that no Ground water intersection in the mine is envisaged since the bottom RL of the present operating pit is around 582 mRL and will reach 556 mRL at the end of present plan period which is upto 31st March 2025 whereas the pre-monsoon and post monsoon depth of the water table is 492 and 495 mRL respectively.

10. The Project Proponent reported that after the expansion of the project, peak water requirement will be 225m³/day. Water shall be sourced from Baitarani River as per the State Govt's allocation order No.7397/WR/WR-MAJII-WRC0012/2020 (OSWAS) dated 13.03.2020 for withdrawal of 0.4 cusec of water from River Baitarani and is valid till 12.03.2023. With expansion of the project ground water shall be required for drinking purpose which will be below 100KLD. PP also submitted the surface water agreement executed between M/s Tata Steel Limited and Governor of Odisha represented Ex. Engineer, Baitarani Division vide Affidavit bearing No.09AA 772217 dated 27.08.2021 w.e.f. 02.06.2021 for a period of 1 (one) year.

11. The Project Proponent submitted that the total mine lease area is 169.0 Ha, out of which 133.174 ha is Forest Land and 35.826 ha is Non-Forest Land. PP obtained Stage-II Forest clearance from MoEF vide F.No. 8-80/2004-FC, dated 28.03.2007 for diversion of 52.348 ha of forest land and Stage-I clearance from MoEF&CC vide F.No. 8-01/2019-FC, dated 02.08.2019 for balance forest area 80.826 ha (16.566 ha of forest land and 64.260 ha of non-forest land recorded as forest as on 25.10.1980) including 3.916 ha of forest land in safety zone and 1.129 ha of forest land in green belt in addition to 52.348 ha of forest land already diverted (total forest land of 133.174 ha) within the total mining lease over an area of 169.0 ha. PP also reported that there are no Historical monuments, National Parks, Biosphere Reserve, Wildlife Sanctuary, Habitat for Migratory Birds, Archaeological site, Defense installation within 10 km radius from the periphery of mine lease area.

12. The Project Proponent submitted the Consent to Establish (CTE) issued by the State Pollution Control Board, Odisha vide No. 1678/IND-II-NOC-5645 dated 11.02.2019 for Tiringpahar Manganese mines of M/s Tata Steel Ltd for establishment of 1x50 TPH mobile crusher with screening plant of capacity 392 TPD for processing of manganese mine for a period of five years till 02.05.2023. PP also submitted the Consent to Operate (CTO) issued by the State Pollution Control Board, Odisha vide letter no. 536/IND-I-CON-190, dated 07.01.2022 for an annual production of 0.85 LTPA of manganese ore with 392 TPD mobile screening plant and 50 TPH mobile crushing plant with validity upto 31.03.2025.

13. The Project Proponent submitted the year wise production data authenticated from the Office of the Deputy Director Mines, Joda Circle, vide Memo No: 3878/Mines, dated 19.09.2018 from the year 1993-94 to 2017-18 and from the Office of the Joint Director Mines, Joda Circle, vide Memo No:429/Mines, dated 25.01.2021 from the year 2018-19 to 2019-20 and from the Office of the Joint Director Mines, Joda Circle, vide Memo No:4182/Mines, dated 20.07.2021 for the period 2020-21. Based on the production details provided by the PP, it was observed that the production of manganese ore has been enhanced during 2006-07 (86715 TPA) than the approved EC capacity of 85,000 TPA. Demand was raised by the Deputy Director of Mines, Joda Circle, Dist. Keonjhar. vide Lr No. 4142/ Mines dated 02.09.2017 amounting for Rs. 35,49,28,268.00/- (Rupees Thirty Five Crore Forty Nine Lakhs Twenty Eight Thousand Two Hundred Sixty Eight 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.4632/ Mines, dated 23.10.2017 amounting for Rs. 24,93,22,425/- (Rupees Twenty-Four Crore Ninety three Lakhs Twenty Two thousand Four Hundred Twenty Five 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. In compliance to the order of the Hon'ble Supreme Court on

dated 02.08.2017 in WPC No. 114/2014, PP has paid the compensation amount of Rs. 35, 49, 28,268.00/- (Rupees Thirty Five Crore Forty Nine Lakhs Twenty Eight Thousand Two Hundred Sixty Eight only) on 18.12.2017 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 rationalised by the CEC as per the demand Notice No. 4146/ Mines dated 02.09.2017 issued by the Deputy Director of Mines, Joda Circle, Dist. – 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 497208 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 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(63) 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. PP also submitted that the case has been filed before the Hon'ble court of J.M.F.C, Barbil on 29.09.2020 in case 2 (c) C.C. No. 81/2020 of J.M.F.C, Barbil.

15. The Project Proponent submitted that no R&R plan is required as no displacement of people is envisaged in the proposed expansion.

16. Details of project cost and employment:

Particular	Budget (Rs. In Crore)
Project Cost	430
Employment	Existing: 267 persons, Proposed: 47 persons Total: 314 persons

17. Observation and Recommendation of the Committee:

The proposal for Terms of Reference (Expansion) was considered in the 48th EAC (Non-Coal Mining) meeting held during 28th-30th March, 2022. After detailed deliberations made by the Project Proponent and the Consultant, the Committee noted that the instant proposal is for inclusion of Iron ore (new product) in the Terms of Reference (ToR) granted on 04.03.2021 for production capacity of 0.85 LTPA of Manganese Ore in

the mine lease area of 169.0 ha. The Committee also noted that the PP was granted EC on 17.11.2005 for enhancement of production of Manganese Ore from 0.43 LTPA to 0.85 LTPA involving a mine lease area of 169.0 Ha as per EIA notification of 1994. Further, the Committee noted that the PP has earlier applied for amendment in ToR on 20.07.2021 and without amending the ToR, PP has again applied for Terms of Reference on 16.02.2022. The Committee was of the view that the instant proposal could not be considered in present form and the Project Proponent needs to obtain amendment in ToR for inclusion of Iron ore (new product) in ToR dated 04.03.2021. Therefore, the Committee **returned the proposal in present form.**

1.5 Proposal for Environmental Clearance of M/s. RCCPL Pvt Ltd for expansion of Limestone production from 3.5 MTPA to 5.0 MTPA, Top soil/alluvium: 0.039 MTPA, Overburden: 0.628 MTPA, Mineral Reject/IB:0.250 MTPA, (Total excavation: 5.917 MTPA) within the mine lease area of 363.440 ha [Forest land: 66.359 ha + Non-Forest land (Revenue land): 297.081 ha], located at Village Sadhera, Maihar Tehsil, Satna District, Madhya Pradesh – [File No: J-11011/700/2008-IA.II(I), Proposal No: IA/MP/MIN/258597/2010; Consultant: Vimta Labs Limited] - Environmental Clearance (Expansion)

EAC Meeting Details:

EAC meeting	48 th
Date of Meeting	28 th – 30 th March, 2022

The proposal of M/s. RCCPL Pvt Ltd is for expansion of Limestone production from 3.5 MTPA to 5.0 MTPA, Top soil/alluvium: 0.039 MTPA, Overburden: 0.628 MTPA, Mineral Reject/IB:0.250 MTPA, (Total excavation: 5.917 MTPA) within the mine lease area of 363.440 ha[Forest land: 66.359 ha + Non-Forest land (Revenue land): 297.081 ha], located at Village Sadhera, Maihar Tehsil, Satna District, Madhya Pradesh. The mine lease area is located between Latitude: 24°06'54.34"N to 24°08'37.7"N and Longitude: 80°44'29.85"E to 80°45'50.05"E. The mine lease area falls under the Survey of India Toposheet No: 63 D/12 & 16 and falls in Seismic Zone-II. The Project Proponent presented the KML file during the presentation to indicate the location of mine lease on Google Earth.

2. M/s. RCCPL Pvt Ltd has made an online application vide proposal no: IA/MP/MIN/258597/2010 dated 26.02.2022 and submitted Form 2 and EIA report under the provisions of the EIA Notification, 2006. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals under Category "A" of the schedule of the EIA Notification, 2006 as the mining lease area is greater than 100 ha and appraised at Central level.

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

Date of application	Proposal No	Consideration	Details	Date of accord
01.02.2010	IA/MP/MIN/185836/2010	17 th – 18 th May, 2010	Integrated Environmental Clearance for Cement Plant (Clinker 3.6 MTPA; Cement 5.0 MTPA) along with captive power plant (75 MW) near Villages Bharauli & Itahara and Limestone Mines (Sadhera Mine, 3.5 MTPA, 539.561 Ha) near Village Sadhera at Tehsil Maihar, District Satna, Madhya Pradesh in the name of M/s Reliance Cementation Pvt Ltd	23.03.2011

4. The details of the Terms of References (TOR) are furnished as below:

Date of application	Proposal No	Consideration	Details	Date of accord
01.12.2020	IA/MP/MIN/185837/2010	9 th – 11 th December, 2020	Terms of Reference for expansion of Limestone from 3.5 MTPA to 5.0 MTPA, Top soil/alluvium: 0.039 MTPA, Overburden: 0.628 MTPA, Mineral Reject/IB:0.250 MTPA, (Total excavation: 5.917 MTPA) within the mine lease area of 363.440 ha	30.12.2020

5. The Project Proponent submitted that the Government of Madhya Pradesh vide Order No: F2-69/07/12/1, Bhopal dated 16.07.2009 has communicated grant over precise area of 539.561 Ha. Then, the Government of Madhya Pradesh vide Order No: F2-69/07/12/1, Bhopal dated 30.04.2010 communicated grant of mine lease over revenue area of 291.792 Ha and it was communicated that the remaining area would be added to the above mine lease area through supplementary agreement provided required diversion/permission are obtained under Forest Conservation Act. The mine lease was executed on 17.06.2010 and subsequently registered on 30.07.2010. Thereafter, the Government of Madhya Pradesh vide Order No: F2-69/07/12/1, Bhopal

dated 04.03.2014 granted supplementary mine lease over 66.359 Ha diverted forest land and 11.989 Ha of forest safety zone land and Shuddhi Patrak dated 28.05.2014. Accordingly, PP executed the supplementary lease deed over an area of 363.44 Ha on 31.07.2014 and the mine lease is valid from 17.06.2010 to 16.06.2040. Then, PP obtained the name change from M/s Reliance Cement Company Private Limited to M/s RCCPL Private Limited on 01.08.2018.

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

Forest land	66.359 ha
Revenue land	297.081 ha
Total Mining lease area (MLA)	363.440 ha
Private land for crusher, workshop & other infrastructure outside the MLA	Nil

7. Mining Plan:

Review of Mining Plan along with Progressive Mine Closure Plan approved by Indian Bureau of Mines	Letter No.	MP/Satna/Limestone/RMP-37/2019-20, 1695
	Date	02.07.2020
	Validity	2020-21 to 2024-25
	Mine lease area	363.440
	Mineral	Limestone
Mining Parameters	Quantitative Description	
Method of mining	Opencast fully mechanized method of mining with deep hole drilling & blasting.	
Total Geological Reserves	93.944Million Ton	
Mineable Reserves	79.763Million Ton	
Life of the Mine	16 years	
Bench Height	6-10 m	
Bench Width	Minimum working bench width would be kept as 20 m	
Individual bench slope	80°	
Overall pit slope	60°	
Transportation details	Hydraulic excavator and Electrical Shovels are being used to load the blasted limestone into 55 Ton dumpers and the same is transported to the crushing plant located at a distance of about 2 to 3 km.The crushed limestone will be dispatched to the cement plant located at Bharauli in Satna district by 'Over Land Closed Belt Conveyor' of around 7.5 km length.	
Crusher	PP proposed to install 400 TPH crusher within the mining lease area.	
Topsoil	PP submitted that during plan period74,238 m ³ of topsoil	

	will be generated and upto conceptual period, total 2,68,014 m ³ which will be generated which will be backfilled in south-east direction.
OB/Waste	PP reported that during the first five years period, about 14,61,948m ³ of OB/waste will be generated. Upto conceptual period 73,70,385m ³ OB will be generated. The generated OB/waste material will be mainly siliceous clay and high MgO shale, limestone etc. This material will be dumped on earmarked area and finally utilized for backfilling in subsequent stages of mining. In the later stages of mine, entire quantity of waste and soil will be utilized for back-filling and plantation purposes.
Ultimate Depth of mining	40 m Minimum Depth of working: 354 mRL Maximum Depth of working: 394 mRL
Ground water intersection	PP reported that the present mining operation encountered with the groundwater table. PP submitted the application for renewal of NOC from CGWA vide 21-4/53/MP/IND/2009 dated 30.03.2019.

8. The Project Proponent reported that the present requirement of water in the mine is about 250 m³/day. The total water requirement after enhancement will be about 343 m³/day. Required water for drinking purpose is being provided from the tube wells already installed in the mining area. For dust suppression water is sourced from the accumulated rain water from the pits. PP submitted the application for renewal of NOC from CGWA vide 21-4/53/MP/IND/2009 dated 30.03.2019.

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

Particulars	Villages	Directions
Nearest Village	Karaundi	0.2 km, NNE
Nearest Town/ City	Maihar	14.2 km, N
Nearest Highway	SH-11 NH-30	5.8 km, E 8.2 km, NW
Nearest Railway Station	Bhadanpur	8.3 km, NW
Water Bodies	Chakdahi Nala Tons River Kalindari Nala	Adjacent to mine site, E 3.6 km, NNW 3.9 km, E

10. The Project Proponent reported that the total mine lease area is 363.440 ha, out of which 66.359 ha is Forest land and 297.081 ha is Revenue land. PP submitted that the MOEF has accorded Stage - I & Stage - II clearances for approval of the diversion of 66.359 ha forest land vide order No.F.No.8-66/2010-FC dated 14.01.2011 and vide order No.F.No.8-66/2010-FC dated 08.11.2011 respectively in the name of M/s

Reliance Cementation Pvt Ltd. Further, PP reported that the following Reserve Forest such as Kaimur Hills – Adjacent to mine site, E and Hardua R.F – 6.7 km, SSE are found within 10km radius of the study area. PP also reported that there is no National Parks, Wildlife Sanctuaries, Biosphere reserves, Elephant/Tiger Reserve found within 10km radius of the study area.

11. The Project Proponent reported that two Schedule-I species such as Peacock (*Pavo cristatus*) and Common Indian Monitor (*Varanus bengalensis*) are found in the study area.

12. The Project Proponent submitted that the afforestation will be done covering an area of 170.467 Ha, out of which 52.27 Ha will be developed over external OB dump and 118.197 Ha will be developed under greenbelt. PP reported that a total of 28,617 saplings have planted over an area of 13.09 Ha from the year 2013-14 to 2019-20. Out of the of 28,617 saplings planted, 17,506 plants have survived with a survival rate of 61.17%. PP proposed to carry out the gap plantation in order to ensure a survival rate of over 80%. PP reported that a total of 3,43,840 saplings will be planted over an area of 170.467 Ha at the end of life of mine. PP earmarked a budget of Rs 15.0 Lakhs as Capital cost and Rs 0.4 Lakhs as recurring cost/annum till the end of the life of the mine.

13. The primary baseline data for specific micro-meteorology data, ambient air quality, waste quality, noise level, soil and flora & fauna has been collected during Pre-monsoon. The monitoring results of ambient air, surface water, soil, ambient noise and ground water for the month of March to May, 2019 have been reported and no major divergence was observed with respect to concentration values of various parameters of collected samples.

Baseline Data (Air / Water / Noise / Soil / Ground water table/ others)					
Period of baseline data collection			March to May, 2019		
Season (Summer / Pre-monsoon / Post-monsoon / Winter)			Pre-monsoon		
Period	Results of Baseline monitoring				
AAQ parameters at 8 locations	Pollutant	Min, µg/m ³	Max, µg/m ³	98 %ile, µg/m ³	Standard, µg/m ³
	PM2.5	23.3	49.6	38.7	60
	PM10	35.1	74.2	60.3	100
	SO2	8.9	16.8	14.2	80
	NOx	10.5	18.2	16.0	80
AAQ modelling (Incremental GLC)	Pollutant	Baseline Concentration, µg/m ³	Incremental Concentration, µg/m ³	Total GLC, µg/m ³	Standard
	PM2.5	49.6	0.1	49.7	60

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	PM10	74.2	1.8	76.0	100
	SO2	16.8	0.2	17.0	80
	NOx	18.2	1.3	19.5	80
Noise level at 8 locations	Day Time: 45.5 to 68.3 Leq dB (A) Night Time: 41.4 to 64.2 Leq dB (A)				
Surface water quality at 4 locations	PP reported that the pH value was observed to be in the range of 7.23 to 7.66, Electrical conductivity (EC) was observed to be in the range of 395 µS/cm to 624 µS/cm, Dissolved Oxygen (DO) was observed in the range of 5.3 mg/l to 6.4 mg/l and BOD values were observed in the range less than 3 mg/l. The physico-chemical and biological analysis revealed that most of the parameters are well within the permissible limits as per IS: 2296. The surface water quality does not indicate any industrial contamination.				
Ground water quality at 8 locations	PP reported that the pH value was observed to be in the range of 6.9 to 7.6, Electrical conductivity (EC) was observed to be in the range of 591 µS/cm to 1010 µS/cm, The Total Hardness of the samples ranged from 155.2–288.1 mg/l, Total Dissolved solids of the samples ranged from 298 - 625 mg/l. All the parameters are found to comply with the requirements of IS: 10500 specifications.				
Soil quality at 8 locations	PP reported that the pH of the soil ranged from 6.24 to 7.66. Electrical conductivity (EC) observed to be in the range of 128 µmhos/cm to 358 µmhos/cm, The nitrogen values ranged between 42.3 to 88.3 kg/ha indicating that nitrogen content is very less to less category. The phosphorus values ranged between 49.6 to 76.8 kg/ha, indicating that the phosphorus content in the study area falls in medium to sufficient category. The potassium values ranged between 118.6 – 165.8 kg/ha indicating that the potassium content falls in very less to less category.				
Traffic study	PP reported that the traffic study was conducted at three locations at Sadhera – Bhadanpur, [SH-11](To & Fro), Maihar – Bharauli, [NH-30] (To & Fro) and Maihar – Bhadanpur, [SH-11](To & Fro) passing adjacent to mine & cement plant site for 24 hours. It was observed that the 2/3 wheelers, cars/jeeps and trucks/buses form the major volume of the traffic. The total traffic PCU of this road is minimal. The total traffic load after implementation of the mining project will be well within the IRC stipulated maximum load of 15,000 PCU/day for a two-lane highway.				

14. Public Hearing (PH) Details:

Advertisement for PH with date	Hindi newspaper namely “Patrika” and “Nava Swadesh” dated 12.11.2021.
Date of PH	13.12.2021
Venue	Govt. Primary School, Village Sadhera, Tehsil Maihar, Dist. Satna

Chaired by	Additional District Magistrate, Satna
Main issues raised during PH	Employment, land compensation, CSR, Environmental Protection
Budget proposed for addressing issues raised during PH	Rs 1.828 Cr

15. The Project Proponent submitted the Consent to Operate issued by the Madhya Pradesh Pollution Control Board vide Outward No:113501 dated 21.09.2021 for Mining of Limestone of 3.50 Million Ton per year and the validity of the consent is up to 31.08.2022. PP submitted the EC compliance report certified by Ministry of Environment, Forest and Climate Change, Regional Office, Western Zone, vide File No: 5-21/2011(ENV)/691 dated 05.10.2020 which is partially compiled. Site visit was carried out by the Regional Office on 18.07.2020.

16. The Project Proponent submitted the past production details authenticated from the from the Department of Mines and Geology, Government of Madhya Pradesh vide Letter dated 07.01.2020 from the year 2013-14 to 2015-16 and vide Letter dated 30.08.2019 from the year 2016-17 to 2018-19. PP also submitted the Affidavit in a non-judicial stamp paper of Rs 100 bearing AF 819060 dated 28.05.2020 that they will 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 & others.

17. The Project Proponent submitted that Sadhera is the only affected in the mine lease area and there are 178 Project Displaced Families (PDFs) and 27 Project Affected Families (PAFs). Land has been purchased from 168 owners out of total 205 owners and out of 178 owners of homestead, 141 have been displaced. PP submitted that the assistance has been given to 13 out of 14 self-employed people who had lost their livelihood such as shops, petty business etc.,

18. 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.

19. Details of the EMP:

S. No.	Activities	Proposed Cost (In Lakhs)	
		Capital	Recurring Cost/Annum
1.	Pollution monitoring and air quality equipment's	22.0	0.5
2.	Water quality monitoring & management	5.0	0.3
3.	Greenbelt / Plantation for entire period	15.0	0.4

	Total	42.0	1.2
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23. Details of project cost and employment:

Particular	Budget (Rs. In Crore)
Budget for addressing the Public Hearing issues	Rs 1.828
Capital Cost for Environment Protection	0.42
Recurring Cost for EMP	0.012
Project Cost	51.0
Employment	Existing: 81 persons, Proposed: 26 persons Total: 107 persons

24. Observation and Recommendation of the Committee:

The proposal for Environmental Clearance (Expansion) was considered in the 48th EAC (Non-Coal Mining) meeting held during 28th-30th March, 2022. After detailed deliberations made by the Project Proponent and the Consultant, the Committee noted that the consultant could not able to bring out the technical details and performance of the consultant is not satisfactory and the Committee opined that the Project Proponent needs to revise the technical presentation. Therefore the Committee **deferred** the proposal for want of following additional information:-

- i. The Project Proponent needs to submit the validation of baseline data for expansion of production from 3.5 MTPA of total excavation to 5.0 MTPA of total excavation for assessing the impact of air quality, noise level and ground vibration.
- ii. 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.
- iii. The Project Proponent needs to revise the budget of public hearing concerns raised by the public with a timeline of 3 years from the date of start of mining operations. The activities proposed should be actionable and monitorable.
- iv. The Project Proponent needs to revise the EMP cost by removing the cost of monitoring and should submit the activity wise time bound actionable budget. PP should assign the recurring cost on the EMP cost to be spent every year. PP

- should also submit the details of EMP in place and its efficacy and the amount spent towards the same.
- v. The Project Proponent needs to submit the land use classification of revenue land of 297.081 Ha and their designated use. PP needs to submit the map demarcating the mineralized and non-mineralized area in the forest land of 66.359 ha. PP also needs to submit the ecology restoration plan.
 - vi. The Project Proponent needs to submit the protection measures already taken and proposed for protection of seasonal nallas in the vicinity of the mine lease area.
 - vii. The Project Proponent should explore the possibility of plantation of Teak in the mine lease area.
 - viii. The Project Proponent needs to submit the latest satisfactory certified EC compliance report by the Ministry's Integrated Regional Office for the EC granted on 23.03.2011.
 - ix. The Project Proponent needs to clarify whether the proposal of installation of 400 TPH crusher is also a part of ToR proposal and whether the same has been included in the Public Hearing or not?
 - x. The Project Proponent needs to clarify whether amendment in EC has been obtained for reduction of mine lease area from 539.561 ha to 291.792 Ha and then to 363.440 ha. Also, PP needs to clarify whether transfer of EC from M/s Reliance Cementation Pvt Ltd to M/s RCCPL Private Limited has been obtained by PP or not? PP needs to submit all the supporting documents in this regard.
 - xi. The Project Proponent needs to submit the valid mine lease document and lease deed executed on 17.06.2021 over an area of 363.440ha. PP also needs to submit the details of mine lease from its inception chronologically with all supporting documents.
 - xii. The Project Proponent needs to submit the Forest clearance in the name of M/s RCCPL Private Limited.
 - xiii. The Project Proponent should submit the list of Schedule – I species present in the lease area authenticated by PCCF and the status of National Park/Sanctuary, Biosphere Reserve/Tiger Reserve/Elephant Reserve/any other Reserve, Habitat for migratory birds, Corridor for animals within 10 km of the lease area. PP also needs to submit the approval of Wildlife Conservation Plan.

- xiv. In Form-2, the Project Proponent submitted that Rehabilitation and Resettlement (R&R) is not applicable whereas in EIA report PP has submitted that there are 178 Project Displaced Families (PDFs) and 27 Project Affected Families (PAFs) which is contradictory. Hence, PP needs to clarify the same.
- xv. The Committee noted that the PP has submitted the year wise production details from the year 2013-14 to 2018-19 only and hence PP needs to submit the authenticated production details for the year 2019 – 2020 to 2021-22 for examination of violation in the Ministry.

1.6 Proposal for Terms of Reference of M/s. Parasakti Cement Industries Limited (PCIL) for expansion of Parasakti Limestone Mine for increase in mine lease area from 180.09 Ha. to 317.782 Ha (amalgamated mining lease of ML-I: 180.09 Ha + ML-II: 137.693 Ha) and increase of Limestone production from 1.80 MTPA to 2.25 MTPA with Total Excavation of 2.472 MTPA (Limestone: 2.25 MTPA + Top soil: 0.033 MTPA+ OB/BISB: 0.189 MTPA) located at Village Jettipalem, Rentachintala Mandal, Guntur District, Andhra Pradesh – [File No: J-11015/570/2007-IA.II(M), Proposal No: IA/AP/MIN/258064/2022; Consultant: B.S. Envi – Tech Pvt. Ltd] - Terms of Reference (Expansion)

EAC Meeting Details:

EAC meeting	48 th
Date of Meeting	28 th – 30 th March, 2022

The proposal of M/s Parasakti Cement Industries Limited is for expansion of Parasakti Limestone Mine for increase in mine lease area from 180.09 Ha. to 317.782 Ha (amalgamated mining lease of ML-I: 180.09 Ha + ML-II: 137.693 Ha) and increase of Limestone production from 1.80 MTPA to 2.25 MTPA with Total Excavation of 2.472 MTPA (Limestone: 2.25 MTPA + Top soil: 0.033 MTPA+ OB/BISB: 0.189 MTPA) located at Village Jettipalem, Rentachintala Mandal, Guntur District, Andhra Pradesh. The mine lease area is located between Latitude 16°35'36.5"N -16°37'40.7"N and Longitude 79°30'19.8"E - 79°30'42.6"E. The mine lease area falls under the Survey of India Toposheet No: 56/P/10 & 56/P/6 and falls in Seismic Zone – II. The Project Proponent presented the KML file during the presentation to indicate the location of mine lease on Google Earth.

2. The Project Proponent earlier submitted the proposal for Terms of Reference vide proposal no: IA/AP/MIN/229224/2021 dated 15.09.2021 for expansion of Parasakti Limestone Mine-1 (Area 180.09ha) with increase of limestone production from 1.80 MTPA to 2.25 MTPA with total Excavation of 2.472 MTPA (Limestone: 2.25 MTPA + Topsoil: 0.033 MTPA + OB/IB/SB: 0.189ha) and increase in Mine lease area from 180.09 Ha. to 317.782 Ha (Amalgamated Mining Lease of ML 1: 180.09ha + ML 2: 137.693ha) and the proposal was considered in the 38thEAC (Non-Coal) meeting held

during 29th– 30thSeptember, 2021. After detailed deliberations made by the Project Proponent and the Consultant, the Committee noted that the PP initially obtained EC for ML-I 180.89ha for 0.465 MTPA under EIA Notification, 1994 in favour of M/s Chola Cements Ltd, which was transferred from M/s Chola Cements Ltd to M/s Parasakti Cement Industries Limited on 03.02.2004. Then, PP obtained EC for Expansion in Limestone production from 0.45 MTPA to 1.80 MTPA for ML I-180.09ha dated 13.09.2007 under EIA Notification, 2006. EC for Limestone production of 0.20 MTPA for Limestone mine for ML II-132.27ha dated 11.09.2007 under EIA Notification, 2006. PP submitted that the both the mine lease ML- I and ML-II over an area of 317.90ha was amalgamated on 21.07.2009. The Committee felt that during the amalgamation of mining leases, PP was required to obtain amendment in EC as per the EIA Notification 2006, as the scope of mining was changed due to increase in mining lease area. The Committee also noted that the PP has exceeded the EC (granted on 20.03.2003) capacity in year 2006-07 wherein production achieved was 6,41,696.40 Tonnes against approved capacity i.e., 4,65,000 Tonnes and PP also obtained the EC dated 13.09.2007 for expansion in limestone production from 0.45 MTPA to 1.80 MTPA for Limestone mine (ML I) and after obtaining the EC dated 13.09.2007, the production is within the EC limit. Thus, the Committee was of the view that the instant case attracts the Hon'ble Supreme Court Judgment dated 02.08.2017 in W.P.C 114 of 2014 in the matter of Common cause Vs Union India and violation of EIA Notification, 2006. The Committee felt that the instant proposal cannot be considered in present form and PP should obtain necessary amendment in EC for amalgamation of mining leases. Therefore, the Committee was of the view that Ministry should take action against the Project Proponent for violation and returned the proposal in present form.

3. In view of the above, the Project Proponent applied for amendment in Environmental Clearance vide online proposal no: IA/AP/MIN/233751/2021 dated 12.10.2021 and submitted Form 4 for amendment in EC under the provisions of the EIA Notification, 2006 and the proposal was considered in the 40th EAC (Non-Coal Mining) meeting held during 26th– 27thOctober, 2021. During the meeting, the Committee noted that PP amalgamated both the mine lease ML- I and ML-II over an area of 317.90ha on 21.07.2009 and during the amalgamation of mining leases, PP was required to obtain Amendment in EC as per the EIA Notification 2006, as the scope of mining was changed due to increase in mining lease area. The Committee also noted that the PP has exceeded the EC (granted on 20.03.2003) capacity in year 2006-07 wherein production achieved was 6,41,696.40 Tonnes against approved capacity i.e., 4,65,000 Tonnes. Hence, the instant case attracts the Hon'ble Supreme Court Judgment dated 02.08.2017 W.P.C 114 of 2014 in the matter of Common cause Vs Union India and violation of EIA Notification, 2006. The Ministry issued SOP dated 07.07.2021 for identification and handling of violation cases under EIA, 2006 and the same has been

stayed by the Madurai bench of Hon'ble High Court of Madras vide order dated 15.07.2021. Therefore, the Committee returned the proposal in present form and was of the view that PP should approach Ministry after the final adjudication of the Hon'ble High Court.

4. Now, the Project Proponent again applied for Terms of Reference vide online proposal no: IA/AP/MIN/258064/2022 dated 26.02.2022 and submitted Form1 and PFR under the provisions of the EIA Notification, 2006. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals under Category "A" of the schedule of the EIA Notification, 2006 as the mining lease area is greater than 100 ha and appraised at Central level.

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

Date of application	Proposal No	Consideration	Details	Date of accord
14.03.2002	IA/AP/MIN/23070/1910	-	EC in favor of M/s Chola Cements Ltd to produce 0.465 million TPA of Limestone in the mine lease area of 180.89ha under EIA Notification, 1994	20.03.2003
03.01.2004	J-11015/4/2002-IA.II (M)	-	Transfer of EC from M/s Chola Cements Ltd to M/s Prasakti Cement Industries Limited	03.02.2004
30.05.2007	IA/AP/MIN/21287/1910	-	Expansion in limestone production from 0.45 MTPA to 1.80 MTPA for Limestone mine (ML I - 180.09 ha)	13.09.2007
30.05.2007	IA/AP/MIN/21288/1910		Limestone production of 0.20 MTPA for Limestone mine (ML II - 132.27 ha)	11.09.2007

6. Lease Detail:

S. No	Particulars	ML- I	ML-II	Amalgamation of ML-I & ML-II
1	Grant of mine lease	G.O Ms No. 587 Industries & Commerce (M.II)	GO Ms No. 159 in favour of M/s Prasakti Cement	G.O Ms No. 180 in favour of M/s Prasakti Cement

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		Department in favour of M/s Chola Cement Industries Limited	Industries Limited	Industries Limited
2	Date of the grant	06.12.2001	21.06.2007	21.07.2009
3	Name of the Mineral	Limestone	Limestone	Limestone
4	Period of grant	30 years	30 years	Co-terminus with that of the first lease i.e., up to 12.12.2031
5	Granted by	Govt. of Andhra Pradesh	Govt. of Andhra Pradesh	Govt. of Andhra Pradesh
6	Mine lease area in Ha	180.089	137.693	317.90
7	Permission for change of name from M/s Chola Cement Industries Limited to M/s Parasakti Cement Industries Limited	Govt. of Andhra Pradesh vide its G.O. Ms No 1 dated 01.01.2004	-	-
8	Proceedings No	No. 5050/M/2001 dated 15.12.2001 for a period of 30 years (13.12.2001 to 12.12.2031)	No. 3478/M/2005 dated 10.04.2008 for a period of 30 years (11.10.2007 to 10.10.2037)	No. 4551/M/2009 dated 27.07.2010 (23.07.2010 to 12.12.2031)
9	Extension of Mining Lease	-	-	G.O.MS No. 172 dated 04.12.2017 for a period of 50 years up to 12.12.2051 over an extent of 317.90ha

7. Details of executed Mine leases:

S.no	Lease detail	Date of grant of Lease execution	Period of Grant		Details
			From	To	
1	ML-I	Date of entering	13.12.2001	12.12.2031	

		into original lease deed			
2	ML-II	Date of entering into original lease deed	11.10.2007	10.10.2037	F 712399
3	Amalgamation of ML-I & ML-II	Date of entering into original lease deed	23.07.2010	12.12.2031	AM 291672

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

S. No	Particulars	Patta land	Govt land	Total
1	ML- I	139.531 Ha	40.558 Ha	180.089 Ha
2	ML-II	137.693 Ha	Nil	137.693 Ha
	Amalgamated lease	277.224 Ha	40.558 Ha	317.782 Ha

9. Details of Mine Plan:

Review of Mining Plan along with Progressive Mine Closure Plan approved by Indian Bureau of Mines	Letter No.	Letter No. AP/GNR/MPLst-53/Hyd
	Date	08.01.2020
	Validity	2020-21 to 2024-25
	Mineral	Limestone
	Mine lease area	317.782 ha
Mining Parameters	Quantitative Description	
Method of Mining	Fully mechanized opencast mining method.	
Mineable reserves	84.14 Million Tonnes	
Life of mine	37 years	
Bench Height	7.0m	
Bench Width	Not less than 30 m	
Individual bench slope	45°	
Overall pit slope	60°	
Drilling/Blasting	Deephole drilling & blasting and use of HEMM with Excavator & Dumper combination.	
RoM output size	Output size is -75mm	
Transportation details	Limestone produced from the mine is transported to the crusher located at a distance of 1.5 Km from the working pit just outside lease area at Cement Plant and Limestone is transported to the crusher by 35 tonner dumpers and further sent to plant by conveyor to the plant which is adjacent.	
Dumper's capacity	35 MT	
Topsoil and OB/IB/SB	PP reported that the Topsoil generation for the lease period is estimated to be about 0.13 million m ³ . Soil generated will be spread in the 7.5m buffer zone and safety barriers for roads and power lines. The year wise details of OB/IB/SB generation for the lease period is	

	estimated to be about 0.824 million m ³ .The overburden will be temporarily stacked within the mining lease area and ultimately it is totally consumed for plantation.
Waste	PP reported that there is no waste generation from the mining lease area.

10. Water requirement:

Total water requirement	Existing water requirement: 90 m ³ /day Proposed water requirement: 150m ³ /day	Fresh water	-
		Treated water	-
Source	Mine pit		
Permission	Not Applicable		

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

Particulars	Details	Distance & Direction
Nearest Village	Jettipalem	0.3 km, SW
Nearest town	Rentachintala	6.0 km, SE
Nearest Highway	State Highway (SH-2) connecting Macherla - Dachepalli	5.5 km, SSE
Nearest Railway station	Rentachintala	7.3km, SE
Nearest water bodies	Goli Vagu	0.6 km, ESE
	Nagarjuna Sagar Tailpond	0.7 km, NW
	Krishna River	0.7 km, N
Interstate Boundary	Andhra Pradesh - Telangana	0.8 km, N

12. The Project Proponent reported that total mine lease area is 317.782ha, out of which 277.224ha is Private land and 40.558ha is Government land and there is no forest land involved in the mine lease area. PP also reported that the following Reserve Forests such as Goli RF – Adjacent, E, Adavadevalpalli RF – 1.6 km, N, Tummurukota RF – 3.2 km, SW and Malkacharla RF – 3.2 km, WNW are found within 10km radius of the study area. Further, PP reported that Rajiv Gandhi Wild Life Sanctuary (Boundary of Tumurukota RF) is located at a distance of 4.2 Km, SW from the mine lease area. PP obtained Wildlife clearance from NBWL vide letter no. 36338/2007-WL1 dated 09.02.2010 and letter no. 36338/2007/WL-1 dated 11.02.2011.

13. The Project Proponent submitted the Wild life Conservation plan for conservation measures for protection of Flora and Fauna in the core and buffer zones of Rajiv Gandhi Wild Life sanctuary was approved by PCCF vide letter no 38338/2007-WL1 dated 28.05.2008. PP deposited Rs 39 Lakhs to the Divisional Forest Office, Wild Life Management, Nagarjuna Sagar for implementing the plan which includes Rs 24 Lakhs for implementing the plan for afforestation scheme, fodder development and soil moisture conservation works and Rs 15 Lakhs for preferential treatment, aided natural regeneration, pasture plots, SMC works, fire protection works and saucer pits.

14. Green belt/plantation details:

Proposed area for green belt/plantation	38.363 Ha during the lease period
Budget for green plant& plantation till the end of life of mine.	Rs.30 Lakhs for Capital, Rs. 3 Lakhs for Recurring cost/annum
Budget for nursery	Already existing
Particulars for Green belt/plantation	Area covered (in Ha)
7.5 m barrier & non-mineralized zone	9.293 Ha.
50 m safety zone of nallah, roads, electric lines	29.071 Ha.
500 m safety zones of nearest habitation villages	Not Applicable

15. The Project Proponent submitted the EC compliance report certified by Integrated Regional Office, MoEFCC, Vijayawada, vide Letter No: IRO/VIJ/EPE/03-01/2021 dated 29.04.2021 for both ML I-180.09ha and ML II- 132.27ha. PP also submitted the Consent for Operation (CFO) issued by the Andhra Pradesh State Pollution Control Board vide Order No: APPCB/VJA/GNT/25379/CFO/HO/2020 dated 09/07/2020 that the Board issued Consent for Mining Division vide Order No. APPCB/VJA/GNT/25379/CFO/HO/2015-3579, Dt.22.08.2015 and CFO Amendment Order APPCB/VJA/GTR/25379/CFO/HO/2018, Dt.08.05.2018, both are valid up to 31.10.2020. The same orders of Mining Division are hereby renewed for a period of 5 (FIVE) years i.e., upto 31.10.2025 for production of 1.8 MTPA [ML I, 180.09ha – 1.6 MTPA and ML II, 132.27ha – 0.2 MTPA].

16. The Project Proponent submitted the past production details certified by Dept of Mines and Geology vide Letter No. 4551/M/2009, dated 09.12.2020 for the period 2007-08 to 2020-21 and Letter No. 4551/M/2009, dated 22.09.2021 for the period 2005-06 and 2006-07 for ML-I area 180.09 ha. Based on the past production details submitted by PP, it was observed that the PP has exceeded the EC (granted on 20.03.2003) capacity in the year 2006-07 wherein production achieved was 6,41,696.40 Tonnes against approved capacity i.e., 4,65,000 Tonnes and further PP obtained the EC on 13.09.2007 for expansion in limestone production from 0.45 MTPA to 1.80 MTPA for Limestone mine (ML I) and after obtaining the EC dated 13.09.2007, the production is within the EC limit. PP also submitted that mining operations was not commenced in ML-II, 132.27 ha. Further, PP submitted the Affidavit in a non-judicial stamp paper of Rs 100 bearing CV 473423 dated 08.06.2021 that M/s Parasakti Cement Industries Limited shall comply with all the statutory requirements & 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.

17. The Project Proponent submitted that the mining activities does not involve any displacement of human settlement. Hence, there is no Rehabilitation and Resettlement envisaged for this project.

18. 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.

19. Details of project cost and employment:

Particulars	Budget (Rs. In Crore)
Project Cost	Rs. 5.5 Crores
Employment	Existing: 42 persons, Additional: 14 persons Total: 56 persons

20. Observation and Recommendation of the Committee:

The proposal for Terms of Reference (Expansion) was considered in the 48th EAC (Non-Coal Mining) meeting held during 28th-30th March, 2022. After detailed deliberations made by the Project Proponent and the Consultant, the Committee noted that initially, PP applied for Terms of Reference vide proposal no: IA/AP/MIN/229224/2021 dated 15.09.2021 and was considered in the 38th EAC (Non-Coal) meeting held during 29th- 30th September, 2021 wherein the Committee felt that the instant proposal cannot be considered in present form and PP should obtain necessary amendment in EC for amalgamation of mining leases and therefore the Committee returned the proposal in present form. The Committee also noted that the PP has again applied for Terms of Reference (Expansion) on 26.02.2022 without obtaining necessary amendment in EC for amalgamation of mining leases. The Committee was of the view that the both the proposals i.e., amendment in EC for amalgamation of mining leases and Terms of Reference for Expansion should be placed before the Committee to take appropriate decision and also to save time and the same was agreed by the Project Proponent and the Committee requested the PP to submit both the application complete in all respect. The Committee again reiterated the view taken on earlier EAC meeting held during 29th- 30th September, 2021 and 26th- 27th October, 2021 with respect to violation and the Committee noted that the PP amalgamated both the mine lease ML- I and ML-II over an area of 317.90ha on 21.07.2009 and during the amalgamation of mining leases, PP was required to obtain amendment in EC as per the EIA Notification 2006, as the scope of mining was changed due to increase in mining lease area. The Committee also noted that the PP has exceeded the EC (granted on 20.03.2003) capacity in year 2006-07 wherein production achieved was 6,41,696.40 Tonnes against approved capacity i.e., 4,65,000 Tonnes. Hence, the instant case attracts the Hon'ble Supreme Court Judgment dated 02.08.2017 W.P.C 114 of 2014 in the matter of Common cause Vs Union India and violation of EIA Notification, 2006. Therefore, the Committee ask the Ministry to take appropriate action under the provisions of section 19 of the Environment (Protection) Act, 1986 and the Committee **retuned the proposal in present form.**

1.7 Proposal for Terms of Reference of M/s Aditya Minerals Private Limited for mining of Manganese with production capacity of Manganese Ore 0.006 MTPA (6,000 TPA), Top soil: 0.01494 MTPA, Over Burden/Side burden: 0.09088 MTPA, Mineral Reject 0.001 MTPA (Total excavation: 0.11282 MTPA) within the mine lease area of 73.94 ha, located at Dabakuchi Village and Nipani Village, Tamsi Mandal, Adilabad District, Telangana – [File No: 23-277/2018-IA.III(V), Proposal No: IA/TG/MIN/259419/2022; Consultant: Pioneer Enviro Laboratories & Consultants Pvt. Ltd.] - Terms of Reference (Violation)

EAC Meeting Details:

EAC meeting	48 th
Date of Meeting	28 th – 30 th March, 2022

The proposal of M/s Aditya Minerals Private Limited is for mining of Manganese with production capacity of Manganese Ore 0.006 MTPA (6,000 TPA), Top soil: 0.01494 MTPA, Over Burden/Side burden: 0.09088 MTPA, Mineral Reject 0.001 MTPA (Total excavation: 0.11282 MTPA) within the mine lease area of 73.94 ha, located at Dabakuchi Village and Nipani Village, Tamsi Mandal, Adilabad District, Telangana. The mine lease area is located between Latitude 19°45'51.70"N to 19°46'28.00"N and Longitude 78°26'28.30"E to 78°27'05.30"E. The mine lease area falls under the Survey of India Toposheet No: 56 I/5 and falls in Seismic Zone-II. The Project Proponent presented the KML file during the presentation to indicate the location of mine lease on Google Earth.

2. The Project Proponent earlier obtained Terms of Reference (ToR) on 15.04.2013 and thereafter PP did not prepared the EIA report within the stipulated time period and validity of TOR was lapsed and the project was delisted from the Ministry on 18.09.2015.

3. The Project Proponent again applied for Terms of Reference (ToR) vide online proposal no: IA/TG/MIN/74490/2018 dated 13.04.2018 as per Ministry's OM dated 16.03.2018 and the proposal was placed in the 14th EAC (Violation) meeting held on 22nd-24th October, 2018 wherein the EAC deferred the proposal as the project proponent did not attend the meeting and again the proposal was considered in the 43rd EAC (Violation) meeting held on 8th-9th February, 2021 wherein the EAC observed that proposal was listed earlier for appraisal, however, PP did not attend the meeting. This time again PP did not attend, therefore EAC opined that Ministry may initiate action and issue necessary directions to the Project Proponent as may be deemed fit.

4. Now, the Project Proponent applied for fresh Terms of Reference (ToR) vide proposal no: IA/TG/MIN/259419/2022 dated 03.03.2022 and submitted Form 1 and Prefeasibility report under the provisions of the EIA Notification, 2006. The proposed

project activity is listed at schedule no. 1(a) Mining of Minerals of the schedule of the EIA Notification, 2006 and falls under Category “A” as the instant proposal attracts the general conditions as the interstate boundary of Telangana-Maharashtra is located within 5 km from the mine lease area and appraised at Central level.

5. The Project Proponent submitted that initially mining lease was granted by Govt. of Andhra Pradesh vide G.O.Ms.No.189, dated 16.04.1983 for a period of 20 years for Manganese ore over an extent of 73.94 ha. Mining Lease was executed by the Asst. Director of Mines & Geology, Mancheril vide proceedings no.1202/A/83 dated 15.10.1983 for the period of 20 years from 15.10.1983 to 14.10.2003. Then, the PP obtained 1st renewal of mine lease issued by Govt. of Andhra Pradesh vide G.O.Ms. No 218, dated 04.08.2005 for the further period of 20 years. Renewal lease deed was executed vide Proceeding No. 1865/M/2005 dated 03.02.2006 for the period from 15.10.2003 to 14.10.2023.

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

Private land	73.94 Ha
Total Mining lease area (MLA)	73.94 Ha
Private land for crusher, workshop & other infrastructure outside the MLA	Nil

7. Mining plan:

Approval of Modified Mining Plan including Progressive Mine Closure Plan approved by Indian Bureau of Mines (IBM)	Letter No.	AP/ADB/MP/Mn-8/Hyd
	Date	09 th August 2021
	Mine lease area	73.94 ha
	Mineral	Manganese Ore
	Validity	2021-22 to 2023-24 (14.10.2023)
Mining Parameters	Quantitative Description	
Method of mining	Opencast method with drilling and blasting	
Total Geological Reserves	44,039.64 Tonnes	
Total Mineable Reserves	33,624.16 Tonnes	
Life of the Mine	8 years	
Bench Height	3.0m	
Bench Width	3.0m	
Individual bench slope	80°	
Overall pit slope	30°	
Transportation details	PP submitted that the Transportation of ore will be done by tractor from mine head to stockyard (outside mine lease area to a distance of 15km). The daily output of minerals is only 21 Tonnes, considering maximum production capacity of 6000 tonnes per year & 290	

	working days. A tractor of 3 Tonnes capacity is sufficient to transport the ore from mine site to stockyard. No. of tractors utilized for the transport will be 7 trips /day.
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8. Water Requirement:

Total water requirement	26.4 KLD	Domestic	0.7 KLD
		Greenbelt	19.5 KLD
		Dust suppression	6.2 KLD
Source	Ground water through tankers		
Additional information (if any)	Sanitary wastewater of 0.56 KLD will be sent to septic tank followed by soak pit.		

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

Particulars	Villages	Distance & Direction
Nearest Village	Lakhmipur	0.67 km, SW
Nearest town	Adilabad (Town)	11.3 km, SE
Nearest Highway	NH 7	9.8 km, NEE
Nearest Railway station	Adilabad RS	13.5 km, SE
Nearest water bodies	Penganga river	4.2 km, NEE
	Jellavagu	5.8 km, W
	Mathadi Vagu	8.6 km, SSE
	Vaddadi Cheruvu	8.5 km, S
	Gunjala waterfalls	4.0 Kms(NW)
	Canal is passing through site(Construction work is going) and few seasonal nalas, ponds exist within the study area.	

10. The Project Proponent reported that there is no forest land involved in the mine lease area. PP also reported that the following Reserve Forests such as Tamsi R.F. -2.7 km, Arli RF(TG)- 6.8 km, Arli RF(MH)- 5.1 km, Aru RF – 6.9 km, Ambari RF –8.3 km and Tipeswar RF -7.3 Kms are found within 10km radius of the study area. Further, PP reported that the mine lease area is located at 7.3 km from Tipeswar Wildlife Sanctuary in Maharashtra. As per Final Notification S.O 4892 (E) dated 18.09.2018 declaring Eco Sensitive Zone around Tipeswar Wildlife Sanctuary, Eco-Sensitive Zone is spread over an area of 404.57 square kilometers with an extent varying from 150 meter to 11 kms around the boundary of Tipeswar Wildlife Sanctuary.

11. The Project Proponent submitted that it is planned to develop plantation along the periphery with width of about 7.5 m. PP also submitted that an area of about 2.7 hawill be planted at the end of the conceptual plan period with sapling of 2,960 No.s.

12. The Project Proponent submitted that there is no Rehabilitation and Resettlement envisaged for this project.

13. The Project Proponent submitted the proposal involves violation of EIA notification, 2006 as the mining operation carried out without obtaining Environmental Clearance (EC) from the year 1983 to 2012-13. PP submitted the past production details duly authenticated from the Office of the Department of Mines and Geology, Govt., of Telangana vide Lr.No.1865/M/2005, dated 20.09.2021 for the period 1991-92 to 2020-21. PP also submitted the Affidavit in a non judicial e-stamp vide dated 18.09.2021 stating that they will comply with all statutory requirements and the 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.

14. 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.

15. Details of project cost and employment:

Particulars	(Rs. In Crore)
Project Cost	Rs 0.5 Cr
Employment	14 Persons

16. Observation and Recommendation of the Committee:

The proposal for Terms of Reference was considered in the 48th EAC (Non-Coal Mining) meeting held during 28th-30th March, 2022. After detailed deliberations made by the Project Proponent and the Consultant, the Committee noted that the instant proposal is located at 7.3 km from Tipeswar Wildlife Sanctuary in Maharashtra. The Committee observed that the manganese production is only 5.4% of the total excavation of 0.11282 MTPA and the potential of pollution is much more than the production of manganese and the Committee was of the view that the instant proposal cannot be recommended for grant of Terms of Reference (ToR). The Committee also noted that the PP has been carrying out the mining operation from the year 1983 to 2012-13 without obtaining Environmental Clearance (EC). The committee also observed that as per past production details submitted by PP, the base year (1993-94) production was 530 Tonnes and the same has been increased to 550 Tonnes (1994-95), 600 Tonnes (1996-97), 700 Tonnes (1997-98), 880 Tonnes (1999-00), 1050 Tonnes (2000-01), 1900 Tonnes (2006-07), 1000 Tonnes (2007-08), 1350 Tonnes (2008-09), 700 Tonnes (2009-10), 1300 Tonnes (2010-11), 1150 Tonnes (2011-12) and 1164 Tonnes (2012-13) and the instant case is a violation as per Hon'ble Supreme Court Judgment dated 02.08.2017. Being a violation proposal, the Committee asked the Ministry to take

appropriate action under the provisions of section 19 of the Environment (Protection) Act, 1986. The Committee therefore **returned the proposal in present form.**

1.8 Proposal for Terms of Reference of M/s Rain Cements Limited (RCL) for enhancement of Limestone production from 1.60 MTPA (ROM) to 3.94 MTPA (ROM) with total excavation of 3.9475 MTPA (ROM 3.94 MTPA + TS 0.0075 MTPA) within the mine lease area of 417.95 ha located at Revoor & Mellacheruvu Villages, Mellacheruvu Mandal, Suryapet District, Telangana – [File No: J-11011/152/2008-IA.II(I), Proposal No: IA/TG/MIN/256638/2022; Consultant: Vimta Labs Limited] - Terms of Reference (Expansion)

EAC Meeting Details:

EAC meeting	48 th
Date of Meeting	28 th – 30 th March, 2022

The proposal of M/s Rain Cements Limited (RCL) is for enhancement of Limestone production from 1.60 MTPA (ROM) to 3.94 MTPA (ROM) with Total excavation of 3.9475 MTPA (ROM 3.94 MTPA + TS 0.0075 MTPA) within the mine lease area of 417.95 ha located at Revoor & Mellacheruvu Villages, Mellacheruvu Mandal, Suryapet District, Telangana. The mine lease area is located between Latitude: 16°49'23.7"N to 16°50'31.6"N and Longitude: 79°57'39.0"E to 79°59'43.7"E. The mine lease area falls under the Survey of India Toposheet No: E44T13 and falls in Seismic Zone-II. The Project Proponent presented the KML file during the presentation to indicate the location of mine lease on Google Earth.

2. The Project Proponent earlier obtained Terms of Reference (ToR) vide No. J-11015/246/2016-IA.II(M) dated 13.04.2017 for expansion of Limestone production from 1.60 MTPA ROM to 3.94 MTPA ROM in the mine lease area of 417.95 Ha. Then, PP obtained amendment in ToR on 26.07.2019 for amendment in coordinates of the mining lease and subsequently obtained extension of validity of ToR on 09.03.2020 for one more year i.e., upto 13.04.2021 for the preparation of EIA/EMP report. Thereafter, the Project Proponent vide Lr No. RCL/Limestone Mine/ENV12/2021 dated 07.12.2021 informed that the public hearing got delayed due to COVID situation and our expansion plan is on hold due to various fluctuating market conditions and hereby we decided to withdraw the earlier Terms of Reference (ToR) and afresh ToR will be submitted.

3. Now, the Project Proponent has applied for fresh Terms of Reference (ToR) vide proposal no:IA/TG/MIN/256638/2022 dated 15.02.2022 and submitted Form 1 and Prefeasibility report under the provisions of the EIA Notification, 2006. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals under Category "A" of the schedule of the EIA Notification, 2006 as the mine lease area is greater than 100 ha and appraised at Central level.

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

Date of application	Proposal No	Consideration	Details	Date of accord
20.03.2010	IA/AP/IND/2868/2010	23 rd – 25 th September, 2010	Environmental Clearance for Integrated Cement Plant clinker (0.80 to 1.00 MTPA), Cement (1.00 to 1.50 MTPA) and Limestone mine (1.30 to 1.60 MTPA) in the mine lease area of 417.95 ha located at Village Ramapuram, Mandal Mellacheruvu, District Nalgonda, Andhra Pradesh	27.10.2010

5. The Project Proponent submitted that the mine lease is valid for a period of 50 years with effect from 29.09.1981 to 28.09.2031.

6. Details of Mine Plan: -

Approval of Review of Mining Plan approved by Indian Bureau of Mines (IBM)	Letter No.	No:AP/NLG/MP/Lst-22/Hyd,
	Date	14.12.2021
	Validity	2022-23 to 2026-27
	Mineral	Limestone
	Mine lease area	417.95 Ha
Mining Parameters	Quantitative Description	
Method of Mining	Opencast mechanized method with deep hole drilling and blasting	
Mineable Reserves	208.26 Million Tons	
Life of mine	50 Years	
Bench Height	7 – 8 m	
Bench Width	15 m	
Individual bench slope	60° and Ultimate Slope of 55 °	
Overall pit slope	20° -80°	
Maximum Depth of mining	34.84 m	
RoM output size	- 25 mm	
Transportation details	Blasted limestone is loaded into 35 Ton Tippers and the same will be transported to the crushing plant located at a distance of about 1.5 to 2.0 km.	
Dumpers capacity	35 Ton Tippers	
No. of Working days,	305 days, 8 hrs/shift and 2 shifts	

hours and shift	
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7. Water requirement:

Total water requirement	Fresh water	Existing water requirement: 100.0 KLD After Expansion: 250.0 KLD
	Treated water	Will be used for dust suppression and green belt development.
Source	Rain water collected in the mine pit sumps/Bore wells	
Additional information (if any)	PP submitted that the existing water requirement is being met from the rainwater accumulation in the mine pit sumps / bore wells and it will be continued to meet the demand from rain water accumulation in the mine pit sumps after expansion.	

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

Particulars	Particular's Name	Distance & Direction
Village	Ramapuram	2.0 km, NE
Town	Kodad	17.8 km, N
Highway	NH-65	13.6 km, NE
	Public road from Ramapuram to Revoor is passing within the lease area at the eastern part of the mine lease area.	
Railway Station	Ramapuram	2.0 km, NE
	Khammam	48.3 km, NNE
Railway track from Jaggaiahpet to Vishnupuram is passing within the lease area at the eastern part of the lease area.		
Water bodies	Palleru River	5.8 km, NNE
	Krishna River	8.1 km, ESE
	i. Revoor Nala flowing West to East in Southern Part of the mine lease area, ii. A seasonal drainage channel originating from the Northern Part of the area is flowing in between Pit No.1 and Pit No.2 towards southeast, and joins with Revoor Nala.	

9. The Project Proponent reported that no forest land is involved in the mine lease area. PP also reported that there is no National Park, Wild Life Sanctuary, Tiger/Elephant Reserves, Biosphere Reserves within 10 Km radius of the study area. Further, PP reported that the following Reserve Forests such as Yepalmadhavaram R.F - 4.1 km, SW, Buduvada R.F - 4.3 km, ENE, Balusupasdu R.F - 6.3 km, NE, Kuntimaddi R.F - 9.0 km, ESE, Venkatayapalem R.F - 9.2 km, SE and Chintalapalem R.F 6.8 km, SSE are found within 10km of the study area. PP reported that Common Indian monitor (*Varanus bengalensis*) is the only schedule I species found in the study area.

10. The Project Proponent reported that an area of about 28.41 ha under greenbelt/ plantation has been developed within the mine lease area. PP proposed to plant about 10,000 saplings during the next plan period i.e., 2022-23 to 2026-27 covering an area of 4.71 ha inside the mine lease area and 0.45 ha outside mine lease area. PP earmarked a budget of Rs 2,37,500 (Rs. 25,000/ year) for 9.5 years (i.e., till the end of life of mine). PP also earmarked a budget of Rs 5,00,000 /annum towards development of nursery.

11. The Project Proponent submitted that the Consent Order issued by the Telangana State Pollution Control Board vide Consent Order No: 210523194658 dated 17.01.2022 for the production capacity of Limestone mining & Shale/Clay: 1.6 MTPA and this consent order is valid for mining of Limestone and Shale/Clay to the following yearly capacity should be limited to as per IBM approval only and the consent order is valid for a period upto 31st October, 2016.

12. The Project Proponent submitted that the instant proposal is for expansion within the mine lease area of 417.95 ha and the mining activities do not involve any displacement of human settlement. Hence, there is no Rehabilitation and Resettlement envisaged for this project.

13. 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.

14. Details of project cost and employment:

Particulars	(Rs. In Crore)
Project Cost	Rs.15.5 Crores
Employment	Existing: 42 No.s, Additional: 18 No.s, Total: 60 Persons

15. Observation and Recommendation of the Committee:

The proposal for Terms of Reference (Expansion) was considered in the 48th EAC (Non-Coal Mining) meeting held during 28th - 30th March, 2022. After detailed deliberations made by the Project Proponent and the Consultant, the Committee noted that the PP has submitted only the self-certified compliance of the EC conditions and also PP has not clarified about the last certified EC compliance report by Ministry's Integrated Regional Office. The Committee also noted that the PP has not submitted the year wise past production details duly authenticated by Department of Mines and Geology. The committee informed the Project Proponent to submit all the relevant documents for examination of violation in the Ministry. Therefore, the Committee **deferred** the proposal and was of the view that the proposal may be considered only after the submission of the following additional information: -

- i. The Project Proponent obtained integrated EC on 27.10.2010 in the name of M/s Rain Industries Ltd and applied for ToR in the name of M/s Rain Cements Limited (RCL). PP needs to clarify whether the transfer of EC separately for mining lease area has been obtained by PP or not?
- ii. The Project Proponent needs to submit the latest EC compliance report certified by the Ministry's Integrated Regional Office for the EC granted on 27.10.2010.
- iii. The Project Proponent needs to submit the year wise production details certified by the Department of Mines and Geology from the inception of the mining operations to till date.
- iv. The Project Proponent needs to submit the details of greenbelt/plantation already carried out, no. of trees planted, current survival rate and the amount spent towards the development of greenbelt/plantation. PP also needs to submit the capital and recurring expenses proposed for gap plantation. The diversity of the green cover including greenbelt also needs to be submitted by PP.
- v. The Project Proponent needs to submit the details of protection measures in place for protecting the drains in the mine lease area. Details of the garland drain should also be given by PP. Since the current EC is for both Integrated Cement plant and mine lease, similar measures taken for cement plant also needs to be submitted by PP in compliance to the EC dated 27.10.2010.
- vi. The Project Proponent needs to submit the compliance audit of the pollution control measures and its efficacy.
- vii. The Project Proponent needs to submit the details of existing monitoring station for air quality w.r.t wind direction and noise monitoring station.
- viii. The Project Proponent needs to submit the valid mine lease document obtained from the State Govt, lease deed execution and chronological details of grant of mine lease with the supporting documents. PP also needs to submit the entire mining plan in PARIVESH portal.
- ix. The Project Proponent needs to submit the Land Use classification of the mine lease area of 417.95 Ha along with the ownership of the land with the supporting documents.

1.9 Proposal for Terms of Reference of M/s. Kalinga Enterprises Pvt. Ltd., for mining of Graphite in Jagdalpur Graphite mine with production capacity of 20,125 TPA within the mine lease area of 17.863 ha, located at Village Jagdalpur, Tehsil

Muniguda, District Rayagada, Odisha – [File No: IA-J-11015/19/2022-IA-II(NCM), Proposal No: IA/OR/MIN/257121/2022] - Terms of Reference (ToR)

EAC Meeting Details:

EAC meeting	48 th
Date of Meeting	28 th – 30 th March, 2022

The proposal of M/s. Kalinga Enterprises Pvt. Ltd., is for mining of Graphite in Jagdalpur Graphite mine with production capacity of 20,125 TPA within the mine lease area of 17.863 ha, located at Village Jagdalpur, Tehsil Muniguda, District Rayagada, Odisha. The mine lease area is located between Latitude 19°45'54.367"N to 19°46'9.914"N and Longitude 83°32'34.412"E to 83° 32'55.131"E. The mine lease area falls under the Survey of India Toposheet No: E44F9 and falls in Seismic Zone-II.

2. M/s. Kalinga Enterprises Pvt. Ltd., has made an online application vide proposal no: IA/OR/MIN/257121/2022 dated 21.02.2022 and submitted Form1 and Prefeasibility report under the provisions of the EIA Notification, 2006. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals and falls under Category A of the schedule of the EIA Notification, 2006 as the instant proposal attracts the general conditions as the Kotagarh Wildlife sanctuary is located 2.25 km from the mine lease area and appraised at Central level.

3. Observation and Recommendation of the Committee:

The proposal for Terms of Reference was considered in the 48th EAC (Non Coal Mining) meeting held during 28th – 30th March, 2022. During the meeting, the Member Secretary informed the Committee that the Project Proponent did not answer the telephonic call and also the Project Proponent did not submit any documents to the EAC (Non Coal Mining) as per the agenda. However, EAC (Non Coal Mining) deliberated the proposal based on the documents and information submitted by the PP on the Parivesh portal and noted that the instant proposal is located at 2.25 km from the Kotagarh Wildlife sanctuary and as per Draft ESZ of Kotagarh Wildlife Sanctuary vide S.O. 3433(E) dated 25.10.2017, the extent of Eco-sensitive Zone varies from 2 kilometres to 10 kilometres from the boundary of the Kotagarh Wildlife Sanctuary and also Jagdalpur village falling within the Eco-sensitive Zone of Kotagarh Wildlife Sanctuary. The Committee also noted that the PP has not submitted the proof of submission of application for Stage-I Forest clearance for forest land of 3.963 Ha [Forest land: 3.869 Ha + DLC Forest land: 0.094 Ha]. Therefore, the Committee **deferred** the proposal for want of the following additional information: -

- i. The Project Proponent needs to submit the letter from the Competent Authority in the State stating that the instant proposal is located outside the Eco-sensitive Zone of Kotaghar Wildlife Sanctuary.
- ii. The Project Proponent needs to submit the proof of submission of application for Stage-I Forest clearance for forest land of 3.963 Ha [Forest land: 3.869 Ha + DLC Forest land: 0.094 Ha].
- iii. The Project Proponent submitted the Letter of Intent (LoI) vide dated 18.11.2019 issued for grant of mining lease vide over an area of 17.798ha and the PP submitted the approved Mining Plan dated 06.09.2021 over an area of 17.863 ha. Hence, the Project Proponent needs to clarify the difference in additional area of 0.065 Ha.
- iv. The Project Proponent needs to submit the normative and peak total excavation in tonnes including mineral, overburden, inter-burden, waste, top soil, rejects etc. to be handled annually and the management of topsoil and waste needs to be properly addressed. The mineable reserves, blocked reserves need to be mentioned along with the life of mine. Waste to be generated during the entire life of mine and details of the location of dumping/backfilling area needs to be submitted.

Day 2: 29th March, 2022 (Tuesday)

2.1 Proposal for Environmental Clearance for Sultanpur Thanda Limestone Mine of M/s NCL Industries Limited for expansion of production of limestone from 0.05 to 1.0 MTPA with Total Excavation of 1.0 MTPA [Limestone – 1.0 MTPA (ROM) and Waste/Reject/IB/OB/Top Soil – Nil] in the mine lease area of 42.83 Ha in Survey No 540 (P), located at Pedaveedu Village, Matampalli Mandal, Nalgonda District, Telangana - File. No: J-11015/159/2016-IA.II(M), Proposal No: IA/TG/MIN/53618/2007, Consultant: BS Envi-Tech (P) Ltd] - Environmental Clearance (Violation)

EAC Meeting Details:

EAC meeting	48 th
Date of Meeting	28 th – 30 th March, 2022

The proposal of M/s NCL Industries Limited is for mining of Limestone in Sultanpur Thanda Limestone mine for expansion of production capacity of Limestone from 0.05 to 1.0 MTPA with Total Excavation of 1.0 MTPA [Limestone – 1.0 MTPA (ROM) and Waste/Reject/IB/OB/Top Soil – Nil] in the mine lease area of 42.83 Ha in Survey No 540 (P), located at Pedaveedu Village, Matampalli Mandal, Nalgonda

District, Telangana. The mine lease area falls under the Survey of India Toposheet No 56 P/14 and bounded by Latitude 16°42'44.50"N to 16°43'15.60"N and Longitude 79°50'19.20"E to 79°50'58.20"E and falls in Seismic Zone-II. The Project Proponent presented the KML file during the presentation to indicate the location of mine lease on Google Earth.

2. M/s NCL Industries Limited initially made an online application vide proposal no: IA/TG/MIN/53618/2007 dated 06.02.2019 and submitted Form 2 and EIA report under the provisions of the EIA Notification, 2006 for the project mentioned above. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals and falls under Category "A" as the interstate boundary of Telangana-Andhra Pradesh located at a distance of 1.0km, S from the mining lease boundary and appraised at the Central level.

3. The proposal was earlier considered in the 8th EAC Meeting held during August 27th-28th, 2019 and the PP not able to attend the meeting. The Committee therefore deferred the proposal and was of the view that PP should submit the past production details duly authenticated by DMG for examining the proposal in light of Common Cause Judgment dated 02.08.2017 and S.O. 804(E) dated 14.03.2017. In this regard, the Ministry sought additional details on 25.09.2019. Since the PP did not submit the information, the proposal was delisted from the PARIVESH portal on 20.05.2020. Then, the PP relisted the proposal on 17.02.2021 and submitted the information vide Lr. No: NCL/Mine/EC/MoEFCC/ADS/ 2021 dated 02.02.2021 for the additional details sought in 8th EAC Meeting held during August 27th-28th, 2019. Then again, the proposal was considered in 29th EAC (Non-Coal Mining) meeting held during 15th-17th March, 2021. During the EAC meeting, the Project Proponent informed the Committee that there is excess of the production against the EC capacity of 50,000 TPA during the period 2015-16 (52,000 TPA), 2016-17 (51,000 TPA) and 2018-19 (50,021 TPA). The Committee was of the view that this proposal is a violation of the EIA Notification 2006 and subsequent amendments as PP has enhanced the production against the approved EC capacity of 50,000 TPA. 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, the Committee deferred the proposal for want of the additional information. Then, PP vide letter NCL/Admin//2021-22 dated 30.06.2021 requested additional time for submission of information sought by the EAC in 29th EAC Meeting held during 15th - 17th March, 2021. Then, the PP resubmitted the proposal vide no: IA/TG/MIN/53618/2007 dated 07.10.2021 along with the information sought by the EAC in 29th EAC Meeting held during 15th - 17th March, 2021 and accordingly the proposal was considered in the 40thEAC (Non-Coal Mining) meeting held during 26th–27thOctober, 2021. During the meeting, the Committee noted that the instant case attracts the Hon'ble Supreme Court Judgment dated 02.08.2017, W.P.C 114 of 2014 in the matter of Common cause Vs Union India and violation of EIA Notification, 2006. The procedure adopted to consider the proposal in the EAC meeting dated 15th-17thMarch, 2021 was as per the principal, approved by the Competent Authority with respect to consideration of violation cases. After that the SOP on 07.07.2021 was issued by the Ministry for identification and handling of violation cases under EIA, 2006 and the same has been stayed by the Madurai bench of Hon'ble High Court of Madras vide order dated 15.07.2021. Therefore, the Committee returned the proposal in present form and was of the view that PP should approach Ministry after the final adjudication of the Hon'ble High Court.

4. The Project Proponent vide Letter Ref: NCL/EC/MoEF&CC/MINE/2022 dated 07.02.2022 resubmitted the information in PARIVESH portal on 16.02.2022 as sought by the EAC in 29th EAC Meeting held during 15th - 17th March, 2021 as mentioned below:

Point (i): The State Government/SPCB to take action against the project proponent under the provisions of the Environment (Protection) Act, 1986.

Reply by PP: PP submitted that State Government/SPCB has initiated action under the provisions of Section 19 of the Environment (Protection) Act, 1986. A case has been filed at Additional Junior Civil Judge Court, Kodada, Suryapet District with CC number of 202/2021. Credible Action case is pending under EPA, 1986.

Point (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.

Reply by PP: PP submitted that Bank guarantee will be submitted after EAC appraisal on deciding the amount. The estimated amount of bank guarantee amount towards the

damage assessment, Remediation Plan and Natural and community resource augmentation is about Rs 60,000/-. PP proposed an amount of Rs 1,03,000/- for the same.

Point (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.

Reply by PP: PP submitted that there was excess production against the EC capacity of 50,000 TPA during the period 2015-16 by 2000 TPA, 2016-17 by 1000 TPA and 2018-19 by 21 TPA. Total excess production in three years is about 3021 T. The maximum excess production of 6 T/Day (2000 TPA) is considered for damage assessment. The assessment carried out on all the environmental aspects showed no impact/negligible impact. PP considered the protocol followed by TS SEIAA to arrive at cost of damage assessment. PP submitted that as the baseline data collected and analysed was three years old (Dec-2016 to Feb-2017), PP revalidated the baseline data covering summer season (March-May, 2021). PP submitted that 9 attributes are falling in low category and the damage cost is worked out for low level ecological damage. PP also submitted that the equivalent area of damage for excess production of 3021 Tonnes worked out based on mine planning. The area is estimated to be about 100m² (0.01 ha). However, for estimation of damage cost, an area of 0.5 ha considered and the damage cost for the same is estimated to be about Rs 60,000.

Point (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.

Reply by PP: PP submitted that Ecological damage cost assessed as Rs 0.60 Lakhs. EMP comprising remediation plan and natural and community resource augmentation worked out as Rs 1.03 Lakhs with time schedule of two years. Economic benefits derived due to violation is Rs 1.9 Lakhs.

Point (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.

Reply by PP: PP submitted that an independent Chapter 13 has been incorporated in the EIA report for assessment of ecological damage, remediation plan and the natural

and community resource augmentation plan. The report has been prepared by the NABET Accredited EIA Consultant - B. S. Envi-Tech Pvt. Ltd.

Point (vi):The Project Proponent should submit the latest EC certified Compliance report.

Reply by PP: PP submitted the EC compliance report certified by Integrated Regional Office, Hyderabad vide Lr No ENV/IRO-HYD/CCR-05/A/2021/33 dated 03.07.2021. PP vide Lr No NCL/EC-2009/2021-22 dated 20.07.2021 submitted the action plan to the IRO, Hyderabad in respect of the IRO recommendations in the certified compliance report dated 03.07.2021.

5. The instant proposal is considered in the 48th EAC (Non Coal Mining) meeting held during 28th - 30th March, 2022 based on the MoEF&CC Office Memorandum F.No. 22-21/2020-IA.III [E 138949] dated 28.01.2022 w.r.t observation of Hon'ble Supreme Court in the matter of Civil Appeal Nos. 7576-7577 of 2021 in Electrosteel Steels Limited Vs Union of India and Ors., with reference to the SoP dated 7th July, 2021 for identification and handling of violation cases under EIA Notification, 2006. The Hon'ble Supreme Court of India has *inter-alia* observed the following:

“93. The interim order passed by the Madras High Court appears to be misconceived. However, this court is not hearing an appeal from that interim order. The interim stay passed by the Madras High Court can have no application to operation of the Standard Operating Procedure to projects in territories beyond the territorial jurisdiction of Madras High Court. Moreover, final decision may have been taken in accordance with the Orders/Rules prevailing prior to 7th July, 2021”.

6. The Ministry vide Lr No. J-11015/159/2016-IA.II(M) dated 28.06.2021 directed the Secretary, Department of Environment, Forests, Science and Technology, Govt., of Telangana to take action against the above unit by invoking powers under section 19 of the Environment (Protection) Act, 1986 for the period for which the unit had produced in excess of the EC capacity without obtaining the requisite prior environmental clearance. The details of the action taken against the unit may be intimated to enable this Ministry to take further action on grant of environmental clearance.

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

Date of application	Proposal No	Consideration	Details	Date of accord
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05.03.2005	IA/AP/MIN/ 21458/ 1910	-	Enhanced production capacity of limestone from 200 TPA to 7700 TPA of Limestone (MLA 42.82 Ha)	05.10.2006
22.06.2009	IA/AP/IND/ 23052/ 1910	-	Expansion of Cement Plant (Cement 0.30 MTPA to 0.90 MTPA; Clinker 0.60 MTPA to 1.60 MTPA) and Limestone (0.90 MTPA to 2.55 MTPA) involving 3 mine leases namely i. Mining lease I at Mettapalli – 0.78 to 1.5 MTPA (MLA 114.5 acres) ii. Mining lease II at Sultanpur Thanda – 0.02 to 0.05 MTPA (MLA – 105.32 acres) iii. Mining lease III at Gundlapalli – 0.10 to 1.0 MTPA (MLA – 322.06 acres)	15.12.2009

8. The details of the Terms of References (TOR) are furnished as below:

Date of application	Proposal No	Consideration	Details	Date of accord
10.05.2016	IA/TG/MIN/53620/2016	June 22- 23, 2016	Terms of Reference for expansion in Limestone production from 0.05 to 1.50 MTPA (MLA: 42.83 ha)	24.08.2016
20.01.2017	IA/TG/MIN/53620/2016	Jan 30-31, 2017	Amendment in ToR for reduction of production of Limestone from 1.5 MTPA to 1.0 MTPA (MLA: 42.83 ha)	16.02.2017

9. Details of Mine lease:

S.no	Lease particulars	Date of the grant	Name of the Mineral	Period of Grant	Granted by	Mine lease area

Minutes of 48th EAC (Non-Coal Mining) Meeting held during 28th to 30th March, 2022

1	Initial grant of mining lease vide G.O MS. No. 126 in favour of Sri.K. Ramachandra Raju	22.06.1996	Limestone	29.10.1996 to 28.10.2016	Govt., of Andhra Pradesh	Acres 105.32 Gts
2	Transfer of lease from Sri.K. Ramachandra Raju to M/s NCL Industries Ltd vide G.O MS. No. 265	31.07.1998	Limestone	till 28.10.2016	Govt., of Andhra Pradesh	Acres 105.32 Gts
3	Extension of lease period vide G.O.Ms. No.63	23.08.2017	Limestone	29.10.1996 to 28.10.2046	Govt., of Telangana	Acres 105.32 Gts
4	Proceedings vide No. 2876/M/1998	20.02.2018	Limestone	29.10.1996 to 28.10.2046	Govt., of Telangana	Acres 105.32 Gts

10. 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.	29.10.1996	28.10.2016	
2	Date of entering into supplementary lease deed	29.10.1996	28.10.2046	Lease deed executed between the Governor of Telangana and M/s NCL Industries Ltd vide Affidavit bearing 321711 dated 20.02.2018

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

Private land	Nil
Government waste Land	42.83 Ha
Total Mining lease area (MLA)	42.83 Ha.
Private land for crusher, workshop & other infrastructure outside the MLA	Nil

12. Details of Mine Plan:

S.no	Mining Plan along with the Conceptual Plan Approved By	Letter no	Dated of Approval	For a period	Details
1	Review of Mining Plan including Progressive Mine Closure Plan approved by Indian Bureau of Mines	Lr no. AP/NLG/MP/LST-31/HYD	08.04.2021	2021-2022 to 2025-2026	Limestone mine, 42.83 Ha

13. The Project Proponent submitted that the mine will be operated by conventional open cast mechanized method of mining which involves deep drilling and blasting for breaking the rock, hydraulic excavator of 3.1m³ bucket capacity to handle the broken material and loading into 17 tonners tippers for transporting the limestone to crusher located at a distance of 2.0 km from the mine. Drilling operations are conducted with 115mm dia drills with Compressor. For production of 1.0 MTPA of limestone about 667 kg/day of explosives will be required. PP reported that the estimated Mineable reserves is 25.75 Million Tonnes and the Life of the mine would be 26 years. Overall pit slope will be 45°. There will be no generation of sub-grade as all the grades are above cut off grade 46.40% of CaO and 10.81% of SiO₂. No rejects are generated and the entire ROM Limestone is fed to the cement plant. PP reported that the existing depth of mining is 16m bgl and the ultimate depth of mining will be 30m bgl and the water table ranges between 40-45m bgl during Summer and 30-35m bgl during monsoon season and therefore the water table will not be intercepted due to mining activity.

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

Particulars	Villages	Distance & Direction
Nearest Village	Sultanpur Tanda NCL Colony	0.1km, S 1.0km, W
Nearest Town	Suryapet	73.6km, NW
Nearest Highway	National Highway – (NH-9)connecting Vijayawada – Hyderabad	34.7km, NE
Nearest Railway station	Vishnupuram RS	21.8km, W
Nearest water bodies	Krishna River	0.6 Km, S

15. Water requirement

Total water requirement	40m ³ /day		Fresh water	-
	Existing water requirement	10m ³ /day	Treated water	-
Source	NCL's other mine pits and from the recycled water of Sewage treatment plant located at Cement plant			

16. 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	DFO, Suryapet vide Rc.No. 75/2017/S dated: 16.08.2019 confirmed that i. The said location does not fall in the Forest area, but the area is adjacent to the Reserve Forest about 170m and it should comply recent guidelines/circular from the MoEF. ii. There are no dispute issues with the Forest Department but the Waste material mainly the panel cut portions is being dumped along road side even in Reserve Forest areas which has to be removed and in future waste disposal to be in designated areas as per mine plan. iii. The area is completely preexisting mining area of NCL Industries Ltd from 1996. Hence, the green cover other conditions that are in mining plan to be properly implemented. iv. No Sanctuary and National parks does not exist within the study area.
National Park	No	
Wildlife Sanctuary & Forest	No	

Availability of Schedule-I species in study area – Available / Not Available

Not Available

If available - authenticated list of flora/fauna details

Schedule-1 species	Yes/No	Details of Certificate/letter/Remarks
Schedule-I species	No	DFO, Suryapet vide Rc.No. 75/2017/S dated: 16.08.2019 confirmed that there are no endangered species of flora existing in the area and it has neither ecological nor economic importance and normal species of brushes and bushes are only seen.

17. The Project Proponent reported that plantation has been already carried out in 1.5 Ha and planted around 1800 saplings with survival rate in the area of 25%. PP submitted that the further green belt will be developed in a barrier of 7.5m width all along the mining lease boundary (2.37ha, 2718 no. of saplings during plan period) and Safety bund at HFL of Pulichintala project of 887m length (0.81ha, 290 no. of saplings during plan period) over an area of 3.188 Ha. PP earmarked budget of Rs 18.06 Lakhs as Capital cost and Rs 6.05 Lakhs as recurring cost towards for the development of green plant & plantation till the end of life of mine.

18. The Project Proponent submitted that one season primary baseline data for ambient air quality, (as per CPCB quality Notification, 2009), water quality, noise level, soil and flora & fauna has been collected during Winter Season (December, 2016 to February, 2017). The predominant wind directions during this period were from N-NNE-NE-ENE sector accounting to about 74.26% of the total time and about 2.04 % of the time the winds were under calm condition. The concentrations of PM₁₀ and PM_{2.5} for all the 8 AAQM stations were found between 49.6 to 68.1 µg/m³ and 21.3 to 30.2 µg/m³ respectively. The concentrations of SO₂ and NO_x were found to be in range of 10.3 to 13.9 µg/m³ and 11.3 to 15.6 µg/m³ respectively. PP also submitted that post project concentration of air pollutants is also well within the prescribed standards of NAAQS. Ambient noise levels were measured at 8 locations in and around the mine site and Noise levels varied from 49.6 to 65.9 Leq dB (A) during day time and from 38.4 to 62.2 Leq dB (A) during night time. Seven ground water and two surface water samples were collected from the study area and the parameters thus analyzed were compared with IS-10500:2012. All the parameters were found to be well within the limits. PP submitted that as the baseline data collected and analysed was three years old (Dec-2016 to Feb-2017), PP also revalidated the baseline data during summer season (March-May, 2021).

19. Public Hearing (PH) Details

Advertisement for PH with date	29.05.2018 in The New Indian Express (English News Paper) and Namasthe Telangana (Telugu News Paper).
Date of PH	29.06.2018
Venue	Mine site, Pedaveedu Village, Matampalli Mandal, Suryapet District
Chaired by	Joint Collector & Addl. District Magistrate, Suryapet District.
Main issues raised during PH	Greenbelt development, drinking water, employment, road maintenance, social welfare measures and medical facilities
Budget proposed for	Rs 44.45 Lakhs

addressing issues raised during PH	
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20. The Project Proponents submitted that there was excess production against the EC capacity of 50,000 TPA during the period 2015-16 by 2000 TPA, 2016-17 by 1000 TPA and 2018-19 by 21 TPA. Total excess production in three years is about 3021 T. The maximum excess production of 6 T/Day (2000 TPA) is considered for damage assessment. The assessment carried out on all the environmental aspects showed no impact/negligible impact. PP considered the protocol followed by TS SEIAA to arrive at cost of damage assessment. PP submitted that as the baseline data collected and analysed was three years old (Dec-2016 to Feb-2017), PP revalidated the baseline data covering summer season (March-May, 2021). PP submitted that 9 attributes are falling in low category and the damage cost is worked out for low level ecological damage. PP also submitted that the equivalent area of damage for excess production of 3021 Tonnes worked out based on mine planning. The area is estimated to be about 100m² (0.01 ha). However, for estimation of damage cost, an area of 0.5 ha considered and the damage cost for the same is estimated to be about Rs 60,000. EMP comprising remediation plan and natural and community resource augmentation worked out as Rs 1.03 Lakhs with time schedule of two years. Economic benefits derived due to violation is Rs 1.9 Lakhs. PP submitted that Bank guarantee will be submitted after EAC appraisal on deciding the amount. PP vide email dated 29.03.2022 submitted that the Bank Guarantee has been revised to an amount of Rs.5.54 lakhs and the revised penalty amount to Rs.6.33 lakhs as per SOP dated 07.07.2021.

21. The Project Proponents submitted the EC compliance report certified by Integrated Regional Office, Hyderabad vide Lr No ENV/IRO-HYD/CCR-05/A/2021/33 dated 03.07.2021 which is Partially Complied. PP vide Lr Ref. NCL/EC-2009/2021-22 dated 20.07.2021 submitted the action plan to the Integrated Regional Office, Hyderabad in respect of the recommendations given in the certified compliance report dated 03.07.2021. PP also submitted that the Consent for Operation issued by the Telangana State Pollution Control Board vide no TSPCB/CFO/NLG/HO/2017-3266 dated 03.03.2017 for the period up to 31.03.2022 for production of 0.0497 Million TPA.

22. The Project Proponent submitted the past production details duly authenticated by the Department of Mines and Geology, Government of Telangana vide its Lr.No. 2876/M2/1998, dated 22.01.2021 for the period from 1998-99 to 2019-20. PP reported that there is excess of the production against the EC capacity of 50,000 TPA (EC dated 15.12.2009) during the period 2015-16 (52,000 TPA), 2016-17 (51,000 TPA) and 2018-19 (50,021 TPA). There is also excess of the production against the CTO capacity of 49,700 TPA (CTO dated 05.01.2015 & 03.03.2017) during the period 2015-16 (52,000 TPA), 2016-17 (51,000 TPA), 2017-18 (50,000 TPA) and 2018-19 (50,021 TPA).

23. Resettlement & Rehabilitation (R&R)

R & R Plan	NA
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24. Court case details

Court Case	PP submitted that State Government/SPCB has initiated action under the provisions of Section 19 of the Environment (Protection) Act, 1986. A case has been filed at the 1 st Class, Magistrate Court, Huzur Nagar with CC number 202 of 2021. Credible Action case is pending under EPA, 1986.
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25. Affidavit/Undertaking details

Affidavit as per Ministry's OM dated 30.05.2018	PP submitted the affidavit bearing no H 582237 dated 12.06.2017 that M/s NCL Industries Limited shall comply with all 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 & Ors.
PP submitted an Undertaking dated 28.09.2021	The information and data submitted is factually correct and NCL Industries Limited (NCL) owns the contents of the report.
Consultant submitted an Undertaking dated 04.10.2021	M/s B.S Envi-Tech Pvt Ltd has compiled with all the prescribed Terms of Reference (ToR) issued by Ministry of Environment, Forest and Climate Change in preparation of Revised Final EIA report for the above-mentioned project.
Plagiarism checked on 30.09.2021	The Head of the Accredited Consultant Organization/ Authorized person certified that this Revised Final EIA Report has been evaluated by using online in-house software viz. Plagiarism Checker X – Report (Purchased). The report produced has been analyzed by the system and based on it, I certify that the EIA Report produced in accordance with good scientific practice.

26. Details of the EMP

S. No.	Particulars	Capital Cost (Lakhs)	Recurring Cost Per Annum (Lakhs)	Total Recurring Cost up to lease period (Lakhs)
1	Air Pollution Control Dust suppression (Through Tanker)	25	0.20	5
2	Environmental Monitoring	0	7	155
3	Green Belt along 7.5 m barrier zone & Safety Bund	18.06	0.50 (avg)	11.52
4	Rainwater Harvesting Bunds for Rainwater Collection	0	0.25	3.75
5	Drain along southern boundary with check dam at discharge end	3	0.3	7.5
6	Watch Guards - 2 nosto monitor transportation route	1.0	4.80	120
	TOTAL	47.06	13.05	302.77

27. Details of project cost and employment:

Particulars	Budget
Capital Cost for Environment Protection	Rs. 0.4706 Crores
Budget for addressing the Public Hearing issues	Rs. 0.4445 Crores
Total Cost for EMP	Rs. 0.9051 Crores
Recurring Cost for EMP	Rs. 0.1305 Crores
Project Cost	Rs. 6.0Crores
Employment	Existing - 10 persons, Additional - 18 persons

28. Observation and Recommendation of the Committee:

The proposal for Environmental Clearance (Violation) was considered in the 48th EAC (Non Coal Mining) meeting held during 28th – 30th March, 2022. After detailed deliberations made by the Project Proponent and the Consultant, the Committee noted that the PP has not submitted the final closure report issued by the Integrated Regional Office for the non compliances identified in certified EC compliance report vide Lr No ENV/IRO-HYD/CCR-05/A/2021/33 dated 03.07.2021. The Committee observed that the mine lease area does not fall in the Forest area, but the mine lease area is adjacent to the Reserve Forest about 170m and PP has not submitted the authenticated list of flora and fauna in the study area of 10km radius. Therefore, the Committee **deferred** the proposal for want of following additional information: -

- i. The Project Proponent needs to submit the satisfactory final closure report issued by the Integrated Regional Office for the non compliances identified in

certified EC compliance report vide Lr No ENV/IRO-HYD/CCR-05/A/2021/33 dated 03.07.2021.

- ii. The project proponent needs to submit the clarification sought by EAC during the meeting and submitted by email to be uploaded on the Parivesh.
- iii. The Committee noted that the mineral is being transported by road near the canal under the flyover bridge. Hence, the Project Proponent needs to submit the undertaking and the plan for transportation of mineral over the flyover bridge and its impact scenario.
- iv. The Project Proponent needs to submit the measures taken for protection of water bodies in the vicinity of the mine lease area and river Krishna (0.6 Km, S) due to mining activity.
- v. The Committee observed that the mine lease area does not fall in the Forest area, but the mine lease area is adjacent to the Reserve Forest about 170m. Hence, the PP needs to submit the safety measures taken for protection of Reserve Forest which is about 170m. PP should also submit the list of Schedule – I species present in the study area of 10km radius authenticated from the Principal Chief Conservator of Forest (PCCF).

2.2 Proposal for Environmental Clearance for Redi Iron Ore Mine of M/s Minerals and Metals with proposed production capacity of 0.2 MTPA of iron ore (ROM), 0.025 MTPA waste/overburden & 0.0003 MTPA top soil in the mine lease area of 27.4520 Ha., located at Redi Village (including Sakhalbhat, Mhartale and Bambadojiwadi), Taluka Vengurla, District Sindhudurg, Maharashtra – [File No. J-11015/27/2020-IA.II(M); Proposal No. IA/MH/MIN/148253/2020; Consultant- Mineral Engineering Services] - Environmental Clearance

EAC Meeting Details:

EAC meeting	48 th EAC meeting
Date of Meeting	28 th to 30 th March, 2022

2. Project details:

Name of the Proposal	Redi Iron Ore Mine of M/s Minerals and Metals with proposed production capacity of 0.2 MTPA of iron ore (ROM), 0.025 MTPA waste/overburden & 0.0003 MTPA top soil in the mine lease area of 27.4520 Ha	
Location	Village	Redi, Sakhalbhat, Mhartale and Bambadojiwadi
	Taluka	Vengurla

	District	Sindhudurg
	State / UT	Maharashtra
	Latitudes	15°44'25.64" N to 15°44'53.28" N
	Longitudes	73°39'21.19" E to 73°40'54.18" E
	SolTopo sheet No.	48 E/10
Company's Name	M/s Minerals and Metals	
Accredited Consultant and certificate no.	Mineral Engineering Services NABET QCI No. ORB000756.NABET/EIA/1922/RA0158, Validity: 22 Oct 2022	
KML file	Submitted	
Seismic zone	III	

3. 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 amendment
Mining lease Area (MLA)	27.4520 Ha
General Condition	Mine lease area falls at 1.34 Km from the Maharashtra-Goa State boundary

4. ToR/EC Details:

ToR Proposal No.	IA/MH/MIN/148253/2020
Online application date for Form-I	10.03.2020
ToR Letter No.	J-11015/27/2020-IA-II(M)
ToR grant Date	15.07.2021
Production capacity	0.2 MTPA of iron ore (ROM)
Soil	0.0003 MTPA
Waste	0.025 MTPA waste/overburden
Total Excavation	0.2253 MTPA
EIA/EMP uploaded on	06.03.2022
Additional information	The Mining Lease is having non-contiguous blocks namely Block 1, Block 1A, Block 2 and Block 3. Block 1 and Block 1A are falling under CRZ, therefore it is not proposed to work in these two blocks. The Lessee will work in Block 3 and Block 2 falling outside the CRZ.

5. Lease Details:The Project Proponent submitted that 'M/s Minerals and Metals', was granted Mining Lease 'Redi Iron Ore Mine', with an area of 27.4520 Ha., located at Redi Village (including Sakhalbhat, Mhartale and Bambadojiwadi), Taluka Vengurla, District Sindhudurg, State Maharashtra by DMG, Government of Maharashtra.

Extension of mining lease was also issued by DMG, Government of Maharashtra vide No. MLR-1847/2019/2114 dated 29.08.2019 and accordingly executed the lease deed on 27.02.2020 for the period 21.08.2009 to 20.08.2029.

6. Mining plan details: The Project Proponent submitted that the Review and Updation of Mining Plan for a block period of 5 years from 2019- 20 to 2023-24 was prepared under 17(2) OF MCR, 2016 and is approved by the Indian Bureau of Mines vide its letter no. RMP/MECH-01(MAH)/GOA/2020-21 dated 29-10-2020.

Mining Parameters	Quantitative Description
Bench Height	6 m
Bench Width	More than the height
Method of Mining	Mechanized opencast method without drilling & blasting
Drilling/Blasting	No
Life of mine	11 Years
Transportation details	Overburden will be transported by dumpers to respective waste dumps. The ore transportation will be done by tippers with the capacity of 10 Tonnes as well as by dumpers with higher capacity.
Dumpers capacity	10 Tonnes

7. Land Area Breakup:

Private land	27.4520 Ha
Government land	-
Total Mining lease area (MLA)	27.4520 Ha

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

Particulars	Particular's Name	Distance & Directions
Nearest habitation	-	50 m
Nearest Town	Vengurla	20 kms in North West direction
State Highway	SH-49	3 Km in South direction
Nearest road network	Vengurla-Shiroda-Aronda	150m in the Southeast
Nearest Railway Station	Sawantwadi Road	20 km in North West
Nearest Airport	Dabolim	70 km in Eastern direction
Sawantwada Reserve Forest at a distance of 8.52Km in NE from the mine lease		

9. Water requirement

Total water requirement	115 KLD	Mine	5 KLD
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		Greenbelt	10KLD
		Dust Suppression	100 KLD

10. Presence of Environmentally Sensitive areas in the study area

Forest Area/Environmental Zone	Land/Protected Sensitivity	Yes/No	Details of Certificate/letter/Remarks
Forest Land		Yes	Sawantwada Reserve Forest at a distance of 8.52Km in NE direction.
National Park		No	
Wildlife Sanctuary		No	
Schedule-I species		Yes	Fund allocated for wildlife conservation is Rs. 25 lakhs during the 5 years period @ Rs. 5 lakhs per annum
Wildlife Conservation Plan			The Wildlife Conservation Plan has been prepared in consultation with the Forest Department

11. Green belt/plantation details:

Proposed area for green belt/plantation	7.6669 Ha
The density of the plantation	1600 Saplings/Ha

12. Baseline detail

Baseline Data (Air / Water / Noise / Soil / Ground water table/ others)	
Period of baseline data collection	December 2020 to March 2021
Season (Summer / Pre-monsoon / Post-monsoon / Winter)	Winter Season

13. Public Hearing (PH) Details

Advertisement for PH with date	The Indian Express, 30 Oct 2021
Date of PH	02/12/2021
Venue	Mauli Water Works, Village Hudawadi(Redi), Tal. Vengurla, Distt. Sindhurg
Chaired by	District Collector, Sindhurg
Main issues raised during PH	Unemployment, safety of the dwellings, temples, water bodies and cemeteries in the village, Health, Medical and Education facilities

14. Court case details:

Court Case	The project proponent submitted that no court case is pending against the project and/or land in which the
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	project is proposed to be set up
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15. Affidavit/Undertaking details:

Affidavit/Undertaking	Not Submitted
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16. Details of the EMP

S. No.	Activities	Recurring cost (Lakhs/annum)
1	Environmental Monitoring	10.0
2	Afforestation and Stabilization of Overburden Dump	2.0
3	Environmental Protective measures to Air Pollution, control soil erosion and control of water pollution and implementation and improvised technology	5.0
4	Measures towards the water conservation	1.0
5	Environmental Cell	5.0
6	Statutory Costs	2.0
Total		25.0

17. Details of project cost and employment:

Particulars	Budget
Recurring Cost for EMP	25 Lakhs/Annum
Project Cost	8.90 Crores
Employment	60 Persons

18. Observation and Recommendation of the Committee:

The proposal for Environmental Clearance was considered in the 48th EAC meeting held during 28th to 30th March, 2022. After the detailed presentation made by the Project Proponent and the Consultant, the Committee noted that the Mining Lease is having non-contiguous blocks namely Block 1, Block 1A, Block 2 and Block 3. In ToR letter dated 15th July, 2021, there was a specific condition (i) i.e. "The proposal for grant of Environmental Clearance will be considered only after the recommendation of the Maharashtra Coastal Zone Management Authority (MCZMA)." Therefore, MCZMA vide letter dated 4th March 2022 states that, "After deliberations, as per report of IRS, the Authority decided to confirm that Block 1 and Block 1A is situated in CRZ-III area and Block 2 and Block 3 is situated in non-CRZ area, as per approved CZMP under CRZ Notification, 2011. Mining activities in CRZ are not permissible as per provisions of the CRZ Notification, 2011."

Also, the Member Secretary informed the Committee that there was a specific condition (xiii) i.e. “MoEF&CC may also verify from the ESZ division regarding ESA of Western Ghats” of ToR letter dated 15th July 2021. Accordingly, the ESZ division mentions that it is outside the Western Ghats ESA. Verification of location of the concerned village has been done by way of superimposing the village map in KML file/Shape file vis-à-vis shapefile of Western Ghats ESA of Maharashtra (as recommended by High Level Working Group). It has been observed that the project location appears to be outside the Western Ghats ESA. After the detailed deliberations, the Committee **recommended** the proposal for Environmental Clearance for Redi Iron Ore Mine of M/s Minerals and Metals with proposed production capacity of 0.2 MTPA of iron ore (ROM), 0.025 MTPA waste/overburden & 0.0003 MTPA top soil in the mine lease area of 27.4520 Ha., located at Redi Village (including Sakhalbhat, Mhartale and Bambadojiwadi), Taluka Vengurla, District Sindhudurg, Maharashtra with subject to the following specific conditions along with the standard conditions of the non-coal mining projects:

- a) No mining will be carried out in Block 1 and 1 A in the entire active lease period. Block 3 has been proposed to be mined in first five years and Block 2 will only be opened up either after 5 years or after exhaustion of the minerals in Block 3 whichever is later. When Block 2 will be taken up for mining after five years, minimum 50 meters of buffer plantation must be done.
- b) Since, Block 3 is adjoining the already operating mines of Gogte Minerals; a peripheral plantation in the common boundary area should be carried out to prevent impact of mining on each other.
- c) Within 200 m of Block 3, the project proponent shall conduct permanent monitoring of air quality, noise and vibration in Redi Village and weekly monitoring (twice) in other villages. The data should be submitted to the Integrated Regional Office, MoEF&CC in every 6 months.
- d) Block 2, when in operation, must be protected from adjoining CRZ boundary by 50 meters buffer plantation.
- e) Since the transportation is through entire CRZ area up to the Redi, adequate protection measures to preserve eco-sensitivity of the CRZ area shall be taken up.
- f) The sensitive receptors such as schools shall be protected from impacts of air pollution, noise and vibration. Adequate measures should be made during the

transportation of the mineral that must not interfere with the school children. Health checkup of the school children and the Redi villagers should be taken up regularly for monitoring health impacts.

2.3 Proposal for Environmental Clearance for proposed expansion of Quartz & Feldspar Mining Project of M/s Goyal Mineral Grinding Mills for enhancement of production from 12,000 TPA to 6,00,000 TPA in the mine lease area of 130 ha (M.L. No.-01/1993) located at Village: Sanwalpura Tavaran, Tehsil: Sri Madhopur, District: Sikar, Rajasthan – [File No. J-11015/49/2017-IA.II(M); Proposal No. IA/RJ/MIN/204157/2017; Consultant- Enkay Enviro Services Pvt. Ltd.] - Environmental Clearance

1. EAC Meeting Details:

EAC meeting	48 th EAC meeting
Date of Meeting	28 th to 30 th March, 2022

2. Project details:

Name of the Proposal	Expansion of Quartz & Feldspar Mining Project, M.L.No. 01/1993, Area 130.0 Ha for enhancement of production from 12,000 TPA to 6, 00,000 TPA (Total Excavation).	
Location	Village	Sanwalpura Tavaran
	Tehsil/Taluka	Shri Madhopur
	District	Sikar
	State / UT	Rajasthan
	Latitudes	27° 34'3.88" N to 27° 33'53.9" N
	Longitudes	75° 54'24.56" E to 75° 53'57.62" E
	SolTopo sheet No.	45M/14,
Company's Name	M/s Goyal Minerals Grinding Mills	
Accredited Consultant and certificate no.	Enkay Enviro Services Pvt. Ltd. Certificate No. NABET/EIA/2023/RA 0183 valid till 21.12.2023	
KML file	Submitted	
Seismic zone	II	

3. 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 amendment
Mining lease Area	130.0 Ha.

4. ToR/EC Details:

ToR Proposal No.	IA/RJ/MIN/64032/2017
Date of online application	19/04/2017
ToR Letter No.	J-11015/49/2017-IA.II(M)
ToR grant Date	November 09, 2017
Production Capacity	From 12000 TPA to 6, 00,000 TPA
Waste (Interstitial Clay/ Screen Rejects/ Waste)	1, 20,000 TPA
Others (Subgrade)	60,000 TPA
Minerals	4, 20,000 TPA
Total Excavation	6, 00,000 TPA
EIA/EMP uploaded on	21 April, 2021
Previous EC details	J-11015/19/99-IAII(M) dated December 2, 1999 for production capacity of 12000 TPA for Quartz & Feldspar in an area of 130 Ha.
Date of upload of EIA/EMP Report	21.04.2021
Earlier EAC meetings for EC	<ol style="list-style-type: none"> 1. 31st EAC meeting held during 14th to 15th June, 2021. 2. 38th EAC meeting held during 29th September to 30th September, 2021 3. 42nd EAC meeting held during 30th Nov. to 3rd Dec. 2021.

5. Lease Details:

Granted Prospecting Licence	Area	130.0 Ha.
	Execution date	24/09/1988
	PL No.	01/1993
Mine lease details	Letter No.	DMG/Neem/C.C-6/ P.1 (1) 1/93/375
	Date	07.05.1998
Validity of mine lease	23/09/2048	

21. Observation and Recommendation of the Committee:

The proposal for Environmental Clearance was considered in the 48th EAC meeting held during 28th to 30th March, 2022. After the detailed presentation made by the Project Proponent and the Consultant, the Committee observed that earlier the proposal was considered in the 42nd EAC meeting held during 30th Nov. to 3rd Dec. 2021 wherein the Committee observed that there will be an instant shock load on the environment by jumping 50 times from the production capacity granted in previous Environmental Clearance i.e. expansion from 12,000 TPA to 6,00,000 TPA. Also, the project proponent submitted that currently mine is not in operation and the Committee was also not convinced whether the site is ready to bear this instant shock load. Earlier,

the Committee also advised the project proponent to undertake and ensure the plantation in peripheral zone and plantation along haul roads which should be completed within 6 months from now and submit proper report on plantation with at least 90% survival rate in order to comply to EC condition vide letter dated December 2, 1999 mentioned earlier particularly for green cover is visible. However, the project proponent has completed some plantation as per the advice of the Committee but could not be sure of its survival because of selection of non-monsoon period and applied within 2- 3 months in hurry. Therefore, the Committee **deferred** the proposal and will be reviewed after the month of October, 2022 on receiving of certified compliance report by IRO, MoEF&C on the survival and spread of the plantation.

2.4 Proposal for Environmental Clearance of Daroli Limestone Mine 2 of M/s Udaipur Cement Works Limited with expansion in production capacity from 1.56 MTPA to 3.90 MTPA (Total Excavation 3.90 MTPA) with 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 –[File No. J-11015/32/2021-IA-II(M); Proposal No. IA/RJ/MIN/260440/2021] - Environmental Clearance

EAC Meeting Details:

EAC meeting	48 th EAC meeting
Date of Meeting	28 th to 30 th March, 2022

1. Project details:

Name of the Proposal	Daroli-2 Limestone Mine, ML No. 23/01, ML area 213.33 Ha.) for production capacity from 1.56 Million TPA (Limestone) to 3.90 Million TPA of Total Excavation (Limestone – 3.89 Million TPA + OB/SB/IB –0.01 Million TPA)	
Location	Village	Manderia, Bichiwara & Jaspura
	Tehsil/Taluka	Vallabh Nagar
	District	Udaipur
	State / UT	Rajasthan
	Latitudes	24°34'22.12" to 24°34'52.89"N
	Longitudes	73°55'17.29" to 73°56'02.56"E
	Sol Topo sheet No.	45 H/14
Company's Name	Udaipur Cement Works Limited	
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 amendment
Mining lease Area	213.33 Ha

3. ToR/EC 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
Soil	-
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.

4. 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	09.12.2032	
Grant of ML & Area	Letter No.	P-5 (111) Khan/Group-2/80
	Date	19.06.1982

5. Observation and Recommendation of the Committee:

The proposal for Environmental Clearance was considered in the 48th EAC meeting held during 28th to 30th March, 2022. After the detailed presentation made by the Project Proponent and the Consultant, the Committee observed that there was a specific condition (iv) of ToR letter dated 20.10.2021 i.e. "Project proponent shall complete all peripheral area plantation which should be complied as per earlier EC letter

dated 05.01.2009". However, the Committee noted that the compliance of the above-mentioned condition seems to be unsatisfactory. Also, the Committee noted the discrepancies in the project cost which needs to be revised for the appraisal of the instant proposal. Therefore, the Committee deferred the proposal due to the following:

- a) The project proponent 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.
- b) The project proponent needs to revise and submit 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 and fixed targets as well as the annual repairing cost till the life of mine.
- c) The project proponent needs to submit the capital cost for public hearing which shall include plantation in the buffer zone, water body rejuvenation, drinking water supply, health facilities, sports facilities, monitoring equipment's facilities, infrastructure creation including road, communication, WiFi and schools.

2.5 Proposal for Environmental Clearance for expansion of Daroli Limestone Mine-1 from 1.64 MTPA to total Excavation 4.53 MTPA and increase in crusher capacity from 700 TPH to 2770 TPH by installing additional crusher (2070 TPH) within the mine lease area 703.3051 ha (M.L No. 186/08 (Renewal & 02/88 (Old)) located at Villages- Daroli, Manderia, Bichhiwara, Mandesar & Mandesar Ka Guda, Tehsil: Vallabhnagar, District Udaipur, Rajasthan by Udaipur Cement Works Limited. - [File No. J-11015/33/2021-IA-II(M); Proposal No. IA/RJ/MIN/260182/2021] - Environmental Clearance

EAC Meeting Details:

EAC meeting	48 th EAC meeting
Date of Meeting	28 th to 30 th March, 2022

2. Project details:

Name of the Proposal	Daroli-1 Limestone Mine, ML No. 186/08, ML area 703.3051 Ha. for production capacity from 1.64 Million TPA (Limestone) to 4.53 Million TPA of Total Excavation (Limestone – 4.10 Million TPA + Over Burden – 0.43 Million TPA and Expansion of Crusher Capacity from 700TPH to 2770 TPH By Installing Additional Crusher (2070 TPH) & Expansion in Overland Belt Conveyer (OLBC) capacity from 1100 TPH 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 is exists from Existing Crusher to Cement plant and only 5.0 Km additional Length will increase from Existing to proposed crusher within lease area)	
Location	Village	Daroli, Manderia, Bichhiwara, Mandesar&MandesarKaGuda
	Tehsil/Taluka	Vallabhnagar
	District	Udaipur
	State / UT	Rajasthan
	Latitudes	24°34'22.38"to 24°37'25.73"N
	Longitudes	73°55'08.50"to 73°56'32.05"E.
	SolTopo sheet No.	45 H/14
Company's Name	Udaipur Cement Works Limited	
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	

3. 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 amendment
Mining lease Area	703.3051ha

4. ToR/EC 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

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, expansion in OLBC Capacity from 1100 TPH to 2770 TPH and increase in OLBC length of additional 5.0 km 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.

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. Observation and Recommendation of the Committee:

The proposal for Environmental Clearance was considered in the 48th EAC meeting held during 28th to 30th March, 2022. After the detailed presentation made by the Project Proponent and the Consultant, the Committee observed that there was a specific condition (iv) of ToR letter dated 20.10.2021 i.e. "According to the certified compliance report, one third of the peripheral plantation has been done i.e. 4.2 Ha in Daroli 1. The project proponent submitted that by December, 2021, they will complete all peripheral area that should be complied before the appraisal of EC". However, the Committee noted that the compliance of the above-mentioned condition seems to be unsatisfactory. The Member Secretary also informed the Committee regarding the letter dated 17.03.2022 wherein the monitoring division of MoEF&CC wanted to seek verification of the facts mentioned in the response submitted by the PP, from IRO, Jaipur. Also, the Committee noted the discrepancies in the project cost which needs to

be revised for the appraisal of the instant proposal. Therefore, the Committee **deferred** the proposal due to the following:

- a) The project proponent 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.
- b) 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, sports facilities, monitoring equipments, infrastructure creation including road, Communication, WiFi and schools needs to be submitted with annual recurring expenditure till the life of mine.
- c) 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.

2.6 Proposal for Terms of Reference for Sand Mining in Riverbed of Wardha River with production capacity of 1.14 MTPA (0.70 Mm³) in ML Area of 327.84 ha located in village Shivanichor (Chandrapur Taluka), Hadsati, Nandgaon, Visapur (Ballarpur Taluka), Dhidsi, Kadholi BK, Charli, Kolgaon (Rajura Taluka) of Chandrapur District, Maharashtra by Western Coalfields Limited (Chandrapur Area) – [File No. IA-J-11015/92/2021-IA-II(NCM); Proposal No. IA/MH/MIN/237600/2021] - Terms of Reference

EAC Meeting Details:

EAC meeting	48 th EAC meeting
Date of Meeting	28 th to 30 th March, 2022

2. Project details:

Name of the Proposal	Sand Mining in Riverbed of Wardha River with production capacity of 0.70 Mm ³ in ML Area of 327.84 ha (Sand Mining for Stowing of UG coal mines)	
Location	Village	Shivanichor (Chandrapur Taluka), Hadsati, Nandgaon, Visapur (Ballarpur Taluka), Dhidsi, Kadholi BK, Charli, Kolgaon (Rajura Taluka)
	Tehsil/Taluka	Chandrapur, Ballarpur, Rajura
	District	Chandrapur
	State / UT	Maharashtra
	Latitudes	19°50'12.64" N to 19°53'27.86" N

	Longitudes	79°15'16.07"E to 79°20'25.44" E
	SolTopo sheet No.	56 M/5 E44B5 (OSM)
Company's Name	M/s Western Coalfields Limited (Chandrapur Area)	
Accredited Consultant and certificate no.	Central Mine Planning and Design Institute Limited Certificate No. QCI/NABET/EIA/ACO/21/2128	
KML file	Submitted	
Seismic zone	Zone III	

3. 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 and time to time amendments
Mining lease Area	327.84 ha

4. ToR Details:

ToR Proposal No.	IA/MH/MIN/237600/2021
Date of online application	10/11/2021
Documents Submitted	Form-I, PFR, Lease Documents, KML, Authorization letter, Basic summary, Consultant Accreditation letter, Mining plan approval letter, Presentation, Checklist and Affidavits.
Production capacity	0.70 Million m ³ / Year or 1.148 Million Tonne per annum
Waste	It is estimated that 3% of the total quantity will be rejected due to size of +19mm. Thus 34,440 tonne of sand gravel/rejects will be produced annually. These sand gravels will be used to fill the low lying areas within the leasehold of coal mines.
Additional information	PP submitted that the production capacity of 1.50 Mm ³ annually was proposed in the earlier approved mining plan. However, maximum annual production in past 20 years was 1.1 Mm ³ in 2006-07. Total 13.92 Mm ³ of sand was excavated from year 2001-02 to 2020-21. Thus, average sand production was 0.73 Mm ³ in a year since approval of previous Mining Plan.
Reason for sand mining	Sand mining is required for sand stowing in the underground Coal Mines

5. Lease Details:

Granted mine lease by the Govt. of Maharashtra	Area	327.84 ha
	Order no.	MMH1276/50844 (1210)/ IND-9
	Order date	20-08-1977

	Execution date	18-02-1978
Renewal of mine lease	The mining lease for Sand Mining was renewed vide Maharashtra Government letter dated 9 th May, 2000 for further 20 years	
Validity of mine lease	50 years Deemed granted as per MMDR Act amendment 2015	
Additional information	PP submitted that as per the provision of MM(DR) Amendment Act, 2015, Section 8A(3) all mining lease granted before the commencement of the Mines and Minerals (Development and Regulation) Amendment Act, 2015 shall be deemed to have been granted for a period of fifty years. Thus, mining lease for sand granted to Western Coalfields is deemed to be valid for fifty years from 18-02-1978 i.e upto 18-02-2028. Lease renewal: Government order no. MMN-3298/741 (7635)/ Desk-4, dated 09-05-2000 and Agreement was executed on 16-04-2001.	

6. Observation and Recommendation of the Committee:

The proposal for Terms of Reference was considered in the 48th EAC meeting held during 28th to 30th March, 2022. After the detailed presentation made by the Project Proponent and the Consultant, the Committee observed that the proposal for sand mining was received from M/s Western Coalfields Limited (WCL) and during the meeting it was noted that the excavation of sand is being done by M/s WCL since 2001 at the rate of about 1.14 lacs per annum. Earlier, the proposal was considered in the 42nd EAC meeting held during 30th November to 3rd December, 2021 wherein the Committee asked the project proponent to submit the details of excavation of sand for the purpose of sand stowing and the CTO details for excavation of sand. The project proponent submitted the ADS reply on 10th March 2022 stating that production of sand is being done since 2001 and so far no CTO has been obtained for the same. During the presentation, the project proponent submitted that the EC was granted for various coal mines of M/s WCL vide letters dated 21.03.2007, 02.08.2006, 11.06.2007, 21.03.2007 and 17.10.2006. It was also noted that, the EC letter dated 21.03.2007 mentioned that, '40.53 Ha is for sand stowing yards'. In view of the above, The Committee suggested the Ministry to seek advice from the policy division, MoEF&CC whether the operation of sand extraction needs to be treated as violation or not, since, it is mined out without CTO and EC. Therefore, the Committee **deferred** the proposal.

2.7 Proposal for Environmental Clearance of M/s Odisha Mining Corporation Limited for Dubna-Sakradihi Iron & Manganese mine with production of 3.0 MTPA of Iron Ore and 0.05 of Manganese ore and installation of crushing (100 TPH-1 No) and Screening unit (300 TPH-2 No and 100 TPH-1 nos) in the mine lease area of

1332.019 ha, located at Dubna, Jampani, Purunadihi, Handhibhanga, Naibaga, Basantapur, Pedipokhari R.F & Naibaga R.F., TehsilBarbil and Jhumpura, District Keonjhar, Odisha – [File No: 23-241/2018-IA.III(V), Proposal No: IA/OR/MIN/74300/2018, Consultant: MECON Limited] - Environmental Clearance (Violation)

EAC Meeting Details:

EAC meeting	48 th
Date of Meeting	28 th – 30 th March, 2022

The proposal of M/s Odisha Mining Corporation Limited is for mining of Iron & Manganese in Dubna-Sakradihi Iron & Manganese mine for Total Excavation of 7.01 MTPA{Iron Ore 6.160 MTPA [Iron: 2.994 MTPA (ROM)+3.175 MTPA (Waste Rock)]} and {Mn 0.8500MTPA [Mn: 0.0500 MTPA(ROM) + 0.800 MTPA(Waste Rock)]} and installation of crushing (100 TPH-1 No) and Screening unit (300 TPH-2 No and 100 TPH-1 nos) in the mine lease area of 1332.019 ha, located at Dubna, Jampani, Purunadihi, Handhibhanga, Naibaga, Basantapur, Pedipokhari R.F & Naibaga R.F., TehsilBarbil and Jhumpura, District Keonjhar, Odisha.The mine lease area is located between Latitude 21°48'37.35634"N to21°51'49.70793"N and Longitude 85°22'17.83890"E to 85°24'26.47792"E. The mine lease area falls under the Survey of India Toposheet No: 73 G/5 and falls in Seismic Zone-II.The Project Proponent presented the KML file during the presentation to indicate the location of mine lease on Google Earth

2. M/s Odisha Mining Corporation Limited has made an online application vide proposal no: IA/OR/MIN/74300/2018 dated 11.11.2021 and submitted Form2 and EIA report under the provisions of the EIA Notification, 2006. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals and 2(b) Mineral Beneficiation and falls under Category "A" as the mining lease area is greater than 100ha and appraised at the Central level. As decided by the Competent Authority, considering tenure of EAC (Violation) till June 2021, it has been decided that, henceforth all the EC applications for which ToR was recommended by the EAC (Violation) shall be appraised by the sectoral EACs. The respective sectors may consider co-opting two-three members from EAC (Violation) to facilitate appraisal of proposals related to violations.

3. In view of the above, the proposal was considered in the 42nd EAC (Non-Coal Mining) meeting during 30th November – 3rd December, 2021.After detailed deliberations made by the Project Proponent and the Consultant (M/s MECON Limited), the Committee noted that the Consultant could not able to bring out actual facts and also the performance of the Consultant is not satisfactory. Committee also noted that in the ToR letter dated 27.05.2019, recommendation of CSIR-NEERI report on "Carrying

capacity study for Environmentally Sustainable Iron and Manganese ore mining activity in Keonjhar, Sundargarh and Mayurbhanj districts of Odisha State” was prescribed. But during the meeting the consultant was presenting that the CSIR-NEERI report on “Carrying capacity study is not applicable in the instant proposal, which indicates the serious unprofessional behaviour of such NABET approved consultant and misleading the Committee stating that CSIR NEERI conditions are not applicable to this project. Therefore, the Committee was of the view that Ministry should take appropriate action against the consultant and deferred the proposal for want of the requisite information.

4. The Project Proponent vide Letter No. 3076 OMC/F&E/2022, dated 24.02.2022 submitted the information on PARIVESH portal on 25.02.2022 as sought by the EAC in the 42nd EAC (Non-Coal Mining) meeting held during 30th November – 3rd December, 2021 as mentioned below: -

Point (i): The Committee noted that the Public hearing was presided and proceedings were signed by Shri Bishnu Prasad Acharya, Project Director, DRDA, Keonjhar. Hence, PP needs to submit the letter from the State Pollution Control Board, Odisha clarifying whether the public hearing in the instant proposal was presided and signed by the District Magistrate/District collector/Deputy Commissioner or his/her representative not below the rank of an Additional District Magistrate as per EIA Notification 2006 or not?

Reply by PP: PP submitted the letter issued by the Odisha State Pollution Control Board vide Lr No. 1408/IND/II/PH/848 dated 29.01.2022 stating that the Collector & District Magistrate, Keonjhar has clarified vide letter no. 183/Judl dtd. 28.01.2022 that “Sri Bishnu Prasad Acharya, OAS(S), Project Director, DRDA, Keonjhar who has been authorized to preside over the Public Hearing of Dubuna-Sakradih Iron and Manganese Ore Mines of M/s OMC held on 10.10.2021 is an officer in the rank of Additional District Magistrate.”

Point (ii): The Project Proponent needs to revisit the ecological damage assessment carried out for air environment and agriculture considering the methodology and rates prescribed by EEA. The Project Proponent shall revise the damage assessment for non/partial provision of surface water management structures like garland drains, toe drains, toe walls, check dams, settling tanks etc., for quantification. PP shall also include the non-provision of rain water harvesting structures within ML area for damage assessment. The Project Proponent shall include the period for not undertaking the plantation in safety zone and other areas for ecological damage assessment. The EMP budget and the cost saved shall be re-visited.

Reply by PP: PP submitted the revised Damage Assessment, Remediation Plan and Natural & Community Resource Augmentation Plan (NCRAP) by incorporating the following(a). Revised methodology and rates prescribed by EEA, (b). Re-quantified non/partial provision of surface water management structures, (c). Considered non-provision of Rain Water Harvesting structures within ML area, (d). Considered period for not undertaking the plantation in safety zone and other areas and (e). Revised EMP budget and the cost saved.

(a). Revised methodology and rates prescribed by EEA:

PP submitted that to quantify the direct damages caused due to the excess production made by Dubna-Sakradihi Iron and Manganese ore mines during the violation period, estimation of actual contribution to the degradation of air environment during the violation period and corresponding costs of damage to the air environment have been estimated by calculating the emission load by using emission factors for each unit operations required for mining and further calculating the environmental price of emissions. The calculation of the environmental prices of air emissions i.e., PM10, PM2.5, NOX and SO2 as part of direct or indirect damages caused due to excess production is in line with the "Mechanism developed by CPCB for assessment of damage to the air quality, public health and agriculture production loss dated 19/02/2020" and "Environmental Prices Handbook EU28 version" Methods and numbers for valuation of environmental impacts, Bruym, S.T. et al, 2018, Delft, CE Delft. Considering the Indian Scenario, cost of damage has been taken as 30% of the cost in European Currency. About 28,873 tonnes of iron ore and 16,61,198 tonnes of Mn ore was produced beyond the EC/FC/CTO capacity by OMC during FY 1997-98 to 2010-11 i.e., during the violation period. PP reported that the damage cost estimated due to excess production on Air Environment is Rs 283.25 Lakhs [Dubna Mine (Mn): Rs 34.58 lakhs + Sakradihi Mine (Fe): Rs 248.67 lakhs].

Mine lease area consists of about 50.567 ha [124.954 Acre] of agricultural land. Though no agricultural land within the mine lease was acquired for excess production, exposure to airborne dust particles originating due to mining activities may have resulted in the loss of crop productivity. Agricultural productivity loss (APL) has been carried out in line with the "Mechanism developed by CPCB for assessment of damage to the air quality, public health and agriculture production loss" dated 19.02.2020. Latest MSP values for Paddy, (Rs.1940/- per quintal for FY 2021-22) *Source: Ministry of Agriculture & Farmers Welfare, Gol.* Agriculture Production Loss (APLPaddy) is (Rs.28,105/- per acre) [i.e. Rs. 35.1 lakhs in affected area of 124.9574 Acre]. Estimated percentage contribution of OMC in yield loss :10%. Agriculture Production Loss _{Paddy} by PM10 and PM2.5 is estimated around Rs. 3.51 Lakhs.

b) Re-quantified non/partial provision of surface water management structures

PP submitted that the damage (cost) caused during the violation period due to increase in surface run-off has been re-quantified. Cost already spent by OMC after the violation period in erecting some of the structures (crated boulder walls, garland drains, settling tank) at strategic points has been considered for the basis of calculation. Total damage cost has been arrived by estimating the cost of erecting adequate no. of structures (crated boulder walls, garland drains, settling tank) at strategic points near existing dumps and quarries (inactive since April 2006) those would have been constructed during the violation period for abating surface run-off and sediment control in downstream water bodies. Total damage cost (due to increase in surface run-off) - Rs. 183.06 Lakhs.

c) Damage assessment for 'non-provision of Rain Water Harvesting structures within ML area'

PP submitted that the cost saved on installation of Rain Water Harvesting structures to restore the increased surface runoff generated due to the project equals to Rs. 2.7 Cr during the violation period.

d) Damage assessment for 'not undertaking the plantation in safety zone and other areas'.

PP submitted that the plantation work was carried out during violation period in safety zone and other areas over an area of 34.92 ha. Total 44,250 saplings were planted and 32,653 plants survived. Greenbelt & plantation over safety zone and other vacant areas would have been developed to the tune of at least 33% of the broken area i.e., 89.78 ha (33% of 272.07 ha). Thus, a shortfall of 54.86 ha area for plantation has been considered for calculation of damage cost towards plantation work. Therefore, considering tree density of 2500 trees/ha, the total number of trees required to be planted for complying the said requirement is 54.86 ha x 2500 trees /ha i.e. 1,37,158 trees. Considering cost of plantation @ Rs. 50 per tree, the Cost of planting 1,37,158 trees comes Rs. 68,57,888/-. Total estimated Damage Cost (Flora) = Rs. 68.57 lakhs (Rs 0.69 Crores).

e) Revised EMP budget and the cost saved

PP submitted that the revised EMP budget and cost saved is Rs. 226.46 lakhs (2.26 Crores) and the revised cost of Environmental Damage is Rs. 1480.83 lakhs (14.81 Crores).

Point (iii):The Project Proponent needs to revise the Land Use/Land Cover classification of the mine lease area and surface features like roads, nallah/streams, existed in the area should be shown on historical imagery during the pre-mining operation and the current status.

Reply by PP: PP submitted that pre-mining land use based on DGPS surveyed map superimposed over the georeferenced cadastral map duly vetted by Odisha Space Application Centre (ORSAC) and authenticated by Forest range Officer, Champua Range and Chief Surveyor, O/o DDM, Joda. Land Use/Land Cover (LULC) classification of the ML area has been studied through Satellite image processing (Resourcesat-II; LISS III, April 2006) by Odisha Space Application Centre (ORSAC). As the mine is not in operation since 2006, Land Use/Land Cover (LULC) classification of the present Satellite Imagery (Planet Lab, June 2021) has been studied by Odisha Space Application Centre (ORSAC) to assess the status of present land use.

Point (iv): The Project Proponent in a view of protection of forest conservation, PP should explore the possibility of mining in already excavated area by going further deepen instead of mining in virgin area during plan period of 2020-21 to 2024-2025.

Reply by PP: PP submitted that the year-wise pit development plans and sections for the period from 2020-21 to 2024-25 were reviewed from the prospect of systematic & scientific mining, conservation of mineral resources, protection of environment & safety. It has been seen that the year-wise development plan has been proposed within the already excavated area in a vertical downward direction, almost upto the limit of proved mineral zone. However, in order to maintain the overall pit slope angle of the mine, the mining limit on surface has to extend to the virgin areas, which were proposed accordingly in the year-wise development plans. PP reported that only 55.368 ha (i.e., 5.4%) additional area would be required during the ensuing planned period (upto 2024-25) as per the Review of Mining Plan approved by IBM.

Point (v): The Project Proponent needs to justify that why no beneficiation was envisaged in this instant proposal.

Reply by PP: PP submitted that the ROM of Iron ore to be produced from Dubuna-Sakradih mine will be having +45% Fe content as per the threshold value of +45% Fe declared by IBM. The iron ore [+55% Fe and +45% Fe] will blend and subject to crushing and screening, the avg. grade of 61.11% Fe content will be obtained. The crushed product [+10mm to -40 mm] lump ore with Fe content +62% with avg. grade of +63% Fe (approx.) and [-10 mm fines ore] with +60% Fe content with avg. grade +61% Fe (approx). The lump ore will be consumed in the neighbouring steel plant, sponge iron plants, DRI and Blast furnace of Odisha and neighbouring States. The fines ore will be

consumed in the sinter plants and pellet plants. The Manganese ore after manual sorting and screening will be consumed in the neighbouring steel and sponge plants of Odisha and in neighbouring States. Hence, no beneficiation has been envisaged.

Point (vi): The Project Proponent submitted that the total lease area was surveyed by DGPS by ORSAC and computed the total area as 1331.549ha. While vetting the surveyed map, ORSAC has certified that the surveyed data is within 95% of the confidence level. The differential area of 0.47 ha is within 5% of the permissible limit as per the ORSAC. Hence, the PP needs to submit the letter from the State Government mentioning the details of survey and the exact mine lease area.

Reply by PP: PP submitted that the Steel & Mines Dept., Govt. of Odisha vide Lr No. 880/SM, Bhubaneswar dated 04.02.2022 allowed further one year time for execution of Supplementary Lease Deed of the Mining Lease of OMC over 1332.019 ha. The Land Schedule over 1332.019 ha pertaining to Dubna-Sakradihi Iron and Manganese ore mines of OMC duly certified by Revenue Department Tahsildar, Barbil vide memo no. 5122 dated 26.11.2016 & Tahsildar, Jhumpura vide memo no. 2451 dated 05.11.2016.

Point (vii): The extent of area to be broken till the year 2029 as per the revised mine plan shall be re-visited and accordingly mine plan till conceptual stage shall be revised and approved by the IBM.

Reply by PP: PP submitted that the present Review of Mining Plan of Dubna Sakradihi Iron and Mn Ore Mine has been approved by Indian Bureau of Mines (IBM) vide LrNo-RMP/A/41- ORI/BHU/2019-20 dated 04.02.2020 for the period from FY2020-21 to 2024-25. As per approved Mining Plan, the anticipated life of mine is 17 years from the date of commencement of mining at the rate of 3.0 MTPA of Iron Ore and 0.05 MTPA of Manganese Ore. Assuming production of Iron and Mn ore starts in the FY 2022-23, the life of mine would till FY 2039-40. PP also submitted the extent of area to be broken till the year 2029, (i.e., at end of validity of lease period) such as Area under Mining: 341.530 Ha, Area under Waste Dump: 78.929 Ha, Mineral Storage: 39.209 Ha, Infrastructure: 8.652 Ha, Roads: 16.805 Ha, Mineral Separation Plant: 5.0 Ha, Statutory Barrier (Undisturbed): 33.728 Ha and Others (Undisturbed) 808.166 Ha.

Point(viii): The Project Proponent needs to revise the Wildlife Conservation Plan indicating the elephant migratory routes and corridors with identified impacts and suitable mitigation measures and budget.

Reply by PP: PP submitted that the Site Specific Wildlife Conservation Plan(SSWCP) has been revised indicating the elephant migratory routes and corridors with identified impacts, suitable mitigation measures and budget and approved by Principal Chief Conservator of Forests (Wildlife) PCCF(WL) & Chief Wildlife Warden (CWLW) vide Lr

No. 13876/CWLW-FDWC-FD-0053-2021 dated 20-12-2021 with financial outlay of Rs. 600.867 Lakhs. PP also submitted that the SSWCP has been prepared as per the latest guidelines issued by Principal Chief Conservator of Forests (Wildlife) PCCF(WL) & Chief Wildlife Warden (CWLW), Odisha vide memo no. 9094/CWLW-FDWC-MISC-0028-2021 dated 17.09.2021. PP submitted that the project area neither forms a part of any National Park nor Wildlife Sanctuary or any other Protected Area. No rare or endangered species available in the applied diversion area, but movement of wild elephants is often witnessed in the applied forest land and adjoining forest. Though there is no recognized Elephant corridor within the 'Zone of Impact' [area within 10 km radius from the periphery of ML boundary], the movement of elephant is frequently noticed in the zone. There is one identified corridor namely Karo-Karampada (Interstate boundary of Jharkhand/Odisha) outside the zone of impact about 19 km away from the project. PP proposed to construct Masonry Structure (6 No.)/vegetative check dams (30 No.) on Ghagra, Jalpa & Dalki nala in order to check silt in the runoff and allow clean water to outside the lease area. (In consultation with Forest/Soil Conservation Officials). PP also proposed to provide adequate solar lighting arrangement (28 No.s: High mast) around habitations to keep wild animals away for habitation within mine lease area. PP proposed to arrange 2 awareness camps per year for awareness among children/villagers on various road safety measures and about animal behaviours and how to respond in case of animal intrusion to the Habitation.

Point (ix): The Project Proponent needs to submit the water balance for pre-monsoon and post-monsoon season.

Reply by PP: PP submitted the flow chart of water balance for pre-monsoon and post-monsoon season. The water balance chart shows that the water will be utilized from bore well and Jalpa Nala. The recycled quantity of water during pre-monsoon and post-monsoon will be 109 KLD and 99 KLD respectively.

Point(x): The Project Proponent shall revise the budget of public hearing concerns raised by the public with a timeline of 3 years from the date of start of mining operations. PP shall allocate 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 and desktops/tablets, infrastructure and environment protection.

Reply by PP: PP has revised the budget of public hearing from Rs 632.36 Lakhs to Rs 1985.1 Lakhs with a timeline of 3 years (2022-23 to 2024-25) and allocated a 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 and desktops/tablets, infrastructure and environment protection.

Point (xi): The NEERI Conditions prescribed in the ToR letter dated is applicable to the project, hence Project Proponent needs to submit the compliance status of the recommendation of CSIR-NEERI report on carrying capacity study and commitment complied to till date with compliance schedule.

Reply by PP: PP has submitted the self compliance status of the recommendation of CSIR-NEERI report on carrying capacity study and commitment with compliance schedule.

Point (xii): The Project Proponent needs to submit the Compliance of earlier CTO issued by the State Pollution Control Board.

Reply by PP: PP submitted that the mining operation at Dubna-Sakradihi ML has been discontinued since April 2006 due to want of Forest and Environmental Clearance. PP submitted that earlier CTO issued by the SPCB, Odisha vide grant order No. 24937/IND-I-CON-264 dated 12.11.2008 for Dubna Manganese mines which was valid till 31.03.2009 and vide order No.14633/IND-I-CON-2552 dated 09-09-2009 for Sakradihi Iron Ore Mines which was valid till 31.03.2010. PP also submitted the certified CTO compliance issued by the Odisha State Pollution Control Board vide Lr No: 2932/IND-I-CON-264 dated 22.02.2022 pertaining to Dubna Manganese mines and vide Lr No: 2931/IND-I-CON-2552 dated 22.02.2022 pertaining to Sakradihi Iron Ore Mines.

Point (xiii): The Project Proponent needs to submit the copy of supplementary lease deed executed for both Iron and Manganese ore.

Reply by PP: PP submitted that the Steel & Mines Dept. Govt. of Odisha vide Lr No. 880/SM, Bhubaneswar dated 04.02.2022 allowed further one year time for execution of Supplementary Lease Deed. Further, PP submitted that the Directorate of Mines, Odisha vide letter No. MIV(a)-16/2018-6563/DM dated 19-09-2018, intimated OMC that the order in respect of extension of validity of the lease period upto 26.12.2029 will be effective from the date of execution of supplementary lease deed only after receipt of all statutory clearances by the lessee including Environmental Clearance.

Point(xiv): The Project Proponent needs to submit the all the analysis/testing reports of water, air, soil, noise, etc. using the MoEF&CC/NABL accredited laboratories.

Reply by PP: PP submitted that the baseline data generation has been carried out by Environmental Engineering Laboratory, MECON Limited, Ranchi, a Govt. of India Enterprise under Ministry of Steel, which is a CPCB recognized, ISO 45001:2018 certified environmental laboratory. PP also submitted the Copy of Gazette of India

notification dated 20.07.2020 regarding CPCB's Recognition and validity of ISO 45001:2018 certificates of Environmental Engineering Laboratory, MECON.

Point(xv): The Project Proponent needs to submit the copy of the Temporary Working Permission granted vide letter no. F.No.8-135/2006-FC dated 16th July 2008.

Reply by PP: PP submitted the copy of Grant of Temporary Working Permission (TWP) issued by MoE&F vide LrNo. F.No.8-135/2006-FC dated 16th July 2008 in favour of M/s Orissa Mining Corporation Ltd over already broken up forest area of 253.229 ha in Dubna-Sakradihi mines in Keonjhar District of Orissa for a period of one year.

5. The details of the Terms of References (TOR) are furnished as below:

Date of application	Proposal No	Consideration	Details	Date of accord
12.04.2018	IA/OR/MIN/74300/2018	13 th EAC (Violation) meeting held during 18-20 Sept, 2018 & 17 th EAC (Violation) meeting held during 29-31 January, 2019	Total Excavation of 7.0 MTPA [3.0 MTPA Iron Ore, 0.05 MTPA Manganese Ore, Waste (2.2 MT-iron ore); (1.1 MT-Mn ore) O.B, Inter Burden (Sub grade - 0.25 MT-iron ore; 0.02MT - Mn ore), Top Soil (0.1638 Mm ³) till conceptual stage] and installation of crushing (100 TPH-1 No) and Screening unit (300 TPH-2 No and 100 TPH-1 nos) in the mine lease area of 1332.019 ha and additional specific conditions as recommended by CSIR-NEERI on carrying capacity study	27.05.2019

6. The Project Proponent submitted that the Dubuna manganese mining lease executed on 08.09.1971 for a period of 20 years over 1135.419 ha which was valid till 07.09.1991 and Sakradihi Iron ore mining lease executed on 28.12.1959 for a period of 30 years over 564.55 ha which was valid till 27.12.1989. PP further submitted that they requested State Government, Orissa for amalgamation of these two mining lease over a reduced area of 196.60 ha in respect of Sakradihi iron ore and 1135.419 ha of Dubuna manganese mining lease. Department of Steel and Mines, Government of Odisha has amalgamated the lease vide letter no. IV(A) S-62/05-3607 dated 18.02.2006 over the

area of 1332.019 ha (196.60 ha- Sakradihi iron ore and 1135.419 ha-Dubuna manganese mining lease). PP further submitted that the Steel & Mines Department, Government of Odisha has extended the validity period of mining lease for iron and manganese ore over an area of 1332.019 ha vide letter No. III(A)SM15/2013/9411/SM, Bhubaneswar dated 05.12.2018. The order states that *"in terms of Rule 3(1) of the Mineral (Mining by Government Company) Rules, 2015, the period of amalgamated mining lease over 1332.019 ha is deemed to be granted for 50 years i.e. from 28.12.1959 to 27.12.2009 and in terms of Rule 3(2) the period of the amalgamated mining lease is further extended from 28.12.2009 to 27.12.2029 for the reason that OMC requires operation of its mines for supply of ore to the user agencies subject to lessee executing the supplementary lease deed for such lease extension period."* PP submitted the letter issued by Steel & Mines Department, Govt of Odisha vide No 2076/SM, Bhubaneswar dated 24.02.2021 to allow further 01 (one) year time w.e.f. 05.12.2020 for execution of supplementary lease deed. Further, PP submitted that the Steel & Mines Dept. Govt. of Odisha vide Lr No. 880/SM, Bhubaneswar dated 04.02.2022 allowed further one year time for execution of Supplementary Lease Deed.

7. The Project Proponent submitted that the Review of Mining Plan along with Progressive Mine Closure Plan of Dubna-Sakradih Iron & Mn mine approved by IBM vide letter No. RMP/A/41-ORI-BHU/2019-20 dated 04.02.2020 over an area of 1332.019ha for the period 2020-21 to 2024-2025.

8. The Project Proponent submitted that the mining will be carried out by open cast mining method by conventional shovel dumper combination. PP reported that considering 25.7524 million tonnes of iron ore reserves (UNFC Code 121), the expected life of iron ore will be about 9 years (approx. 2.7679 million tonnes of iron ore will be blocked in the mine) and whereas, considering 1.146 million tonnes of manganese ore reserves (UNFC Code 121), the expected life of manganese ore mine will be about 8 years (approx. 0.7260 million tonnes of Mn ore will be blocked in the mine). Thus, the anticipated life span of the mine extends beyond 17 years with the production of only Mn ore from 10th year onwards, once the iron ore reserves are exhausted. - Drilling will be carried out using 150 mm dia. Drills with 3 - 3.5 m burden and 3.5 - 4 m spacing in iron ore whereas, 115 mm dia. drill with 2.5-3 m burden & 3-3.5 m spacing. Total 80 % (approx) of planned quantity will require drilling & blasting. Holes will be charged with slurry explosives and initiated using detonating fuse/NONEL. PP also reported that the proposed height of bench will be 6 m with 12 m minimum working width. Bench slope has been considered as 75°. PP reported that only 55.368 ha (i.e., 5.4%) additional area would be required during the ensuing planned period (upto 2024-25) as per the Review of Mining Plan approved by IBM. PP further submitted that the crushing unit (1 nos.) of 100 TPH & screening Unit (2+1 nos.) of 300 & 100 TPH respectively (10% of ROM) will be installed for processing the Fe ore. In iron ore deposits, blasted material

will be loaded with hydraulic excavators (diesel powered) of bucket capacity of 3.0 – 4.5 cu.m bucket capacity in 35 T dumpers and will be transported to proposed crushing & screening plant for production of CLO & fines. Whereas, in manganese ore deposits blasted material will be loaded using hydraulic excavators of 0.9 – 2.0 cu.m bucket capacity in 25 T capacity tippers and will be transported to proposed mobile crushing & screening plant for production of Manganese of -40 +10 mm size. A total of 21.38 MT waste will be generated from iron ore quarries up to conceptual stage. Out of which, 9.86 Mt waste will be generated during the plan period up to 2024-25. Entire generated waste has been planned to be dumped in waste dumps WD1, WD2 and WD3 as well as for backfilling & surface dumping from the year 2023-24 onwards. A total of 4.54 MT waste will be generated from Mn ore quarries up to conceptual stage. Out of which, 2.40 Mt waste will be generated during the ensuing plan period up to 2024-25. Entire waste generated from FY 2020-21 to FY 2024-25 has been planned to be dumped in waste dumps WD1M & WDM-1. Entire balance waste of Mn ore quarries i.e., 17.96 Mm³ generated from year 2024-25 up to conceptual stage has been proposed to be backfilled in the mined-out voids of deposit 5 Top (backfill 5). PP also submitted that the mine is non-operational since April 2006 (26.04.2006). PP reported that the existing pit limit is 595 m AMSL (Deposit 8D), Ultimate pit limit will be 534 m AMSL [Deposit 8D] and Ground water table lies between 410m - 418m AMSL (~ 116m below ultimate pit limit) and hence, the mining activity shall not intersect the ground water table.

9. The Project Proponent submitted that the ROM of Iron ore to be produced from Dubuna-Sakradih mine will be having +45% Fe content as per the threshold value of +45% Fe declared by IBM. The iron ore [+55% Fe and +45% Fe] will blend and subject to crushing and screening, the avg. grade of 61.11% Fe content will be obtained. The crushed product [+10mm to -40 mm] lump ore with Fe content +62% with avg. grade of +63% Fe (approx.) and [-10 mm fines ore] with +60% Fe content with avg. grade +61% Fe (approx). The lump ore will be consumed in the neighbouring steel plant, sponge iron plants, DRI and Blast furnace of Odisha and neighbouring States. The fines ore will be consumed in the sinter plants and pellet plants. The Manganese ore after manual sorting and screening will be consumed in the neighbouring steel and sponge plants of Odisha and in neighbouring States. Hence, no beneficiation has been envisaged.

10. The Project Proponent reported that the average water requirement for domestic and industrial use will be about 112 m³/day and 223 m³/day respectively and Peak water requirement for domestic and industrial use will be about 123 m³/day and 302 m³/day, respectively. PP submitted that about 159 m³/day (peak) of potable water shall be required from bore well and 302m³/day of surface water from Jalpa nadi shall be required for industrial use. PP submitted the flow chart of water balance for pre-monsoon and post-monsoon season. The water balance chart shows that the water will be utilized from bore well and Jalpa Nala. The recycled quantity of water during pre-

monsoon and post-monsoon will be 109 KLD and 99 KLD respectively. PP submitted the No Objection Certificate (NOC) obtained from CGWA vide NOC No: CGWA/NOC/MIN/ORIG/2021/13572 dated 01.11.2021 for ground water abstraction of 159 m³/day and is valid till 31.10.2023. PP also submitted the letter allocated by Dept. of Water Resources, Govt. of Odisha vide letter no. 1006/WR. dated 09.01.2020 for drawal of 0.043 cu sec (~105 m³/day) of surface water (Jalpa Nalla).

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

Particulars	Particular's Name	Distance & Direction
Nearest Town	Joda	~25 km, N
Nearest State/ National Highway	Dubna-Sakradihi-Nayagarh Road (SH10)	100 m, NE
	Joda-Keonjhar Road (NH20)	16 km, E
Nearest Railway station	Nayagarh	~ 4 km, E
Water bodies	Dalaki nala	touching on southern side
	Jalpa nadi	0.1 km, N
	Ghagra Nala	1.5 km, S
	Malda Nadi	3.5 km, S
	Baitarani River	4.5 km, E

12. Land Use/Land Cover of the Mine Lease Area:

Forest Land	Area, ha	Non-Forest land	Area, ha
Reserve Forest	773.336	Waste Land	26.667
Protected Forest	Nil	Grazing Land	0.001
Village Forest	28.992	Agriculture Land	50.567
Others (HAL/SABIK)	38.199	Others (Hutments, Community, Water way etc.)	11.044
Other (DLC Forest)	402.743		
Total	1243.270	Total	88.279
Additional information (if any)	PP submitted that the total lease area was surveyed by DGPS by Odisha Space Applications Centre (ORSAC) and computed the total area as 1331.549ha. While vetting the surveyed map, ORSAC has certified that the surveyed data is within 95% of the confidence level. The differential area of 0.47 ha is within 5% of the permissible limit as per the ORSAC. PP submitted the Land Schedule over 1332.019 ha pertaining to Dubna-Sakradihi Iron and Manganese ore mines of OMC duly certified by Revenue Department Tahsildar, Barbil vide memo no. 5122 dated 26.11.2016 & Tahsildar, Jhumpura vide memo no. 2451 dated 05.11.2016.		

13. The Project Proponent submitted that the total mine lease area is 1332.019 ha, out of which, 1243.270 ha is forest land and 88.279 ha is non-forest land. PP obtained Stage-I FC vide Lr File No.8-26/2019FC dated 06.05.2021 for non-forestry use of 1243.27 ha of forest land for mining of Iron and Manganese Ore in Dubna-Sakradihi Mines. PP deposited Rs. 80.68 crores towards NPV. PP submitted the Grant of Temporary Working Permission (TWP) issued by MoE&F vide Lr No. F.No.8-135/2006-FC dated 16th July 2008 in favour of M/s Orissa Mining Corporation Ltd over already broken up forest area of 253.229 ha in Dubna-Sakradihi mines in Keonjhar District of Orissa for a period of one year. PP submitted the location map duly authenticated by PCCF (WL) and CWLW, Odisha vide Lr No. 4670/7WL-FD&WLC-61/2020 that there is no National Park, Sanctuary, Biosphere Reserve, Wildlife Corridors, Ramsar site Tiger/ Elephant Reserves (existing as well as proposed) within 10 km radius from the mine lease area. Further, PP submitted that there are no scheduled tribes and other traditional forest dwellers are seen residing in the leasehold area. PP also submitted the Certificate issued by Collector, Keonjhar under "Scheduled Tribes and other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006".

14. The Project Proponent reported that the following Schedule-I species are found in the study area such as Elephant, Sloth Bear, Indian Python, Pea Fowl and Monitored Lizard. PP submitted the list of flora-fauna authenticated by Divisional Forest Officer, Keonjhar Forest Division vide letter no. 10545/6F-Mining-Keonjhar dated 06.12.2019. PP submitted the Site-Specific Wildlife Conservation Plan (SSWCP) approved by PCCF (WL) & Chief Wild Life Warden (Odisha) vide Lr no. 9432/1WL-SSP-62/2016 dated 30th Nov., 2016. PP submitted that MoEFCC, GoI while conveying the Stage-I FC (vide F. No. 8- 26/2019-FC dt. 06.05.2021) for diversion of 1243.27 ha of forest land has stipulated condition (A) 11, given as under:

"A site-specific Wildlife Management Plan shall be prepared by the State Government in consultation with the PCCF (Wildlife) for the protection and conservation of wildlife of the area. Comments of the Project Elephant Division of the MoEF&CC (copy enclosed) shall be addressed in the said Plan and a copy of approved Plan shall be submitted to the Ministry along with the compliance of Stage-I approval. Entire cost of implementation of the provisions of the Wildlife Management Plan shall be deposited into the account of CAMPA of the State to prepare a revised site".

PP in compliance to the above engaged M/s CHANDANAM, an agency empanelled by PCCF(WL) & CWLW, Odisha to prepare the SSWCP as per the latest guidelines issued by PCCF(WL) & CWLW, Odisha vide memo no. 9094/CWLW-FDWCMISC-0028-2021 dt. 17.09.2021 incorporating the compliance to the observation by Project Elephant Division. PP submitted that the Site Specific Wildlife Conservation Plan(SSWCP) has been revised indicating the elephant migratory routes and corridors with identified impacts, suitable mitigation measures and budget and approved by

Principal Chief Conservator of Forests (Wildlife) PCCF(WL) & Chief Wildlife Warden (CWLW) vide Lr No. 13876/CWLW-FDWC-FD-0053-2021 dated 20-12-2021 with financial outlay of Rs. 600.867 Lakhs. PP submitted that the project area neither forms a part of any National Park nor Wildlife Sanctuary or any other Protected Area. No rare or endangered species available in the applied diversion area, but movement of wild elephants is often witnessed in the applied forest land and adjoining forest. Though there is no recognized Elephant corridor within the 'Zone of Impact' [area within 10 km radius from the periphery of ML boundary], the movement of elephant is frequently noticed in the zone. There is one identified corridor namely Karo-Karampada (Interstate boundary of Jharkhand/Odisha) outside the zone of impact about 19 km away from the project. PP proposed to construct Masonry Structure (6 No.)/vegetative check dams(30 No.) on Ghagra, Jalpa & Dalki nala in order to check silt in the runoff and allow clean water to outside the lease area. (In consultation with Forest/Soil Conservation Officials). PP also proposed to provide adequate solar lighting arrangement (28 No.s: High mast) around habitations to keep wild animals away for habitation within mine lease area. PP proposed to arrange 2 awareness camps per year for awareness among children/ villagers on various road safety measures and about animal behaviours and how to respond in case of animal intrusion to the Habitation.

15. The Project Proponent reported that the total area proposed for greenbelt/plantation will be 1266.988 ha with 9,18,311 no. of saplings. PP also reported that the 7.96 ha of safety zone already covered under plantation with 12,736 no. of trees. During plan period, PP proposed to plant over an area of 23.11 ha (13.36 of safety zone and 9.75 ha over external dump) with 28,201 no.s of saplings. PP earmarked a budget of Rs 25.0 Lakhs as Capital cost and Rs 14.0 Lakhs as Recurring cost towards Greenbelt/Plantation.

16. Baseline details:

The primary baseline data for specific micro-meteorology data, ambient air quality, waste quality, noise level, soil and flora & fauna has been collected during Summer. The Monitoring results of ambient air, surface water, soil, ambient noise and ground water for the month of March to May, 2019 have been reported and no major divergence was observed with respect to concentration values of various parameters of collected samples.

Baseline Data (Air / Water / Noise / Soil / Ground water table/ others)						
Period of baseline data collection				March to May, 2019		
Season (Summer / Pre-monsoon / Post-monsoon / Winter)				Summer		
Period		Results of Baseline monitoring				
AAQ parameters	Pollutant	Min, $\mu\text{g}/\text{m}^3$	Max,	98 % l e,	Standard,	

Minutes of 48th EAC (Non-Coal Mining) Meeting held during 28th to 30th March, 2022

at 7 locations			$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$
	PM2.5	19	48	47	60
	PM10	57	98	97	100
	SO ₂	4	13	13	80
	NO _x	10	28	28	80
AAQ modelling (Incremental GLC)	Pollutant	Baseline Concentration, $\mu\text{g}/\text{m}^3$	Incremental Concentration, $\mu\text{g}/\text{m}^3$	Total GLC, $\mu\text{g}/\text{m}^3$	Standard
	PM2.5	43	1	44	60
	PM10	98	1	99	100
	SO ₂	10	1	11	80
	NO _x	17	1	18	80
Noise level at 7 locations	Day Time: 36.2 to 51.2 Leq dB (A) Night Time: 33.5 to 52.2 Leq dB (A)				
Surface water quality at 4 locations	SW1, SW2 meets the criteria specified for Class-B and Baitarani River (SW3, SW4) meets Class-C, when compared with criteria specified by CPCB. pH ranged between 6.97 to 7.38. Values for Aluminium in pond water (SW2) and Iron & Aluminium in Baitarani River (SW3, SW4) exceeded the respective permissible limits when compared with drinking water specification of IS 10500:2012.				
Ground water quality at 5 locations	pH ranged between 6.87 to 7.45. Total hardness ranged between 24 to 276 mg/l. The other general parameters concerning undesirable substances are all within desirable limits except for Aluminium.				
Soil quality at 5 locations	pH of the soil is slightly acidic ($5.18 < \text{pH} < 5.89$). Availability of phosphorus and nitrogen are low. Organic carbon content is low to medium while potassium content is medium to high. Moderate quantities of calcium and magnesium were observed whereas levels of exchangeable sodium and potassium were relatively low.				
Traffic study	Traffic density analysis carried out at 3 (three) locations at State Highway & MDR which are envisaged to be used by for ore transportation from mine site for 24 hours continuously. The existing average traffic density on road is 22,255 PCU/day (Near Kajurdih). Considering the additional capacity of about 1200 PCUs/day i.e., 400 trucks/day, for transporting 0.9 million tonnes per annum ore from Dubna-Sakradihi mine through Dubuna-Sakradihi-Nayagarh Road (SH10) about 8455 PCU is over the carrying capacity limit. Once the four-laning of road (NH20) is completed the carrying capacity will be well within the required limited.				

17. Public Hearing (PH) Details:

Advertisement for PH with date	i. The New Indian Express (English),
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Minutes of 48th EAC (Non-Coal Mining) Meeting held during 28th to 30th March, 2022

	Bhubaneswar edition dated 09.09.2021 ii. Dharitri (Odiya), Local edition dated 09.09.2021
Date of PH	10.10.2021
Venue	Gupteswar High School, Dubuna
Chaired by	i. Shri Bishnu Prasad Acharya, Project Director, DRDA, Keonjhar. ii. Shri Pushkar Chandra Behera, Regional Officer, SPCB, Keonjhar, Odisha
Main issues raised during PH	Employment to local people, Health, Education, Agriculture, Pollution Control, Plantation, Road safety, Welfare activities
Budget proposed for addressing issues raised during PH	Rs. 1985.1 lakhs
Additional information (if any)	PP submitted the letter issued by the Odisha State Pollution Control Board vide Lr No. 1408/IND/II/PH/848 dated 29.01.2022 stating that the Collector & District Magistrate, Keonjhar has clarified vide letter no. 183/Judl dtd. 28.01.2022 that "Sri Bishnu Prasad Acharya, OAS(S), Project Director, DRDA, Keonjhar who has been authorized to preside over the Public Hearing of Dubuna-Sakradih Iron and Manganese Ore Mines of M/s OMC held on 10.10.2021 is an officer in the rank of Additional District Magistrate."

18. Status of CTE/CTO:

Consent to Establish (CTE)	Consent to Establish for Dubna-Sakradihi Iron & Manganese Ore Mine was issued by the State Pollution Control Board, Odisha vide No. 25191/IND-II-NOC-4759 dated 19-11-2008 for enhancement of production of iron ore upto 1.0 MTPA and manganese ore 0.06 MTPA with 250 TPH Crusher and Screening Plant (over mine lease hold area of 1332.019 ha).
Consent to Operate (CTO)	i. Consent to operate grant order issued by the State Pollution Control Board, Odisha vide No. 24937/IND-I-CON-264 dated 12.11.2008 was valid till 31.03.2009 for Dubna Manganese mines. ii. Consent to operate grant order issued by the State Pollution Control Board, Odisha vide No. 14633/IND-I-CON-2552 dated 09-09-2009 valid till 31.03.2010 for Sakradihi Iron Ore Mines
Compliance of earlier CTO	PP submitted that earlier CTO issued by the SPCB, Odisha vide grant order No. 24937/IND-I-CON-264 dated 12-11-2008 for

	Dubna Manganese mines which was valid till 31.03.2009 and vide order No.14633/IND-I-CON-2552 dated 09-09-2009 for Sakradihi Iron Ore Mines which was valid till 31.03.2010. PP also submitted the certified CTO compliance issued by the Odisha State Pollution Control Board vide Lr No: 2932/IND-I-CON-264 dated 22.02.2022 pertaining to Dubna Manganese mines and vide Lr No: 2931/IND-I-CON-2552 dated 22.02.2022 pertaining to Sakradihi Iron Ore Mines.
Compliance of NEERI recommendations	PP has submitted the self-compliance status of the recommendation of CSIR-NEERI report on carrying capacity study and commitment with compliance schedule.

19. The Project Proponent submitted that no rehabilitation and resettlement of land oustees involved in the project and no private land will be acquired for the project under present proposal. PP also submitted that earlier surface right over an area of 1135.419 ha was granted for Dubna ML vide order no. 1015/M dated 11.10.1972. Surface right over an area of 499.7868 ha was granted for Sakradihi ML vide order no. IX (4)60(M)/204/Keonjhar dated 22.01.1960. Out of above, part of the Sakradihi ML was overlapping with Dubna ML. Accordingly, overlapping area of lease was included in Dubna lease.

20. The Project Proponent submitted that the mine was operated by violating the Environment (Protection) Act, 1986 as PP started the work on site without prior EC under EIA Notification, 2006. Mine was in operation till 2006-07 without EC. PP also submitted that following demand notice was raised by State Government and the corresponding payment made against the demand notice are mentioned below.

- I. Deputy Director of Mines (DDM), Joda vide letter no. 4082/Mines dated 02.09.2017 had raised a demand of Rs. 54,17,77,254/- for production of iron ore during 2000-01 to 2010-11 without EC pertaining to Sakradih Iron Ore Mines. Followed by, DDM revised the compensation to Rs. 26, 43, 93,571/- vide Demand Letter No. 6096/Mines dated 13.12.2017.
 - a) Payment of compensation of Rs. 26, 43, 93,571/- was made vide bank transaction ID: CKE5244105 dated 27.12.2017.
 - b) However, the DDM has communicated to PP vide letter No.1327/Mines dated 03.03.2018 and mentioned that "Though you have deposited the compensation amount as per the revised demand notice within 31/12/2017, you have failed to hand over the undisposed stock of minerals within the stipulated time i.e., 28/2/2018. Therefore, you will not be eligible for the reduction of compensation amount and liable to pay the compensation amount in full along with interest@14% from 31.12.2017.

- c) Therefore, the payment of remaining compensation along with interest was made (Rs. 277,383,683/- + Rs.7,234,774/- = Total: 28,46,18,457/-) vide transaction ID:CKF2244345 dated 09.03.2018.
- II. DDM, Joda had also raised a demand of Rs. 2,66,50,514/- vide letter no. 4076/Mines dated 02.09.2017 for production of manganese ore during 2000-01 to 2010-11 without EC pertaining to Dubna Manganese mines.
 - a) Payment of compensation of Rs. 2,66,50,514/- for Dubna mines was made vide bank transaction ID: CKE5245829 dated 27.12.2017.
- III. DDM, Joda had also raised a demand of Rs. 12,43,46,720/- vide letter No. 5208/Mines dt. 23.10.2017 against the Ores/Minerals raised without/in excess of Mining Plan and CTO.
 - a) Payment of compensation was made along with interest due to belated payment (Total: Rs. 14,32,74,676/-) vide bank transaction ID:CKH1402300 (Rs. 124346720/-) and ID:CKH1403269 (Rs.18927956/-) on 19.09.2018.

21. The Project Proponent submitted that case is pending against the project proposal i.e., credible action initiated as cognizance of offence under Section 15 of the E(P) Act, 1986 against OMC on 23.04.2014 by S.D.M, Champua in the court of the JMFC, Barbil, Keonjhar, vide No: 2(C)CC-8/2014 for violating the E (P) Act, 1986. PP submitted the court case is under sub-judice.

22. The Project Proponent submitted that Ecological Damage Assessment done for FY 1994-95 to 2006-07 and Central Empowered Committee (CEC) considered the violation period from 2000-01 to 2010-11 for calculating Notional Value of Violation Production. Ecological Damage Assessment has been done for total violation production of 16,61,198 tonnes (iron ore) and 28,873 tonnes (Manganese ore). Mining of Manganese ore from Dubna ML started in 1989-90 and for excess production of manganese ore, no additional area was broken in comparison to the status of 1993-94. Mining of Iron ore from Sakradih ML started in 1996-97 over 10.28 ha (non-forest land) till 2006-07. Damage due to utilization of 10.28 ha of non-forest land for mining has been for ecological damage assessment. The damage cost due to loss of fertile top soil, loss of soil moisture regime, surface run off and erosion for 10.28 ha non-forest land is estimated to be Rs. 7.10 lakhs. Highest excess production of ~ 7,058 tonnes (Mn) and 3,39,850 tonnes (Fe) was during FY 2005-06. The worst case AQI during violation was under satisfactory range, where minor breathing discomfort to sensitive people is envisaged. PP reported that Deepest quarry level (during violation) = 559m AMSL [Manganese quarry (Deposit-7)] and Ground water table found to be in the range of 410 – 418 m AMSL (which is 141m - 149m below the UPL) and Ground water table was not intersected due to mine working during violation production. No ground water has been

used for the mine during violation period. Additional SW used for excess violation production. PP also reported that Ground Water quality recorded in Dec. 2005 (earlier EIA/EMP study) at Jarpada village has been studied to assess the water quality during violation phase with max. excess production. Water quality monitored during the present EIA study (summer season 2019) represents the site condition with "No project scenario". Parameters like TDS, Turbidity, Iron, Total alkalinity and Total Hardness, which are likely to change due to mining operations are well within the desirable limit of the drinking water quality standards (as specified in IS:10500 2012, Amendment no. 1, June 2015) and thus the damage caused to GW quality during violation production may be considered as of low range. No significant damage occurred due to mining activities carried out on noise environment. PP also submitted that total amount paid against various demands (along with interest) on account of different violation(s) is Rs. 71,89,37,218/- (Seventy-one crore eighty-nine lakhs thirty-seven thousand and two hundred eighteen rupees). PP also submitted that Bank Guarantee will be submitted to SPCB, Odisha prior to the grant of EC for equivalent amount of Remediation Plan and Natural and Community Resource Augmentation Plan and Natural and Community Resource Augmentation Plan.

Damage Remediation, Natural Resource Augmentation and Community Resource Augmentation Plans

Sl. No.	Activity Proposed	Total (in Rs. lakh)
1.	Damage/remediation with respect to ecological aspects	904.37
2.	Natural Resources Augmentation Plan	145.00
3.	Community Resource Augmentation Plan	431.46
Total Fund		1480.83

Damage Remediation Plan

Parameters	Activity Proposed	Yr. 1	Yr. 2	Yr. 3	Total
		Lakh	Lakh	Lakh	Lakh
Air & Noise Environment	Additional Health Camps to monitor the pulmonary diseases, ENT, Diabetes and Hypertension health status of nearby villages (10 villages x 4 Camps/Year @ Rs 1 lakh for 3 years)	40	40	40	120
	Road Sweeping Machine for the main road carrying mineral upto Nayagarh railway siding (2 Machines @ Rs 50 lakh)	50	50	-	100
	3 Nos. of 16 kl mist cannon for public road	60	60	60	180
Total Air Environment		150	150	100	400

Water Environment	Construction of series of check dam (20 nos. @ ~Rs.5 lakhs) on seasonal drainage channels within ML to arrest silt and sediment load.	40	40	20	100
	Construction of series of check dam (30 nos. @ ~Rs.5 lakhs) on seasonal/perennial streams outside the ML to arrest silt and sediment load.	50	50	50	150
	Construction of percolation Tanks (5 nos. @ ~ 20 lakhs) for recharging GW;	40	40	20	100
	Sub-surface dyke for ground water recharge (10 nos. @ ~ Rs.10 lakhs)	40	40	20	100
	Construction of Nala Bunds/ Contour bunds (10 nos. @ ~ Rs.2 lakhs) + maintenance	10	10	4.37	20.37
Total Water Environment		180	180	114.37	474.37
Biological Environment (Flora & Fauna)	Plantation in nearby villages along community buildings & barren lands (10 villages); in addition to the plantation scheme proposed in the EIA/EMP report.	10	10	10	30
Total Biological Environment		10	10	10	30
Total Fund for Damage Remediation Measures		340	340	224.37	904.37

Natural Resource Augmentation Plan

S.No.	Activity Proposed	Yr. 1	Yr. 2	Yr. 3	Total
		Lakh	Lakh	Lakh	Lakh
1	Drinking Water Facility (Construction of bore wells) in 10 villages (2 borewells per village @ 1 lakh)	10	5	5	20
2	Construction of recharge ponds in buffer zone villages for ground water recharge. (5 ponds of size 40m X30m) @ 20 lakhs	40	40	20	100
3	Rainwater Harvesting in township, de-silting/dredging of ponds, wells etc. in nearby villages	10	10	5	25
Total Fund for Natural Resource Augmentation Plan		60	55	30	145

Community Resource Augmentation Plan

S.No.	Activity Proposed	Yr. 1	Yr. 2	Yr. 3	Total
		Lakh	Lakh	Lakh	Lakh
1	Support for establishment and operation of a Sports Academy (Archery, shooting, swimming, athletics, cycling, boxing & Hockey).	30	30	40	100

2	Support for establishment of 5 skill development centers for peripheral villages and corpus for sustainability of educational initiatives.	40	40	20	100
3	Providing color coded bins in schools, community centers, primary health centers etc. (100 Numbers).	2	-	-	2
4	Distribution of Community Solid waste collection bins and construction of compost pits in 10 villages.	1	1	1	3
5	Peripheral Development works	75	75	76.46	226.46
Total Fund for Community Resource Augmentation Plan		148	146	137.46	431.46

23. Details of the EMP:

Sr. No.	Activities	Recurring cost (Lakhs Rs/year)	Capital cost (Lakhs Rs.)
1.	Pollution Control measures		
a.	Dust Suppression (2 water Tankers) and fixed water sprinklers on main haul road.	20	50
b.	Road sweeping machine (2 Nos.)	20	50
c.	Engineering structures for waste dump management	20	200
d.	Engineering structures for surface run-off management	10	100
2.	Environmental Monitoring	10	Nil
3.	Occupational Health & Safety	06	05
4.	Green Belt Development / Plantation	14	25
	Total	100	430

24. The Project Proponent submitted an undertaking vide Lr No Nil that the contents (information and data) as given by the Consultant (MECON) in the EIA report are factually correct with full knowledge of the undersigned. The Consultant submitted the Certificate of Plagiarism Check dated 06.11.2021 that no unethical practices, plagiarism involved in carry out the work and external data/text has not been used without proper acknowledgment while preparing the EIA report and certified that the EIA Report produced in accordance with good scientific practice.

25. Details of project cost and employment:

Particulars	Budget (Rs. In Lakhs)
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Capital Cost for Environment Protection	430 Lakhs
Budget for addressing the Public Hearing issues	1985.1 Lakhs
Total Cost for EMP	Capital cost: Rs. 430 Lakhs
Recurring Cost for EMP	Recurring Cost: Rs.100 Lakh per annum (approx.)
Project Cost	Rs. 91452 lakhs
Employment	599 persons comprises of regular 198 nos. and contractual 401 nos.

26. Observation and Recommendation of the Committee:

The proposal for Environmental Clearance (Violation) was considered in the 48th EAC (Non Coal Mining) meeting held during 28th – 30th March, 2022. After detailed deliberations made by the Project Proponent and the Consultant, the Committee **recommended** the proposal for grant of Environmental Clearance for M/s Odisha Mining Corporation Limited is for mining of Iron & Manganese in Dubna-Sakradihi Iron & Manganese mine for Total Excavation of 7.01 MTPA {Iron Ore 6.160 MTPA [Iron: 2.994 MTPA (ROM)+3.175 MTPA (Waste Rock)]} and {Mn 0.8500 MTPA [Mn: 0.0500 MTPA(ROM) + 0.800 MTPA(Waste Rock)]} and installation of crushing (100 TPH-1 No) and Screening unit (300 TPH-2 No and 100 TPH-1 nos) in the mine lease area of 1332.019 ha, located at Dubna, Jampani, Purunadihi, Handhibhanga, Naibaga, Basantapur, Pedipokhari R.F & Naibaga R.F., Tehsil Barbil and Jhumpura, District Keonjhar, Odisha subject to the following specific conditions in addition to the standard EC conditions applicable for non-coal mining projects:-

- i. The Environmental Clearance (EC) will be valid upto 27.12.2029 only.
- ii. The Environmental Clearance (EC) will be functional only after the execution of supplementary lease deed.
- iii. The EC will be functional only after grant of Stage-II, FC. Mining activity will be restricted to non forest land and area for which Stage-II, FC available.
- iv. The Project Proponent applied for the both 1(a) Mining of Minerals and 2(b) Mineral beneficiation and PP submitted that in the instant proposal no beneficiation is envisaged. Hence, the Project Proponent shall ensure that the no mineral beneficiation shall be carried out without the prior permission from the MoEF&CC.
- v. EAC recommended for an amount of Rs. 1480.83/- Lakhs towards Remediation plan and Natural and Community Resource Augmentation plan to be spent within a span of three years. The details of Remediation plan, Natural resource

Augmentation plan and Community Resource Augmentation plan with budgetary provisions are mentioned below:

Damage Remediation Plan					
Parameters	Activity Proposed	Yr. 1	Yr. 2	Yr. 3	Total
		Lakh	Lakh	Lakh	Lakh
Air & Noise Environment	Additional Health Camps to monitor the pulmonary diseases, ENT, Diabetes and Hypertension health status of nearby villages (10 villages x 4 Camps/Year @ Rs 1 lakh for 3 years)	40	40	40	120
	Road Sweeping Machine for the main road carrying mineral upto Nayagarh railway siding (2 Machines @ Rs 50 lakh)	50	50	-	100
	3 Nos. of 16 kl mist cannon for public road	60	60	60	180
Total Air Environment		150	150	100	400
Water Environment	Construction of series of check dam (20 nos. @ ~Rs.5 lakhs) on seasonal drainage channels within ML to arrest silt and sediment load.	40	40	20	100
	Construction of series of check dam (30 nos. @ ~Rs.5 lakhs) on seasonal/perennial streams outside the ML to arrest silt and sediment load.	50	50	50	150
	Construction of percolation Tanks (5 nos. @ ~ 20 lakhs) for recharging GW;	40	40	20	100
	Sub-surface dyke for ground water recharge (10 nos. @ ~ Rs.10 lakhs)	40	40	20	100
	Construction of Nala Bunds/ Contour bunds (10 nos. @ ~ Rs.2 lakhs) + maintenance	10	10	4.37	20.37
Total Water Environment		180	180	114.37	474.37
Biological Environment (Flora & Fauna)	Plantation in nearby villages along community buildings & barren lands (10 villages); in addition to the plantation scheme proposed in the EIA/EMP report.	10	10	10	30
Total Biological Environment		10	10	10	30
Total Fund for Damage Remediation Measures		340	340	224.37	904.37

Natural Resource Augmentation Plan					
S.No.	Activity Proposed	Yr. 1	Yr. 2	Yr. 3	Total
		Lakh	Lakh	Lakh	Lakh

1	Drinking Water Facility (Construction of bore wells) in 10 villages (2 borewells per village @ 1 lakh)	10	5	5	20
2	Construction of recharge ponds in buffer zone villages for ground water recharge. (5 ponds of size 40m X30m) @ 20 lakhs	40	40	20	100
3	Rainwater Harvesting in township, de-silting/dredging of ponds, wells etc. in nearby villages	10	10	5	25
Total Fund for Natural Resource Augmentation Plan		60	55	30	145

Community Resource Augmentation Plan					
S.No.	Activity Proposed	Yr. 1	Yr. 2	Yr. 3	Total
		Lakh	Lakh	Lakh	Lakh
1	Support for establishment and operation of a Sports Academy (Archery, shooting, swimming, athletics, cycling, boxing & Hockey).	30	30	40	100
2	Support for establishment of 5 skill development centers for peripheral villages and corpus for sustainability of educational initiatives.	40	40	20	100
3	Providing color coded bins in schools, community centers, primary health centers etc. (100 Numbers).	2	-	-	2
4	Distribution of Community Solid waste collection bins and construction of compost pits in 10 villages.	1	1	1	3
5	Peripheral Development works	75	75	76.46	226.46
Total Fund for Community Resource Augmentation Plan		148	146	137.46	431.46

Damage Remediation, Natural Resource Augmentation and Community Resource Augmentation Plans		
Sl. No.	Activity Proposed	Total (in Rs. lakh)
1.	Damage/remediation with respect to ecological aspects	904.37
2.	Natural Resources Augmentation Plan	145.00
3.	Community Resource Augmentation Plan	431.46
Total Fund		1480.83

- vi. Total budgetary provision with respect to Remediation plan and Natural & Community Resource Augmentation plan is Rs. 1480.83/- Lakhs. Therefore, Project Proponent shall be required to submit a bank guarantee of an amount of

- Rs. 1480.83/- Lakhs towards Remediation plan and Natural and Community Resource Augmentation plan with the SPCB prior to the grant of EC.
- vii. Remediation plan shall be completed in 3 years whereas bank guarantee shall be for 5 years. The bank guarantee will be released after successful implementation of the remediation plan and Natural and Community Resource Augmentation Plan, and after the recommendation by regional office of the Ministry, Expert Appraisal Committee and approval of the Regulatory Authority.
 - viii. The adoption of mitigation measures and monitoring of the same as proposed in the EMP shall be done under the supervision of the qualified environmental/mining personnel.
 - ix. Approval/permission of the CGWA/SGWA shall be obtained before drawing ground water for the project activities, if applicable. State Pollution Control Board (SPCB) concerned shall not issue Consent to Operate (CTO) till the project proponent obtains such permission.
 - x. Wildlife Conservation plan as approved by the Competent Authority shall be implemented.
 - xi. The Environmental Clearance will not be operational till such time the Project Proponent complies with all the statutory requirements and judgment of Hon'ble Supreme Court dated the 2nd August 2017 in Writ Petition (Civil) No. 114 of 2014 in the matter of Common Cause versus Union of India and Ors.
 - xii. State Government concerned shall ensure that mining operation shall not commence till the entire compensation levied, if any, for illegal mining paid by the Project Proponent through their respective Department of Mining & Geology in strict compliance of 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.
 - xiii. Effective dust suppression system shall be adopted at the transportation site and in the other parts of the mining lease to arrest the fugitive dust emission.
 - xiv. Project proponent shall take necessary other clearances/permissions under various Acts and Rules if any, from the respective authorities / department.

- xv. The mining lease holder shall, after ceasing mining operations, under take regrassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to condition which is fit for growth of fodder, flora and fauna etc.
- xvi. The budget of Rs 1985.1 Lakhs 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.
- xvii. The Committee felt that the cost of plantation @ Rs. 50 per tree is inadequate and hence the PP shall revise the cost to Rs. 100 per tree. If the cost of the plantation exceeds beyond the budget of Rs. 1480.83/- Lakhs, PP should spend the amount from their budget head.
- xviii. 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.
- xix. 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.

Day 3: 30th March, 2022 (Wednesday)

3.1 Proposal for Environmental Clearance for Granite Building Stone Quarry of Shri Ashraf P for an extent of 2.3203 Ha with total excavation of 446764.1 TPA located at Re. Survey No: 172 of Kodyathur Village, Kozhikode Taluk, Kozhikode District, Kerala – [File No. IA-J-11015/81/2021-IA-II(NCM); Proposal No. IA/KL/MIN/233633/2021; Consultant: SBA Enviro Systems Private Limited] - Environmental Clearance

EAC Meeting Details:

EAC meeting	48 th EAC meeting
Date of Meeting	28 th to 30 th March, 2022

The proposal is for Environmental Clearance for Granite Building Stone Quarry of Shri Ashraf P for an extent of 2.3203 Ha with total excavation of 446764.1 TPA. The mine lease area is located at Re.Survey No: 172 of Kodyathur Village, Kozhikode Taluk, Kozhikode District, Kerala. The area falls in SOI toposheet no. 58 A/3 and latitude 11° 17'32.71"N to 11° 17'39.33"N and longitude 76°2'44.82"E to 76°2.48.95" E. The lease area 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 "B2", 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 for Environmental Clearance on 20.10.2021 vide proposal no. IA/KL/MIN/233633/2021. The Project Proponent submitted the Letter of Intent (LOI), EMP report, approved mining plan, PFR, District Survey Report (DSR), cluster certificate showing no cluster within 500 m radius of the proposed mine for the appraisal of the proposal. The proposed production capacity is 44676.41 TPA, soil: 22,363.15 tonne and 22,338 tonne waste. The mine lease area of 2.3203 Ha is a private land.

3. Earlier, the proposal was considered in the 41st EAC meeting held during 15th–16th November and 18th November, 2021 wherein the Committee noted that the project proponent has not submitted 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". The Committee also noted that the project cost differs in form II and PFR. Therefore, the Committee deferred the proposal. The project proponent needs to submit the above information on Parivesh Portal. The Additional Details Sought (ADS) was generated on 26 Nov., 2021 and the project proponent replied on 10th March 2022. PP submitted the Hon'ble High Court, Kerala order vide WP(C) NO. 6895 OF 2022 dated 08/03/2022. The relevant extract is produced below:

"It is submitted by the learned counsel for the petitioners that the Geologist has certified that as far as the State of Kerala is concerned, the valid DSR is the one published in the year 2016 by the Department of Mining and Geology, Government of

Kerala and no further changes have been made to the DSR 2016 by the Department thereafter.

Having considered the contentions advanced and in view of the fact that the applications have been uploaded and are pending before the 2nd respondent, there will be a direction to the 2nd respondent to take up the applications submitted by the petitioners for Environmental Clearance on the basis of the DSR 2016. Appropriate steps shall be taken, in accordance with law. These writ petitions are ordered accordingly.”

4. The Project Proponent submitted the LOI vide letter no. 11226/M3/2017 dated 14.02.2018 obtained from Directorate of Mining & Geology, Thiruvananthapuram for extraction of granite building stone over an area of 2.3202 Ha which is valid up to the date of grant of quarrying lease for the purpose of obtaining other statutory clearances concerned. PP submitted the mining plan approval letter vide no. DOZ/M-2404/17 dated 09.04.2018 for total excavation of 446764.1 TPA over an area of 3.3202 Ha duly authenticated by Dept.of Mining and Geology, Kozhikode. PP submitted the cluster certificate vide letter no. DOZ/M- 2404/2017 dated 06.10.2021 duly authenticated by Dept.of Mining and Geology, Kozhikode stating that no quarry is in operation within 500 m radius of the proposed quarry of Shri Ashraf P (MLA: 2.3203 Ha). PP submitted the DSR of November, 2016, Kozhikode District.

5. The Project Proponent submitted that the method of mining will be open cast, semi mechanized mining. Individual bench slope will be maintained at 45^o. The nature of the rock is mainly hard to medium in nature. Hence drilling and blasting is required to dislodge / loosen the material from the main rock mass. The life of mine is around 10 years. Transportation of rocks shall be done by Tippers of 10 - 20 Tonnes capacity.

6. The project proponent submitted that the water requirement is 6 KLD which will be taken from open well. Kodumpuzha Forest lies in 10 km away from the mine lease area. PP submitted that there are no National Parks, Wildlife Sanctuary etc. within the study area i.e., 10 km radius of mine lease area. Proposed area for green belt/plantation is 0.48 Ha and budget for greenbelt & plantation till the end of life of mine is proposed to be Rs. 50, 000. Baseline data was collected during 16.03.2021 and 17.03.2021 (Pre-Monsoon Season). PP submitted that no court case is pending against the project. PP submitted the Affidavit dated 11.11.2021 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.

7. Observation and Recommendation of the Committee:

The proposal for Environmental Clearance was considered in the 48th EAC meeting held during 28th to 30th March, 2022. After the detailed presentation made by the Project Proponent and the Consultant, the Committee observed that the area being ecologically sensitive and fragile because of its close proximity to the Western GhatsESA (around 5.7 km away from the instant mine site, after verification of location of the project has been done by way of superimposing the KML file of the project vis-à-vis shapefile of Western Ghats ESA). Further, the grant of Environmental Clearance to Granite Building Stone of small mine leases will ultimately lead to the fragmentation of habitat leading to creation of many edges which will act as point of entry of destructive factors overtime resulting in the overall ecological destruction of the area. It was also observed that some of the mines which were earlier in operation have left a scar on the green lushed area. Therefore, the Committee **returned the proposal in the present form.**

3.2 The proposal for Environmental Clearance for the proposed Granite BuildingStone Quarry of ShriAnanthu Sunil over an area of 3.6153 ha with proposed production capacity of 2,47,925 TPA located at BlockNo.- 29, Survey No. 231 part (Govt. Land) at Konnathady Village ofIdukkiTaluk, Idukki District, Kerala-[File No. IA-J-11015/78/2021-IA. II(NCM); Proposal No. IA/KL/MIN/235144/2021] - Environmental Clearance

EAC Meeting Details:

EAC meeting	48 th EAC meeting
Date of Meeting	28 th to 30 th March, 2022

The proposal is for Environmental Clearance for Granite Building Stone Quarry of Shri Ananthu Sunil for an extent of 3.6153 ha with targeted production of 2,47,925 TPA. The mine lease area is located at Block No.- 29, Survey No. 231 part (Govt. Land) at Konnathady Village of IdukkiTaluk, Idukki District, Kerala. The area falls in SOI toposheet no. 58 G/01 and latitude 09°54'47.03"N and longitude E077°05'48.76"E to 76°2.48.95" E. The lease area 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 "B2", Project or Activity 1(a) – 4 for Mining of Mineral as per EIA Notification S.O. 1533 (E), dated 14thSeptember 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 for Environmental Clearance on 22.10.2021 vide proposal no. IA/KL/MIN/235144/2021. The Project Proponent submitted the Letter of Intent (LOI), EMP report, approved mining plan, PFR, District Survey Report (DSR), cluster certificate showing no cluster within 500 m radius of the proposed mine for the appraisal of the proposal. The proposed production capacity is 2,47,925 TPA and 48110 MT waste. Total excavation will be 9,62,200 MT. The mine lease area of 3.6153 ha is a private land.

3. Earlier, the proposal for Environmental Clearance was considered in the 42nd EAC meeting held during 30th November to 3rd December, 2021. After detailed deliberations, 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". Therefore, the Committee deferred the proposal. The project proponent needs to submit the above information on Parivesh Portal. The Additional Details Sought (ADS) was generated on 14 Dec., 2021 and the project proponent replied on 25th Feb., 2022. PP submitted the certificate from DMG, Idukki vide letter dated 17.02.2022 stating that DSR in the State of Kerala was prepared in 2016 in accordance with the 2016 guidelines which is effective till date. PP also submitted the Hon'ble Kerala High Court order vide WP(C) NO. 5209 OF 2022 dated 16/02/2022. The relevant extract is produced below:

"The petitioner has produced the DSR 2016 as Ext.P4 along with the writ petition. In Ext.P2, the 5th respondent has deferred consideration for want of availability of the DSR. In the above circumstances, this writ petition is disposed of directing the 5th respondent to consider and pass orders on the application 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 2016 DSR shall be forwarded by the 4th respondent to the 5th respondent who shall consider and pass orders as directed above.

The certificate issued by the Geologist, Department of Mining and Geology, District Office, Idukki on 02.12.2021, which is produced as Ext.P8 in the writ petition confirming that the DSR 2016 is being applied in the State of Kerala, shall also be considered by the 5th respondent 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."

4. The Project Proponent submitted the LOI vide letter no. 2564/M3/2020 dated 02.03.2021 obtained from Directorate of Mining & Geology, Thiruvananthapuram for extraction of granite building stone over an area of 3.6153 Ha and copy of executed lease deed dated 25 Dec., 2019 for 4.6080 Ha which is valid from 25 Dec 2019 to 24 Dec 2031. PP submitted the mining plan approval letter vide no. DOI/29/M/2020 dated 16.04.2021 for an area of 4.6080 Ha duly authenticated by Dept.of Mining and Geology, Idukki. PP submitted the cluster certificate vide letter no. DOI/29/M/2020 dated 21.04.2021 duly authenticated by Dept.of Mining and Geology, Idukki stating that no quarry is in operation within 500 m radius of the proposed quarry of Shri AnanthuSunil(MLA:3.6153 Ha). PP submitted the DSR of November, 2016, Kozhikode District.

5. The Project Proponent submitted that the method of mining will be open cast, semi mechanized mining. Individual bench slope will be maintained at 65^o. The nature of the rock is mainly hard to medium in nature. Hence drilling and blasting is required to dislodge / loosen the material from the main rock mass. The life of mine is around 5 years. Transportation of rocks shall be done by Tippers of 10 – 20 Tonnes capacity.

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

Particulars	Particular's Name	Distance & Directions
Town/Village	Muniyara	2.9 KM & North-East
Highway	SH-40	4.20 km & South
Railway Station	Ettumanur Railway Station	66 KM & South East
Water bodies	Ponmudi river	2.5 KM & North-East

7. The project proponent submitted that the water requirement is 12 KLD which will be taken from open well. PP submitted that there are no National Parks, Wildlife Sanctuary etc. within the study area i.e., 10 km radius of mine lease area. Proposed area for green belt/plantation is 0.62 Ha and budget for greenbelt & plantation till the end of life of mine is proposed to be Rs. 3, 00,000. Baseline data was collected during 21.10.2021 and 22.10.2021 (Post-Monsoon Season). PP submitted that no court case is pending against the project. PP submitted the Affidavit dated 11.11.2021 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.

8. Observation and Recommendation of the Committee:

The proposal for Environmental Clearance was considered in the 48th EAC meeting held during 28th to 30th March, 2022. After the detailed presentation made by the Project Proponent and the Consultant, the Member Secretary informed the

Committee that on examination of the proposal (after verification of location of the project has been done by way of superimposing the KML file of the project vis-à-vis shapefile of Western Ghats ESA), it was found that the instant mine site is falling inside the ESA of Western Ghats. The mining is prohibited in the ESA of Western Ghats. In view of above, the Committee observed that the area being ecologically sensitive and fragile, grant of Environmental Clearance to stone mines of small mine leases will ultimately lead to the fragmentation of habitat leading to creation of many edges which will overtime act as point of entry of destructive factors resulting in the overall ecological destruction of the area. It was also observed that some of the mines which were earlier in operation have left a scar of the green lushed area. Therefore, the Committee **returned the proposal in the present form.**

3.3 Proposal for Environmental Clearance for the Building Stone Mine Quarry(Minor Mineral Mining) project of M/s Malabar Sand and Stones Pvt. Ltd. over an area of 0.9794 ha with the proposed production capacity of 35,052.50 MTA located at Block No. 65, in Re-survey No. 1 at Udayagiri Village, TaliparambaTaluk, Kannur District, Kerala– [File No.IA-J-11015/89/2021-IA-II(NCM); Proposal No. IA/KL/MIN/236043/2021] - Environmental Clearance

EAC Meeting Details:

EAC meeting	48 th EAC meeting
Date of Meeting	28 th to 30 th March, 2022

The proposal is for Environmental Clearance for the Building Stone Mine Quarry (Minor Mineral Mining) project of M/s Malabar Sand and Stones Pvt. Ltd. over an area of 0.9794 ha with maximum annual production capacity of 35,052.50 MTA. The mine lease area is located at Block No. 65, in Re-survey No. 1 at Udayagiri Village, TaliparambaTaluk, Kannur District, Kerala. The area falls in SOI toposheet no. D43V7 & D43V8 and latitude 12^o14'43.27" to 12^o14'46.81"N and longitude 75^o27'31.38" to 75^o27'36.32" E. The lease area falls in seismic zone III. The EIA consultant is M/s Environmental Engineers & Consultants Pvt. Ltd. and accreditation no. of the consultant is NABET/EIA/2023/RA 0196 dated 01-03-2021. The category of the project is Category "B2", Project or Activity 1(a) – 4 for Mining of Mineral as per EIA Notification S.O. 1533 (E), dated 14thSeptember 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 for Environmental Clearance on 28.10.2021 vide proposal no. IA/KL/MIN/236043/2021. The Project Proponent submitted the Letter of Intent (LOI), EMP report, approved mining plan, PFR, District Survey Report (DSR) and cluster certificate. The proposed production capacity is 35,052.50 MTA (Max.)(Annual) and 13,131.20 MT top soil. The mine lease area of 0.9794 hectare is a private land.

3. Earlier, the proposal for Environmental Clearance was considered in the 41st EAC meeting held during 15th – 16th November and 18th November, 2021. After detailed deliberations, the Committee noted that the project proponent has not submitted 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". Therefore, the Committee deferred the proposal. The project proponent needs to submit the above information on Parivesh Portal. The Additional Details Sought (ADS) was generated on 26 Nov., 2021 and the project proponent replied on 22nd Feb., 2022. PP submitted the Hon'ble High Court, Kerala order vide WP(C) NO. 5279 OF 2022 dated 17/02/2022. The relevant extract is produced below:

"In the above view of the matter, this writ petition is also disposed of, directing the 5th respondent to consider and pass orders on Ext.P5 application submitted by the petitioner for Environmental Clearance on the basis of DSR 2016 issued by the Department of Mining and Geology, Government of Kerala, which has been certified to confirm with Notification No.S.O.3611(E) dated 25.07.2018. In case, the said certificate has not been uploaded in the portal, the petitioner shall be permitted to upload the same. Appropriate steps shall be taken within a period of one month from the date of receipt of a copy of this judgment."

4. The Project Proponent submitted the LOI vide letter no. DOC/M-1249/19 dated 13-06-2019 obtained from Directorate of Mining & Geology, Kannur for extraction of granite building stone over an area of 0.9794 ha. PP also submitted the validity extension of LOI vide letter dated 02.11.2021. PP submitted the approved mining plan dated 24.07.2019 for an area of 0.9794 ha for production capacity of 35, 052.50 TPA (Max.) duly authenticated by Dept.of Mining and Geology, Kannur. PP submitted the cluster certificate vide letter no. DOI/M-2008/2021 dated 28.09.2021 duly authenticated by Dept.of Mining and Geology, Kannur stating that one quarry is seen within 500 m radius which belongs to M/s Malabar Sand and Stones Pvt. Ltd. over an area of 4.9005 ha (currently not working). PP submitted the DSR of November, 2016, Kannur District.

5. The Project Proponent submitted that the method of mining will be open cast, semi mechanized mining. Individual bench slope will be maintained at 72^o. Multiple blast holes of 1.5 to 2.5 m depth will be drilled with the help of 32 mm drill rod, Jack Hammer and Air Compressor of 100 cfm capacity. The controlled blasting through “NONEL” blasting technique using Nitrate Mixture as explosive is proposed by adopting all the safety measures. The life of mine is around 5 years. Vehicles will be engaged for transfer of mined out material and about 7-8 trip of 15 T capacity tipper / dump will be utilized for transporting the mineral on daily basis.

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

Particulars	Particular's Name	Distance & Directions
Nearest Village	Udayagiri village	3 km., SE
Nearest town	Cherupuzha	10 km., NW
Nearest Highway	S.H.-59 (Hill Highway)	9 km., W
Nearest Railway station	Payyannur	47 km., SW
Nearest Water bodies	Kuppam River	2 km., S

7. The project proponent submitted that the water requirement is 13 KLD which will be taken from open well and stored rain water in pond. 3 KL/day is for domestic purposes, 5 KLD for dust suppression in mine and 5 KLD for plantation purposes. Kappimala Forest falls about 5 km away from the mine lease area in SE direction. As per form submitted by the project proponent, the Brahmagiri Wildlife Sanctuary is six kilo meter from the mine site. PP submitted that the ML area is not in Eco-Sensitive Zone (ESZ) of Brahmagiri Wildlife Sanctuary located in Karnataka State as per ESZ Notification No. S.O. 1701(E) dated 26.05.2017. Proposed area for green belt/plantation is 0.2823 Ha and budget for greenbelt & plantation till the end of life of mine is proposed to be Rs. 4.40 Lakhs. Baseline data was collected during April, 2019 (Summer Season). PP submitted that no court case is pending against the project. PP did not submit the 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 is submitted to MoEF&CC.

8. Observation and Recommendation of the Committee:

The proposal for Environmental Clearance was considered in the 48th EAC meeting held during 28th to 30th March, 2022. After the detailed presentation made by the Project Proponent and the Consultant, the Committee observed that the area being ecologically sensitive and fragile because of its close proximity to the Western Ghats ESA (around 4.9 km away from the instant mine site, after verification of location of the project has been done by way of superimposing the KML file of the project vis-à-vis shapefile of Western Ghats ESA). Further, the grant of Environmental Clearance to

stone mines of small mine leases will ultimately lead to the fragmentation of habitat leading to creation of many edges which will overtime act as point of entry of destructive factors resulting in the overall ecological destruction of the area. It was also observed that some of the mines which were earlier in operation have left a scar of the green lushed area. Therefore, the Committee **returned the proposal in the present form.**

3.4 Proposal for Environmental Clearance for Building Stone Mine with the production capacity of 1,05,268 MTA in the mining lease area of 2.0235 ha located at Re-Survey Nos. 21/149, 21/124, 21/145, 21/148, 21/147, 21/156, 21/144 (Old Sy. No. 21/1A1), Block No. 64, Kolayad&Panchayath Villages, Thalassery Taluk, Kannur District, Kerala by M/s Puthalam Constructions Pvt.Ltd. –[File No. J-11015/110/2021-IA.II(NCM); Proposal No. IA/KL/MIN/241192/2021] - Environmental Clearance

EAC Meeting Details:

EAC meeting	48 th EAC meeting
Date of Meeting	28 th to 30 th March, 2022

The proposal is for Environmental Clearance for the Building Stone Mine of M/s Puthalam Constructions Pvt. Ltd. with the production capacity of 1,05,268 MTA in the mining lease area of 2.0235 ha. The mine lease area is located at Re-Survey Nos. 21/149, 21/124, 21/145, 21/148, 21/147, 21/156, 21/144 (Old Sy. No. 21/1A1), Block No. 64, Kolayad&Panchayath Villages, Thalassery Taluk, Kannur District, Kerala. The area falls in SOI toposheet no. C43D09 and latitude 11°51'59.77" to 11°52'04.05" N and longitude 75°42'48.67" to 75°42'55.04"E. The lease area falls in seismic zone III. The EIA consultant is M/s Environmental Engineers & Consultants Pvt. Ltd. and accreditation no. of the consultant is NABET/EIA/2023/RA 0196 dated 01-03-2021. The category of the project is Category "B2", 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 for Environmental Clearance on 30-11-2021 vide proposal no. IA/KL/MIN/241192/2021. The Project Proponent submitted the Letter of Intent (LOI), EMP report, approved mining plan, PFR, District Survey Report (DSR) and cluster certificate. The proposed production capacity is 1,05,268 MTA (Annual), Top soil: 14,381 cu.m. (25,886 MT) (Total) and OB: 7,990 cu.m.

(19,975 MT) (Total). Total mineable reserved are 8, 42,144 (Total Mineable Reserve). The mine lease area of 2.0235 hectare is a private land.

3. Earlier, the proposal for Environmental Clearance was considered in the 43rd EAC meeting held during 14th to 16th December, 2021. The Member Secretary informed the Committee regarding the mail stating exemption from the appearance before the EAC received by the project proponent on 14.12.2021. Based on the documents submitted by the project proponent, the Committee noted that the project proponent has not submitted 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". Therefore, the Committee deferred the proposal. The project proponent needs to submit the above information on Parivesh Portal. The Additional Details Sought (ADS) was generated on 24Dec., 2021 and the project proponent replied on 22ndFeb., 2022. PP submitted the certificate from DMG, Kannur vide letter dated 14.02.2022 stating that DSR in the State of Kerala was prepared in 2016 in accordance with the 2016 guidelines which is effective till date. PP also submitted the Hon'ble High Court, Kerala order vide WP(C) NO. 5274 OF 2022 dated 17/02/2022. The relevant extract is produced below:

"This writ petition is disposed of, directing the appropriate authority under the 1st respondent to consider and pass orders on the application submitted by the petitioner for Environmental Clearance which is referred to Ext. P1 on the basis of DSR 2016 issued by the Department of Mining and Geology, Govt. of Kerala, which has been certified to confirm with Notification S.O. 3611 (E) dated 2507.2018. In case the DSR has not been uploaded, the same shall be uploaded by the petitioner. Appropriate steps shall be taken within a period of one month from the date of receipt of a copy of this judgement."

4. The Project Proponent submitted the LOI vide letter no. 912/M3/2020 dated 02-11-2020 obtained from Directorate of Mining & Geology, Thiruvananthapuram for extraction of granite building stone over an area of 2.0235 ha. PP also submitted the letter from District office, Mining & Geology, Kannur dated 19.03.2022 stating that the LOI dated 02.11.2020 is valid as on date and no mining activities have been done till now. PP submitted the approved mining plan vide letter no. DOC/M-1433/2020 dated 28 Dec 2020 for an area of 2.0235 haduly authenticated by Dept.of Mining and Geology, Kannur. PP submitted the cluster certificate vide letter no. DOC/M-1433/2021 dated 28.12.2021 duly authenticated by Dept.of Mining and Geology, Kannur stating that one quarry is seen within 500 m radius which belongs to Shri V. K. Benny over an area of

2.9302 ha (EC granted and currently in operation). PP submitted the DSR of November, 2016, Kannur District.

5. The Project Proponent submitted that the method of mining will be open cast, semi mechanized mining. Individual bench slope will be maintained at 72°. Multiple blast holes of 1.5 to 2.5 m depth will be drilled with the help of 32 mm drill rod, Jack Hammer and Air Compressor of 100 cfm capacity. The controlled blasting through “NONEL” blasting technique using Nitrate Mixture as explosive is proposed by adopting all the safety measures. The life of mine is around 8 years. Vehicles will be engaged for transfer of mined out material and about 24 trips of 15 T capacity tipper / dump will be utilized for transporting the mineral on daily basis.

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

Particulars	Particular's Name	Distance & Directions
Nearest Village	Kolayad	Site is within the Kolayad village
Nearest town	Peravoor	5 km (NE)
Nearest Highway	S.H.-59 (Hill Highway)	4 km (NE)
Nearest Railway station	Thalassery	28 km (SW)
Nearest Water bodies	Sr. No.	Name
	1	Baveli River
	2	Kanjirapuzha
	3	Vekkalam Thodu
	4	Anjarkandy river
	5	Tholambrathodu
	6	Poovatharkund Waterfall
		Distance & Direction
		8 km, NE
		4 km, NE
		3.50 km, NE
		3 km, S
		4 km, NW
		7.50 km, NW

7. The project proponent submitted that the water requirement is 14 KLD which will be taken from open well and stored rain water in pond. 3.5 KL/day is for domestic purposes, 5.5 KLD for dust suppression in mine and 5 KLD for plantation purposes. Aralam Forest falls about 1 km, East and Kottiyoor Forest, about 9 km in East direction from the mine lease area. PP submitted that there are no National Parks, Wildlife Sanctuary etc. within the study area i.e. 10 km radius of mine lease area. Proposed area for green belt/plantation is 1.2253 hectare (0.8693 ha. reclaimed by plantation + 0.3560 ha. green area) and budget for greenbelt & plantation till the end of life of mine is proposed to be Rs. Rs. 19.6 Lakhs (@Rs. 1,100/- per tree). Baseline data was collected during December, 2020 (Post monsoon Season). PP submitted that no court case is pending against the project. PP did not submit the 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 is submitted to MoEF&CC.

8. Observation and Recommendation of the Committee:

The proposal for Environmental Clearance was considered in the 48th EAC meeting held during 28th to 30th March, 2022. After the detailed presentation made by the Project Proponent and the Consultant, the Committee observed that the area being ecologically sensitive and fragile because of its close proximity to the Western Ghats ESA (around 1.8 km away from the instant mine site, after verification of location of the project has been done by way of superimposing the KML file of the project vis-à-vis shapefile of Western Ghats ESA). Further, the grant of Environmental Clearance to stone mines of small mine leases will ultimately lead to the fragmentation of habitat leading to creation of many edges which will overtime act as point of entry of destructive factors resulting in the overall ecological destruction of the area. It was also observed that some of the mines which were earlier in operation have left a scar of the green lushed area. Therefore, the Committee **returned the proposal in the present form.**

3.5 The proposal for Environmental Clearance for Building Stone Minor Mineral Mining (Quarry) project over an area of 0.8736 ha with the proposed production capacity of 42,325 MTA located at Chengalam (E) Village, Kottayam Taluk, Kottayam District, Kerala by M/s Rockfield Estates Pvt. Ltd. -File No. IA-J-11015/102/2021/IA.II(NCM); Proposal No. IA/KL/MIN/238771/2021 - Environmental Clearance

EAC Meeting Details:

EAC meeting	48 th EAC meeting
Date of Meeting	28 th to 30 th March, 2022

The proposal is for Environmental Clearance for the Building Stone Minor Mineral Mining (Quarry) project of M/s Rockfield Estates Pvt. Ltd. over an area of 0.8736 ha. The mine lease area is located at Chengalam (E) Village, Kottayam Taluk, Kottayam District, Kerala. The area falls in SOI toposheet no. C43Q10 and latitude 09°37'44.84" to 09°37'49.21" and longitude 76°42'40.41" to 76°42'44.40"E. The lease area falls in seismic zone III. The EIA consultant is M/s Environmental Engineers & Consultants Pvt. Ltd. and accreditation no. of the consultant is NABET/EIA/2023/RA 0196 dated 01-03-2021. The category of the project is Category "B2", 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 for Environmental Clearance on 15.11.2021 vide proposal no. IA/KL/MIN/238771/2021. The Project Proponent submitted the Letter of Intent (LOI), EMP report, approved mining plan, PFR, District Survey Report (DSR) and cluster certificate. The proposed production capacity is 42,325 MTA (Annual), Top soil: 6,216 MT (Total) and 6,358 (Total) of OB. Total mineable reserved are 1,26,975 MT (Total Mineable Reserve). The mine lease area of 0.8736 hectare is a private land. There is no crusher unit within the mine site.

3. Earlier, the proposal for Environmental Clearance was considered in the 42nd EAC meeting held during 30th November to 3rd December, 2021. After detailed deliberations, 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". Therefore, the Committee deferred the proposal. The project proponent needs to submit the above information on PariveshPortal. The Additional Details Sought (ADS) was generated on 14Dec., 2021 and the project proponent replied on 16thFeb., 2022. PP submitted the certificate from DMG, Kottayam vide letter dated 14.02.2022 stating that DSR in the State of Kerala was prepared in 2016 in accordance with the 2016 guidelines which is effective till date. PP also submitted the Hon'ble High Court, Kerala order vide WP(C) NO. 5077 OF 2022 dated 16/02/2022. The relevant extract is produced below:

“In the above view of the matter, this writ petition is disposed of, directing the appropriate authority under the 2nd respondent to consider and pass orders on the application submitted by the petitioner for Environmental Clearance on the basis of DSR 2016 issued by the Department of Mining and Geology, Government of Kerala, which has been certified to confirm with Notification No.S.O.3611(E) dated 25.07.2018. Appropriate steps shall be taken within a period of one month from the date of receipt of a copy of this judgment.”

4. The Project Proponent submitted the LOI vide letter no. 215/DOY/ML/2020 dated 27.05.2020 obtained from Directorate of Mining & Geology, Kottayam for extraction of granite building stone over an area of 0.8736ha. PP submitted the approved mining plan vide letter no. 1607/DOY/ML/2020 dated 24.08.2020 for 3 Year over an area of 0.8736 haduly authenticated by Dept. of Mining and Geology, Kottayam. PP submitted

the cluster certificate vide letter no. 215/DOY/ML/2020 dated 16.09.2020 duly authenticated by Dept.of Mining and Geology, Kottayam stating that one quarry is seen within 500 m radius which belongs to M/s Palathra Constructions Pvt. Ltd. over an area of 1.8851 ha. PP submitted the DSR of November, 2016, Kottayam District.

5. The Project Proponent submitted that the method of mining will be open cast, semi mechanized mining. Individual bench slope will be maintained at 72^o. Multiple blast holes of 1.5 to 2.5 m depth will be drilled with the help of 32 mm drill rod, Jack Hammer and Air Compressor of 100 cfm capacity. The controlled blasting through “NONEL” blasting technique using Nitrate Mixture as explosive is proposed by adopting all the safety measures. Drilling through 32 mm drill and 1.5-meter depth. Blasting timings will be 10:30 am and 3:00 pm. The life of mine is around 3 years. Vehicles will be engaged for transfer of mined out material and about 10 trips of 15 T capacity tipper / dump will be utilized for transporting the mineral on daily basis.

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

Particulars	Particular's Name	Distance & Directions
Nearest Village	Chengalam E	1.50 km., SW
Nearest town	Kottayam	21 km., SW
Nearest Highway	NH-220 (KK Road) SH-8 Main Eastern Hwy SH-44 (Kanjirapally – Erattupetta Road)	7 Km, S 2 Km, E 7 Km., E.
Nearest Railway station	Kottayam	21 km., SW
Nearest Water bodies	Aruvikuzhi Water falls Thodu (Seasonal drain) Thodu Near Manjamattom	5 km., SW 120m., W 6.40 km., W

7. The project proponent submitted that the water requirement is 18 KLD which will be taken from open well and stored rain water in pond. 6 KL/day is for domestic purposes, 10 KLD for dust suppression in mine and 5 KLD for plantation purposes. PP submitted that there are no National Parks, Wildlife Sanctuary etc. within the study area i.e. 10 km radius of mine lease area. Proposed area for green belt/plantation is 0.3086 Ha and budget for green belt & plantation till the end of life of mine is proposed to be Rs. Rs. 8.79 Lakhs. Baseline data was collected during May, 2020 (Summer Season). PP submitted that no court case is pending against the project. PP did not submit the 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 is submitted to MoEF&CC.

8. Observation and Recommendation of the Committee:

The proposal for Environmental Clearance was considered in the 48th EAC meeting held during 28th to 30th March, 2022. After the detailed presentation made by the Project Proponent and the Consultant, the Committee observed that the area being ecologically sensitive and fragile because of its close proximity to the Western Ghats ESA (around 9.62 km away from the instant mine site, after verification of location of the project has been done by way of superimposing the KML file of the project vis-à-vis shapefile of Western Ghats ESA). Further, the grant of Environmental Clearance to stone mines of small mine leases will ultimately lead to the fragmentation of habitat leading to creation of many edges which will overtime act as point of entry of destructive factors resulting in the overall ecological destruction of the area. It was also observed that some of the mines which were earlier in operation have left a scar of the green lushed area. Therefore, the Committee **returned the proposal in the present form.**

3.6 Proposal for Terms of Reference (Regularization of Environmental Clearance) under the provision of MoEF&CC Notification S.O. 1530 (E) dated 6th April 2018 of Ratadia- Nagrecha Bauxite Mining with production capacity of 1,00,000 TPA in the mine lease area of 204.07 ha of M/s Gujarat Mineral Development Corporation Limited located at Village Ratadia & Nagrecha, Tehsil Mandvi, District Kutch, Gujarat – [File No. J-11015/148/2018-IA-II(M); Proposal No. IA/GJ/MIN/258514/2022]

EAC Meeting Details:

EAC meeting	48 th EAC meeting
Date of Meeting	28 th to 30 th March, 2022

2. Project details:

Name of the Proposal	Proposal for regularization of Environmental Clearance under the provision of MoEF&CC Notification S.O. 1530 (E) dated 6 th April 2018 for Terms of Reference of Ratadia Nagrecha bauxite mining project (mine lease area – 204.07 ha & production capacity 0.10 Million TPA) of M/s Gujarat Mineral Development Corporation Limited (A Govt. of Gujarat undertaking)	
Location	Village	Ratadia and Nagrecha
	Tehsil/Taluka	Mandvi
	District	Kutch
	State / UT	Gujarat
	Latitudes	23° 00' 50.7057" N - 23° 02' 5.7068" N
	Longitudes	69° 13' 17.9182" E - 69° 16' 15.6089"

Minutes of 48th EAC (Non-Coal Mining) Meeting held during 28th to 30th March, 2022

		E
	Topo sheet No.	41 E/4 & 41 E/8
Company's Name	M/s Gujarat Mineral Development Corporation Limited (GMDC)	
Accredited Consultant and certificate no.	M/s. Anacon Laboratories Pvt. Ltd., Nagpur Accreditation No. : NABET/EIA/1922/RA 0150, dated 03.02.2020 valid upto 30.09.2022	
KML file	Submitted	
Seismic zone	Zone-V as per IS-1893 (Part-1)-2002. Hence, the site is at Highest Risk Zone.	

3. 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 amendment in compliance to S.O. 1530 (E) dated 6th April 2018
Mining lease Area	204.07 ha

4. ToR/EC Details:

ToR Proposal No.	IA/GJ/MIN/258514/2022
Online application date for Form-I	1 st March 2022 (Initially it was uploaded on 01 Oct. 2018 within window period as per MoEF&CC Notification dtd. 06th April 2018.)
Documents Submitted	Form-1, PFR, Brief Summary, KML & Additional Documents.
Production capacity	0.10 million TPA (i.e 1,00,000 TPA)
Soil	7250 m ³
Waste (OB/SB/IB)	44965 m ³
Mineral reject	22864 m ³
Previous EC details	MoEF&CC accorded the Environmental Clearance vide letter no. J-11015/311/2005-IA.II (M) dated 25.05.2006.
Additional details	This is a revalidation case of existing EC. Hence, No increase in size of the project as well as production capacity as per existing EC.
Date of earlier EAC meetings	1. 5 th meeting of the EAC (non-coal mining sector), 29 th May 2019 2. 38 th meeting of the EAC (Non-Coal Mining), 16 th Nov. 2018 3. 30 th meeting of the EAC (Non-Coal Mining), 8th April 2021

5. ADS details: Earlier, during 30th meeting of the EAC (Non-Coal Mining), 8th April 2021, EAC deliberated that Govt. of Gujarat should first respond for letter dated 25th July, 2019 and the proposal can be considered only after the reply received by them. Therefore, the Committee returned the proposal.

Reply: The Govt. of Gujarat submitted a response letter on 30.12.2021 with enclosures of past production details of the instant project which shows production was not exceeded in the past.

6. Lease Details:

Granted Prospecting License	Area	204.07 Ha
	Execution date	19-01-1977
	PL No.	-
Letter of Intent	Letter No.	MCR-1574-G-14-7655-(Part-I)-CHH
	Date	13/03/2020
Validity of mine lease	up to 31/03/2030	

7. Mining plan details:

Mining Plan (approved by Indian Bureau of Mines/DMG)	Letter No.	Mine plan has been approved from IBM Gandhinagar vide letter no. 684(4)(1)(MP-114/2018-GNR
	Date	20/04/2018
	Validity	31/03/2022
Mining Parameters	Quantitative Description	
Bench Height	Working >3.0 m (max.)	
Bench Width	For running bench 5 m For ultimate bench 2.75m	
Method of Mining	Opencast semi-mechanized method	
Individual bench slope	>70 ⁰	
Overall pit slope	45 ⁰	
Drilling/Blasting	Drilling is being done by jack hammer. ANFO is being used with slurry explosive. Blasting frequency is maintained twice a week. Safe and controlled blasting is practiced by competent persons. Excavator is being used for loading of fragmented rock mass of mineral and transported to destination outside the ML by tippers.	
RoM output size	93633 MT (in the year 2020-21)	
Life of mine	up to 31/03/2030	
Transportation details	Dumpers	
Dumpers capacity	17tonnes	

8. Land Area Breakup:

Private land	204.07 Ha
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Government land	-
Total Mining lease area (MLA)	204.07 Ha

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

Particulars	Particular's Name	Distance & Directions
Nearest village/major town	RatadiaMota	4.70 SE
Nearest Highway	NH 8	12 km/SW
	SH 47	19KM,E
Nearest Railway Station	Bhuj	53 KM, NE
Nearest water bodies	a. VengdiNadi	1.05 km (W)
	b. KharodNadi	7.58 KM (SE)
	c. Rajada Reservoir	5.09 km (SE)
	d. KhadkawaliNadi	0.93 km (E)

10. Water requirement

Total water requirement	25 KLD	Fresh water	25 KLD
		Treated water	-
Source	Through tankers from local Panchyat		

11. Presence of Environmentally Sensitive areas in the study area

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

12. The status of Forest Clearance/Wildlife Clearance/CRZ/CGWA - Not Applicable

13. Status of CTE/CTO:

CTO- Consent Order No.AWH-108680 dated 10.07.2020 with validity upto 18.06.2025.

CTE- NOC GPCB FT-63/4755 dated 20/2/2004 Amendment vide letter no. FT-63/37077 dated 30/11/2004.

14. Green belt/plantationdetails:

Proposed area for green belt/plantation	10.26 Ha (Existing) Total at the end of 2021-22 -12.26 Ha
Budget for green plant& plantation till the	4 lacs

end of life of mine.	
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15. Court case details:

Court Case	No litigation is pending against the project proponent and the project
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16. Affidavit/Undertaking details:

Affidavit	PP submitted that affidavit was submitted vide dated 14.03.2019
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17. Previous EC compliance and production details:

Particulars	Letter no. and date
Certified EC compliance report	EC compliance verification report has been obtained from IRO, Bhopal vide letter no. 3- 28/2006(ENV)/199 dated 04.04.2019
Certified past production	Letter no. MCR-1574-G-14-7655- (Part-I)/CHH Dated 31/12/2021.

18. Details of the EMP

Sr. No.	Description	Approximate Recurring cost per Annum (Rs. In Lacs)
1	Air pollution Control	5.00
2	Water Pollution Control	0.00
3	Environment Monitoring and Management	1.00
4	Wired Fencing	2.00
5	Noise Pollution Control	1.00
6	Occupational Health	1.00
7	Green Belt	4.00
8	Drinking Water	1.00
	Total	15.00
9	Cost For CSR Activity: Project Proponent will spent amount of 2% of their gross income for CSR (Corporate Social Responsibilities).	

19. Details of project cost and employment:

Particulars	Details
Total Cost for EMP	15.00 Lakhs

Recurring Cost for EMP	15.00 Lakhs
Project Cost	200.00 Lakhs
Employment	40 Nos.

20. Observation and Recommendation of the Committee:

The proposal for Terms of Reference under the provision of MoEF&CC Notification S.O. 1530 (E) dated 6th April 2018 was considered in the 48th EAC meeting held during 28th to 30th March, 2022. After the detailed presentation made by the Project Proponent and the Consultant, the Committee observed that earlier, during 30th meeting of the EAC (Non-Coal Mining), 8th April 2021, EAC deliberated that Govt. of Gujarat should first respond for letter dated 25th July, 2019 and the proposal can be considered only after the reply received by them. Accordingly, the Industries and Mines Department, Govt. of Gujarat certified the past production details vide letter dated 30.12.2021 from 2006-07 to 2018-19 and hence, the Committee noted that there is no violation in the instant case. Therefore, the Committee recommended the proposal for Terms of Reference for regularization of EC under the provision of MoEF&CC Notification S.O. 1530 (E) dated 6th April 2018 for Ratadia- Nagrecha Bauxite Mining with production capacity of 1,00,000 TPA in the mine lease area of 204.07 ha of M/s Gujarat Mineral Development Corporation Limited (A Govt. of Gujarat undertaking) located at Village Ratadia & Nagrecha, Tehsil Mandvi, District Kutch, Gujarat with subject to the following specific conditions in addition to the standard conditions of non-coal mining projects:

- a) The Public Hearing had already been conducted on 11.11.2003 for the same scope and at present there is no change in scope. Therefore, as per Ministry's O.M. dated 16.02.2021 the project proponent shall carry out public consultation instead of public hearing and shall address the concerns of the public in the EIA/EMP report. The project proponent shall submit a detailed note on the public concerns raised in the earlier Public Hearing and if any non-compliance, submit the reason for the same during the appraisal for Environmental Clearance.
- b) 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.
- c) 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 by considering all the mining activities.

- d) The Project Proponent should submit the detailed plantation plan in tabular format (year wise for entire life of mine) with proper capital and recurring cost. PP shall undertake the adequate plantation with the seedling of 10 ft height with at least 90% survival rate and the plantation shall be completed within 3 years 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.
- e) The Project Proponent should submit list of Schedule – I species present in the lease area authenticated by PCCF and the status of National Park/Sanctuary, Biosphere Reserve/Tiger Reserve/Elephant Reserve/any other Reserve, Habitat for migratory birds, Corridor for animals within 10 km of the lease area, if any.
- f) The project proponent must validate the EMP and if the concerns of the public are not totally addressed in the EMP, accordingly a budget provision must be made and incorporate in the fresh EIA/EMP report.
- g) The Project Proponent should also submit the map demarcating the mineralized and non-mineralized zone in the mine lease area.
- h) The project proponent shall submit the risk assessment and hazard management report along with the EIA/EMP report which must particularly focus on the control and mitigation measures to be taken during the mining activities keeping in mind that the mine lease area falls in Seismic Zone-V as per IS-1893 (Part-1)-2002 and is at Highest Risk Zone.
- i) The Project Proponent shall upload the Affidavit as per Ministry's O.M No 3-50/2017-IA.II(M) dated 30.05.2018 on PARIVESH portal.

3.7 Proposal for Regularization of Environmental Clearance under the provision of MoEF&CC Notification S.O. 1530 (E) dated 6th April 2018 for Terms of Reference of Naredi – Mota – Nandra Bauxite Mining with Production Capacity 35,000 TPA in the Mine Lease Area – 169.5968 Ha of M/s Gujarat Mineral Development Corporation Limited located at Village Naredi & Mota Nandra, Tehsil Abdasa, District Kutch, Gujarat – [File No. J-11015/151/2018-IA-II(M); Proposal No. IA/GJ/MIN/258072/2022] - Terms of Reference

EAC Meeting Details:

EAC meeting	48 th EAC meeting
Date of Meeting	28 th to 30 th March, 2022

2. Project details:

Name of the Proposal	Proposal for regularization of environmental clearance under the provision of MoEF&CC Notification S.O. 1530 (E) dated 6th April 2018 for Terms of Reference NarediMotaNandra bauxite mining project (mine lease area – 169.5968 ha. & production capacity 0.35 million TPA) by M/s Gujarat Mineral Development Corporation Limited (A Govt. of Gujarat undertaking)	
Location	Village	Naredi- Mota -Nandra
	Tehsil/Taluka	Abdasa
	District	Kutch
	State / UT	Gujarat
	Latitudes	23°10'57.0708"N, 23°12'20.6018"N
	Longitudes	69°11'40.4154"E, 69°12'39.8370"E
	SolTopo sheet No.	41 E/3 old (new F 42 D/3), 41 E/4 old (F42 D/4 new) 41 E/7 old (new F 42 D/7) and 41 E/8 old (new F 42 D/8)
Company's Name	M/s. Gujarat Mineral Development Corporation Limited (GMDC)	
Accredited Consultant and certificate no.	M/s. Anacon Laboratories Pvt. Ltd., Nagpur Accreditation No. : NABET/EIA/1922/RA 0150, dated 03.02.2020 valid upto 30.09.2022	
KML file	Submitted	
Seismic zone	Zone-V as per IS-1893 (Part-1)-2002. Hence, the site is Highest Risk Zone.	

1. 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 amendment in compliance to S.O. 1530 (E) dated 6th April 2018
Mining lease Area	169.5968 ha.

4. ToR/EC Details:

ToR Proposal No.	IA/GJ/MIN/258072/2022
Online application date for Form-I	23/02/2022 (Initially it was uploaded on 1 October 2018 within window period as per MoEF&CC Notification dtd. 06 th April 2018.)
Documents Submitted	Form-1, PFR, Brief Summary, KML & Additional Documents.
EAC meeting date	30 th March 2022

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Production capacity	Production capacity 0.35 Million TPA (35,000TPA)
Soil	Nil
Waste	95798 m ³ 2016-2017- to 2020-2021
Others	Mineral Sub grade- 128710 m ³ 2016-2017- to 2020-2021
Total Excavation	12.82 Ha
Previous EC details	Environmental Clearance for mining is already granted by MoEFCC, New Delhi, Vide File No.J-11015/130/2005-IA-II(M) dtd. 08 th December 2005.
Additional details	The proposal is for revalidation of existing EC ➤ No increase in size of the project area as well as production capacity as per existing EC
Date of earlier EAC meetings	38 th meeting of the EAC (Non-Coal Mining), 16 th Nov. 2018 5 th meeting of the EAC (non-coal mining sector), 29 th May 2019 30 th meeting of the EAC (Non-Coal Mining), 8 th April 2021

5. Lease Details:

Granted Prospecting License	Area	169.5968 ha.
	Execution date	28-03-2006
	PL No.	-
Application for the Mining lease area and Date	The proposal is for revalidation of existing ECs per MoEF&CC Notification dtd. 06 th April 2018.	
Validity of mine lease	27-03-2056	
Letter of Intent	Letter No.	MCR/1591/G-59/ 704/CHH
	Date	10/01/2020

6. Mining plan details:

Mining Plan (approved by Indian Bureau of Mines/DMG)	Letter No.	MCR/1591/G-59/704/CHH
	Date	23.08.2021
	Validity	31.03.2026
Mining Parameters	Quantitative Description	
Bench Height	6.0 m	
Bench Width	For running bench > 6 m	
Method of Mining	Opencast semi-mechanized method	
Individual bench slope	>60°	
Overall pit slope	45°	
Drilling/Blasting	Drilling is being done by jack hammer. ANFO is being used with slurry explosive. Blasting frequency is maintained twice a week. Safe	

	and controlled basting is practiced by competent persons. Excavator of capacity 0.9 cum is being used for loading of fragmented rock mass of mineral and transported to destination outside the ML by tippers.
RoM output size	34947 MT (in the year 2020-21) Production capacity 35000 TPA
Life of mine	up to 27-03-2056
Transportation details	Through Covered Dumpers
Dumpers capacity	17 Tonnes

7. Land Area Breakup:

Private land	169.5968 ha
Government land	-
Total Mining lease area (MLA)	169.5968 ha

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

Particulars	Particular's Name	Distance & Directions
Nearest water bodies	KankavatiNadi (Near-Kolada Village):	Crossing ML area
	Balachod (SumrasarTalav):	2.05 km, NW
	Nalra River	2.49 km, WNW
Nearest Railway Station	Deshalpar	24.32 KM, E
Nearest Highway	SH 49	0.55 KM N
Nearest village/major town	Naredi	-1.78 SE

9. Water requirement

Total water requirement	29 KLD	Fresh water	29 KLD
		Treated water	-
Source	Through local tankers		

10. Presence of Environmentally Sensitive areas in the study area

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

11. The status of Forest Clearance/Wildlife Clearance/CRZ/CGWA - Not Applicable

12. Status of CTE/CTO:

CTE- NO: PC/NOC/KUTCH - 498/24963 dated 16/08/2003.

CTO- No.AWH-88423 dated 20.09.2017 with validity upto 06.09.2022.

13. Green belt/plantation details:

Proposed area for green belt/plantation	21.57 ha. (already planted)
Budget for green plant& plantation till the end of life of mine.	4 lakhs per year

14. Court Status:

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

Affidavit/Undertaking	Affidavit dtd 14.03.2019 provided as per OM dated 30.05.2018
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16. Previous EC compliance and production details:

Particulars	Letter no. and date
Certified EC compliance report	Not applicable, as the proposal is not for expansion. However, we have received the EC compliance verification report from MOEF Bhopal vide letter no. 3- 1/2006(ENV)/183 dated 26.03.2019 in reference to this proposal only.
Certified past production	letter no. MCR-1574-G-14-7655- (Part-I)/CHH Dated 31/12/2021.

17. ADS details

S.No	ADS Point	Reply
1.	As per the MOM, dated 8 th April 2021, EAC deliberated that Govt. of Gujarat should first respond for letter dated 25th July, 2019 and the proposal can be considered only after the reply received by them. Therefore, the Committee returned the proposal.	Submitted on dated 23.02.2022

	Response received from Govt. of Gujarat in line with MoEF&CC letter dtd. 25 th July, 2019	
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18. Details of the EMP

Sr. No.	Description	Approximate Recurring cost per Annum (Rs. In Lacs)
1	Air pollution Control	3.00
2	Water Pollution Control	0.00
3	Environment Monitoring and Management	1.00
4	Wired Fencing	0.50
5	Noise Pollution Control	0.50
6	Occupational Health	1.00
7	Green Belt	4.00
8	Drinking Water	1.50
	Total	11.50
9	Cost For CSR Activity: Project Proponent will spent amount of 2% of their gross income for CSR (Corporate Social Responsibilities).	

19. Details of project cost and employment:

Particulars	(Rs. In Lacs)
Total Cost for EMP	11.50 lacs
Recurring Cost for EMP	11.50 Lacs
Project Cost	61 Lacs
Employment	61 Nos.

10. Observation and Recommendation of the Committee:

The proposal for Terms of Reference under the provision of MoEF&CC Notification S.O. 1530 (E) dated 6th April 2018 was considered in the 48th EAC meeting held during 28th to 30th March, 2022. After the detailed presentation made by the Project Proponent and the Consultant, the Committee observed that earlier, during 30th meeting of the EAC (Non-Coal Mining), 8th April 2021, EAC deliberated that Govt. of Gujarat should first respond for letter dated 25th July, 2019 and the proposal can be considered only after the reply received by them. Accordingly, the Industries and Mines

Department, Govt. of Gujarat certified the past production details vide letter dated 30.12.2021 from 2006-07 to 2018-19 and hence, the Committee noted that there is no violation in the instant case. Therefore, the Committee recommended the proposal for Terms of Reference for regularization of EC under the provision of MoEF&CC Notification S.O. 1530 (E) dated 6th April 2018 for Naredi – Mota – Nandra Bauxite Mining with Production Capacity 35,000 TPA in the Mine Lease Area – 169.5968 Ha of M/s Gujarat Mineral Development Corporation Limited (A Govt. of Gujarat undertaking) located at Village Naredi & Mota Nandra, Tehsil Abdasa, District Kutch, Gujarat with subject to the following specific conditions in addition to the standard conditions of non-coal mining projects:

- a) The Public Hearing had already been conducted on 13.11.2002 for the same scope and at present there is no change in scope. Therefore, as per Ministry's O.M. dated 16.02.2021 the project proponent shall carry out public consultation instead of public hearing and shall address the concerns of the public in the EIA/EMP report. The project proponent shall submit a detailed note on the public concerns raised in the earlier Public Hearing and if any non-compliance, submit the reason for the same during the appraisal for Environmental Clearance.
- b) 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.
- c) 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 by considering all the mining activities.
- d) The Project Proponent should submit the detailed plantation plan in tabular format (year wise for entire life of mine) with proper capital and recurring cost. PP shall undertake the adequate plantation with the seedling of 10 ft height with at least 90% survival rate and the plantation shall be completed within 3 years 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.
- e) The Project Proponent should submit list of Schedule – I species present in the lease area authenticated by PCCF and the status of National Park/Sanctuary, Biosphere Reserve/Tiger Reserve/Elephant Reserve/any other Reserve, Habitat for migratory birds, Corridor for animals within 10 km of the lease area, if any.

- f) The project proponent must validate the EMP and if the concerns of the public are not totally addressed in the EMP, accordingly a budget provision must be made and incorporate in the fresh EIA/EMP report.
- g) The Project Proponent should also submit the map demarcating the mineralized and non-mineralized zone in the mine lease area.
- h) The project proponent shall submit the risk assessment and hazard management report along with the EIA/EMP report which must particularly focus on the control and mitigation measures to be taken during the mining activities keeping in mind that the mine lease area falls in Seismic Zone-V as per IS-1893 (Part-1)-2002 and is at Highest Risk Zone.
- i) The Project Proponent shall upload the Affidavit as per Ministry's O.M No 3-50/2017-IA.II(M) dated 30.05.2018 on PARIVESH portal.

3.8 Proposal for Regularization of Environmental Clearance under the provision of MoEF&CC Notification S.O. 1530 (E) dated 6th April 2018 for Terms of Reference of Roha-Kotada-Nandra-Jarjok Bauxite Mining with Production Capacity 1,00,000 TPA in the Mine Lease Area –360.3601 ha by M/s Gujarat Mineral Development Corporation Limited located at Village Roha, Kotada, Nana Nandra, Mota Nandra & Jarjok, Tehsil Abdasa & Naktarna, District Kutch, Gujarat – [File No. J-11015/149/2018- IA-II(M); Proposal No. IA/GJ/MIN/258092/2022] - Terms of Reference

EAC Meeting Details:

EAC meeting	48 th EAC meeting
Date of Meeting	28 th to 30 th March, 2022

2. Project details:

Name of the Proposal	Proposal for Regularization of Environmental Clearance under the provision of MoEF&CC Notification S.O. 1530 (E) dated 6 th April 2018 for Terms of Reference of Roha - Kotada-Nandra-Jarjok Bauxite Mining with Production Capacity 1,00,000 TPA in the Mine Lease Area – 360.3601 ha by M/s Gujarat Mineral Development Corporation Limited (A Govt. of Gujarat undertaking)	
Location	Village	Roha-Kotada-Nandra-Jarjok
	Tehsil/Taluka	Abdasa & Nakhtarana
	District	Kutch

	State / UT	Gujarat
	Latitudes	23°09'2.0699"N, 23°11'44.0735"N
	Longitudes	69°12'51.9511"E, 69°14'48.4610"E
	Topo sheet No.	41 E/3 old (new F 42 D/3), 41 E/4 old (F42 D/4 new) 41 E/7 old (new F 42 D/7) and 41 E/8 old (new F 42 D/8)
Company's Name	M/s. Gujarat Mineral Development Corporation Limited (GMDC)	
Accredited Consultant and certificate no.	M/s Anacon Laboratories Pvt. Ltd., Nagpur AccreditationNo.:NABET/EIA/1922/RA0150, dated03.02.2020 valid upto 30.09.2022	
KML file	Submitted	
Seismic zone	Zone-V as per IS-1893 (Part-1)-2002. Hence, the site is Highest Risk Zone.	

3. 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 amendment in compliance to S.O. 1530 (E) dated 6th April 2018
Mining lease Area (MLA)	360.3601 ha

4. ToR/EC Details:

ToR Proposal No.	IA/GJ/MIN/258092/2022
Online application date for Form-I	23.02.2022 (Initially it was uploaded on 1 October 2018 within window period as per MoEF&CC Notification dtd. 06 th April 2018.)
Documents Submitted	Form 1, PFR, Brief Summary, KML & Additional Documents
EAC meeting date	30 th March, 2022
Production capacity	0.10 Million TPA (i.e. 1,00,000 TPA)
Waste	79165 m ³ (01-04-2018-to 31-03-2021)
Total Excavation	94.39 Ha
Previous EC details	Environmental Clearance was granted for the production capacity of 1,00,000 TPA in 360.36 Ha under the purview of EIA notification 1994 vide letter no. J-11015/129/2005-IA II (M) dated 08.12.2005.
Additional details	The proposal is for revalidation of existing EC: ➤ No increase in size of the project (i.e. Mine Lease Area – 360.3601 Ha) as well as production

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	capacity (i.e. Production Capacity 0.10 Million TPA) as per existing EC
Date of earlier EAC meetings	1. 38 th Meeting of EAC (Non-Coal Mining), 16 th November, 2018 2. 5 th Meeting of EAC (Non-Coal Mining), 29 th May, 2019. 3. 30 th Meeting of EAC (Non-Coal Mining), 8 th April, 2021

5. Lease Details:

Granted Prospecting License	Area	360.3601 ha
	Execution date	28.03.2006
	PL No.	-
Application for the Mining lease area and Date	The proposal is for revalidation of existing ECas per MoEF&CC Notification dtd. 06 th April 2018.	
Validity of mine lease	27.03.2056	
Letter of Intent	Letter No.	MCR/1591/G-59/ 349/CHH
	Date	-

6. Mining plan details:

Mining Plan(approved by Indian Bureau of Mines/DMG)	Letter No.	Approved from IBM Gandhinagar Vide letter no. 684(4)(1)/MP-344/2021-22 GNR/1414
	Date	23.08.2021
	Validity	31.03.2026
Mining Parameters	Quantitative Description	
Bench Height	1.5 m	
Bench Width	For running bench > 6 m	
Method of Mining	Semi Mechanized Open Cast Mining	
Individual bench slope	>60 ⁰	
Overall pit slope	45 ⁰	
Drilling/Blasting	Drilling is being done by jack hammer. ANFO is being used with slurry explosive. Blasting frequency is maintained twice a week. Safe and controlled blasting is practised by competent persons. Excavator of capacity 0.9 cum is being used for loading of fragmented rock mass of mineral and transported to destination outside the ML by tippers.	
RoM output size	87466MT (in the year 2020-21)	
Life of mine	19Years	
Transportation details	Dumpers	
Dumpers capacity	17tonnes	

7. Land Area Breakup:

Private land	360.3601 ha
Government land	-
Total Mining lease area (MLA)	360.3601 ha

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

Particulars	Particular's Name	Distance & Directions
Nearest Village/Town	Kotara-Roha	1.78 Km/ SE
Nearest Highway	SH 49	1.30 Km/ N
Railway Station	Deshalpar	19.5 Km/ENE
Nearest Air Port	1. Air force Station 2. Bhuj	33.46 Km/W 45.5 Km/ NE
Nearest Reserved/Protected forests	1. Jungle (Near Naredi Village) 2. Khirsara Reserve Forest 3. Jarjok Reserve Forest 4. Bhattara Reserve Forest 5. Makda Reserve Forest 6. Moti Maun Reserve Forest 7. Roha Reserve Forest	Adjacent 5.18 Km/ ESE 1.68 km/ S 3.4 Km/SSW 4.17 Km/SSE 5.9 Km/SE 0.56 Km/E

9. Water requirement

Total water requirement	32 KLD	Fresh water	32 KLD
		Treated water	-
Source	Existing water supplier through mobile tankers.		

10. Presence of Environmentally Sensitive areas in the study area

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

11. The status of Forest Clearance/Wildlife Clearance/CRZ/CGWA – Not applicable

12. Status of CTE/CTO:

CTE NOC: GPCB FT-134/18492 dated 22/06/2004

CTO: Consent Order No.AWH-88424 dated 20.09.2017 with validity upto 31.08.2022

13. Green belt/plantation details:

Proposed area for green belt/plantation	5.0 Ha
Budget for green plant & plantation till the end of life of mine.	4.0 Lakhs

14. Court case details:

Court Case	No
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15. Affidavit/Undertaking details:

Affidavit/Undertaking	Affidavit dtd. 14.03.2019
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16. Previous EC compliance and production details:

Particulars	Letter no. and date
Certified EC compliance report	Not applicable, as the proposal is not for expansion. However, we have received the EC compliance verification report from MOEF Bhopal vide letter no. 3- 2/2006(ENV)/184 dated 26.03.2019 for this proposal only
Certified past production	letter no. MCR-1574-G-14-7655- (Part-I)/CHH Dated 31/12/2021.

17. ADS details

S.No	ADS Point	Reply
1.	As per the MOM dtd 08 th April 2021, EAC deliberated that Govt. of Gujarat should first respond for letter dated 19 th July, 2019 and the proposal can be considered only after the reply received by them. Therefore, the Committee returned the proposal. Response received from Govt. of Gujarat in line with MoEF&CC letter dtd. 19 th July, 2019	Submitted on 23.02.2022

18. Details of the EMP

Sr. No.	Description	Approximate Recurring cost per Annum (Rs. In Lacs)
1	Air pollution Control	3.00
2	Water Pollution Control	0.00
3	Environment Monitoring and Management	1.00

4	Wired Fencing	0.50
5	Noise Pollution Control	0.50
6	Occupational Health	1.00
7	Green Belt	4.00
8	Drinking Water	1.50
	Total	11.50
9	Cost For CSR Activity: Project Proponent will spent amount of 2% of their gross income for CSR (Corporate Social Responsibilities).	

19. Details of project cost and employment:

Particulars	Details
Capital Cost for Environment Protection	11.50 lakhs
Total Cost for EMP	-
Recurring Cost for EMP	11.50 lakhs
Project Cost	0.5211 Crores
Employment	61 persons

20. Observation and Recommendation of the Committee:

The proposal for Terms of Reference under the provision of MoEF&CC Notification S.O. 1530 (E) dated 6thApril 2018 was considered in the 48th EAC meeting held during 28th to 30th March, 2022. After the detailed presentation made by the Project Proponent and the Consultant, the Committee observed that earlier, during 30th meeting of the EAC (Non-Coal Mining), 8th April 2021, EAC deliberated that Govt. of Gujarat should first respond for letter dated 25th July, 2019 and the proposal can be considered only after the reply received by them. Accordingly, the Industries and Mines Department, Govt. of Gujarat certified the past production details vide letter dated 30.12.2021 from 2006-07 to 2018-19 and hence, the Committee noted that there is no violation in the instant case. Therefore, the Committee recommended the proposal for Terms of Reference for regularization of EC under the provision of MoEF&CC Notification S.O. 1530 (E) dated 6thApril 2018 for Roha-Kotada-Nandra-Jarjok Bauxite Mining with Production Capacity 1,00,000 TPA in the Mine Lease Area –360.3601 ha by M/s Gujarat Mineral Development Corporation Limited (A Govt. of Gujarat undertaking) located at Village Roha, Kotada, Nana Nandra, Mota Nandra & Jarjok Tehsil Abdasa & Naktarna, District Kutch, Gujarat with subject to the following specific conditions in addition to the standard conditions of non-coal mining projects:

- a) The Public Hearing had already been conducted on 27.02.2004 for the same scope and at present there is no change in scope. Therefore, as per Ministry's O.M. dated 16.02.2021 the project proponent shall carry out public consultation instead of public hearing and shall address the concerns of the public in the EIA/EMP report. The project proponent shall submit a detailed note on the public

concerns raised in the earlier Public Hearing and if any non-compliance, submit the reason for the same during the appraisal for Environmental Clearance.

- b) 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.
- c) 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 by considering all the mining activities.
- d) The Project Proponent should submit the detailed plantation plan in tabular format (year wise for entire life of mine) with proper capital and recurring cost. PP shall undertake the adequate plantation with the seedling of 10 ft height with at least 90% survival rate and the plantation shall be completed within 3 years 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.
- e) The Project Proponent should submit list of Schedule – I species present in the lease area authenticated by PCCF and the status of National Park/Sanctuary, Biosphere Reserve/Tiger Reserve/Elephant Reserve/any other Reserve, Habitat for migratory birds, Corridor for animals within 10 km of the lease area, if any.
- f) The project proponent must validate the EMP and if the concerns of the public are not totally addressed in the EMP, accordingly a budget provision must be made and incorporate in the fresh EIA/EMP report.
- g) The Project Proponent should also submit the map demarcating the mineralized and non-mineralized zone in the mine lease area.
- h) The project proponent shall submit the risk assessment and hazard management report along with the EIA/EMP report which must particularly focus on the control and mitigation measures to be taken during the mining activities keeping in mind that the mine lease area falls in Seismic Zone-V as per IS-1893 (Part-1)-2002 and is at Highest Risk Zone.
- i) The Project Proponent shall upload the Affidavit as per Ministry's O.M No 3-50/2017-IA.II(M) dated 30.05.2018 on PARIVESH portal.

3.9 Proposal for Regularization of Environmental Clearance under the provision of MoEF&CC Notification S.O. 1530 (E) dated 6th April 2018 for Terms of Reference of MothalaBalachod Bauxite Mining Project(Mine Lease Area –280.7686 ha & Production Capacity 42,000 TPA) atVillage: Balachod, Mothala&Khandai, Tehsil Abdasa, District Kutch, GujaratM/s Gujarat Mineral Development Corporation Limited (A Govt. of Gujarat undertaking)– [File No.J-11015/150/2018-IA-II(M); Proposal No. IA/GJ/MIN/258052/2022] - Terms of Reference

EAC Meeting Details:

EAC meeting	48 th EAC meeting
Date of Meeting	28 th to 30 th March, 2022

2. Project details:

Name of the Proposal	Proposal for Regularization of Environmental Clearance under the provision of MoEF&CC Notification S.O. 1530 (E) dated 6th April 2018 for Terms of Reference of Mothala - Balachod Bauxite Mining with Production Capacity 42,000 TPA in the Mine Lease Area – 280.7686 ha by M/s Gujarat Mineral Development Corporation Limited (A Govt. of Gujarat undertaking)	
Location	Village	Balachod, Mothala&Khandai
	Tehsil/Taluka	Abdasa
	District	Kutch
	State / UT	Gujarat
	Latitudes	N 23° 13' 17" - N 23° 15' 58"
	Longitudes	E 69° 07' 24" -E 69°10' 41"
	SolTopo sheet No.	41 E/4
Company's Name	M/s. Gujarat Mineral Development Corporation Limited (GMDC)	
Accredited Consultant and certificate no.	M/s Anacon Laboratories Pvt. Ltd., Nagpur AccreditationNo.:NABET/EIA/1922/RA0150, dated03.02.2020 valid upto 30.09.2022	
KML file	Submitted	
Seismic zone	Zone-V as per IS-1893 (Part-1)-2002. Hence, the site is Highest Risk Zone.	

3. 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 amendment in compliance to S.O. 1530 (E) dated 6th April 2018

Minutes of 48th EAC (Non-Coal Mining) Meeting held during 28th to 30th March, 2022

Mining lease Area	280.7686 Ha.
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4. ToR/EC Details:

ToR Proposal No.	IA/GJ/MIN/258052/2022
Online application date for Form-I	23.02.2022 (Initially it was uploaded on 01.10.2018 within window period as per MoEF&CC Notification dtd. 06 th April 2018.)
Documents Submitted	Form 1, PFR, Brief Summary, Kml& Additional Documents
EAC meeting date	30 th March, 2022
Production capacity	42,000 TPA
Soil	3314
Waste	77954 m ³ (01-04-2018-to 31-03-2021)
Total Excavation	11.5158 Ha
Previous EC details	Environmental Clearance was granted for the Production capacity of 42,000 TPA in 299.40 ha dated 8th Dec 2005 under purview of EIA notification 1994 vide letter no. J-11015/131/2005-IA II (M) dated 08.12.2005.
Additional details	The proposal is for revalidation of existing EC: ➤ No increase in size of the project (i.e. Mine Lease Area – 280.7686 Ha) as well as production capacity (i.e. Production Capacity 42,000 TPA) as per existing EC
Date of earlier EAC meetings	38th Meeting of EAC (Non-Coal Mining), 16th November, 2018 5th Meeting of EAC (Non-Coal Mining), 29h May, 2019. 30th Meeting of EAC (Non-Coal Mining), 8th April, 2021

5. Lease Details:

Granted Prospecting License	Area	280.7686 Ha
	Execution date	07.03.2007
	PL No.	-
Application for the Mining lease area and Date	The proposal is for revalidation of existing ECs as per MoEF&CC Notification dtd. 06 th April 2018.	
Validity of mine lease	06.03.2057	
Letter of Intent	Letter No.	MCR/1591/G-58/703/CHH
	Date	-

6. Mining plan details:

Mining Plan (approved by Indian Bureau of Mines/DMG)	Letter No.	Approved from IBM Gandhinagar vide letter no. 684(4)(1)(MP-117/2018-
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		GNR-IBM
	Date	01.05.2018
	Validity	31.03.2022
Mining Parameters	Quantitative Description	
Bench Height	2 m	
Bench Width	2 m	
Method of Mining	Semi Mechanized Open Cast Mining	
Individual bench slope	70 ⁰ from the vertical	
Overall pit slope	37 ⁰	
Drilling/Blasting	In order to meet the present requirement of production shallow hole drilling, blasting, mechanized excavation combined with manual sorting and loading and transportation by small to medium size excavator (Bucket capacity around 1 Cum.) and dumper, are in use. During loading ample precautions are being taken to separately load the waste material and thus minimize the subsequently sorting of the ROM.	
RoM output size	9600 MT (in the year 2020-21)	
Life of mine	51 Years	
Transportation details	Dumpers	
Dumpers capacity	17tonnes	

7. Land Area Breakup:

Private land	280.7686 Ha
Government land	-
Total Mining lease area (MLA)	280.7686 Ha
Private land for crusher, workshop & other infrastructure outside the MLA	-

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

Particulars	Particular's Name	Distance &Directions
Nearest Village/Town	Bitta	6.14 Km/ WNW
Nearest Highway	SH 49	6.47 Km/ S
Railway Station	Bhuj	53.90 Km/ E
Nearest Air Port	Bhuj	51.88 Km/ E
Nearest Reserved/Protected forests	Open Mixed Jungle Wamoti Reserve Forest Mothala Reserve Forest Naranpar Reserve Forest	Adjacent/W 5.17 Km,/N 7.15 Km/ SSW 6.34 Km/E

9. Water requirement

Total water requirement	32 KLD	Fresh water	32 KLD
		Treated water	-

Source	Existing water supplier through mobile tankers.
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10. Presence of Environmentally Sensitive areas in the study area

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

11. The status of Forest Clearance/Wildlife Clearance/CRZ/CGWA –Not Applicable

12. Status of CTE/CTO:

CTE No.: PC/NOC/Kutch-499/24961 dated 16/08/2003, Amendment letter vide No: PC/KUTCH -499/27146 dated 15/09/2003

CTO:Consent Order No.AWH-92763 dated 04.05.2018 with validity upto 30.05.2023.

13. Green belt/plantation Details

Proposed area for green belt/plantation	10.6 Ha
Budget for green plant& plantation till the end of life of mine.	4.0 Lakhs

14. Court case details:

Court Case	No
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16. Affidavit/Undertaking details:

Affidavit/Undertaking	Affidavit dtd. 14.03.2019
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17. Previous EC compliance and production details:

Particulars	Letter no. and date
Certified EC compliance report	Not applicable, as the proposal is not for expansion. However, we have received the EC compliance verification report from MOEF Bhopal vide letter no. 3-4/2006(ENV)/186 dated 26.03.2019
Certified past production	letter no. MCR-1574-G-14-7655- (Part-I)/CHH Dated 31/12/2021.

18. ADS details

S.No	ADS Point	Reply
1.	As per the MOM dtd 08 th April	Submitted on 23.02.2022

S.No	ADS Point	Reply
	2021, EAC deliberated that Govt. of Gujarat should first respond for letter dated 29 th July, 2019 and the proposal can be considered only after the reply received by them. Therefore, the Committee returned the proposal. Response received from Govt. of Gujarat in line with MoEF&CC letter dtd. 29 th July, 2019	

19. Details of the EMP

Sr. No.	Description	Approximate Recurring cost per Annum (Rs. In Lacs)
1	Air pollution Control	3.00
2	Water Pollution Control	0.00
3	Environment Monitoring and Management	1.00
4	Wired Fencing	0.50
5	Noise Pollution Control	0.50
6	Occupational Health	1.00
7	Green Belt	4.00
8	Drinking Water	1.50
	Total	11.00
9	Cost For CSR Activity: Project Proponent will spent amount of 2% of their gross income for CSR (Corporate Social Responsibilities).	

20. Details of project cost and employment:

Particulars	Details
Total Cost for EMP	11.0 lakhs
Recurring Cost for EMP	11.0 lakhs
Project Cost	60 Lakhs
Employment	34

21. Observation and Recommendation of the Committee:

The proposal for Terms of Reference under the provision of MoEF&CC Notification S.O. 1530 (E) dated 6th April 2018 was considered in the 48th EAC meeting held during 28th to 30th March, 2022. After the detailed presentation made by the Project Proponent and the Consultant, the Committee observed that earlier, during 30th meeting

of the EAC (Non-Coal Mining), 8th April 2021, EAC deliberated that Govt. of Gujarat should first respond for letter dated 25th July, 2019 and the proposal can be considered only after the reply received by them. Accordingly, the Industries and Mines Department, Govt. of Gujarat certified the past production details vide letter dated 30.12.2021 from 2006-07 to 2018-19 and hence, the Committee noted that there is no violation in the instant case. Therefore, the Committee recommended the proposal for Terms of Reference for regularization of EC under the provision of MoEF&CC Notification S.O. 1530 (E) dated 6th April 2018 for Mothala Balachod Bauxite Mining Project (Mine Lease Area –280.7686 ha & Production Capacity 42,000 TPA) at Village: Balachod, Mothala & Khandai, Tehsil Abdasa, District Kutch, Gujarat by M/s Gujarat Mineral Development Corporation Limited (A Govt. of Gujarat undertaking) with subject to the following specific conditions in addition to the standard conditions of non-coal mining projects:

- a) The Public Hearing had already been conducted on 13.11.2002 for the same scope and at present there is no change in scope. Therefore, as per Ministry's O.M. dated 16.02.2021 the project proponent shall carry out public consultation instead of public hearing and shall address the concerns of the public in the EIA/EMP report. The project proponent shall submit a detailed note on the public concerns raised in the earlier Public Hearing and if any non-compliance, submit the reason for the same during the appraisal for Environmental Clearance.
- b) 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.
- c) 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 by considering all the mining activities.
- d) The Project Proponent should submit the detailed plantation plan in tabular format (year wise for entire life of mine) with proper capital and recurring cost. PP shall undertake the adequate plantation with the seedling of 10 ft height with at least 90% survival rate and the plantation shall be completed within 3 years 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.
- e) The Project Proponent should submit list of Schedule – I species present in the lease area authenticated by PCCF and the status of National Park/Sanctuary,

Biosphere Reserve/Tiger Reserve/Elephant Reserve/any other Reserve, Habitat for migratory birds, Corridor for animals within 10 km of the lease area, if any.

- f) The project proponent must validate the EMP and if the concerns of the public are not totally addressed in the EMP, accordingly a budget provision must be made and incorporate in the fresh EIA/EMP report.
- g) The Project Proponent should also submit the map demarcating the mineralized and non-mineralized zone in the mine lease area.
- h) The project proponent shall submit the risk assessment and hazard management report along with the EIA/EMP report which must particularly focus on the control and mitigation measures to be taken during the mining activities keeping in mind that the mine lease area falls in Seismic Zone-V as per IS-1893 (Part-1)-2002 and is at Highest Risk Zone.
- i) The Project Proponent shall upload the Affidavit as per Ministry's O.M No 3-50/2017-IA.II(M) dated 30.05.2018 on PARIVESH portal.

3.10 Proposal for Regularization of Environmental Clearance under the provision of EIA Notification 2006 and in compliance of MoEF&CC Notification S.O. 1530 (E) dated 6th April 2018 for Terms of Reference of Daban-Wamoti Bauxite Mining Project in the Mine Lease Area – 642.0550 ha with the Production Capacity 0.24 MTPA of Gujarat Mineral Development Corporation Limited located at Village: Daban, Nani Wamoti, Khanai, Balapar & Rasalai, Tehsil Abdasa & Nakhatrana, District Kutch, Gujarat.- [File No. J-11015/152/2018- IA-II(M); Proposal No. IA/GJ/MIN/189220/2020] - Terms of Reference

EAC Meeting Details:

EAC meeting	48 th EAC meeting
Date of Meeting	28 th to 30 th March, 2022

2. Project details:

Name of the Proposal	Proposal for regularization of EC under the provision of MoEF&CC Notification S.O. 1530 (E) dated 6 th April 2018 for Terms of Reference of Daban-Wamoti Bauxite Mining Project in the Mine Lease Area – 642.0550 ha with the Production Capacity 0.24 MTPA by Gujarat Mineral Development Corporation Limited.	
Location	Village	Daban, Nani Wamoti, Khanai,

	Balapar&Rasalai
Tehsil/Taluka	Abdasa&Nakhatrana
District	Kutch
State / UT	Gujarat
Latitudes	23°18'42.5103"N, 23°23'23.9910"N
Longitudes	69°03'34.8217"E, 69°05'49.2578"E
SoI Topo sheet No.	41E/3
Company's Name	M/s. Gujarat Mineral Development Corporation Limited (GMDC)(A Govt. of Gujarat undertaking)
Accredited Consultant and certificate no.	M/s. Anacon Laboratories Pvt. Ltd., Nagpur Accreditation No. : NABET/EIA/1922/RA 0150, dated 03.02.2020 valid upto 30.09.2022
KML file	Submitted
Seismic zone	Zone-V as per IS-1893 (Part-1)-2002. Hence, the site is Highest Risk Zone.

3. 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 amendment in compliance to S.O. 1530 (E) dated 6th April 2018
Mining lease Area	642.0550 Ha

4. ToR/EC Details:

ToR Proposal No.	IA/GJ/MIN/189220/2020
Online application date for Form-I	23 February 2022 (Initially it is uploaded on 01 oct. 2018 within window period as per MoEF&CC Notification dtd. 06th April 2018.)
Documents Submitted	Form-1, PFR, Brief Summary, KML & Additional Documents.
EAC meeting date	30 th March 2022
Production capacity	0.24 Million TPA (i.e 2,40,000 T)
Soil	Nil
Waste	No overburden
Others	Mineral Rejects/ sub grade- 96715 m ³
Total Excavation	255.53 Ha
Previous EC details	No. J-11015/132/2005-IA II (M) dated 08.12.2005 under purview of EIA notification 1994

Additional details	The proposal is for revalidation of existing EC No increase in size of the project area as well as production capacity as per existing EC
Date of earlier EAC meetings	5 th meeting of the EAC (non-coal mining sector), 29 th May 2019 38 th meeting of the EAC (Non-Coal Mining), 16 th Nov. 2018. 30 th meeting of the EAC (Non-Coal Mining), 8 th April 2021

5. Lease Details:

Granted Prospecting Licence	Area	642.0550 Ha
	Execution date	28-03-2006
	PL No.	-
Application for the Mining lease area and Date	The proposal is for revalidation of existing EC as per MoEF&CC Notification dtd. 06 th April 2018.	
Validity of mine lease	Up to 27-03-2056	

6. Mining plan details:

Mining Plan(approved by Indian Bureau of Mines/DMG)	Letter No.	IBM Gandhinagar vide letter no. 684(4)(1)/MP-343/2021-22 GNR/1419
	Date	23/08/2021
	Validity	31/03/2026.
Mining Parameters	Quantitative Description	
Bench Height	3.0 m (max.)	
Bench Width	For running bench > 3 m	
Method of Mining	Semi mechanized opencast mine	
Individual bench slope	>60°	
Overall pit slope	45°	
Drilling/Blasting	Drilling is being done by jack hammer. ANFO is being used with slurry explosive. Blasting frequency is maintained twice a week. Safe and controlled blasting is practiced by competent persons. Excavator of capacity 0.9 cum is being used for loading of fragmented rock mass of mineral and transported to destination outside the ML by tippers.	
RoM output size	18613 MT (in the year 2020-21)	
Life of mine	14.8	
Transportation details	Dumpers	
Dumpers capacity	17tonnes	

7. Land Area Breakup:

Private land	642.0550 Ha
Government land	-
Total Mining lease area (MLA)	642.0550 Ha

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

Particulars	Particular's Name	Distance & Directions
Nearest village/major town	Daban	0.4 km/SE
Nearest Railway Station	Bhuj	70 KM, ESE
	Naliya	24.82 KM, SW
Nearest Highway	SH 42	11.78 KM NE
	SH 49	9.98 SW
Nearest water bodies	Pat Nadi	Crossing ML area towards North direction
	RukmawatiNadi	3.1 Km/S
	Khari Nadi	3.3 Km/SSE
	PirwaliNadi	3.1/SE
	DharulNadi	8.8 Km/E
	Khari Nadi	5.8 Km/NNW
	NarsinghwalaTalav	5.6 km/NNW

9. Water requirement

Total water requirement	45 KLD	Fresh water	45 KLD
		Treated water	
Source	Existing public water supply (through tankers).		

10. Presence of Environmentally Sensitive areas in the study area

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

11. The status of Forest Clearance/Wildlife Clearance/CRZ/CGWA, if applicable. - NA

12. Status of CTE/CTO:

CTE: CTE NOC GPCB FT-133/18490 dated 22/06/2004

CTO: Consent Order No. AWH-88353 dated 20.09.2017 with validity up to 05.09.2022

13. Green belt/plantation details:

Proposed area for green belt/plantation	At the end of lease period 39.57 Ha. Land will be under plantation and green belt.
Budget for green plant & plantation till the end of life of mine.	4.00 lakhs (recurring)

16. Court case details:

Court Case	No
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17. Affidavit/Undertaking details:

Affidavit/Undertaking	Affidavit dtd 14.03.2019 provided as per OM dated 30.05.2018
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18. Previous EC compliance and production details:

Particulars	Letter no. and date
Certified EC compliance report	Not applicable, as the proposal is not for expansion. However, we have received the EC compliance verification report from MOEF Bhopal vide letter No. 3- 3/2006(ENV)/200 dated 04.04.2019
Certified past production	letter No. MCR-1574-G-14-7655-(Part-1)/CHH dated 30.12.2021

19. ADS details

S.No	ADS Point	Reply
1.	8 th April 2021, EAC deliberated that Govt. of Gujarat should first respond for letter dated 29 th July, 2019 and the proposal can be considered only after the reply received by them. Therefore, the Committee returned the proposal. Response received from Govt. of Gujarat in line with MoEF&CC letter dtd. 19 th July, 2019	Reply Submitted on 23 February 2022

20. Details of the EMP

Sr. No.	Description	Approximate Recurring cost per Annum (Rs. In Lacs)
1	Air pollution Control	5.00
2	Water Pollution Control	0.00
3	Environment Monitoring and Management	2.00
4	Wired Fencing	2.00
5	Noise Pollution Control	1.00
6	Occupational Health	1.00
7	Green Belt	4.00
8	Drinking Water	1.50
	Total	16.00
9	Cost For CSR Activity: Project Proponent will spend amount of 2% of their gross income for CSR (Corporate Social Responsibilities).	

21. Details of project cost and employment:

Particulars	Details
Total Cost for EMP	16.00 Lakhs per annum
Recurring Cost for EMP	16.00 Lakhs
Project Cost	313.35 Lakhs
Employment	146 Nos.

22. Observation and Recommendation of the Committee:

The proposal for Terms of Reference for regularization of EC under the provision of MoEF&CC Notification S.O. 1530 (E) dated 6th April 2018 was considered in the 48th EAC meeting held during 28th to 30th March, 2022. After the detailed presentation made by the Project Proponent and the Consultant, the Committee observed that earlier, during 30th meeting of the EAC (Non-Coal Mining), 8th April 2021, EAC deliberated that Govt. of Gujarat should first respond for letter dated 25th July, 2019 and the proposal can be considered only after the reply received by them. Accordingly, the Industries and Mines Department, Govt. of Gujarat certified the past production details vide letter dated 30.12.2021 from 2006-07 to 2018-19 and hence, the Committee noted that there is no violation in the instant case. Therefore, the Committee recommended the proposal for Terms of Reference under the provision of MoEF&CC Notification S.O. 1530 (E) dated 6th April 2018 for Daban-Wamoti Bauxite Mining Project in the Mine Lease Area – 642.0550 ha with the Production Capacity 0.24 MTPA of Gujarat Mineral Development

Corporation Limited (A Govt. of Gujarat undertaking) located at Village: Daban, NaniWamoti, Khanai, Balapar&Rasalai, Tehsil Abdasa&Nakhatrana, District Kutch, Gujarat with subject to the following specific conditions in addition to the standard conditions of non-coal mining projects:

- a) The Public Hearing had already been conducted on 27.02.2004 for the same scope and at present there is no change in scope. Therefore, as per Ministry's O.M. dated 16.02.2021 the project proponent shall carry out public consultation instead of public hearing and shall address the concerns of the public in the EIA/EMP report. The project proponent shall submit a detailed note on the public concerns raised in the earlier Public Hearing and if any non-compliance, submit the reason for the same during the appraisal for Environmental Clearance.
- b) 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.
- c) 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 by considering all the mining activities.
- d) The Project Proponent should submit the detailed plantation plan in tabular format (year wise for entire life of mine) with proper capital and recurring cost. PP shall undertake the adequate plantation with the seedling of 10 ft height with at least 90% survival rate and the plantation shall be completed within 3 years 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.
- e) The Project Proponent should submit list of Schedule – I species present in the lease area authenticated by PCCF and the status of National Park/Sanctuary, Biosphere Reserve/Tiger Reserve/Elephant Reserve/any other Reserve, Habitat for migratory birds, Corridor for animals within 10 km of the lease area, if any.
- f) The project proponent must validate the EMP and if the concerns of the public are not totally addressed in the EMP, accordingly a budget provision must be made and incorporate in the fresh EIA/EMP report.
- g) The Project Proponent should also submit the map demarcating the mineralized and non-mineralized zone in the mine lease area.

- h) The project proponent shall submit the risk assessment and hazard management report along with the EIA/EMP report which must particularly focus on the control and mitigation measures to be taken during the mining activities keeping in mind that the mine lease area falls in Seismic Zone-V as per IS-1893 (Part-1)-2002 and is at Highest Risk Zone.
- i) The Project Proponent shall upload the Affidavit as per Ministry's O.M No 3-50/2017-IA.II(M) dated 30.05.2018 on PARIVESH portal.

3.11 River bed mining (Bajri) with production capacity of 3.39 MTPA (ROM) from the mine lease area 1191.37 ha located at revenue villages namely Akola etc. Tehsil Kotri, District Bhilwara, Rajasthan by Lessee Shri Mahendra Singh Rajawat –Extension of Validity of Environment Clearance

EAC Meeting Details:

EAC Meeting	48 th EAC Meeting
Date	28 th to 30 th March 2022

The proposal of Shri Mahendra Singh Rajawat vide proposal no. IA/RJ/MIN/253630/2022 for Environmental Clearance (EC) vide letter no. J-11015/414/2013-IA.II (M) dated 16.10.2020 for river bed mining with production capacity of 3.39 MTPA located at revenue villages of Tehsil Kotri, District Bhilwara Rajasthan. The mine lease area lies on Kothari and Banas Rivers. The latitudes and longitudes of the mine lease area lies between 25°23'32.61" N to 25°20'41.03" N and 74°01'7.64" E to 74°18'52.35" E on Survey of India topo-sheet numbers 45 K/2, 45 K/3, 45 K/6, 45 K/7. The project is located in Seismic zone-II.

2. Earlier, the EC letter J-11015/414/2013-IA.II (M) was granted on 16.10.2020 which was extended vide letter dated 27.08.2021 and valid till 31st March, 2022. The project proponent has submitted the Form-6 for extension of validity of EC.

3. The Department of Mines and Petroleum and Department of Mines and Geology vide letter dated 15.03.2022 and 24.03.2022 requested for validity of extension of 6ECs which were granted in the year 2020. Further, the Directorate of Mines and Geology, Govt. of Rajasthan vide letter dated 30.03.2022 informed that the mine lease is valid up to 06.07.2022.

4. The proposal was considered in the 48th EAC meeting held during 28th to 30th March 2022. The project proponent did not attend the meeting. Based on the documents submitted and discussions during the meeting, the Committee observed that the project

proponent has already excavated the complete capacity of 3.39 MTPA of sand as per the Environmental Clearance dated 16.10.2020. However, the mine lease is valid till 06.07.2022 and there is non-availability of certified compliance report of EC letter dated 16.10.2020. Therefore, the Committee **deferred the proposal** as environmental status report along with the copy of replenishment study is required for the further appraisal of the instant proposal.

3.12 Extraction of mineral bajri (minor mineral) with proposed production capacity of 22.5 Lakhs TPA from the mine lease area 3797.588 ha located at revenue villages namely Aasana etc. Tehsil Sayla, District Jalore, Rajasthan by Shri Ranveer Singh Rathore - Extension of Validity of Environmental Clearance

EAC Meeting Details:

EAC Meeting	48 th EAC Meeting
Date	28 th to 30 th March 2022

The proposal of Shri Ranveer Singh Rathore vide proposal no.IA/RJ/MIN/253579/2022 is for Extension of Validity of Environmental Clearance vide letter No.J-11015/339/2013-IA.II(M) dated 16.10.2020 for mining of bajri with proposed production capacity of 22.5 Lakh TPA located at revenue villages namely Aasana, Unari, Otwala, Komta, Jodvirana, Tura, DentaKalan, Punrau, Pantheri, Posana, Bavtara, Borwada, Virana, Vishala, Surana, SayalaChakNo.2, Tehsil Sayla, District Jalore, Rajasthan (3797.588 ha). The lease area falls on Survey of India toposheet number 45C/3, 45C/4, 45C/7, 45C/8 and between the Latitudes from 25°10'50.18" N to 25°19'56.90"N and Longitudes from 72°3'57.14" E to 72°23'38.08"E.

2. Earlier, the EC letter J-11015/339/2013-IA.II (M) was granted on 16.10.2020 which was extended vide letter dated 27.08.2021 and valid till 31st March, 2022. The project proponent has submitted the Form-6 for extension of validity of EC.

3. The Department of Mines and Petroleum and Department of Mines and Geology, Govt. of Rajasthan vide letter dated 15.03.2022 and 24.03.2022 requested for validity of extension of 6 ECs which were granted in the year 2020. Further, the Directorate of Mines and Geology, Govt. of Rajasthan vide letter dated 30.03.2022 informed that the mine lease is valid up to 15.07.2022.

4. The proposal was considered in the 48th EAC meeting held during 28th to 30th March 2022. After detailed deliberations, the Committee recommended for extension of validity of Environmental Clearance vide letter No.J-11015/339/2013-IA.II(M) dated 16.10.2020 for extraction of mineral bajri (minor mineral) with production capacity of 5.0

Lakh tons for remaining period i.e. upto 15.07.2022 (not exceeding 1.65 Lakh Tons per month) of sand/bajri in 31.655 ha of Shri Ranveer Singh Rathore located at revenue villages namely Aasana etc., Tehsil Sayla, District Jalore, Rajasthan. The permissible mineable material 1.65 Lakh Tons per month will be valid till validity of lease period i.e., upto 15.07.2022 with subject to the following specific conditions:

- i. The EC shall be valid till 15.07.2022.
- ii. The project proponent shall not exceed the production of 1.65 Lakh Tons per month up to 15.07.2022. Any shortfall cannot be carried forward to another month.
- iii. The project proponent shall complete the plantation as per the EC letter dated 16.10.2020.
- iv. The project proponent shall submit the monthly data of the production details and the compliance of plantation of earlier EC letter dated 16.10.2020 to the Rajasthan Government.
- v. All terms and conditions shall remain unchanged as per the earlier EC letter dated 25.02.2016 and 16.10.2020.

3.13 River Bed Mining Project from River Banas with Production Capacity of 3.624 MTPA of Sand/Bajri from maximum area of 246.638 Ha in 5 years out of 1667.78 Ha by M/s S.R. Associates, Rajasthan - Extension of Validity of Environmental Clearance

EAC Meeting Details:

EAC Meeting	48 th EAC Meeting
Date	28 th to 30 th March 2022

The proposal of M/s S.R. Associates vide proposal no. IA/RJ/MIN/253213/2022 for River Bed Mining with production capacity of 3.624 MTPA from the mining lease area of 246.638 ha located at Villages Amli, Banthali, Jalseena, Jaleri, Jagatya, Nandpura, Rajmahal, Satwara, Santhali, Tehsil: Deoli, District Tonk, Rajasthan. The lease area lies on River Banas and on Topo sheet No. 45 N/8, 45 N/12, 45 O/5 & 45 O/9. The Latitudes and Longitudes of the Mine Lease area are 25°52'13.66" to 25°59'19.75"N and 75°28'3.6" to 75°38'51.6"E respectively. The lease area falls in seismic zone Zone – II as per IS: 1893 (Part-I): 2002.

2. Earlier, the EC letter no. J-11015/208/2013-IA. II (M) was granted on 27.08.2020 which was extended vide letter dated 27.08.2021 valid till 31st March, 2022. The project proponent has submitted the Form-6 for extension of validity of EC.

3. The Department of Mines and Petroleum and Department of Mines and Geology, Govt. of Rajasthan vide letter dated 15.03.2022 and 24.03.2022 requested for validity of

extension of 6 ECs which were granted in the year 2020. Further, the Directorate of Mines and Geology, Govt. of Rajasthan vide letter dated 30.03.2022 informed that the mine lease is valid up to 19.02.2023.

4. The proposal was considered in the 48th EAC meeting held during 28th to 30th March 2022. After detailed deliberations, the Committee recommended foreextension of validity of Environmental Clearance vide letter no.J-11015/208/2013-IA. II (M) dated 27.08.2020 for River Bed Mining Project from River Banas with Production Capacity of 4.0 Lakhs Tons per month till 19.02.2023 of Sand/Bajri in mine lease area of 246.638 Ha out of 1667.78 Ha by M/s S.R. Associates, Rajasthan. The permissible minable material 4.0 Lakhs Tons per month will be valid till validity of lease period 19.02.2023 with subject to the following specific conditions:

- i. The EC shall be valid till 19.02.2023.
- ii. The project proponent shall not exceed the production of 4.0 Lakh Tons per month up to 19.02.2023. Any shortfall cannot be carried forward to another month.
- iii. The project proponent shall complete the plantation as per the EC letter dated 27.08.2020.
- iv. The project proponent shall submit the monthly data of the production details and the compliance of plantation of earlier EC letter dated 27.08.2020 to the Rajasthan Government.
- v. All terms and conditions shall remain unchanged as per the EC letter dated 27.08.2020.

3.14 Extraction of mining of Bajri (minor mineral) with proposed production capacity 3.20 MTPA from the mine lease area of 5269.0 ha located at revenue villages namely Shiyana, etc. Tehsil Jalore, District Jalore by M/s Satya Swaroop Singh Jadaun, Rajasthan State - Extension of Validity of Environmental Clearance

EAC Meeting Details:

EAC Meeting	48 th EAC Meeting
Date	28 th to 30 th March 2022

The proposal of M/s Satya Swaroop Singh Jadaun vide proposal No.IA/RJ/MIN/253555/2022 for Extension of Validity of Environmental Clearance granted vide letter no.J-11015/375/2013-IA.II(M) dated 16.10.2020 for mining of bajri (Minor Mineral) with proposed production capacity 3.20 MTPA in the mine lease area of 5269.0 ha located at revenue villages of Tehsil Jalore, District Jalore. The mine lease area fall in Survey of India Toposheet No.45C/3, 45 C/4, 45 C/7 and 45 C/8 and between the Latitudes from 25°19'59.44"N to 25°23'58.1"N and Longitudes from 72°23'54.75" E to 72°39'23.079"E3.

2. Earlier, the EC letter no. J-11015/375/2013-IA.II (M) was granted on 16.10.2020 which was extended vide letter dated 27.08.2021 and valid till 31st March, 2022. The project proponent has submitted the Form-6 for extension of validity of EC.

3. The Department of Mines and Petroleum and Department of Mines and Geology, Govt. of Rajasthan vide letter dated 15.03.2022 and 24.03.2022 requested for validity of extension of 6 ECs which were granted in the year 2020. Further, the Directorate of Mines and Geology, Govt. of Rajasthan vide letter dated 30.03.2022 informed that the mine lease is valid up to 14.07.2022.

4. The proposal was considered in the 48th EAC meeting held during 28th to 30th March 2022. After detailed deliberations, the Committee recommended for Extension of Validity of Environmental Clearance vide letter no. J-11015/375/2013-IA.II (M) dated 16.10.2020 for extraction of mining of bajri (minor mineral) with proposed production capacity of 5.0 Lakh tons for remaining period i.e. up to 14.07.2022 (not exceeding 1.65 Lakh Tons per month) of sand/bajri from 146.62 ha located at revenue villages namely Shiyana, etc. Tehsil Jalore, District Jalore by M/s. SatyaSwaroop Singh Jadaun, Rajasthan. The permissible mineable material 1.65 Lakh Tons per month will be valid till validity of lease period i.e., upto 14.07.2022 with subject to the following specific conditions:

- i. The EC shall be valid till 14.07.2022.
- ii. The project proponent shall not exceed the production of 1.65 Lakh Tons per month up to 14.07.2022. Any shortfall cannot be carried forward to another month.
- iii. The project proponent shall complete the plantation as per the EC letter dated 16.10.2020.
- iv. The project proponent shall submit the monthly data of the production details and the compliance of plantation of earlier EC letter dated 16.10.2020 to the Rajasthan Government.
- v. All terms and conditions shall remain unchanged as per the EC letter dated 25.02.2016 and 16.10.2020.

3.15 River Sand Mining Project with Production Capacity of 2.80 Lakh TPA in 29.325 Ha out of ML of 773.27 Ha of M/s Himmat Singh Shekhawat, located at Village: Revenue, Tehsil: Nathdwara, Distt: Rajsamand, Rajasthan - Extension of Validity of Environmental Clearance

EAC Meeting Details:

EAC Meeting	48 th EAC Meeting
Date	28 th to 30 th March 2022

The proposal of Shri Himmat Singh Shekhawat vide proposal no. IA/RJ/MIN/253170/2022 in respect of mining of Bajri (Minor Mineral) with proposed capacity of 2.80 Lakh TPA (RoM). The Mine lease is located near village Namana, Khedana, KumariyaKheda, Ulpura, Kothariya, Kallakhedi, KarjiyaGhati, Gunjol, Kuncholi, Kunthwa, Bagol, Gudla, Dhanyla, Paneriyo Ki Madri, Joshiyo Ki Madri, Tantol, Sarsuniya, Khamnor, Molela, Khedi, Dabun, Saloda, Karai, Sema, ChotaBhanuja, BadaBhanuja of Tehsil: Nathdwara, District: Rajsamand, Rajasthan. The Coordinate of river (Berach&Lapli River) having Latitudes 24° 54' 49" N to 25° 01'13" N and Longitudes 73°37'19" E to 73° 56'10" E. The project falls under Seismic Zone II.

2. Earlier, the EC letter no. J-11015/211/2013-IA. II (M) was granted on 04.08.2020 which was extended vide letter dated 27.08.2021 and valid till 31st March, 2022. The project proponent has submitted the Form-6 for extension of validity of EC.

3. The Department of Mines and Petroleum and Department of Mines and Geology, Govt. of Rajasthan vide letter dated 15.03.2022 and 24.03.2022 requested for validity of extension of EC which was granted in the year 2020. Further, the Directorate of Mines and Geology, Govt. of Rajasthan vide letter dated 30.03.2022 informed that the mine lease is valid up to 21.02.2023.

4. The proposal was considered in the 48th EAC meeting held during 28th to 30th March 2022. After detailed deliberations, the Committee recommended for Extension of Validity of Environmental Clearance vide letter no. J-11015/211/2013-IA. II (M) dated 04.08.2020 of River Sand Mining Project with Production Capacity 25,000 tons per month in the mine lease area of 29.325 Ha out of ML of 773.27 Ha of M/s Himmat Singh Shekhawat, located at Village:Revenue, Tehsil:Nathdwara, Distt: Rajsamand, Rajasthan. The permissible minable material 25,000 tons per month will be valid till validity of lease period up to 21.02.2023 with subject to the following additional specific conditions:

- i. The EC shall be valid till 21.02.2023.
- ii. The project proponent shall not exceed the production of 25,000 tons per month up to 21.02.2023. Any shortfall cannot be carried forward to another month.
- iii. The project proponent shall complete the plantation as per the EC letter dated 04.08.2020.
- iv. The project proponent shall submit the monthly data of the production details and the compliance of plantation of earlier EC letter dated 04.08.2020 to the Rajasthan Government.

- v. All terms and conditions shall remain unchanged as per the EC letter dated 04.08.2020.

3.16 Mining of Sand (Minor Mineral) with proposed production capacity of 2.80 Lakh TPA (ROM) in 10.399 Ha out of ML area of 489.39 Ha by M/s Narrotham Singh Jadaun, located at Revenue Villages of Tehsil and District - Rajsamand, Rajasthan –Extension of Validity of Environmental Clearance

EAC Meeting Details:

EAC Meeting	48 th EAC Meeting
Date	28 th to 30 th March 2022

The proposal of M/s Narrotham Singh Jadaun vide proposal no. IA/RJ/MIN/253186/2022 in respect of Mining of Sand (Minor Mineral) with proposed production capacity of 2.80 Lakh TPA (RoM). The mine is located at Revenue Villages viz. Nogama, Emri, Bhatoli, Amloi, Mohi, Pipaliacharyan, Barliya, Chhaparkheri, Khatamala, Dhanyala, Ummedpura, Karera, Deviyokamerda and Arawara of Tehsil and District-Rajsamand, Rajasthan in the MLA of 489.39ha. The geographical extents of mining lease area are Latitude: 25°00'20.06" N to 25°13'33.7" N and Longitude: 73°49'26.6" E to 74°00'28.2" E. The project is located in seismic zone-II.

2. Earlier, the EC letter no. J-11015/227/2013-IA. II (M) was granted on 04.08.2020 which was extended vide letter dated 27.08.2021 and valid till 31st March, 2022. The project proponent has submitted the Form-6 for extension of validity of EC.

3. The Department of Mines and Petroleum and Department of Mines and Geology, Govt. of Rajasthan vide letter dated 15.03.2022 and 24.03.2022 requested for validity of extension of EC which was granted in the year 2020. Further, the Directorate of Mines and Geology, Govt. of Rajasthan vide letter dated 30.03.2022 informed that the mine lease is valid up to 26.02.2023.

4. The proposal was considered in the 48th EAC meeting held during 28th to 30th March 2022. After detailed deliberations, the Committee recommended for Extension of Validity of Environmental Clearance vide letter no. J-11015/227/2013-IA. II (M) dated 04.08.2020 for Mining of Sand (Minor Mineral) with proposed production capacity of 25,000 tons per month in 10.399 Ha out of ML area of 489.39 Ha by M/s Narrotham Singh Jadaun, located at Revenue Villages of Tehsil and District-Rajsamand, Rajasthan. The permissible minable material 25,000 tons per month will be valid till validity of lease period up to 26.02.2023 with subject to the following additional specific conditions:

- i. The EC shall be valid till 26.02.2023.

- ii. The project proponent shall not exceed the production of 25,000 tons per month up to 26.02.2023. Any shortfall cannot be carried forward to another month.
- iii. The project proponent shall complete the plantation as per the EC letter dated 04.08.2020.
- iv. The project proponent shall submit the monthly data of the production details and the compliance of plantation of earlier EC letter dated 04.08.2020 to the Rajasthan Government.
- v. All terms and conditions shall remain unchanged as per the EC letter dated 04.08.2020.

List of members of Expert Appraisal Committee participated through VC

S.No.	Member Name	Member Address	Designation	28 th Mar , 2022	29 th Mar , 2022	30 th Mar , 2022
1	Dr. S.R. Wate	Add. 148/149, Nagar Vikas Society, Narendra Nagar, Nagpur- 440015, Maharashtra	Chairman	Yes	Yes	Yes
2	Dr. Ajay Deshpande	Building A-26, Flat- 403, Happy Valley Homes, Manpada, Ghodbunder Road, Thane (West) - 400610, Maharashtra	Member	No	No	Yes
3	Shri B Ramesh Kumar	H-No. 6-1-134/6, Balram Compound, Padmarao Nagar, Secundrabad- 500025, Andhra Pradesh	Member	Yes	Yes	Yes
4	Prof. S. Ramakrishna Rao	50-120-9/1, Tulasi Mani Regency North Extension, Seethammadhara, Visakhapatnam - 530013 Andhra Pradesh.	Member	Yes	Yes	Yes
5	Shri Santosh Gupta	Flat No. 405, Block -B, Gaur Green Vista, NyayKhand - 1, Indrapuram, Ghaziabad- 201014	Member	Yes	Yes	Yes
6	Dr. Asha Rajvanshi	B-104/106 rockvalley Apartments, General Mahadev Singh Road, SewlaChowk, Majra, Dehradun - 248001	Member	Yes	Yes	No
7	Shri G.P.	Plot No. 32, MOIL	Member	No	No	No

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	Kundargi	Vatika, Chicholi Road, Fetri, Nagpur 441501, Maharashtra				
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	Yes
9	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	Yes
10	Dr. Parimal Chandra Bhattacharjee	A/3 Asiyana Housing Complex Maligaon, Guwahati-781011, Assam	Member	Yes	Yes	Yes
11	Prof. MukeshKhare	Department of Civil Engineering, IIT, Delhi	Member	Yes	Yes	Yes
12	Shri V. K. Soni	Government of India, Ministry of Earth Sciences, India Meteorological Department, MausamBhawan, Lodi Road, New Delhi – 110003	Member	No	No	No
13	Shri Pankaj Kulakshethra	Regional Controller of Mines, IBM Block D, Second Floor, Indira Bhavan, Civil Lines, Nagpur - 440001	Member	No	No	No
14	Shri Ram Avatar	Representative of DGMS	Member	No	No	No
15	Shri Gowrappan	No. 6, Ganesh Avenue II Street, Shakti Nagar, Porur, Chennai, Tamil	Special Invitee	No	Yes	No

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		Nadu - 600116				
16	Shri B. S. Sodha	Additional Director, Deptt. Of Mines and Geology, Govt. of Rajasthan	Special Invitee	No	No	Yes
17	Shri Pankaj Verma	2 nd Floor, Prithvi Block, Indira Paryawaran Bhawan, MoEF&CC, Jorbhag, New Delhi- 110003	Member Secretary	Yes	Yes	Yes