

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

SUMMARY RECORD OF 43rd MEETING OF THE COMMITTEE OF THE EXPERT APPRAISAL COMMITTEE FOR ENVIRONMENTAL APPRAISAL OF NON-COAL MINING PROJECTS CONSTITUTED UNDER THE EIA NOTIFICATION, 2006.

The 43rd 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 14th – 16th December, 2021 through video conference. The list of participants is annexed herewith. After login of the Committee Members through video conference link provided by NIC, discussion on each of the Agenda Items was taken up ad-seriatim.

(1.0.0) Deliberation & Circulation on the Minutes of the 42nd EAC meeting held during 30th November to 3rd December, 2021.

The minutes of 42nd EAC meeting held during 30th November to 3rd December, 2021 were placed before the members of the Committee.

Day 1: 14th December, 2021 (Tuesday)

1.1 Proposal of M/s Ultra Tech Cement Ltd is for mining of limestone in Bela Cement Limestone Mine - 01 with production capacity of 1.5 Million TPA (ROM) Limestone, 0.57 MTPA overburden (Total excavation: 2.07 MTPA) in the mine lease area of 415.097 ha, located at Village – Devra, Tehsil – Rampur Baghelan and Village – Kothar, Tehsil – Amarpatan, District – Satna, Madhya Pradesh – [File. No: IA-J-11015/4/2018-IA-II(M); Proposal No: IA/MP/MIN/71986/2017, Consultant: M/s J.M. EnviroNet Pvt. Ltd.] - Environmental Clearance (EC).

EAC Meeting Details:

EAC meeting	43 rd
Date of Meeting	14 th December – 16 th December, 2021

The proposal of M/s Ultra Tech Cement Ltd is for mining of limestone in Bela Cement Limestone Mine - 01 with production capacity of 1.5 Million TPA (ROM) Limestone, 0.57 MTPA overburden (Total excavation: 2.07 MTPA) in the mine lease area of 415.097 ha, located at Village – Devra, Tehsil – Rampur Baghelan and Village –

Kothar, Tehsil – Amarpatan, District – Satna, Madhya Pradesh. The mine lease area is located between Latitude 24°29'55" N to 24°31'33" N and Longitude 81°07'52" E to 81°09' 26" E. The mine lease area falls under the Survey of India Toposheet No: 63 H/2 and falls in Seismic Zone-II. The PP presented the KML file during the presentation to indicate the location of mine lease on Google Earth.

2. M/s Ultra Tech Cement Ltd has made an online application vide proposal no: IA/MP/MIN/71986/2017 dated 01.12.2021 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 Terms of Reference (ToR) are furnished as below:

Date of application	Proposal No	Consideration	Details	Date of accord
31.12.2017	IA/MP/MIN/71986/2017	18-19 th Jan, 2018, 22-23 rd Mar, 2018, 19-20 th July, 2018, Site visit by sub-committee 20-21 Aug, 2018 and in EAC on 28-29 th Sep, 2018	Production of 1.5 million TPA (ROM) Limestone in the mine lease area of 415.097ha	19.11.2018

4. The Project Proponent submitted that the Letter of Intent of Bela Cement Limestone Mine – 01 (BCLM – 01) (ML area 415.097 ha) at village- Devra Tehsil- Rampur Baghelan and village- Kothar, Tehsil- Amarpatan, District - Satna (Madhya Pradesh) was issued in the favor of M/s Jayprakash Associates Limited vide letter no F - 3- 25/2016/12-1 dated 28.12.2016 by Dept. of Mineral Resources, M.P. Government. The Mining lease was granted in favor of M/s Jaiprakash Associates Limited Vide order no. F-3- 25/2016/12/1 dated 13.04.2017. In the meantime, Jaiprakash Associates Ltd ("JAL") and Jaypee Cement Corporation Ltd. ("JCCL") Business was transferred to UltraTech Cement Ltd (UTCL) by National company Law Tribunal Bench (NCLTB) at Mumbai on 15.02.2017 in case of UTCL and NCLTB at Allahabad on 02.03.2017 in case of Sellers. Henceforth, the Jaypee Bela Plant and Mines of M/s Jaiprakash

Associates Ltd and M/s Jaypee cement Corporation Ltd. along with all the contracts, deeds, approvals, schemes, etc. have been transferred to UltraTech Cement Ltd (Unit: Bela Cement Works). An order regarding transfer of lease from M/s Jaiprakash Associates Ltd. to UltraTech Cement Ltd. was issued dated 08.06.2017 by Dept. of Mineral Resources, M.P. Government. Subsequently, a deed for transfer of mining lease has been registered dated 13.07.2017 from State Govt and executed in favor of M/s UltraTech Cement Ltd on 18.08.2017. Then the executed transfer lease deed was registered between the Governor of Madhya Pradesh and M/s UltraTech Cement Limited vide No: MP3486220r7A1493886 dated 28.08.2017 for the period up to 04.05.2067.

5. Land Area Breakup:

Private land	400.759 ha
Government land	14.338 ha
Total Mining lease area (MLA)	415.097 ha
Private land for crusher, workshop & other infrastructure outside the MLA	No infrastructure is proposed outside the ML area

6. The Project Proponent submitted that the Mining Plan with Progressive Mine Closure Plan approved by IBM vide letter no MP/Satna/Limestone/MPLN/G-16/16-17/744 dated 23.02.2017 in the name of M/s Jaiprakash Associates Ltd. over an area of 415.097ha. Then, PP obtained the transfer Letter from IBM vide Lr No. F.No 716/5/C/2017 for change of company name from M/s Jaiprakash Associates Ltd. to M/s UltraTech Cement Ltd in respect of approved Mining Plan of Devra Limestone Mine Deposit over an area of 415.097ha.

7. The Project Proponent submitted that Mining will be carried out by fully mechanized opencast method with deep hole drilling and blasting. PP estimated that total Geological Reserves are 48.12 Million Tonnes and Mineable Reserves are 42.65 Million Tonnes. Life of the mine will be about 35 years. PP reported that the bench height of 8m and bench width of 20m. Overall pit slope will be 45°. The drilling will be done with the help of 115/151 mm dia. Total 985 Kg/day of explosives will be used per day. The blasted limestone will be loaded into dumpers with the help of hydraulic excavators. 2 no. of Komatsu PC-600 or CK-300 & BEML 650 with 3.8 to 4.1 cum bucket capacity each are planned to engage for loading operations. The excavated limestone will be transported to crusher plant (located in Cement Plant) by dumpers

covering a distance of 4 km. 4 to 8 no. of heavy-duty dumpers with 60 tonne carrying capacity each will be deployed for the purpose. During the first five years of mining, the OB generated will not be backfilled in the mined-out area but will be stored as temporary dump in the ML area. No external dumps are proposed in the area. Up to the life of mine, 26.63 Million Tonne of OB and 7.35 Million Tonne of overburden soil including topsoil will be generated. Overburden will be backfilled and same will be reclaimed by plantation and soil will be used for spreading purpose in backfilled area PP reported that the ultimate depth of mining will be 286 m AMSL (33m bgl) and water table is found at depth of 22-28m bgl (Post-Monsoon) & 28-30 m bgl (Pre-Monsoon) and there will be ground water intersection.

8. The Project Proponent submitted the letter from Office of Collector (Department of Mines), Satna vide Lr No 1685/Mineral/2018, dated 11.06.2018 which inter-alia mentioned that during inspection of Aaraji Kha No. 31,32,33,34,35 of Village Kothar of Tehsil-Amarapatan, a old excavated pit was found which was collated with official records. After Collation, it was observed that as per the provisions of Rule 68 (1) of Major Mineral Rule 1996 M.P., Temporary Permit for Limestone in total area of 1.610 ha of Aaraji Kha No. 31,32,33,34,35 of Village Kothar was granted in favour of M/s.Dilip Buildcon Limited Company vide Official Letter No. 502/Mineral/2013, Satna dated 08.03.2013. After issuance of temporary permit, M/s Jai Prakash Associates Limited, Cement Division, J P, Rewa Plant, Rewa submitted an objection. In objection, it was written that prospecting license was issued to the above company for total area of 415.460 ha in Village Kothar of Tehsil-Amarpatan for area of 184.565 ha and in Village Devra of Tehsil Rampur-Baghelaun in District-Satna vide Order No. F-24/2008/12/1 Bhopal dated 25.11.2009 of Mineral Resources Department, Government of Bhopal wherein above granted temporary permit of Aaraji Kha No. 31,32,33,34,35 is included. After, inspection, objection was found correct and work was stopped by cancelling granted temporary permit vide Official Letter No. 952/Mineral/2013 Satna dated 27.05.2013. Mining operation has been carried out by M/s.Dilip Buildcon Limited Company in the above area. Excavation operation has not been carried out by M/s UltraTech Cement Limited.

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

Particulars	Particular's Name	Distance & Direction
Nearest village	Devra & Kothar	Habitation falls within the lease area
Nearest Town / City	Rampur Baghelan	~6.5 km, W
Nearest State/ National Highway	NH-7 (New name – NH 30) NH-75 (New Name- NH39)	~1.5 km, SE ~500 m, S

Nearest Railway Station	Turki Road Railway Station	~3.0 km, NNW
	Baghai Road Railway station	~8.0 km, WNW
Nearest water bodies	Nallah	Passing through the lease area
	Kariari Nadi	~2.0 km, N
	Canal	~4.5 km, N
	Lilji Nadi	~5.0 km, SE
	Dharm Sagar	~4.0 km, E

10. Water requirement:

Total water requirement	90.0 KLD	Fresh water	90.0 KLD
		Treated water	-
Source	Ground water (bore wells) will be sourced from cement plant and remaining quantity will be met from rain water stored in sump of existing mine and sump of this mine as and when developed.		
Permission	<p>i. NOC obtained vide CGWA/NOC/MIN/ORIG/2021/13856 dated 30.11.2021 for fresh water abstraction of 90m³/day and dewatering of 393.0 m³/day for the period up to 29.11.2023.</p> <p>ii. NOC for Ground Water withdrawal obtained for Cement Industry vide CGWA/NOC/IND/ORIG/2018/4220 dated 05.11.2018.</p>		

11. 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	PP reported that there is no forest land involved within the mine lease area and there is no National Park, Wildlife Sanctuary, Wildlife Corridors, Elephant/Tiger Reserves found within 10km radius. In support of this, PP obtained the Letter from PCCF vide letter no. va.pra./ ma.chi/ultra-bela/mine-77/7174 dated 28.09.2021.
National Park	No	
Wildlife Sanctuary	No	
Elephant/Tiger Reserve	No	
Biosphere Reserve	No	

Details of Availability of Schedule-I species in study area.

Schedule-1 species	Yes/No	Details of Certificate/letter/Remarks
Schedule-I species	No	PP reported that there is no Schedule I species within

		the mine lease area and in 10km radius from the periphery of the mine lease area. In support of this, PP submitted the letter obtained from PCCF vide letter no. va.pra./ma.chi/ultra-bela/mine-77/7174 dated 28.09.2021.
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12. Green belt/plantation details:

Proposed area for green belt/plantation	PP reported that 198.668 ha under greenbelt/ plantation and 39.95 ha under re-grassing on backfilled area.
Budget for green plant& plantation till the end of life of mine.	Rs 19.61 Crore
Budget for nursery	No provision for nursery
Particulars for Green belt/plantation	Area covered (in Ha)
7.5 m barrier & non-mineralized zone	19.657 ha 7.5 m barrier zone
50 m safety zone of nallah, roads, electric lines	12.70 ha
500 m safety zones of nearest habitation villages	
Additional information (if any)	6.5 ha (upper two worked out benches) and 159.811 ha (Backfilled area)

13. Baseline detail:

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

Period	October – December, 2018				
AAQ parameters at 17 locations	Pollutant	Min, $\mu\text{g}/\text{m}^3$	Max, $\mu\text{g}/\text{m}^3$	98 %le, $\mu\text{g}/\text{m}^3$	Standard, $\mu\text{g}/\text{m}^3$
	PM2.5	24.6	54.7	54.0	60
	PM10	56.7	85.8	85.2	100
	SO2	6.2	16.4	16.1	80
	NOx	10.2	25.6	25.2	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	39.8	0.7	40.5	60

	PM10	71.2	1.4	72.6	100
	SO2	11.9	1.0	12.9	80
	NOx	16.1	1.3	17.4	80
Noise level at 17 locations	Day Time: 50.3 to 70.3 Leq dB (A) Night Time: 40.0 to 61.7 Leq dB (A)				
Ground water quality at 14 locations	pH of collected water samples varied from 7.57 to 7.98. Total hardness varied from 236.9 mg/l to 421.9 mg/l, Total dissolved solids varied from 388 mg/l to 697 mg/l, Alkalinity varied from 186.5 mg/l to 297.2 mg/l, Total Coliform & E.Coli were absent in the samples analysed. Ground water is suitable for drinking without disinfection/treatment.				
Surface water quality at 6 locations	pH of collected water samples ranged between 7.65 to 7.95, Total hardness varied from 75.24 mg/l to 209.65 mg/l, Total Suspended Solid varied from 1.2 mg/l to 2.7 mg/l, Total dissolved solids varied from 132 mg/l to 278 mg/l, BOD varied from 3.8 mg/l to 13.9 mg/l, COD varied from 14.6 mg/l to 33.52 mg/l and DO varied from 5.4 mg/l to 6.3 mg/l. The analysis reveals that all the parameters are well with the limits of drinking water standards IS – 10500: 2012 and surface water bodies can be used for drinking purpose directly except Rani Talab where water can be used for other purposes and for drinking it can be used only after treatment.				
Soil quality at 14 locations	The soil samples exhibit Black, Brown & Blackish Brown color which indicated that the soil has high organic matter content which varied from 0.77% to 1.15%. pH ranged from 7.47 to 8.01 indicated slightly alkaline to basic in nature. The textures found out to be Silt clay loam and clay loam indicating that the soil contains 27 to 40 % of clay and 20 to 45 % of sand. Soil characteristics reflects that the soil is appropriate for the plant growth.				

14. Public Hearing (PH) Details:

Advertisement for PH with date	PP reported that an advertisement for PH has been published on news papers on 17.12.2020 (Star Samachar Satna & Vindhya Bharat Samachar) and 20.12.2020 (Patrika Samachar Patra). PP also submitted that reminder for PH has been published on 18.01.2021 (Reminder PH news and Virtual Link).
Date of PH	20.01.2021.
Venue	Govt. Primary School Kothar, Tehsil-Amarpatan, Dist-Satna (M.P.)
Chaired by	i. Upper Collector (Ms. Vimalesh Singh)

	ii. Regional Officer, MPPCB-Satna (Dr. A. K. Shrivastav)
Main issues raised during PH	Major issues raised during PH are provision of road, school, health care facilities, anganwadi construction, drinking water, LED lights etc.
Budget proposed for addressing issues raised during PH	Rs 3.57 Crore-Capital Rs 0.28 Crore/annum-Recurring

15. Court case details:

Court Case/litigations	No
Additional information (if any)	PP submitted that FIR has been lodged against the illegal crusher installed in the proposed mining lease area. Letter has been written to concerned authorities on 11.08.2018, 13.08.2018, 21.08.2018, 10.10.2018, 21.01.2019 and 02.01.2019, 05.01.2020 & 20.05.2020. Following Security precautions to restrict the not to take material from the inside the Mine lease area will be adopted: <ul style="list-style-type: none"> i. SISF deployed ii. The Company have constructed Earthen berm all along the existing working pits and making Trench and displayed safety cautionary board to restrict the unauthorized entry

16. Rehabilitation & Resettlement (R&R):

R & R details	<ul style="list-style-type: none"> i. PP submitted that the total mine lease area is 415.097 ha, out of which 14.338 ha is Government land and 400.759 ha is a private land. ii. Out of the total 400.759 ha Private land, 55.275 ha land has been acquired & 345.483 ha land will be acquired under the "Right to fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Act-2013 (LARR Act, 2013)" and Mutual Agreement. iii. There are 452 Project Affected Families, out of which total 395 families are having land within the Mining Lease Area. iv. 57 houses exist in ML area, out of which 46 from Devra Village & 11 from Kothar village. v. Budget proposed for the R&R Action plan is Rs. 142.643 Crore.
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17. Affidavit/Undertaking details:

Affidavit in a Non-Judicial stamp paper of Rs 100 bearing BL 348624 dated 04.12.2021 as per Ministry's OM dated 30.05.2018	The company hereby undertake by affidavit that it will 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.
Project Proponent submitted an Undertaking dated 30.11.2021	The conditions laid down in Terms of Reference prescribed by MoEF&CC, New Delhi, vide Letter No. J-11015/04/2018-IA.II (M) dated 19.11.2018 in favor of M/s UltraTech Cement Limited have been complied with, and the data submitted and the information presented in this report are factually correct.
Consultant submitted an Undertaking dated 30.11.2021	The Consultant submitted an undertaking to the effect that the Terms of Reference prescribed by MoEF&CC, New Delhi vide Letter No. J11015/04/2018-IA.II (M) dated 19.11.2018 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, Jabalpur and the data submitted are factually correct.
Plagiarism Certificate checked on 29.11.2021	The Head of the Accredited Consultant Organization/ Authorized person certified that this EIA Report has been evaluated by using online software viz., Plagiarism Checker X (https://plagiarismcheckerx.com/). The report produced has been analyzed by the system and based on it, I certify that the EIA Report produce in accordance with good scientific practice.

18. Details of the EMP:

Activities	Capital cost (Rs Crores)	Recurring cost (Rs Lakhs/annum)
Environment Management Plan	3.64	82
Public Hearing	3.57	28
Total	7.21	110

19. Details of project cost and employment:

Particulars	(Rs. In Crore)
Capital Cost for Environment Protection	3.64
Budget for addressing the Public Hearing issues	3.57
Total Cost for EMP	7.21

Recurring Cost for EMP	1.1
Project Cost	168.04
Employment	74 persons

20. Observation and Recommendation of the Committee:

The proposal for Environmental Clearance was considered in the 43rd EAC (Non-Coal Mining) meeting held during 14th-16th December, 2021. After detailed deliberations made by the Project Proponent and the Consultant, the Committee noted that there are few crushers operating illegally in the mine lease area and there is also a diversion of nalah inside the mine lease area due to illegal mining. The Committee observed that the diverted nalah is falling inside the mine lease area, however, PP could not submit the restoration plan for diversion of nalah and measures taken for protection of natural drains within the lease area. The Committee also noted that households are found inside and outside mine lease area, also noted that one primary school exists inside the mine lease area and PP could not submitted the action plan for measures taken for the protection of nearby households and Primary school therefore, the Committee **deferred** the proposal for want of following additional information: -

- i. The Project Proponent shall submit the detailed measures taken in compliance of the MoEF&CC Office Memorandum No. Z11013/57/2014-IA.II (M), dated 29th October, 2014.
- ii. The Project Proponent needs to submit the restoration plan for all ready diverted nalah inside the mine lease area and the measures taken in such a way that flow of nalah shall not be disturbed and should reach the river even after start of the mining activity.
- iii. The Committee noted that the Villages such as Devra and Kothar and a Primary School (225 no.s) in Village Kothar falls within the mine lease area. Hence, the Project Proponent needs to submit the mathematical modeling for anticipated ground vibration due to blasting. PP needs to provide the details of the nearest village/structure, nearest distance from the blasting zone, quantity of explosives used, kg and PPV, mm/s. The results are to be compared with the limiting values prescribed by Director General of Mine Safety (DGMS). Accordingly, PP should submit the measures taken for protection of Village and School within the mine lease area.
- iv. The Project Proponent needs to submit the measures taken for protection of the shops/infrastructures along the road and has to examine the feasibility of

- installing a permanent continuous monitoring station with proper justification of site selection.
- v. The Project Proponent submitted that 217 no. of trees are to be removed in this instant project. Hence, PP needs to submit the compensatory afforestation plan along with the timeline and budget allotted.
 - vi. The Project Proponent needs to submit the action plan for judicial consumption for creation of water reservoir of 100.479ha for the benefit of the local people.
 - vii. The Project Proponent should revise the EMP cost by removing the budget allocated for permanent water sprinkling arrangements for main haulage road (1.5km) and one tanker mounted (10KL) water sprinkling system for approach roads & for mining activities.
 - viii. The Project Proponent needs to clearly bring out the land use/land cover classification of the mine lease area of 415.097 ha along with the ownership of the land.
 - ix. The Project Proponent needs to submit the timeline for land acquisition of 345.48 ha in the mine lease area.
 - x. The Project Proponent needs to submit the timeline for stopping the crusher operation in the mine lease area.
 - xi. The Project Proponent needs to submit the copy of FIR filed against Stone Crushers operating within the lease area in the PARIVESH portal.
 - xii. The Project Proponent needs to submit all the analysis/testing reports of water, air, soil, noise, etc. using the MoEF&CC/NABL accredited laboratories.

1.2 Proposal for Terms of Reference (ToR) of M/s. SreeJayajothi Cements Private Limited for Gorlagutta Limestone Block (Auction Block) for Total Excavation: 3.8 MTPA (Limestone: 0.8 MTPA + Over Burden: 3.0 MTPA & Top Soil: Nil) in 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/241132/2021] - Terms of Reference (ToR)

EAC Meeting Details:

EAC meeting	43 rd
Date of Meeting	14 th December – 16 th December, 2021

The proposal of M/s. SreeJayajothi Cements Private Limited is for grant of Terms of Reference (ToR) for Gorlagutta Limestone Block (Auction Block) for Total Excavation: 3.8 MTPA (Limestone: 0.8 MTPA + Over Burden: 3.0 MTPA & Top Soil: Nil) in 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.

2. M/s. SreeJayajothi Cements Private Limited 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 for the project mentioned above. 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. **Observation and Recommendation of the Committee:**

The proposal for Terms of Reference was considered in the 43rd EAC (Non-Coal Mining) meeting held during 14th-16th December, 2021. 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 – 16th December, 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.**

1.3 Proposal of M/s Tata Steel Limited is for Joda East Iron mine with expansion of production of Iron ore from 12.0 MTPA to 19.5 MTPA (ROM) with total excavation of 22.94 MTPA and Beneficiation Plant throughput capacity increase from 12.0 MTPA to 17.6 MTPA in the mine lease area of 671.093 ha, located at Villages Joda, Kamarjoda, Banspani, Khuntpani& Baitarani Reserve Forest (R.F) in Barbil Taluka, Keonjhar District, Odisha – [File. No: J-11015/215/2008-IA.II(M); Proposal No: IA/OR/MIN/240369/2020, Consultant: M/s Vimta Labs Limited] - Environmental Clearance (EC) regarding.

EAC Meeting Details:

EAC meeting	43 rd
Date of Meeting	14 th December – 16 th December, 2021

The proposal of M/s Tata Steel Limited is for Joda East Iron mine with expansion of production of Iron ore from 12.0 MTPA to 19.5 MTPA (ROM) with total excavation of 22.94 MTPA and Beneficiation Plant throughput capacity increase from 12.0 MTPA to 17.6 MTPA in the mine lease area of 671.093 ha, located at Villages Joda, Kamarjoda, Banspani, Khuntpani & Baitarani Reserve Forest (R.F) in Barbil Taluka, Keonjhar District, Odisha. The mine lease area is located between Latitude 21°59' to 22°03' N and Longitude: 85°25' to 85°27' E. The mine lease area falls under the Survey of India Toposheet No: 73 F/8 and 73 G/5 and falls in Seismic Zone-II. The PP presented the KML file during the presentation to indicate the location of mine lease on Google Earth.

2. M/s Tata Steel Limited has made an online application vide proposal no: IA/OR/MIN/240369/2020 dated 30.11.2021 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 and 2(b) Mineral beneficiation 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
26.09.2011	IA/OR/MIN/20472/2011	-	enhancement of production of ROM of iron ore from 6 MTPA to 12 MTPA and expansion of beneficiation plant from 6 MTPA to 12 MTPA throughout for 567.087ha of forest land for which FC is available and 62.187 ha of non-forest land, i.e., a total of 629.274 ha.	11.03.2013
PP applied on 07.05.2018 for amendment in EC dated 11.03.2013.	IA/OR/MIN/61373/2013	June 21-22, 2018	The Committee clarified that there is no change in the definition of ROM and the Environmental Clearance was granted for 12.0 million TPA of Iron ore (ROM) as mentioned in EIA/EMP report and approved mining plan. The PP shall handle the material other than ROM as per approved Mining Plan	07.09.2018

			and EIA/EMP report submitted to the Ministry	
PP applied on 31.03.2019 for amendment in EC dated 11.03.2013	IA/OR/MIN/99283/2019	30 th May, 2019	In respect of modernization of beneficiation plant.	29.07.2019
Details of Environmental Clearance for Mn Mines.				
-	Ref No. SEIAA/329	-	Production of 12,000 TPA Manganese ore and Slime storage facility to reclaim a part of the mined-out pit over a lease area of 16.35 ha	29.06.2011
28.04.2016	Ref No. SEIAA/1925	-	Extension of validity of Environmental Clearance for up to 30 years or up to the lease period or the life of the mine whichever is less.	31.08.2016

4. The details of the Terms of Reference (ToR) are furnished as below:

Date of application	Proposal No	Consideration	Details	Date of accord
31.07.2020	IA/OR/MIN/166045/2020	20 th Aug, 2020	Expansion of its mine from 12 MTPA to 19.5 MTPA ROM with total excavation of 22.14 MTPA, and its beneficiation plant throughput capacity is planned to increase from 12 MTPA to 17.6 MTPA in the mine lease area of 671.093 ha along with the recommendation made by NEERI in its carrying capacity study for Odisha.	18.09.2020
01.12.2020	IA/OR/MIN/166045/2020	-	Corrigendum in ToR for change in total excavation of 22.94 MTPA instead of 22.14 MTPA.	09.08.2021

5. The Project Proponent submitted that the lease block of Joda East Iron Mine covering an area of 671.093 ha along with the adjoining region was secured by M/s

TISCO Ltd under a prospecting license in the year 1916. The mining lease was granted in favor of M/s TISCO Ltd over an area of 2.59 sq.m for 30 years from 01.07.1925 to 30.06.1955 in village Joda east, Keonjhar District. The lease deed was executed on 12.02.1926 and registered on 29.04.1926. The 1st renewal of lease for Iron Ore over an area of 2.59 sq.m was granted for 30 years from 01.07.1955 to 30.06.1985 by Government order dated 21.08.1957. The lease deed was executed on 28.03.1956 and registered on 19.07.1956. The 2nd renewal of lease for Iron Ore over an area of 671.093ha was granted for 20 years from 01.07.1985 to 30.06.2005. The lease deed was executed on 18.12.1997 and registered on 20.01.1999. The PP made application for 3rd renewal of the mining lease on 27.04.2004 for Iron ore over an area of 671.093 ha which is before one year of the expiry of the 2nd RML period i.e. 30.06.2005 accordingly, Steel & Mines Department, Government of Odisha vide letter no. III(A) SM - 13/2012/3283/SM, Bhubaneswar dated 18.04.2015 have extended the validity period of above mining lease over an area of 671.093ha under MMDR Act, 1957 as amended by the MMDR Amendment Act, 2015 from 01.07.2015 to 31st March, 2030. The supplementary lease deed was executed on 05.05.2015.

6. The Project Proponent submitted that the Manmora Manganese lease was granted to Tata Steel for the mining of Manganese ore from the Joda East Mine lease area. The total Joda East Mine lease area is 671.093 ha out of which 16.35 ha of mine lease area is Manmora Manganese lease. Manmora lease lies in the northern part of the Joda East Mine lease area which is held by Tata Steel since 1966. Also, PP submitted that Manmora manganese mine is not operational as manganese ore is completely exhausted. PP also submitted that the Department of Steel & Mines, Govt. of Odisha vide letter no. III(MN)SM(RML)- 01/2008/3273/S&M, Bhubaneswar dated 06.05.2015 have extended the validity of the lease period up to 31.03.2030, issued by in compliance with MMDR Amendment Act 2015. The Supplementary Lease Deed was executed on 06.05.2015 and registered vide e-registration no. 11031500226 dated 07.05.2015. PP reported that no active mining operation has been carried out since 2010-11 within the lease as already all manganese ore has been mined out and only the manganese ore recovery from the available stocks of sub grade and mineral rejects was carried out along with some reclamation activities such as back filling, levelling, plantation, etc.

7. Land Area Breakup:

Forest Land	Area, ha	Non-Forest land	Area, ha
Reserve Forest	520.727	Waste Land	-
Khasra Forest	0.927	Grazing Land	-
Non-forest Govt. land treated as forest land as	87.252	Agriculture Land	-

per DLC Report			
Non-forest land treated as forest as on 25.10.1980 (SABIK)	16.574	Tenanted Land	7.754
		Others	37.859
Sub Total	625.480	Sub Total	45.613
Total	671.093 ha		

8. The Project Proponent submitted the Approval of Review of Mining Plan along with the Progressive Mine Closure Plan approved by Regional Controller of Mines, Indian Bureau of Mines vide letter no RMP/A/43-ORI/BHU/2019-20 dated 21.02.2020 for the period 2020-21 to 2024-25 for Joda East Iron Mine over an area of 671.093ha. PP also submitted that the Mining Plan & Scheme of Mining along with Progressive Mine Closure Plan of Manmora Mn mines approved by the Regional Controller of Mines, Indian Bureau of Mines vide letter no MS/OTFM/41-ORI/BHU/2014-15 dated 07.04.2015. The Final Mine Closure Plan is being prepared and will be submitted to IBM for approval.

9. The Project Proponent submitted that the opencast mechanized method of mining with the help of shovel-dumper combination has been adopted for mining of iron ore. PP reported that total Geological resources is 249.55 Million Tonnes and Mineable reserves is 188.52 Million Tonnes. Life of the mine will be 10 years. The bench height of 9m and bench width of 20-25m (at present) and 9-11 m (at conceptual Stage) will be maintained. The Overall pit slope will be 45°. The blasted material will be excavated by shovels of 5.7/5.9 cu.m capacity and loaded into 100 tonne dumpers for transportation of the ore, mineral reject and waste. At present, Joda East Iron ore mine is having both Wet and Dry processing facilities. The total existing capacity of dry processing and wet processing is 12.0 MTPA. ROM is fed to beneficiation and processing plant. After beneficiation and processing, product is transported through a series of closed conveyor belts for stacking. Stacked product is reclaimed as per blending requirement and transported again in closed conveyor belts to the Rapid Loading System (RLS) where product is loaded into railway wagons. Entire product is transported out of the lease to own steel plants & sister concerns only through rail. PP reported that the existing stock of Over-burden is 9.569 MT, Mineral Reject is 30.279 MT and Tailings is 11.24 MT. PP also reported that during plan period Over-burden of 10.19 MT, Mineral Reject of 4.8 MT (2.4 MT from existing stock will be re-handled and stored in specified dumps) and Tailings of 5.346 MT will be generated. Till the life of the mine, Over-burden of 19.21 MT, Mineral Reject of 5.2 MT and Tailings of 5.7 MT will be generated. PP submitted that during the plan period, it is proposed to dump the generated waste in five numbers of waste dumps. The part of the waste generated during the plan period shall be used for making the embankments of the in pit slime dam. Slime generated from the existing & proposed new beneficiation plants shall be stored in tailing dam 2. PP reported that

the ultimate depth of mining will be 486 mRL at Conceptual Stage and as per the observations from nearby wells and water bodies, the minimum depth of water table is 472mRL and maximum depth of water table is 463mRL. As all mining activity are concentrated on hill top, mining activity shall not intersect ground water table during the entire mine life.

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

Particulars	Details	Distance and Direction
Nearest Villages/Town	Joda	0.9 km, W
	Barbil	9.5 km, NW
Nearest Highway	NH-215	0.7 km, N
Nearest Railway station	Banspani	0.1 km, WSW
	Barbil	10.9 km NW
Streams/Rivers	Kundra Nala	0.2 km, NW
	Baitarani River	1.3 km, E
	Mahadeba Nala	4.0 km, NNE

11. Water requirement:

Total water requirement	Existing: 5000 m ³ /day; Proposed: 14556m ³ /day	Mine Dust Suppression	1800 KLD
		Domestic and Sanitation	200 KLD
		Beneficiation plant	4700 KLD
		Plantation	200 KLD
		Other Provisions (Supply to Ferro Alloy Plant, Domestic supply to colonies, Village Supply, Slurry Pipeline)	7656 KLD
Source	Kundra Nala		
Permission	i. NOC from CGWA for ground water withdrawal obtained vide NOC no. CGWA/NOC/MIN/REN/1/2021/6428 and is valid up to 09.10.2022 for abstraction of 460 cu.m/day of ground water. ii. Current surface water drawl permission for 9,052 KLD (3.70 cusecs) granted vide Memo no. 39937 dated 18.11.2015 by Water Resources Department, GoO. The approval for allotment of water has been obtained from IPICOL, GoO and further grant of permission by WRD is in process.		

12. The Project Proponent reported that the total mine lease area is 671.093 ha out of which 625.48 ha forest land and 45.613 ha is non-forest land. PP submitted that

MoEF & CC accorded Stage-II Forest Clearance vide letter no. F. No. 8-32/1993-FC (vol.II) dated: 24.09.2007 over an area 567.087 ha. For the balance forest area, PP applied for the diversion of 41.819 ha forest area which includes 32.425 ha of forest area & 9.394 ha of safety zone vide letter no. MD/LO/823/394/2006 dated 15.11.2006 and 16.574 Ha of Forest land vide letter No. JCO/13/453/5-B dated 01.07.2016. PP also submitted that payment for total NPV of Rs 37.50 Crores over an area of 625.48 ha and Compensatory afforestation (CA) of Rs.0.57 Crores over an area of 401.792 ha till date already made as per demand raised by forest officials. PP also reported that part of the lease is in Baitarani R.F and Sidhamath R.F (2.8 km, W), Thakurani R.F (0.8 km, N) and Chamakpur R.F (1.3 km, SE) are found in the 10km radius of the study area. Further, PP submitted that there are no National Park, Wildlife Sanctuary, Eco Sensitive Zone, Elephant/Tiger Reserve, Biosphere Reserve within 10km radius of the mining lease area.

13. The Project Proponent reported that following Schedule-I species such as Indian elephant, Sloth Bear, Pangolin Grey Wolf, Python, Common Indian Monitor, Peacock and Baza are reported in the study area of 10km radius. PP submitted that the Site-Specific Wildlife Conservation Plan (SSWLCP) along with the authenticated list of flora and fauna approved by Principal Chief Conservator of Forests (WL) & Chief Wildlife Warden, Odisha vide Memo 3195/1 WL-SSP-97/2016 dated 25.04.2016 with a budget of Rs.819.91 Lakhs.

14. The Project Proponent reported that the total area proposed for greenbelt/plantation will be 509.269 ha. PP also reported that 82,177 no. of saplings have been planted over an area of 61.653 ha till the FY 2019-2020. PP submitted that during plan period about 28,488 no.s of saplings will be developed over an area of 201.34 ha. PP earmarked a budget of Rs 16.62 Cr towards development of green plant & plantation till the end of life of mine.

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 Summer season. The Monitoring results of ambient air, surface water, soil, ambient noise and ground water for the month of March to May, 2020 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, 2020
Season (Summer / Pre-monsoon / Post-monsoon / Winter)	Summer season
Period	Results of Baseline monitoring

AAQ parameters at 10 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	26.5	44.9	44.6	60
	PM10	37.4	64.7	64.3	100
	SO2	8.3	16.2	16.2	80
	NOx	10.3	18.5	18.4	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	44.9	2.1	47.0	60
	PM10	64.7	8.1	72.8	100
	SO2	16.2	0.1	16.3	80
	NOx	18.5	5.5	24.0	80
Noise level at 11 locations	Day Time: 41.4 to 66.6 Leq dB (A) Night Time: 38.2 to 63.5 Leq dB (A)				
Surface water quality at 4 locations	pH varied between 6.58 to 6.95, Electrical Conductivity (EC) ranged between 228 $\mu\text{S}/\text{cm}$ to 442 $\mu\text{S}/\text{cm}$, Dissolved Oxygen (DO) observed to be in the range of 5.2 mg/l to 5.7 mg/l. BOD values observed < 3mg/l. The analysis revealed that most of the parameters are well within the permissible limits as per IS: 2296-Class C.				
Ground water quality at 10 locations	PH varied between 6.02 to 7.61, EC ranged between 183 – 1170 $\mu\text{S}/\text{cm}$, Total Dissolved Solids (TDS) ranged between 98 – 674 mg/l, Total Hardness ranged between 55.1 – 278.6 mg/l. The analysis reveals that all the parameters are found to comply with the requirements of IS: 10500 specification of ground water.				
Soil quality at 10 locations	The physical characteristics of soils reveals that are fine texture, having low bulk density, imperatively high water holding capacity, and slow permeability. Chemical characteristics reveals that soil reaction (pH) soils are slightly acidic to neutral and electrical conductivity (EC) is non saline (normal). Organic matter is mostly low. Macro nutrient like nitrogen is low and phosphorus is medium to sufficient, potassium is very low to low, calcium, magnesium are moderate and base saturation is high. Sodium is below the limit to make soil saline or sodic or alkali. No contamination of heavy metals like Cr.Pb, Ni, As, Hg, and Cd				

16. Public Hearing (PH) Details:

Advertisement for PH with date	Odisha Dharitrii and Times of India on 28-08-2021.
Date of PH	28.09.2021
Venue	Central Playground, Khata no. 115/13, Plot no. 222, Joda in Keonjhar district, Odisha

Chaired by	Additional District Magistrate, Keonjhar
Main issues raised during PH	Provision of employment to local people, education, medical facilities, infrastructural development and welfare activities, environmental management, tree plantation and support in agricultural practices.
Budget proposed for addressing issues raised during PH	Rs. 62.21 Crores

17. The Project Proponent submitted the Consent to Operate issued by the State Pollution Control Board, Odisha vide Order No: 4789/IND-I-CON-184, dt.24.03.2021 for production of 12.0 MTPA (ROM) of Iron Ore along with operation of wet beneficiation plant of throughput capacity 7.0 MTPA, operation of dry crushing plant of capacity 1x1000 TPH (5 MTPA throughput capacity) and operation of railway siding of handling capacity of 12.0 MTPA for the period up to 31.03.2022. PP also submitted the Consent to Operate issued by OSPCB vide Order no. 5276 dated 26.03.2021 for Manmora Manganese mine for production of 5000 TPA which is valid till 31.03.2022. PP submitted the EC Compliance report certified by IRO, Bhubaneshwar vide Lr No. 101-529/09/EPE dated 04.05.2021.

18. The Project Proponent submitted the past production details (Iron Ore) from 1993-1994 to 2020-21 authenticated by DMG, Joda, Keonjhar vide memo No. 6741/Mines dated 17.11.2021. In addition to this PP also submitted the duly filled annexure-III as per which, PP obtained the EC on 11.03.2013 for Iron Ore mine prior to that PP did not having the EC, thus, the instant proposal attracts the Hon'ble Supreme Court judgment dated 02.08.2017 in the matter of Common Cause Vs Union Of india(W.P.(c) 114 of 2014) and after grant of last EC 11.03.2013 the production of Iron Ore is within the EC capacity. PP also submitted that demand notice raised by DDM vide letter No. 4138/Mines dated 02.09.2017 for the carrying the mining operations and produced the Iron Ore by PP without valid EC during the period of 2000-01 to 2010-11. PP submitted that as demand raised by DDM, the payment of Rs 243,64,11,380.00 (Rupees Two hundred and forty three crores sixty four lakhs Eleven thousand Three hundred eighty only) is made to DDM, Joda Circle. The same was intimated by PP to DDM vide letter no.GM/PL/751/225/17 dated 22nd December, 2017. PP also submitted that DDM has raised the demand notice vide Lr No 5190/Mines, Dt 23.10.2017 for violation of Mining Plan and CTO Demand. Revision application was filed before the Revision Authority (RA), Ministry of Mines. PP has also submitted the copy of the revision authority imposed the stay order Mining Plan and CTO demand dated 23.10.2017, RA order dated 8th March, 2018. PP obtained the No Objection Certificate (NOC) from Directorate of Mines vide letter No. 5015/DM dated 28.06.2018 for

processing of ToR/EC application. PP also submitted an undertaking by way of Affidavit in India non-judicial stamp vide certificate No, 46AA 814249 dated 26.01.2020 in pursuance MoEF&CC guidelines No. 3-50/2017-414.III(Pt) dated 30th May 2018, and has stated that “this is to undertake that Tata Steel Limited would comply with all the statutory requirements and Judgement of Hon'ble ‘Supreme Court dated 2nd August 2017 in the Writ Petition (civil) No 114 of 2014 in the matter of common cause versus Union of India and Ors. with respect of Joda East Iron Mine owned and operated by it. This undertaking is without prejudice to rights and contentious of the Project Proponent with respect to the present.

19. Court case details:

Court Case	PP submitted that the credible action initiated against PP u/s 15 of EP Act in the court of J.M.F.C Barbil (vide case no 2(C) C.C.No.96/2013) for production of iron-ore in excess of EC permitted quantity.
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20. The Project Proponent submitted that the Rehabilitation & Resettlement issues are not involved for the proposed expansion project.

21. Details of project cost and employment:

Particulars	Budget (Rs. In Crore)
Capital Cost for Environment Protection	93.7
Budget for addressing the Public Hearing issues	62.21
Total Cost for EMP	155.91 (93.7 + 62.21)
Recurring Cost for EMP	8.395
Project Cost	1915
Employment	Additionally, around 803 persons will be employed due to the expansion project.

22. Observation and Recommendation of the Committee:

The proposal for Environmental Clearance (Expansion) was considered in the 43rd EAC (Non-Coal Mining) meeting held during 14th – 16th December, 2021. After detailed deliberations made by the Project Proponent and the Consultant, the Committee noted that the instant proposal has been accorded EC by Ministry on 11.03.2013 for enhancement of production of ROM of Iron ore from 6 MTPA to 12 MTPA and PP is also having a separate EC for Manmora Manganese lease granted by SEIAA on 29.06.2011 for Production of 12,000 TPA Manganese ore and Slime storage

facility to reclaim a part of the mined-out pit over a lease area of 16.35 ha which is located in the Northern side of the mine lease area in the part of Joda East Iron mine covering an area of 671.093 ha. The Committee also noted that the extraction of Manganese ore is exhausted; however, the PP has not implemented the Mine Closure Plan with a possibility of extracting manganese from dump. Since, the instant proposal is for enhancement of production of Iron ore and there is no mention of Manganese ore in Form 2. The Committee observed that the Project Proponent has prepared the EMP for normative production only. Therefore, the Committee **deferred** the proposal for want of additional information.

- i. The Project Proponent needs to submit the breakup of total excavation of 22.94 MTPA.
- ii. The Project Proponent needs to submit the implementation plan as per Approved Progressive Mine Closure Plan with a possibility of extracting manganese from dump and also submit the copy of the Approved Mining Plan for Manmora Manganese lease.
- iii. The Project Proponent should work out the worst-case scenario for no. of working days in a year and prepare the EMP for peak production for assessing air and noise pollution.
- iv. The Project Proponent needs to submit the data monitored for ground vibration as per the recommendation of CIMFR.
- v. The Project Proponent should explore the possibility of installing sensor-based water sprinklers.
- vi. The Committee noted that in EC Lr dated 11.03.2013, forest land is mentioned as 608.906 ha and but now in the instant proposal PP submitted that forest land is 625.48 ha. Hence, the PP needs to submit a letter in writing stating the reason for increase in forest land with the supporting document as informed during the meeting
- vii. The Project Proponent needs to submit the copy of the extension of mining lease letter issued by Department of Steel & Mines, Govt. of Odisha vide Lr No. III(MN)SM(RML)-01/2008/3273/S&M, Bhubaneswar dated 06.05.2015 and execution of supplementary lease deed registered vide Lr dated 07.05.2015 for Manmora Manganese lease.

- viii. The Project Proponent needs to submit the EC compliance report certified by IRO, Bhubaneswar for Manmora Manganese lease and the legible copies of the EC granted for Manmora Manganese lease in the PARIVESH portal.
- ix. The Project Proponent needs to submit the past production details duly authenticated by DMG for Manmora Manganese lease and its lease details/documents.
- x. The Project Proponent needs to submit the copy of the NOC for ground water withdrawal obtained from CGWA vide NOC no. CGWA/NOC/MIN/REN/1/2021/6428 for abstraction of 460 cu.m/day of ground water which is valid up to 09.10.2022.
- xi. The Project Proponent needs to submit the compliance of NEERI conditions certified by Integrated Regional Office, MOEF&CC.

1.4 Proposal for Terms of Reference (ToR) of M/s National Mineral Development Corporation - Chhattisgarh Mineral Development Corporation Limited (NCL), a joint venture of National Mineral Development Corporation Limited (a Central Government Public Sector Undertaking under the administrative control of Ministry of Steel), and Chhattisgarh Mineral Development Corporation Limited (a Government of Chhattisgarh Public Sector Undertaking) for Bailadila Iron Ore Deposit-4 Mine for production of 7.0 MTPA ROM Iron ore (Total Excavation 13.41 MTPA) along with 2000 TPH Screening/Wet Beneficiation plant in the mine lease area of 646.596 ha and 215.787 ha outside the mine lease area (for infrastructure development including roads, downhill conveyor system, screening plant, loading plant, railway siding, slurry pipeline, township, tailing pond, Admin building etc.) at Village & Tehsil Bacheli, District Dantewada, Chhattisgarh – [File. No: IA-J-11015/104/2021-IA-II(NCM); Proposal No: IA/CG/MIN/241426/2021, Consultant: M/s. Ecomen Laboratories (P) Ltd] - Terms of Reference (ToR)

EAC Meeting Details:

EAC meeting	43 rd
Date of Meeting	14 th December – 16 th December, 2021

The proposal of M/s National Mineral Development Corporation - Chhattisgarh Mineral Development Corporation Limited (NCL), a joint venture of National Mineral Development Corporation Limited (a Central Government Public Sector Undertaking under the administrative control of Ministry of Steel), and Chhattisgarh Mineral

Development Corporation Limited (a Government of Chhattisgarh Public Sector Undertaking) is for grant of Terms of Reference (ToR) for Bailadila Iron Ore Deposit-4 Mine for production of 7.0 MTPA ROM Iron ore (Total Excavation 13.41 MTPA) along with 2000 TPH Screening/Wet Beneficiation plant in the mine lease area of 646.596 ha and 215.787 ha outside the mine lease area (for infrastructure development including roads, downhill conveyor system, screening plant, loading plant, railway siding, slurry pipeline, township, tailing pond, Admin building etc.) at Village & Tehsil Bachel, District Dantewada, Chhattisgarh. The mine lease area is located between Latitude 18°41' 23.093" N to 18°43' 45"N and Longitude 81°11'53.074" E to 81°13'15" E. The mine lease area falls under the Survey of India Toposheet No: 65F/2 and falls in Seismic Zone-II. The PP presented the KML file during the presentation to indicate the location of mine lease on Google Earth.

2. The Project Proponent has made an online application vide proposal no: IA/CG/MIN/241426/2021 dated 30.11.2021 and submitted Form1 and Prefeasibility 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 2(b) Mineral beneficiation 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. Details of Mine lease:

S.no	Lease particulars	Date of the grant	Name of the Mineral	Period of Grant	Granted by	Mine lease area in Ha
1	Ministry of Mines vide Notification G.S.R. 697(E) reserves an area of 646.596ha in Bailadila reserve forest, Deposit No. 4, District South Bastar, Chhattisgarh for mineral iron ore for undertaking	30.09.2019	Iron ore	5 years	Ministry of Mines, Gol	646.596

	prospecting or mining operations					
2	Letter of Intent for grant of mining lease vide Lr No: F-2-2-/2005/12	26.06.2021	Iron ore	5 years	Mineral Resource Department, Government of Chhattisgarh	646.596
3	Amendment in Letter of Intent granted vide Lr No 2-20/2005/12 prescribing the requirement of approved Mining Plan	07.08.2021	Iron ore	5 years	Mineral Resource Department, Government of Chhattisgarh	646.596

4. The Project Proponent submitted that Approval of Mining Plan including Progressive Mine Closure Plan approved by Indian Bureau of Mines vide Lr No Dantewada /Fe/Khanij-1292/2021/-Raipur dated 24.09.2021 over an area of 646.596ha.

5. Observation and Recommendation of the Committee:

The proposal for Terms of Reference was considered in the 43rd EAC (Non-Coal Mining) meeting held during 14th – 16th December, 2021. During the meeting, the Committee noted that the Project Proponent informed that the Mineral beneficiation plant is proposed outside the mine lease area. The Committee observed that the instant proposal is covered under category of 2(b) of EIA notification, 2006, which is standalone and outside the mine lease area and hence the EAC (Non-Coal Mining) Committee cannot appraise the instant project proposal. Therefore, the Committee **returned the proposal in present form** and was of the view that the Project Proponent should revise the Form1 and PFR accordingly with the factual information and data.

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

No: IA/OR/MIN/240540/2021, Consultant: M/s MECON Limited] - Terms of Reference (ToR)

EAC Meeting Details:

EAC meeting	43 rd
Date of Meeting	14 th December – 16 th December, 2021

The proposal of M/s Odisha Mining Corporation Limited is for grant of Terms of Reference for Gandhamardan–A Iron Ore Mine for expansion of Iron Ore Production Capacity from 0.35 MTPA to 2.88 MTPA [Total excavation: 4.71 MTPA (2.88 MTPA (ROM) + 1.38 MTPA (Waste Rock) +0.45 MTPA (Top Soil)] along with Crushing plant (1 x 250 TPH existing and 1 x 250 TPH proposed) and Screening plant (existing 2 x 200 TPH will be replaced by new 6 x 250 TPH) in the mine lease area of 618.576 ha, located at Villages Suakati, Daonra & Gandhamardan PRF, Telkoi Tehsil, Keonjhar District, Odisha. The mine lease area is located between Latitude 21°36' 10.2348" N to 21°51'49.71" N and Longitude 85°29'13.32" E - 85°31'16.78" E. The mine lease area falls under the Survey of India Toposheet No: F45N6 (old 73 G/6) and F45N10 (old 73 G/10) and falls in Seismic Zone-II. The PP 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/240540/2021 dated 25.11.2021 and submitted Form1 and Prefeasibility 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 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
15.05.2007	IA/OR/MIN/11057/2007	-	Annual production capacity of 3,50,000 tonnes (0.35 million tonnes) of iron ore by opencast mechanized method involving total mine lease area of 618.576 ha	16.01.2009

4. The Project Proponent submitted that initially mining lease executed on 21.05.1963 for a period of 30 (thirty) years and was valid from 21.05.1963 to

20.05.1993. PP submitted that the application for 1st renewal of mine lease submitted to the State Government on 06.04.1992 for a period of 20 (twenty) years. Then, PP submitted the application for 2nd renewal to the State Government on 01.05.2012. Further, PP submitted that the State Government of Odisha has extended the original lease validity period from 21.05.1993 to 20.05.2013 in terms of Rule-3 (1) of the Mineral (Mining by Government Company) Rules, 2015 and from 21.05.2013 to 20.05.2033 in terms of Rule-3 (2) of the Mineral (Mining by Government Company) Rules, 2015. PP also submitted the supplementary lease deed executed on 21.12.2017 in a non-judicial stamp paper of Rs 100 bearing No 930739 between the Government of Odisha and M/s Odisha Mining Corporation Ltd for the period up to 20.05.2033.

5. The Project Proponent submitted that the total mine lease area is 618.576 ha out of which Forest Land is 519.747 ha, Waste Land is 73.002ha, Grazing Land is 10.363ha, Agricultural Land is 11.550 ha and 3.914 ha (other hutments, roads. etc.,).

6. The Project Proponent submitted the Approval of Modification of Review of Mining Plan along with Progressive Mine Closure Plan approved by Indian Bureau of Mines, Bhubaneswar vide Lr No. MRMP/A/36-ORI/BHU/2020-21 dated 12.01.2021 for Gandhmardan-A Iron ore mine over an area of 618.576ha for the period up to 31.03.2023.

7. The Project Proponent submitted that the method of mining will be mechanized opencast mining by drilling, blasting & excavation of ore & waste by conventional shovel dumper combination. Mineral processing involves crushing & screening only. There are no existing or proposed beneficiation facilities. Drilling shall be carried-out using 115mm diameter drills with 3.0m burden and 3-3.5m spacing. Holes shall be charged with slurry explosives and initiated using electronic detonator/NONEL. The estimated explosive consumption at 0.35 MTPA stage is ~48 tonnes per year, which is expected to increase to 394 tonnes per year). There are three ore deposits in the ML area, Hill Top Deposit, Flank Deposit and Float Deposit. The Hill Top Deposit and the Flank Deposit are each worked by a single large quarry (Hill Top Quarry & Flank Quarry respectively) while the Float Deposit is worked by 17 small and large quarries. PP reported that the Total Mineral Reserves + Resources as on 30.04.2020 are 24.47 Million Tonnes (Mt) @ Avg. Grade 61.22% Fe. PP also reported that bench height of 5-10m and bench width of 8-12m will be maintained. Overall pit slope will be 28° - 37°. Life of the mine will be 9 years. For handling the ore stacks at mine-site, 4 nos. of wheel loaders (2.5 - 4.5 m³ bucket capacity) will be deployed. For hauling the generated waste rock to the demineralized portion of the pit, 20-30 tonner dumper, will be deployed. The iron ore will be transported through 20-30t capacity tippers. At Gandhamardan-A mine, ROM ore is crushed and screened to separate out Calibrated Lump Ore (CLO) and fines. PP

submitted that overburden shall be utilized in back filling. Mineral rejects will be sold off either directly or after blending with higher grade ores. During the initial two years of mining, about 0.55 million tonnes (Mt) of mineral rejects (i.e. material containing 45 – 55% Fe) is expected to be generated. Subsequently, till the end of mining another 4.65 Mt of mineral rejects are expected to be generated. The mineral rejects will be sold off either after suitable blending with high grade ore or directly without blending if there are suitable buyers. About 0.88 Mm³ of waste shall be generated during plan period of 2021-22 and 2022-23, and 11.81 Mm³ of waste rock is expected to be generated till the end of mining. The entire quantity of generated waste will be utilized for pit reclamation in the mined-out pit by sequentially backfilling. PP also submitted that presently, there are two external waste dumps in Gandhamardan-A ML area which includes Dump D-1 spread over 0.55 ha accommodate ~55000 m³ of material and Dump D-2 spread over 0.27 ha accommodate ~30000 m³ of mineral rejects. Dump D-2 is proposed to rehandle. In addition, 1.34 million tonnes (Mt) of rejects generated in OMC's adjacent Gandhamardan-B mine have been stacked in Gandhamardan-A ML. These stacks are located in mineralized areas and will be re-handled in phases and shifted to Gandhamardan-B ML area, so that the quarries in Gandhamardan-A can be expanded.

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

Particulars	Particular's Name	Distance & Direction
Nearest Town	Nayagarh	~8 km, E
Railway station	Goaldih Keonjhar Railway Station (on Banspani-Daitari-Jakhapura branch line of South-Eastern and East Coast Railway)	~11 km NNE ~16 km, E
Nearest Airport	Bhubaneswar International Airport	~ 146 km
Water Bodies	Seasonal Nallah	within mine lease

9. Water requirement

Total water requirement	Industrial water requirement is estimated to be 754 m ³ /day	Fresh water	329 m ³ /day
		Treated water	425 m ³ /day
Source	Chamda Nala River		
Permission	Permission for drawl of 329 m ³ /day of surface water from Chamda Nala accorded by Department of Water Resource vide letter no. 17585/WR dated 24.07.2017.		
Additional information (if any)	It is estimated that 850 m ³ /day of potable water will be required for the expansion of mine and township. The potable water will be drawn from bore-wells.		

10. The Project Proponent reported that total mine lease area is 618.576 ha, out of which 519.747 ha is forest land and 98.829 ha is non-forest land. PP obtained Stage – II Forest Clearance vide F. No. 8-105/2006-FC dated 24.04.2017 for the broken-up area of 41.2442 ha out of in principle approval as granted for 117.9648 ha of forest land (216.3617 proposed originally) in favour of M/s Odisha Mining Corporation Limited (OMC) for mining of iron ore in Gandhamardan Block-A. Then, PP obtained Stage-II Forest Clearance vide F.No. 8-105/2006FC dated 22.03.2021 for diversion of balance forest area of 76.7206 ha out of proposed diversion of 117.9648 ha (originally proposed 216.3617 ha) of forest land (out of which 41.2442 ha of broken up area was diverted vide Ministry's letter dated 24.04.2017) in favour of Odisha Mining Corporation Limited (OMC) Ltd. for mining of Iron Ore in Gandhamardan Block-A. Further, PP obtained Stage-I Forest Clearance vide F. No. 8-27/2016-FC dated 05.04.2019 for diversion of balance forest land of 401.7824 ha including 7.2807 ha of safety zone out of total forest land of 519.7472 ha within total mining lease area of 618.576 ha for Iron ore mining in Gandhamardan (Block-A).

11. The Project Proponent submitted that Wildlife Conservation plan approved by Chief Wildlife Warden vide letter No.3305/1WL(C)SSP-325/2012 dt. 04.05.2012.

12. The Project Proponent reported that presently about 28.088 ha area has been planted (12.180 green belt and plantation over safety zone of 15.908 ha). Another 32.979 ha is maintained as statutory barrier around the explosive magazine. PP also submitted that at the conceptual stage, total area of green belt and plantation will be 210.006 ha (i.e., ~34% of the total ML area).

13. The Project Proponent submitted the Consent to Establish issued by the State Pollution Control Board, Orissa vide Lr No 15874/Ind-II-NOC-4426 dated 04.07.2007 for enhancement of Iron Ore production capacity from 0.25 MTPA to 0.35 MTPA (over mine lease hold area of 618.576 ha). PP also submitted the Consent to Operate issued by the State Pollution Control Board, Odisha vide Consent Order No. 5367/IND-I-CON-6050 dated 27.03.2021 for production of Iron Ore of 0.35 MTPA for the period up to 31.03.2022.

14. The Project Proponent submitted that the mine is operating since 1963. PP submitted the authenticated year wise production details issued from the O/o the Mining Officer, Keonjhar Circle, Keonjhar vide Lr No. 1612/Mines, dated 08.10.2021 for production of iron ore for the period from 1992-93 to 2020-21. As per the past production details submitted by PP, it has been observed that PP operated the mine without obtaining EC 2004-05 to 2008-09 and exceeded the base year (1993-94) production of 41,072.720 MT in the year 2004-05 (2,52,051.00 MT), 2005-06

(2,17,841.00 MT), 2006-07 (3,58,391.00 MT), 2007-08 (19,95,311 MT) and 2008-09 (4,68,798.00 MT). Thereafter, PP obtained EC on 16.01.2009 for expansion of production from 0.25 MTPA to 0.35 MTPA of Iron Ore and is well within limits after grant of EC dated 16.01.2009. PP also submitted the Affidavit in a no-judicial stamp paper of Rs 100 bearing no: M 106021 dated 06.12.2021 that OMC 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 and Ors.

15. The Project Proponent submitted that for producing iron ore in excess/without of the approved limit of EC during the FY 2004-05 to 2008-09. Demand Notice was issued by the Office of the Mining Officer, Keonjhar Circle, Keonjhar vide notice no. 1472/Mines dated 14.12.2017 for depositing Rs.238,24,51,276/- (Rupees Two Hundred Thirty Eight Crores Twenty Four Lakhs Fifty One Thousand Two Hundred Seventy Six) and vide notice no. 217/Mines dated 09.03.2018 for deposit of balance compensation along-with interest for Rs. 73,39,83,193/- (Rupees Seventy three Crore thirty nine lakh eighty three thousand one hundred ninety three). PP submitted that amount has been deposited on 28.12.2017. PP also submitted that Demand Notice Office was issued by the Mining Officer, Keonjhar Circle, Keonjhar vide notice no. 1266/Mines dated 26-10-2017 for depositing Rs. 8,42,54, 133/- (Rupees Eight Crore Forty Two Lakhs Fifty four Thousand One Hundred Thirty three) towards violation against the Ores/Minerals raised without CTO/Mining Plan by the and interest amount of Rs. 1,27,69,695/- (Rupees One crore Twenty Seven Lakh sixty nine thousand six hundred ninety five). PP submitted that the amount has been deposited on 18.09.2018. Further, PP submitted that total compensation / damage amount paid on account of different violation demand Notices i.e., Rs.321,34,58,297/- (Rupees Three Twenty One Crores Thirty Four Lakhs Fifty Eight Thousand Two Hundred Ninety Seven).

16. The Project Proponent submitted that the proposed expansion project does not envisage any leasing and/or acquisition of additional land and hence no rehabilitation & resettlement is involved in this project.

17. Court case details:

Court Case	PP submitted that there is litigation pending against the project and/or land in which the project is proposed to be set up in JMFC Court, Barbil, Odisha 1. 2(c) C.C No. 4 of 2013 2. 2(b) C.C No.10 of 2017
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3. 2(b)C.C No.11 of 2017

18. Details of project cost and employment:

Particulars	(Rs. Lakhs)
Project Cost	Rs. 10962.3135 Lakhs.
Employment	707 persons (comprising of 347 OMC Departmental workforce and 360 employees on contract).

19. Observation and Recommendation of the Committee:

The proposal for Terms of Reference (Expansion) was considered in the 43rd EAC (Non-Coal Mining) meeting held during 14th – 16th December, 2021. After detailed deliberations made by the Project Proponent and the Consultant, the Committee on viewing the KML file noted that the PP has been mining in common mine boundary of Gandhamardan – A (instant mine) and Gandhamardan – B (adjacent mine); PP has also been stacking 1.34 million tonnes (Mt) of rejects generated in Gandhamardan – B (adjacent mine) in Gandhamardan – A (instant mine) mine lease area. The Committee also noted that in PFR (Pg. No 17), PP submitted that stacks are located in mineralised areas and will be re-handled in phases and shifted to Gandhamardan – B (adjacent mine) mine lease area so that the quarries in Gandhamardan – A can be expanded. The Committee was of the view that dumping of waste outside the mining lease area is not permitted by Hon'ble Supreme Court judgment order dated 21.04.2014 in Writ Petition (Civil) No. 435 of 2012 in the matter of Goa Foundation Versus Union of India & Ors and also PP has been operating the mine in common mine boundary of Gandhamardan – A (instant mine) and Gandhamardan – B (adjacent mine) without obtaining amendment in EC and the Committee opined that the instant proposal attracts the violation of the EIA Notification, 2006. The committee informed to project proponent to submit all the relevant documents for examination of violation in the Ministry. The Committee was of the view that the proposal for replacement of screening plant was not convincing. The Committee also noted that PP has not submitted the certified EC compliance report by IRO. Therefore, the Committee **deferred** the proposal and was of the view that the proposal may be considered only after submission of following additional information: -

- i. The Project Proponent needs to submit the latest EC compliance report certified by Integrated Regional Office, Bhubaneswar.
- ii. The Project Proponent needs to submit the implementation status of the approved progressive mine closure plan.

- iii. The Project Proponent needs to submit the permission letter obtained from DGMS for working in common boundary between Gandhamardan – A (instant mine) and Gandhamardan – B (adjacent mine) mine lease area as informed during the meeting.
- iv. The Project Proponent needs to provide proper justification for replacing the existing Screening plant of 2 x 200 TPH with proposed 6 x 250 TPH.
- v. The Project Proponent needs to submit the details of existing plantation with no. of saplings planted, species type, survival rate and the area covered under green belt and plantation. PP also needs to provide the status of Sal plantation.
- vi. The Project Proponent needs to submit the action plan being taken for protection for Bami Nadi and River Baitarani.
- vii. The Project Proponent needs to submit the map demarcating the mineralized and non-mineralized zone in the forest land of 519.747 ha and grazing land of 10.363ha.
- viii. The Project Proponent needs to submit the details existing and proposed depth of mining and the water level during pre and post monsoon season.
- ix. The Committee noted that, PP while obtaining EC on 16.01.2009 submitted that there is no Schedule-I Fauna. Then, PP on 04.05.2012 obtained the Wildlife Conservation plan approved by Chief Wildlife Warden vide letter No.3305/1WL(C)SSP-325/2012. PP needs to justify the same and provide the details of Schedule – I species and the list of Flora and Fauna obtained duly authenticated by PCCF.
- x. The Project Proponent shall furnish a certificate from DFO regarding satisfactory compliance of the approved site-specific wildlife conservation plan on 04.05.2012.
- xi. The Project Proponent needs to submit the copy of the extension of mining lease letter issued by the State Government.
- xii. The Project Proponent needs to submit the copy of the Court Order vide C.C No. 4 of 2013 2. 2(b) C.C No.10 of 2017 3. 2(b) C.C No.11 of 2017.

- xiii. Project proponent needs to submit all the relevant documents for examination of violation in the Ministry.

Day 2: 15th December, 2021 (Wednesday)

2.1 Proposal for Environmental Clearance of Chettichavadi Jaghir Magnesite and Dunite Mine with the production capacity of 1.4 MTPA in the mining lease area of 449.364 ha located at Chettichavadi Village, Salem Taluk, Salem District, Tamil Nadu by M/s. Dalmia Bharat Sugar and Industries Limited – [File No: 23-227/2018-IA.III(V), Proposal No: IA/TN/MIN/241375/2018, Consultant: M/s. Aadhi Boomi Mining & Enviro Tech (P) Ltd] – EC

EAC Meeting Details:

EAC meeting	43 rd EAC meeting
Date of Meeting	14 th to 16 th December, 2021

2. Project details:

Name of the Proposal	Chettichavadi Jaghir Magnesite and Dunite Mines.	
Location	Village	Chettichavadi
	Tehsil/Taluka	Salem West
	District	Salem
	State / UT	Tamil Nadu
	Latitudes	11°43'09.71" to 11°44'36.233" N
	Longitudes	78°07'23.268" to 78°09'13.068" E
	SolTopo sheet No.	58 I/2
Company's Name	M/s.Dalmia Bharat Sugar and Industries Ltd	
Accredited Consultant and certificate no.	M/s.Aadhi Boomi Mining & Enviro Tech (P) Ltd NABET/EIA/1821/RA 0103	
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	As per EIA Notification S.O. 1533 (E), dated 14th September 2006 and subsequent amendment
Minerals	Magnesite (Major mineral) and Dunite (Minor mineral)
Mining lease Area	449.364 ha

4. ToR Details:

ToR Proposal No.	IA/TN/MIN/73566/2018
Online application date for Form-I	19.03.2018
Documents Submitted	Form-I and Pre Feasibility Report
EAC meeting dates	28-29 Aug 2018, 25-26 Nov 2019, 30Dec 2020
ToR Letter No.	F.No.23-227/2018-IA.III (V)
ToR grant Date	05.02.2021
Production capacity	Magnesite: 61,000 Ts / year, Dunite: 1,40,000Ts/ year.
Waste	11,99,000 TS
Total Excavation	14,00,000 TS
EIA/EMP uploaded on	29.11.2021

5. Lease Details:

Grant of initial mine lease for Magnesite mineral	The mining lease for Magnesite over an extent of 574.46 ha. in S.F.No.6 (un assessed dry waste land belonging to Govt. of Tamil Nadu) of Chettichavadi village, Salem Taluk & Dist. was sanctioned over a period of 20 years by G.O.Ms. No.903 Industries, Labour and Co-operation Department dated 25-2-1966.
Grant of mine lease for Dunite mineral	By G.O.M S.No. 801, 26th June 1976 another Mining Lease was granted over the same area of 574.46 ha land for mining of Dunite for a period of 10 years.
1 st Renewal of mine lease	By G.O.Ms.No.74 Industries Department dated 11th March, 1997 the Govt. of Tamil Nadu sanctioned the grant of first renewal of mining lease for Magnesite and Dunite over an extent of 531.98 hectares (to make them co-terminus) in S.F.No.6 of Chettichavadi village, Salem Taluk and District for a period of 20 years w.e.f. 20.8.1986 to 19.8.2006.
2 nd Renewal of mine lease	Application for second mining lease renewal was made on July 11, 2005 vide letter No. SL: GO: 55200(1). During the period 19.08.2006 to 11th January 2015 the mines were under deemed extension in view of Rule 24 (A) (6) of MCR 1960 read with order of injunction passed in MP No.1 of

	2006 in W.P.Nos. 25518 and 25519 of 2006 of the Honourable High Court of Madras. Presently, according to project proponent lease has been extended up to the period ending on 31st March 2030 in terms of Mines and Minerals (Development & regulation) Amendment Act 2015. Project Proponent from time to time vide its various letters including letter dated 17th Feb 2021 and letter dated letter dated 25th Sept 2021 had requested State Mining Dept. to issue valid mining lease documents. State Mining Dept. has not responded to the same. In this connection W. A. No. 834 & 835 are pending before Madras High Court.
Application for the Mining lease area and Date	Area: 449.364 Ha Date: 11-07-2005.
Validity of mine lease	31.03.2030 as per Sec 8(A)(5) of MMDR (Amendment) Act-2015.

6. Mining plan details:

Mining Plan(approved by Indian Bureau of Mines/DMG)	Letter No.	TN/SLM/ MG& DU/ ROMP-1646-MDS.
	Date	30.03.2021
	Validity	2021-22 to 2025-26 (till 31.03.2026)
Mining Parameters	Quantitative Description	
Bench Height	7.5 m Permitted	
Bench Width	15 TO 25 M	
Method of Mining	Open Cast Semi Mechanized Mining (Other than Fully Mechanized Mines).	
Individual bench slope	60° from Horizontal.	
Overall pit slope	45°	
Drilling/Blasting	Deep Hole Drilling 100-104 mm Dia& Small Dia 25 mm Dia Holes.	
RoM output size	14,00,000Tonnes.	
Life of mine	100 Years	
Transportation details	ROM by Dumpers & Mineral by 10 Tonners.	
Dumpers capacity	Dumpers 40 ts Capacity.	

7. Land Area Breakup:

Private land	-
Government land	Unassisted dry waste land belonging to Government

Total Mining lease area (MLA)	449.364 H.a
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8. Nearest village / town/ highway/railway station / water bodies

Particulars	Particular's Name	Distance & Directions
Nearest Village	Chettichavadi Village	850m (E)
Nearest Town	Salem	10 Km
Nearest Roadway	NH 7 - Salem – Bengaluru. SH 188 – Salem – Yercaud. Muthanaickanpatti Road (Salem) –	5.0 km – SW 3.12km – SE MDR 696 6.0km - SW
Nearest Railway station	Salem Junction Railway Station	6 km (S)

Water Bodies within 10km radius from the lease area

S.No	Water Bodies	Direction	Distance (km)
1	Kannankurichi Lake	SE	4.7
2	KannankurichiPuthueri	SE	4.64
3	Thathampatti lake	SE	7.97
4	Mariamman temple tank	SE	8.75
5	Selathampattiyeri	SW	7.05
6	Lake near Vellakalpatti	SW	1.12
7	Lake near NH 7	SW	2.9
8	Lake near Indiranagar	SW	3.14
9	Pallapatti Lake	S	6.50
10	Arisipalayam lake	S	7.07
11	Kumaragiri lake	S	8.5
12	Lake near Muthunaickenpatti	W	10
13	Lake near Anaigoundampatty –	W	7.7
14	Samuthiram Lake	W	4.40
15	Lake near Pagalpatti	W	6.21
16	Lake near RC.Chettipatti	NW	8.1
17	Lake near Kottaimettupatti	NW	7.64
18	Lake near Kamalapuram	NW	7.72
19	Lake near Vattakkadu	N	4.40

9. Water requirement:

Total water requirement	70 KLD	Fresh water	70 KLD
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		Treated water	
Source	Bore Hole		
Permission	LR.NO.OT8/AG-2/176/NOC/SALEM/2021 dt.17.11.2021.		

10. 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	Tamil Nadu Forest Dept C.NO.2378/2021.D1 dt.04.10.2021
National park	No	
Wildlife Sanctuary	No	

Schedule-1 species	Yes/No	Details of Certificate/letter/Remarks
Schedule-I species	No	Tamil Nadu Forest Department C.NO.598/2021 DATED 24.09.2021.

11. Green belt/plantation details:

Proposed area for green belt/plantation	6 Ha
Budget for green plant& plantation till the end of life of mine.	Rs.13,50,000/-
Budget for nursery	Rs.4,00,000 per Annum

Particulars for Green belt/plantation	Area covered (in Ha)
7.5 m barrier & non-mineralized zone	60 Ha
50 m safety zone of nallah, roads, electric lines	9 Ha
500 m safety zones of nearest habitation villages	10 Ha

12. Baseline details:

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

13. Public Hearing Details:

Advertisement for PH with date	01.08.2021
Date of PH	03.09.2021
Venue	Dalmia Old Colony Canteen Building. Opp. Wiegh Bridge. Chettichavadi Village, Salem West Taluk, Salem District, Tamil Nadu-636012.
Chaired by	Dist. Collector & District Environmental

	Engineer, TNPCBD.
Main issues raised during PH	Employment for the local Villages
Budget proposed for addressing issues raised during PH	Rs.0.34 Crore.

14. Court case details:

Court Case	Yes, 9 court cases are pending.
Details	<ol style="list-style-type: none"> 1. W.P.25518/2006 Madras HC 2. Writ Petition No.29275 of 2016 Madras HC. 3. Writ Petition (Civil) No. 114 of 2014 of Supreme Court 4. District Collector, Salem has also raised another demand vide order dated 8th July, 2020 directing project proponent to pay sum of INR 7.24 Crore on the quantity of Magnesite mined without EC for the period 1st April, 2000 to 31st August, 2018. 5. District Collector's demand of surface compensation of Rs.79,88,39,062 from 20.08.19 66 till 31.10.2017. 6. Show cause vide Proceeding Letter No.SLM0006/DEE/TNPCB/S LM/RL/2014, dated 03.06.2014 by Tamil Nadu State Pollution Control Board U/s 19 of Environment Protection Act. 7. Show Cause vide Proceeding Letter No.FEF/TNPBC/SLM/F/006 /20 by Tamil Nadu State Pollution Control Board U/s 19 of Environment Protection Act dated 4th May, 2020. 8. Show cause Notice dated 5thFebruary, 2013 under Water Act. Show cause Notice dated 5thFebruary, 2013 under Air Act. 9. Environmental Activist Mr.S.Sakthivel filed a petition before the Hon'ble NGT (SZ) raising certain Environmental issues against 6 respondents.

15. Affidavit/Undertaking details:

Affidavit	The project proponent submitted the Affidavit dated 21.10.2019 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.
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16. Details of the EMP:

S.No.	Description	Item	Amount (In Lacs)
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1	Air and water quality management and monitoring	ETP, STP, settling tanks, raw water storage tank , drains , toe walls, settling ponds, etc.	15.00
		Asphalting of Roads Including Side Drains and Avenue Plantation - Approach Road To Mine & Permanent Haul Road	12.00
		Fencing around the Quarry	20.00
2	Green belt development	Green Belt Development Around Quarry, Colony, Service Buildings Etc., and compensatory afforestation.	12.50
3	Plant & Machinery to be Used for Pollution Control	17 KL Water Sprinklers (@Rs70.00 Lakhs/Unit)	70.00
		420Hp Dozers (@ Rs. 120.00 Lakhs/Unit)	120.00
Total			249.50

17. Details of project cost and employment:

Particulars	Details (Crore)
Capital Cost for Environment Protection	Rs.2.49
Budget for addressing the Public Hearing issues	Rs.0.34
Total Cost for EMP	Rs.3.49
Recurring Cost for EMP	Rs.0.2 Lakhs/Annum.
Project Cost	Rs.19.57
Employment	300 persons

18. Observation and Recommendation of the Committee:

The proposal for Environmental Clearance was considered in the 43rdEAC meeting held during 14th to 16th December, 2021. After detailed deliberations, the Committee observed that there were few lacunae in the chapter 13 of the EIA/EMP report. Since the mine is in operation since 1966 and stopped operation in 2018, the Committee observed through KML file that plantation was not adequate. Also, the Committee noted that many court cases are pending against the project proponent. The Committee also noted that the project proponent could not comply a specific condition (xviii) i.e “Valid mine lease documents from the State Department of mines be submitted with EC application” mentioned in the ToR granted vide letter no. 23-227/2018-IA.III (V) dated 05.02.2021 due to which the Committee suggested the project proponent to apply for amendment of ToR letter dated 05.02.2021. Therefore, the Committee **deferred** the proposal due to want of following information:

- 1) The project proponent needs to submit the revised land use-land cover and damage calculation needs to be re-worked particularly damage to ecology and biodiversity.
- 2) The project proponent needs to submit the revised Environmental Management Plan budget. Also, 3% of EMP budget needs to be added in the cost of damage assessment.
- 3) The project proponent needs to calculate the net profit by finance which also needs to be a part of damage assessment (3% of net profit has to be considered in CRAP)
- 4) The project proponent needs to revise the NRAP and CRAP accordingly. Particularly, air quality assessment needs to be revised in the plan.
- 5) Since, the project proponent could not comply with the specific condition (xviii) of ToR dated 05.02.2021, PP needs to seek for amendment of ToR by submitting the following evidences related to the following:
 - a) The project proponent needs to submit that Chettichavadi Jaghir Magnesite and Dunite Mine is owned by M/s. Dalmia Bharat Sugar and Industries Limited.
 - b) The instant mine lease has not been lapsed currently.
 - c) The copy of the court order which has permitted M/s. Dalmia Bharat Sugar and Industries Limited to continue operation in the absence of valid extension of mine lease by DMG.

2.2 Proposal for Terms of Reference for Humdara-Ghodepawadi block of Bauxite Mine with the production capacity of 0.3 MTPA in the mining lease area of 120.48 ha located at Hamdara- Ghodepawadi village, Rajapur Tehsil, Ratnagiri District, Maharashtra by Gamma Iron India Ltd. – [File. No: J-11015/106/2021-IA-II(NCM), Proposal No: IA/MH/MIN/240932/2021] – ToR

EAC Meeting Details:

EAC meeting	43 rd EAC meeting
Date of Meeting	14 th to 16 th December, 2021

2. Project details:

Name of the Proposal	Humdara-Ghodepaiwadi block of Bauxite Mine with the production capacity of 0.3 MTPA in the mining lease area of 120.48 ha	
Location	Village	Hamdara- Ghodepaiwadi
	Tehsil	Rajapur
	District	Ratnagiri
	State / UT	Maharashtra
	Latitudes	16° 31'5.704"to16° 31'38.06" N
	Longitudes	73° 23' 11.61" to 73° 24' 23.50" E
	SoITopo sheet No.	47 H/6
Company's Name	M/s.Gamma Iron India Ltd.	
Accredited Consultant and certificate no.	Mineral Engineering Services NABET/EIA/1922/RA0158	
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	120.48 ha

4. ToR Details:

ToR Proposal No.	IA/MH/MIN/240932/2021
Online application date for Form-I	26.11.2021
Documents Submitted	Form-I and Pre-Feasibility Report
Production capacity	0.3 MTPA of Bauxite
Waste	10,80,648 tonnes

5. Lease Details:

Letter of Intent	In favor of	M/s. Gamma Iron India Ltd., Sindhudurg, has been declared as 'Preferred Bidder' in the e-auction process conducted by the Govt. of Maharashtra under Rule 9 (4) (b) (iii) of auction Rules
	Letter No.	MMN-0719/C.R.42(Part-4)/IND-9
	Date	13.09.2019
	Area	120.48 Ha

Validity of LOI	50 years from 13.09.2019
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6. Mining plan details:

Mining Plan(approved by Indian Bureau of Mines/DMG)	Letter No.	MP/MECH-02(MAH)/GOA/2021-22
	Date	-
	Validity	-
Mining Parameters	Quantitative Description	
Bench Height	5 m	
Bench Width	-	
Method of Mining	Opencast mechanized mining method	
Operational plan	The main operation shall include removal of ore and waste by ripper/excavator and loaders subjected to dry crushing and screening. The rejection encountered will be used for backfilling the exhausted part of the mining lease.	
Individual bench slope	-	
Overall pit slope	-	
Drilling/Blasting	Deephole drilling and blasting will be adopted in hard zone	
Life of mine	-	
Transportation details	Trucks and Dumpers	
Dumpers capacity	Trucks: 16 tonnes Dumpers: 25 tonnes	

7. Land Area Breakup:

Private land	120.48 ha
Government land	-
Total Mining lease area	120.48 ha

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

Particulars	Particular's Name	Distance &Directions
Nearest Village	Palye village	6km
Nearest Town	Rajapur Town	30 Km
Nearest Railway station	Rajapur Road Railway station	42 km
Nearest Airport	SindhurgaChipi Airport	84 Km
Nearest highway	NH-17	17 km(by road)
Nearest water bodies	River Kavdoli	8 km
	Vaghotan river	500 m
	Pariyanala	2.8km
	Kavdoli river	8 km
Arabian Sea		7.7 km

Western Ghats	6km
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9. Water requirement:

Total water requirement	80 KLD	Dust suppression	70 KLD
		Afforestation	8 KLD
		Domestic	2 KLD
Source	Total monsoon water will be allowed to collect in the proposed pit and same will be pumped out and used for mining operations such as dust suppression and well water from nearby village shall be used for drinking and domestic purpose.		

10. 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	-
National Park	No	
Wildlife Sanctuary	No	
Western Ghats	Yes, 6 km away from the MLA	

11. Green belt/plantation details:

Period	Area	Proposed plantation	Location	Name of species
1st 5 years Block Period	3.32	3320	0.42 Ha. of 7.5 m safety zone and 2.90 Ha. of Backfilled area	Species like Gulmohar, Cashew, Coconut, Mango, Jackfruit, etc.,
2nd 5 Years Block Period	Proposals shall be given after completion of exploration			
3rd 5 years Upto /lease period				

12. Court case details:

Court Case	Not Applicable
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13. Affidavit/Undertaking details:

Affidavit	Not submitted
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14. Details of project cost and employment:

Particulars	Details
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Total Cost for EMP	Rs.75.92 Lakhs
Project Cost	Rs.2.6 Crore
Employment	60 persons

15. Observation and Recommendation of the Committee:

The proposal for Terms of Reference was considered in the 43rd EAC meeting held during 14th to 16th December, 2021. After detailed deliberations, the Committee observed that the exact distance of Western Ghats from the mine lease boundary is not clear. Also, the project proponent did not submit the details of total excavation separately. The project proponent did not submit the details of mining parameters, life of mine etc. Therefore, the Committee **deferred** the proposal due to want of following information:

- 1) The project proponent needs to submit a clear-cut map showing exact distance of the mine lease area from the western ghats duly authenticated by the concerned authorities.
- 2) The project proponent needs to clearly demarcate the presence of mangroves and mango trees around the mine lease area on KML.
- 3) The project proponent needs to submit a detailed breakup of the current land use and the conceptual plan of the land use.
- 4) The project proponent needs to submit a letter showing the clear CRZ demarcation from the high flood plain.
- 5) The project proponent needs to submit the details of total excavation separately. Also, the project proponent needs to mention the life of mine.
- 6) The project proponent needs to submit the details of mining parameters such as bench height, bench width, slope etc.
- 7) The project proponent needs to submit all the annexures of Pre-feasibility report along with the copy of approved mining plan and valid mine lease documents.
- 8) The project proponent needs to submit an 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.

2.3 Proposal for Environmental Clearance for Hiwardara Limestone & Dolomite Mine with the production capacity of 0.2 MTPA in the mining lease area of 171.09 ha located at Village: Hiwardara, Tehsil: Wani, District: Yavatmal, State: Maharashtra by M/s. Shree Bajrang Sales Pvt. Ltd.–[File. No: 23-172/2018-IA.III (V), Proposal No: IA/MH/MIN/66799/2017, Consultant: M/s. SrushtiSeva Private Limited]–EC

EAC Meeting Details:

EAC meeting	43 rd EAC meeting
Date of Meeting	14 th to 16 th December, 2021

2. Project details:

Name of the Proposal	Hiwardara Limestone & Dolomite Mine with the production capacity of 0.2 MTPA	
Location	Village	Hiwardara
	Tehsil/Taluka	Wani
	District	Yavatmal
	State / UT	Maharashtra
	Latitudes	19°50'07.08" N to 19°51'13.30" N
	Longitudes	78°53'31.53"E to 78°54'19.82" E
SoI Topo sheet No.	56 I/13.	
Company's Name	M/s. Shree Bajrang Sales Pvt. Ltd.	
Accredited Consultant and certificate no.	M/s. SrushtiSeva Private Limited NABET/EIA/1821/SA0107 Valid till 05/12/2021	
KML file	Submitted	
Seismic zone	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	171.09 ha

4. ToR details:

ToR Proposal No.	IA/MH/MIN/66799/2017
Online application date for Form-I	21.07.2017

EAC meeting dates for ToR	July 29-30, 2015 (Non-Coal Mining Committee), 11-12 th July 2018 (Violation Committee), 8 th -9 th March 2021.
ToR Letter No.	23-172/2018-IA.III (V)
ToR grant Date	28.06.2021
Production capacity	Limestone: 0.2 MTPA ROM: Plan period : 2,60,000; Conceptual period: 8,00,000; Total: 10,60,000
Mineral reject	Plan Period: 13,000 Conceptual Period: 40,000 Total: 53,000
Murrumic Soil/ Murrum	Plan Period: 17,800 Conceptual Period: 70050 Total : 87850
EIA/EMP uploaded on	27.11.2021

5. Lease Details:

Grant of Mine lease by Govt. of Maharashtra	Order no.	MMN-1120/48/IND-9
	Date	03.01.2003
Execution mine lease	The Mining Lease was executed for a period of 30 years i.e., from 25.04.2005 to 24.04.2035.	

6. Mining plan details:

Mining Plan(approved by Indian Bureau of Mines/DMG)	Letter No.	YTL/LST/MPLN-826/NGP-2021
	Date	22.07.2021
	Approval period	2020-21 to 2024-25
Mining Parameters	Quantitative Description	
Bench Height	5 m	
Bench Width	6 m	
Method of Mining	Opencast Mechanized Mining	
Individual bench slope	<85°	
Overall pit slope	45°	
Drilling/Blasting	Drilling will be carried out by using wagon drill machine having 100 mm diameter and blasting will be performed with 83 mm diameter explosive.	
Transportation details	ROM produced from the mine will be manually sorted at the mining site. Mineral rejects will be transported to the designated mineral reject dump located in northern part of the mine lease area. Limestone & Dolomite will be transported to the mineral stack yard and from there to the user industry by tippers of 20 tonne capacity. The	

	Hiwardara Limestone & Dolomite Mining Project is connected to the PWD road through 1.2 km kutchra road followed by 1.1 km Private tar road. The PWD road further connects to the MukutbanWani MDR 234 at 3.1 km distance. Project proponent submitted that they will strengthen & blacktop the 1.2 km kutchra road after obtaining necessary permission from District Administration.
Life of mine	About 62 years
Traffic assessment	The Project envisaged production of 0.2 MTPA ROM from the Mine. Out of the 0.2 MTPA, 0.19 MTPA graded limestone & Dolomite shall be directly dispatched to the Cement Plants/ Steel plants. About 5% of the ROM shall be generated as Mineral rejects. Material transport per day: 633 TPD Mode of transport: 20 Tonne capacity tippers No. of tippers required per day: 32 No.s Additional traffic (Office vehicles, water tankers, etc): 8 No.s Total additional traffic: 40 trips per day

7. Land Area Breakup:

Private land	116.02 Ha
Government land	55.07 Ha
Total Mining lease area	171.09 ha

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

Particulars	Particular's Name	Distance & Directions
Nearest Village	Nerad village	1.0 km N of the Lease Boundary.
Nearest Town	Wani	25 km North
Nearest Roadway	Nagpur Hyderabad NH-7 MukutbanWani MDR 234	35 km W 0.25 km W
Nearest Railway station	Central Railway WaniChanak Branch Railway line:	35 km, W
Water Bodies	LaliyaNala Vaidarbha River Penganga river Mukutban Lake Kosara village pond Paunar village pond	0.1 km N 0.56 km NE 6.7 km E 5.1 km SW 3.8 km W 10 km W

9. Water requirement:

Total water requirement	20 KLD	Dust Suppression on haul roads, working face, dump area, wet drilling etc.	16 KLD
		Plantation	2 KLD
		Domestic and Drinking Requirement	2 KLD
Source	Water will be obtained from mine pit (accumulated rain water, when available) and by authorised tanker supply water		

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

Forest Land/Protected Area/Environmental Sensitivity Zone	Yes/No	Details
Forest Land	Yes	Chilai RF (Adjacent, S) Babapur RF (1.8 km NE) Junoni RF (2.5 km E) Kayar RF (3.3 km N) Pimpri RF (5.7 km NE) Ruikot RF (2.6 km W) RF near Hirapur (7.1 km SW) Akapur RF (5.8 km SE) Protected Forest (6.7 km S)
National Park	No	
Wildlife Sanctuary	No	

11. Green belt/plantation details:

Year	Area (sqm)	Plantation (no.)
2020-21	12500	2500
2021-22	12500	2500
2022-23	12500	2500
2023-24	12500	2500
2024-25	12500	2500
Total	50000	10000

12. Baseline details:

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

13. Public Hearing Details: Since the Public hearing for this project was already conducted on 02.05.2015, the EAC exempted this project from conducting public hearing again. A total budget provision of Rs. 16.50 Lakh has been made to conduct activities to address the issues raised by the public during public hearing for the project.

14. Court case details:

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

Affidavit	The project proponent submitted the Affidavit dated 09.07.2018 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.
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16. Details of the EMP:

S.No.	Particulars	Annual Cost (Rs. in Lakhs)
1	Ambient Air Quality Monitoring	2.10
2	Ambient noise levels Monitoring	0.42
3	Water quality & ground water depth monitoring	1.00
4	Soil Quality Monitoring	0.18
5	Monitoring of plantation Survival rate (in-house)	-
6	Monitoring of CSR activities (In-house)	-
7	Occupational Health (Medical check-up)	0.31*
Total		3.70

*Separately included in OH&S Budget

17. Details of project cost and employment:

Particulars	Details
Capital Cost for EMP	Rs.29.84 Lakhs
Recurring Cost for EMP	Rs.14.77 Lakh/annum
Project Cost	Rs. 112 Lakhs
Employment	52 persons

18. Observation and Recommendation of the Committee:

The proposal for Environmental Clearance was considered in the 43rd EAC meeting held during 14th to 16th December, 2021. After detailed deliberations, the Committee observed that the project proponent submitted the plantation plan as 10,000 no. of

plants in 5 years which was not adequate for 171.09 ha of mine lease area. The Committee also noted that the project proponent had mentioned as no violation in form 2. Therefore, the Committee **deferred** the proposal due to want of following information:

- 1) The project proponent needs to include 3% of the total EMP cost saved during the violation period and to added in CRAP in the cost of damage assessment. The damage assessment must indicate the revised project cost ,taking into consideration of the land and equipment and structures .
- 2) A total budget provision of Rs. 16.50 Lakhs has been made to conduct activities to address the issues raised by the public during public hearing conducted on 02.05.2015for the instant proposal. The project proponent needs to submit that how will the budget of Rs. 16.50 Lakhs be utilized in two years and to be of capital in nature and specific and monitorable.
- 3) The project proponent needs to submit the revised total damage assessment cost (Air as per EEA norms,Water as per CGWA notification dated 24th Sept 2020 and 3% of the net profit accrued for the production during violation period to be added in CRAP).
- 4) The project proponent needs to calculate and submit the cost of construction of 9 m road and include in the EMP budget. Also, PP needs to submit the post project monitoring cost.
- 5) The project proponent needs to revise and submit the plantation/Green belt plan of 3 years including the completion of peripheral plantation in 2 years.
- 6) In Form-2, project proponent mentioned that proposal does not attracts violation. The project proponent needs to correct the information and mention the details of violation for further appraisal.

2.4 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, Consultant: M/s Environmental Engineers and Consultants Pvt. Ltd.] –EC

EAC Meeting Details:

EAC meeting	43 rd EAC meeting
Date of Meeting	14 th to 16 th December, 2021

The proposal of M/s Puthalam Constructions Pvt. Ltd. is for grant of Environmental Clearance for Building Stone Mine with the production capacity of 1,05,268 MTA MTPA 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. The mine lease area is located between Latitude 11°51'59.77" to 11°52'04.05" N and Longitude 75°42'48.67" to 75°42'55.04" E. The mine lease area falls in Seismic Zone III and toposheet no. C43D09. The category of the project is Category "B", Project or Activity 1(a) – 4 for Mining of Mineral as per EIA Notification S.O. 1533 (E), dated 14th September 2006 and subsequent amendments. The project proponent applied at MoEF&CC as SEIAA, Kerala does not exist at present.

2. The project proponent has submitted form – 2 for application of Environmental Clearance on 30.11.2021 vide proposal no. IA/KL/MIN/241192/2021. The project proponent has submitted form 1, PFR, EMP, Approved Mining Plan, Cluster Certificate, LOI and DSR as per 2016 format for the appraisal of the proposal. The project proponent submitted that Letter of Intent was obtained vide letter no. 9142/M3/2020 on 02 Nov 2020 for a period of 1 year. The Eco-friendly Mining Plan prepared by an Indian Bureau of Mine (IBM) approved Recognized Qualified Person (RQP) has been approved by Mining & Geology Department, Govt. of Kerala vide Letter No. DOC/M-1433/2020 dt. 28/12/2020 for mining lease area 2.0235 hectares. The project proponent submitted that life of mine is about 8 years. The mine lease area of 2.0235 ha is a private land. The targeted production of mine is 1,05,268 MTA. The project proponent submitted that total project cost is Rs. 4.06 Crore and direct manpower requirement is 45 persons.

3. Observation and Recommendation of the Committee:

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.

2.5 Proposal for Terms of Reference for Granite (Building Stone) Quarry Mine with the production capacity of 4,00,000 MTPA in the mining lease area of 10.1903 ha located at Re Survey Block No -003, Re Survey Nos: 172/1527, 172/1232, 172/1228, 172/1213, 1523, 1862, 172/1212, 172/1134, 172/1137, 172/1201, 172/1221, 172/1120, 172/1238, 172/1136, 172/1135, 172/1119, 172/2275, 172/1526, 172/1200, 172/1239, 1240 of Kodyathur Village & Re Survey Block No -001, Un Survey Nos: 153/597, 153/598, 153/604, 153/601, 600 of Kumaranellur Village, Kozhikode Taluk, Kozhikode District, Kerala state by M/s Palakkal Granite Product Pvt Ltd.–[File No:J-11015/107/2021-IA-II(NCM), Proposal No: IA/KL/MIN/240784/2021] –Terms of Reference

EAC Meeting Details:

EAC meeting	43 rd EAC meeting
Date of Meeting	14 th to 16 th December, 2021

The proposal of M/s Palakkal Granite Product Pvt Ltd. is for grant of Terms of Reference for Granite (Building Stone) Quarry Mine with the production capacity of 4,00,000 MTPA in the mining lease area of 10.1903 ha located at Re Survey Block No -003, Re Survey Nos: 172/1527, 172/1232, 172/1228, 172/1213, 1523, 1862, 172/1212, 172/1134, 172/1137, 172/1201, 172/1221, 172/1120, 172/1238, 172/1136, 172/1135, 172/1119, 172/2275, 172/1526, 172/1200, 172/1239, 1240 of Kodyathur Village & Re Survey Block No -001, Un Survey Nos: 153/597, 153/598, 153/604, 153/601, 600 of Kumaranellur Village, Kozhikode Taluk, Kozhikode District, Kerala. The mine lease area is located between Latitude 11°17'46.03"N to 11°18'1.58"N and Longitude 76° 2'56.36"E to 76° 3'10.00"E. The mine lease area falls in Seismic Zone III and toposheet no. 58A/3. The category of the project is Category "B", Project or Activity 1(a) – 4 for Mining of Mineral as per EIA Notification S.O. 1533 (E), dated 14th September 2006 and subsequent amendments. The project proponent applied at MoEF&CC as SEIAA, Kerala does not exist at present.

2. The project proponent has filled form -1 for application of Terms of Reference on 25.11.2021 vide proposal no. IA/KL/MIN/240784/2021. The project proponent has submitted form 1, PFR, Approved Mining Plan, Cluster Certificate and LOI for the appraisal of the proposal. The project proponent submitted that Letter of Intent was obtained vide letter no. DOZ/M-2230/2021 on 17/11/2021. Mining plan was approved vide letter no. DOZ/M-2230/2021 dated 17.11.2021. The project proponent submitted

that life of mine is about 10 years. The mine lease area of 10.1903 ha is a private land. It has been proposed to excavate a maximum of 4,00,000 MT per annum of Granite Building Stone by open cast semi-mechanized method. Total minable reserve available is 39,49,573 MT of stone. The project proponent submitted that total project cost is Rs. 4.85 Crore and direct manpower requirement is 35 persons.

3. Observation and Recommendation of the Committee:

The proposal for Environmental Clearance was considered in the 43rd EAC meeting held during 14th to 16th December, 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.

DAY 3: 16th December, 2021 (Thursday)

3.1 Proposal for Environmental Clearance for Litariya China Clay, Ball Clay & Silica Sand Mine with enhancement in the production capacity 95,000 TPA to 2,80,000 TPA in the mining lease area of 86.90 ha located at Village Litariya, Tehsil Jaitaran, District Pali, Rajasthan by Dariyav Kanwar- [Proposal no: IA/RJ/MIN/240552/2018; File No. IA-J-11015/39/2017-IA-II(M); Consultant: Ambiental Global Private Limited] – EC

EAC Meeting Details:

EAC meeting	43 rd EAC meeting
Date of Meeting	14 th to 16 th December, 2021

2. Project details:

Name of the Proposal	Ball Clay, China Clay & Silica sand Mining Project	
Location	Village	Litariya
	Tehsil/Taluka	Jaitaran
	District	Pali
	State / UT	Rajasthan
	Latitudes	26°20' 15.53" to 26°20' 59.65"N
	Longitudes	73°53'14.46" to 73°53'54.66"E
	SolTopo sheet No.	45F/15

Lease holder's name	DariyavKanwar
Accredited Consultant and certificate no.	Ambiental Global Private Limited NABET/EIA/1922/IA0047
KML file	Submitted
Seismic zone	II

3. Category details:

Category of the project	Category "B1", Project or Activity 1(a) – 3 for Mining of Mineral
Provisions	EIA Notification dated 14 th September 2006
Mining lease Area	86.90 ha
Reason for applying at MoEF&CC	System generated ToR was issued by MoEF&CC on 25.05.2018. No general condition exists

4. ToR/EC Details:

ToR Proposal No.	IA/RJ/MIN/62995/2017
Online application date for Form-I	3 rd March 2017
EAC meeting date for ToR	27 th -28 th April 2017 and 34 th Meeting on 27 th -30 th July 2021
ToR Letter No.	IA-J-11015/39/2017-IA-II(M)
ToR grant date	25.05.2018 (Standard ToR)
Production capacity	280,000 MTPA
Waste	50888 MT (Five Year)
Total Excavation	1099181 MT (Five Year)
EIA/EMP uploaded on	12/06/2019 to SEIAA
Previous EC details	Letter No. J-11015/361/2006-IA.II(M) dated 19th June 2009 for enhancement of production from 12,000 TPA to 95,000 TPA. And Letter No. J-11015/16/2003-IA.II(M) dated 29th November 2004 for production 12,000 TPA.

5. Lease Details:

Granted Prospecting License	Area	86.90 Ha.
	Execution date	01.05.1997
	PL No.	This is an existing mining lease
Application for the Mining lease area and Date	01.07.1994	
Validity of mine lease	Lease validity has been extended for 50 years vide letter no. ME/SOJAT/MAJOR/ML/7/1994/213 dated 08.12.2016 and valid upto 30.04.2047	

6. Mining plan details:

Mining Plan(approved by Indian Bureau of Mines/DMG)	Letter No.	SME/JO/CC/SOJAT/MINOR/ML)/07/1994/7178
	Date	24.01.2017
	Validity	Upto 23.01.2022
Mining Parameters	Quantitative Description	
Bench Height	3.0mtr	
Bench Width	More than 5 meter	
Method of Mining	Semi-mechanized opencast method	
Individual bench slope	45Degree (Max.)	
Overall pit slope	45 Degree (Max)	
Drilling/Blasting	No drilling and blasting will be carried out as mineral is soft in nature.	
RoM output size	2.80 Lac TPA of China Clay, Ball Clay, Silica Sand	
Life of mine	51 Years	
Transportation details	Mineral will be transported by Trucks and dumpers	
Dumpers capacity	10 Tonne	

7. Land Area Breakup:

Private land	84.70 Ha.
Government land	2.20 Ha.
Total Mining lease area (MLA)	86.90 Ha.

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

Particulars	Particular's Name	Distance &Directions
Litaria	Litaria village	2.0km in South
Railway Station Bilara	Railway Station	30 km in South west

9. Water requirement

Total water requirement	8 KLD	Fresh water	8 KLD
		Treated water	NA
Source	Water will be source from tubewells from nearby villages through tankers water supply.		
Permission	Not required as no ground water will be abstracted from ground water from project site.		

10. Presence of Environmentally Sensitive areas in the study area

Forest	Land/Protected	Yes/No	Details	of
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Area/Environmental Zone	Sensitivity	Certificate/letter/Remarks
Forest Land	No	Certificate of DFO vide letter no. F()2019-20/survey/2240 dated 30.04.2019
National Park	No	
Wildlife Sanctuary	No	

Schedule-1 species	Yes/No	Details of Certificate/letter/Remarks
Schedule-I species	No	

11. Green belt/plantation details:

Proposed area for green belt/plantation	28.67 Ha. (11.4Ha. Within lease area and remaining about 17.27 Ha. Will be carried out at earmarked place outside the lease area.
Budget for green plant & plantation till the end of life of mine.	Rs. 4.0 Lac. Per annum
Particulars for Green belt/plantation	Area covered (in Ha)
7.5 m barrier & non-mineralized zone	4.28 Ha. barrier

12. Baseline details:

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

13. Public Hearing Details:

Advertisement for PH with date	17.01.2019
Date of PH	21.02.2019
Venue	AtalSeva Kendra, Gram Kanecha, Jaitaran, District Pali
Chaired by	Hon'ble ADM
Budget proposed for addressing issues raised during PH	Rs. 2.5 Lac for five years

14. Court case details:

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

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

Particulars	Letter no. and date
Certified EC compliance report	F.No.IV/Env./R/MINE-454/744/09/43 dated 11.04.2018
Certified past production	ME/Sojat/Static/2017/ 509/10 Dated 20.06.2018 and ME/Sojat/Minor/ 7/994/493 dated 05.05.2021

17. Details of the EMP

Activities	Capital cost (Crores)	Recurring cost (Lakhs/annum)
Plantation, Air Pollution control, Greenbelt development, Env. Monitoring	0.1	0.05

18. Details of project cost and employment:

Particulars	(Rs. In Crore)
Capital Cost for Environment Protection	10 Lac
Budget for addressing the Public Hearing issues	2.5 Lac for Five Years
Total Cost for EMP	10 Lac
Recurring Cost for EMP	5.0 Lac per annum
Project Cost	150 Lac (1.50Crore)
Employment	65 persons

19. Observation and Recommendation of the Committee:

The proposal for Environmental Clearance was considered in the 43rd EAC meeting held during 14th to 16th December, 2021. After detailed deliberations, the Committee observed that the project proponent and the consultant could not explain the KML and could not answer the queries of the Committee members. The Committee also noted that the PP submitted the certified compliance report dated 11.04.2018. The baseline data was collected in 2017. The Committee also noted through KML file the mining activities have been carried out outside the mine lease boundary. Therefore, the Committee **deferred** the proposal due to want of following information:

- 1) The project proponent needs to submit the latest certified compliance report.
- 2) The project proponent needs to collect the baseline data i.e. ambient air, noise, water and soil quality data for one week, revalidate, compare with the 2017 baseline data and submit.

- 3) The project proponent needs to submit the letter stating that no mining has been carried out outside the mine lease boundary duly authenticated by the DMG.
- 4) The project proponent needs to submit the certified past production details.
- 5) The project proponent needs to submit a justification for triple jump in production and demonstrate the capability.

3.2 Proposal for amendment in ToR for Iron Ore Production from 1.60 to 4.50 MTPA With Total Excavation of 26.42 MTPA (Iron Ore ROM -7.85 MTPA, Manganese ore ROM-1.34 MTPA, Top Soil-0.19 MTPA & Waste – 17.04 MTPA) along with Proposed 7.0 MTPA Ore Beneficiation Plant, 1.2 km Down Hill Conveyor System & 0.15 MTPA Crushing & Screening Plant by M/s Sandur Manganese and Iron Ores Ltd. - [File No. IA-J-11015/45/2021-IA-II(M); Proposal No. IA/KA/MIN/241725/2021] – Amendment inToR

EAC Meeting Details:

EAC meeting	43 rd EAC meeting
Date of Meeting	14 th to 16 th December, 2021

2. Project details:

Name of the Project	Amendment in Terms of Reference for The Sandur Manganese & Iron Ores Ltd. (MLA 1860.10 Ha.) for Increase of Iron Ore Production from 1.60 To 4.50 MTPA with a total Excavation of 26.42 MTPA (Iron Ore ROM -7.85 MTPA, Manganese ore ROM-1.34 MTPA, Top Soil-0.19 MTPA & Waste – 17.04 MTPA) along with proposed 7.0 MTPA Ore Beneficiation Plant, 1.2 km Down Hill Conveyor System, & 0.15 MTPA Crushing & Screening Plant.	
Location	Village	Deogiri, Subbarayanahalli, Ramgad & Kammuthuru Villages
	Tehsil/Taluka	Sandur
	District	Bellary
	State / UT	Karnataka
	Latitudes	14°58'38.11"N-15°5'43.77"N
	Longitudes	76°28'8.41"E-76°39'13.93"E
	SoI/Topo sheet No.	57-A/8,57-A/12 and 57-B/9.
Company Name	The Sandur Manganese & Iron Ores Limited.	
Accredited Consultant Organisation and its	B.S. Envi – Tech Pvt. Ltd NABET/EIA/1922/RA 0174	

certificate no.	
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 and 2(b) Mineral beneficiation
Provisions	EIA Notification dated 14 th September 2006
Mining lease Area	1860.10 ha

4. ToR Details

ToR Proposal No.	Amendment in ToR: IA/KA/MIN/241725/2021 dated 30.11.2021 Previous ToR: IA/KA/MIN/215583/2021 - 17 Jun 2021
Online application date for Form-I	ToR Amendment: 30.11.2021 ToR: 17 Jun 2021
Documents Submitted	Form-3, Revised Form – 1, Revised Pre-Feasibility Report, Covering letter, Survey Numbers
EAC meeting date	Sep 29, 2021, Jun 28, 2021
ToR Letter No.	IA-J-11015/45/2021-IA-II(M)
ToR grant Date	17 November 2021
Production capacity	Amendment in ToR Requested: Increase of Iron Ore Production from 1.60 to 4.50 MTPA Previous ToR Granted: Increase of Iron Ore Production from 1.60 to 3.85 MTPA
Soil	Amendment in ToR Requested: 0.19 MTPA Previous ToR Granted: 0.113 MTPA
Waste	Amendment in ToR Requested: Waste - 17.04 MTPA Previous ToR Granted: Waste - 13.8039 MTPA Haematitic Siliceous Ore (waste) - 0.699 MTPA
Ore Beneficiation Plant and the Conveyor system	Amendment in ToR Requested: 7.0 MTPA Ore Beneficiation Plant, 1.2 KM Down Hill Conveyor System Previous ToR Granted: 2.0 MTPA Ore Beneficiation Plant, 1.2 KM Down Hill Conveyor System

Total Excavation	Amendment in ToR Requested: 26.42 MTPA Previous ToR Granted: 20.3199 MTPA
Crusher	Amendment in ToR Requested: 0.15 MTPA Crushing & Screening plant Previous ToR Granted: 1.85 MTPA Crushing & Screening plants (Stationary & Mobile)

5. Lease Detail

State Government granted Prospecting License	Area	Mining Lease granted on 01.01.1954 for an area of 7511 Ha
	Execution date	
	PL No.	
Application for the Mining lease area and Date	1953	
Additional information	<ul style="list-style-type: none"> Initial Mine Lease: 01.01.1954 for a period of 20 years, valid up to 31 December 1973 First Renewal of Mine Lease: For 20 years valid up to 31 December 1993. Second Renewal of Mine Lease: For another period of 20 years, valid up to 31 December 2013 Third Renewal of Mine Lease: Renewed and Mining lease executed w.e.f., 1 January 2014 for period of 20 years valid up to 31 December 2033 	

6. Mining plan

Mining Plan (approved by Indian Bureau of Mines/DMG)	Letter No.	IBM Lr. No. 279/281/91/BNG/805 (Period: 2018-19 to 2022-2023)
	Date	05.10.2018
Mining Parameters	Quantitative Description	
Bench Height	7.5 meters	
Bench Width	More than 7.5 m	
Method of Mining	Opencast mining	
Individual bench slope	70 degree	
Overall pit slope	Less than 45 ⁰	
Drilling/Blasting	Deep-hole drilling & blasting and use of HEMM with Excavator & dumper combination.	
RoM output size	0-100mm	
Transportation details	By Tipper/Lorry. (under this proposal, downhill)	

	conveyor is proposed and work is in progress as per the directions of the Hon'ble Supreme Court vide Order dated 7 December 2018)
Dumpers capacity	Tippers with capacity 16 to 21 Tonnes

7. Land Area Breakup

Private land	-
Government land	Revenue area - 247.38 Ha Forest area - 1612.72 Ha (Forest Clearance obtained)
Total Mining lease area	1860.10 ha

8. Water requirement

Total water requirement	Present consumption: 1090 m ³ /day Additional -1990 m ³ /day
Source	Bore wells within the mining lease area Rain water harvesting and TungaBhadra Dam.
Permission	Obtained NOC from Karnataka Ground Water Authority -1225 m ³ /day

9. Presence of Environmentally Sensitive areas in the study area

Forest Land/Protected Area/Environmental Sensitivity Zone	Yes/No	Details of Certificate/letter/Remarks
Forest Land	Yes	Forest Clearance was obtained from MoEF&CC vide letter no: F.No - 8-17/94-FC on 14.03.2007 for an area of 1615.64 ha of Forest Land involved in the Mining Lease area.
National Park	No	-
Wildlife Sanctuary & Forest	No	-

Schedule-1 species	Yes/No	Details of Certificate/letter/Remarks
Schedule-I species	Yes	Indian Sloth Bear, Four-horned Antelope, Indian Leopard, Indian Pangolin

10. Green belt/plantation details

Proposed area for green belt/plantation	361 Ha
Budget for green plant & plantation till the end of life of mine.	448 Lakh
Budget for nursery	Already exists

Particulars for Green belt/plantation	Area covered (in Ha)
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7.5 m barrier & non-mineralized zone	54.67
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11. Court case details

Court Case	No court case is pending against the project
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12. Details of project cost and employment:

Particulars	Budget (Rs. In Crore)
Capital Cost for Environment Protection	10.0
Budget for addressing the Public Hearing issues	0.60
Total Cost for EMP	Rs 10.6
Recurring Cost for EMP	Rs 1.03
Project Cost	450
Employment	Present manpower : 2034 Additional Manpower : 852

13. Observation and Recommendation of the Committee:

The proposal for Amendment in Terms of Reference was considered in the 43rd EAC meeting held during 14th to 16th December, 2021. After detailed deliberations made by the Project Proponent and the Consultant, the Committee **recommended** the proposal for grant of amendment in ToR for Iron Ore Production from 1.60 to 4.50 MTPA with total excavation of 26.42 MTPA (Iron Ore ROM -7.85 MTPA, Manganese ore ROM-1.34 MTPA, Top Soil-0.19 MTPA & Waste – 17.04 MTPA) along with Proposed 7.0 MTPA Ore Beneficiation Plant, 1.2 km Down Hill Conveyor System & 0.15 MTPA Crushing & Screening Plant by M/s Sandur Manganese and Iron Ores Ltd. subject to the following specific conditions in addition to specific conditions mentioned in ToR letter dated 17.11.2021 and all other conditions will remain unchanged:

- 1) 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.
- 2) The project proponent shall conduct the public hearing for the total Excavation of 26.42 MTPA as per the procedure prescribed in the EIA Notification, 2006.
- 3) There is a change in beneficiation plant capacity i.e. 2.0 MTPA to 7.0 MTPA. The project proponent shall include Impact Assessment Report showcasing the mitigation measures to be taken in the EIA/EMP report.
- 4) The project proponent shall address the peak production and normative

production in the impact assessment report.

- 5) The project proponent shall revise the EMP budget accordingly particularly in view of the change in capacity of beneficiation plant and incorporate in the EIA/EMP report.

3.3 Proposal for Environmental Clearance for Mudhvay Limestone Mine with the production capacity of 12.18 MTPA (ROM) [4.38 MTPA limestone production, 8.14 MTPA over-burden & 0.36 MTPA inter-burden excluding top-soil] and installation of 1200 TPH Crusher from Mining in the mining lease area of 233.5 ha located at Village Mudhvay, Taluka Lakhpat, District Kachchh, Gujarat by M/s Shree Cement limited - [Proposal no: IA/GJ/MIN/73109/2018; File No. IA-J-11015/23/2018-IA.II(NCM); Consultant: Vimta Labs Ltd.] – EC

EAC Meeting Details:

EAC meeting	43 rd EAC meeting
Date of Meeting	14 th to 16 th December, 2021

2. Project details:

Name of the Proposal	Proposed Mudhvay Sub-Block 'B' Limestone Mine by Shree Cement Limited with Limestone production capacity of 4.38 Million TPA, Over-burden 8.14 Million TPA, Inter-burden 0.36 Million TPA & Top soil 0.44 Million TPA [Total Excavation-12.88 Million TPA excluding Top soil/ Total Excavation- 13.32 Million TPA including Top soil] and installation of 1200 TPH capacity Crusher within a Mining Lease Area of 233.5 ha	
Location	Village	Mudhvay
	Tehsil/Taluka	Lakhpat
	District	Kachchh
	State / UT	Gujarat
	Latitudes	23° 42' 43.6432" N to 23° 43' 59.9313" N
	Longitudes	68° 41' 11.9388" E to 68° 41' 53.2506" E
	Soil Toposheet No.	F42C9 (41 A/9), F42C10 (41 A/10), F42C13 (41A/13), F42C14 (41 A/14)
Company's Name	Shree Cement Limited	
Accredited Consultant and certificate no.	Vimta Labs Ltd. Certificate No. NABET/EIA/1720/SA 088 Validity: 8 th February, 2022	
KML file	Submitted	
Seismic zone	V	

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
Mining lease Area	233.50 ha

4. ToR/EC Details:

ToR Proposal No.	IA/GJ/MIN/73109/2018
Online application date for Form-I	20 th February, 2018
Documents Submitted	Form-I, PFR, KML file
EAC meeting date	TOR: EAC meeting held during 22 nd -23 rd , March 2018
ToR Letter No.	J-11015/23/2018-IA.II(M)
ToR grant Date	12 th April, 2018
Production capacity	Production Capacity of 4.38 Million TPA
Soil	Topsoil: 0.44 Million TPA
Waste	OB: 8.14 Million TPA, IB: 0.36 Million TPA
Total Excavation	Total excavation is 12.88 Million TPA excluding Topsoil of 0.44 Million TPA/ Total excavation is 13.32 Million TPA including Topsoil of 0.44 Million TPA
Crusher	1200 TPH
EIA/EMP uploaded on	17 th November, 2021

5. Lease Details:

Letter of Intent	Letter of Intent was granted vide Letter. No. MCR-102016-2146-CHH dated 21 st June 2017 and further extended the validity of LOI up to 20 th June 2022 vide letter no MCR-102016-2146-CHH dated 18 th June 2020.
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6. Mining plan details:

Mining Plan (approved by Indian Bureau of Mines/DMG)	Mining Plan Approval obtained from Indian Bureau of Mines, Gandhinagar vide letter 684(4)(1)/MP-109/2018-GNR dated 21 st March 2018
Mining Parameters	Quantitative Description
Bench Height	10 m
Bench Width	30 m
Method of Mining	Fully mechanized opencast
Overall pit slope	45°
Drilling/Blasting	The production of mineral involves surface miner, excavation, crushing, loading & transportation activities. No drilling will be conducted for

	limestone mining. Over burden will also be excavated by Hydraulic excavator without use of drilling & blasting. However, if required, drilling & blasting will be done, if compact & hard over burden is encountered which cannot be excavated without blasting.
RoM output size	-90 mm
Life of mine	64 years
Transportation details	It is proposed to load limestone by wheel loader into the dumper and dumper will transport it to impact crusher of 1200 TPH. Crushed limestone will be sent to the proposed adjacent cement plant by covered conveyor belt. The material will be dispatched to the stock piles located within proposed cement plant premises, through the covered belt conveyor.
Dumpers capacity	55 tonner

7. Land Area Breakup:

Private land	90.50 ha is private agriculture land (Santhani land).
Government land	143 ha
Total Mining lease area (MLA)	233.50 ha

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

Particulars	Particular's Name	Distance & Directions
Nearest village	Mudhvay village	0.5 km, SSW
Nearest town	SK Verma Nagar	3.6 km, SSE
Nearest highway	GJ SH-6 (Lakhpat - Tithal) GJ SH-42 (Lakhpat - Bhachau) NH-8A (Naliya-Narayan Sarovar Road)	2.3 km, W 11.3 km, E 14.3 km, SW
Nearest railway station	Naliya railway station	54 km, S
Water bodies	1. Koriyani dam 2. MudhvayNala 3. Kali Nadi 4. KapurasiNadi 5. Godhatad Dam 6. Kori Creek 7. Arabian sea	1.2 km, SW 2.0 km, SW 4.1 km, NE 4.3 km, W 5.0 km, SSW 4.7 km, NW 28.0 km, SW

9. Water requirement

Total water requirement	150 KLD @ TDS of 300 ppm
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Source	Ground water and mine pit including dewatering within the ML area
Permission	CGWA application is submitted vide Letter No. 21-4/7457/GJ/MIN/2021 Dtd. 31 st May 2021

10. 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	Mudhway RF is 0.1 km, S	Not applicable
National Park	Nil within 10 km radius	
Wildlife Sanctuary	Core zone of Narayan Sarovar Wildlife Sanctuary is 3.3 km in South direction and Eco-Sensitive Zone is 2.4 km in South direction from ML area	

Schedule-1 species	Yes/No	Details of Certificate/letter/Remarks
Schedule-I species	Yes	<p>One Mammal i.e. Chinkara (<i>Gazellabennettii</i>), one Reptile i.e. Monitor Lizard (<i>Varanus bengalensis</i>) and two bird i.e. Indian Peafowl (<i>Pavocristatus</i>) and Eurasian spoonbill (<i>Platalealeucorodia</i>)</p> <p>A detailed environment management and conservation plan is approved by Principal Chief Conservator of Forests (PCCF) vide Letter no.WLP/32/C/298-99/2021-22 dated: 18th September 2021 and about Rs.109 Lakhs of budget is allocated for 4 years</p>

11. Greenbelt&plantationdetails:

Proposed area for greenbelt &plantation	166.8 ha
Budget for green plant& plantation till the end of life of mine.	Capital Rs. 112.59 Lakhs and recurring Rs. 11 Lakhs per annum
Budget for nursery	
Particulars for Greenbelt&plantation	Area covered (in Ha)

7.5 m barrier & non-mineralized zone	Total greenbelt will be 11.8 ha including 7.00 ha will be developed as safety zone in southern part of mine lease
50 m safety zone of nallah, roads, electric lines	
500 m safety zones of nearest habitation villages	

12. Baseline details

Baseline Data (Air / Water / Noise / Soil / Ground water table/ others)	
Period of baseline data collection	Winter Season (1 st December 2019 to 29 th February 2020)
Season (Summer / Pre-monsoon / Post-monsoon / Winter)	Winter Season

Ambient Air Quality Results

a	No. of Ambient Air Quality (AAQ) Monitoring Locations	12				
b	Details of AAQ Monitoring					
	Criteria Pollutants	Unit	Minimum Value	Maximum Value	98th Percentile Value	Prescribed Standard
	PM ₁₀	µg/m ³	34.5	57.7	57.1	100
	PM _{2.5}	µg/m ³	14.9	29.5	29.5	60
	SO ₂	µg/m ³	12.5	20.7	20.6	80
	NO ₂	µg/m ³	16.5	30.2	29.4	80
	CO	µg/m ³	146	344	327	2000
	O ₃	µg/m ³	5.0	16.8	15.8	100
	NH ₃	µg/m ³	<20.0		<20.0	400
	Pb	µg/m ³	<0.1		<0.1	1.0
	BaP	ng/m ³	<0.1		<0.1	1.0
	As	ng/m ³	<1.0		<1.0	6.0
	Ni	ng/m ³	<1.0		<1.0	20
	C ₆ H ₆	µg/m ³	<1.0		<1.0	5
	- Criteria Pollutants: - (PM ₁₀ , PM _{2.5} , SO ₂ , NO _x , other parameters specific to sector) - Unit:-(Micro Gram per Meter Cube, Nano Gram per Meter Cube, Mili Gram per Meter Cube, NA)					

Water Quality Analysis Results

a.	No. of Ground Water Monitoring Locations	3 Locations				
b.	Details of Ground Water Monitoring					
Criteria Pollutants: - (pH, TSS, TDS, Total Hardness, Chlorides, Fluoride, Heavy Metals, other parameters specific to the sector)						
	Criteria Pollutants	Unit	Maximum Value	Minimum Value	98 Percentile Value	Prescribed Standard
	pH	-	7.67	7.31	-	6.5 – 8.5 (NR)

TDS	mg/l	1760	598	-	500 (2000)
Total Hardness	mg/l	598.8	293.6	-	200 (600)
Chlorides	mg/l	648.6	167.5	-	250 (1000)
Fluoride	mg/l	0.7	1.0	-	1.0 (1.5)
- Unit: - (mg/l, NA)					

a.	No. of Surface Water Monitoring Locations		6 Locations		
b.	Details of Surface Water Monitoring				
- Parameter: - (pH, DO, BOD, COD, other parameters specific to the sector)					
- Unit: - (mg/l, NA)					
Criteria Pollutants	Unit	Maximum Value	Minimum Value	Classification of inland water body (ISO10500)	
pH	-	7.81	7.08	B	
DO	mg/l	5.9	5.1	B	
BOD	mg/l	<3	<3	B	
COD	mg/l	90	10		
EC	µg/S	70201	1095		

Ground Water Table	
i	Range of Water Table Pre-Monsoon Season (Meters Below Ground Level (m bgl)):
	From 12 mbgl
	To 14 mbgl
ii	Range of Water Table Post-Monsoon Season (Meters Below Ground Level (m bgl)):
	From 10 mbgl
	To 12 mbgl
iii	Whether Ground Water Intersection will be there (Yes / No)?
	Yes. Application of CGWA permission for groundwater withdrawal was submitted on 31 st May 2021 vide application no. 21-4/7457/GJ/MIN/2021 and same is under process.

Noise Monitoring Observations

a.	No. of Ambient Noise Monitoring Locations		12 Locations		
b.	Details of Noise Monitoring (<i>Multiple Entries Allowed</i>)				
Parameter	Unit	Maximum Value	Minimum Value	Prescribed Standard	
L _{day}	dB(A)	52.8	41.9	55	
L _{night}	dB(A)	48.5	38.3	45	
- Parameter: - (Leq(Day), Leq(Night))					

- Unit :- (A-weighted decibels (dB(A)))

Soil Characteristics

a.	No. of Soil Monitoring Locations (<i>Multiple Entries Allowed</i>)	8 Locations		
	Parameter	Unit	Maximum Value	Minimum Value
	pH	-	8.3	7.3
	Nitrogen	kg/ha	127.6	40.7
	Phosphorus	kg/ha	290.8	46.4
	Potassium	kg/ha	162.8	42.1
	Electric Conductivity	μS/cm	534	110
- Parameter :- pH, N(Nitrogen), P(Phosphorus), K(Potassium)				

13. Public Hearing Details

Advertisement for PH with date	25.07.2021
Date of PH	01.09.2021
Venue	MotiMudhvay, common plot, besides primary school, Mudhvay village, Koriyani Post, Lakhpat Tehsil, Kachchh, Gujarat
Chaired by	Additional District Magistrate
Main issues raised during PH	Major issues raised in the PH are for provision for Agriculture & Compensation of land losers, Animal husbandry, employment, Skill development, health, education, Community Welfare & Infrastructure Development, drinking water and plantation etc.
Budget proposed for addressing issues raised during PH	Out of the total capital cost (Rs. 247.5 Crores) of the project, Rs. 495.00 Lakhs has been earmarked towards activities as per the Compliance of issues raised during public hearing as environmental, socio-economic management plan for three years based on local needs.

14. Court case details:

Court Case	No court case is pending against the project
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15. Details of the EMP:

S. N	Particulars	Capital (Rs. In Lakhs)	Annual Recurring Cost (Rs. In Lakhs)
A.	Air Quality Monitoring and Management		
	<i>Mitigative Measures</i>		
1	Water tanker for water sprinkling on haul roads	40	5

	and mining areas/activities.		
2	Operation & Maintenance of Motor Grader & Soil Compactor for haul road maintenance	15	3
3	Pollution Control Device (Bag filter at Crusher) Equipment and its installation Cost, Operation & Maintenance	50	2.5
	Sub Total	105	10.5
<i>Monitoring</i>			
1	2 Ambient Air Quality Monitoring Stations at Mine Site and Mine Crusher Site	4	1
2	Fugitive dust emission monitoring	-	0.6
	Sub Total	4	1.6
B. Water Quality Monitoring and Management (Rain Water Harvesting in ML Area)			
<i>Mitigative Measures</i>			
1	Garland Drain around waste dump	4.84	0.24
2	Retaining Wall around waste dump	32.28	0.32
3	Construction of Protective Bunds along the water reservoir	5	0.1
	Sub Total	42.12	0.6648
<i>Monitoring</i>			
1	Installation of 2 Piezometers along the periphery in the premises	2	0.2
2	Ground water quality analysis	-	0.2
3	Workshop Waste Water Quality Analysis (monthly) as well as maintenance of oil-water separators	1	0.65
	Sub Total	3	1.05
C. Noise and Vibration Monitoring and Management			
<i>Mitigative Measures</i>			
1	Procurement of one Blast Vibration Measuring Instrument	5	-
	Sub Total	5	-
<i>Monitoring</i>			
1	Peak Particle Velocity Monitoring for nearest habitation i.e. Mudhvay, Koriyani&Maldo Villages	-	1
2	Ambient Noise Monitoring	0.5	0.2
3	Work Place Noise Level Monitoring	-	0.1
4	Providing Ear muffs/plus to workers working in high noise area	0.5	0.05
	Sub Total	1	1.35
D.	Occupational Health Camps for Employee	10	1

	and Mine Worker		
E.	Skill Development & Vocation Training for Employee & mine worker	10	0.5
F.	Greenbelt and Plantation Development		
1	Plantation on backfilled area of 155 ha with total 2,32,500 saplings from 6th year onwards upto the life of mine @ 1500 plants per hectare	104.63	10.0
2	7.5 meter Greenbelt along the mine lease periphery (4.8 ha.) and 100 meter safety zone (7.0 ha.) covering an area of 11.8 ha with total saplings of 1,7700 from 1st to 5th year @ 1500 plants per hectare	7.97	1.0
	Sub Total	112.59	11.00
	Grand Total (A+B+C+D+E+F)	292.71	27.66

16. Details of project cost and employment:

Particulars	(Rs. In Crore)
Capital Cost for Environment Protection	2.927
Budget for addressing the Public Hearing issues	4.95
Total Cost for EMP	7.8771
Recurring Cost for EMP	0.2766
Project Cost	247.5
Employment	46 persons

17. Observation and Recommendation of the Committee:

The proposal for Environmental Clearance was considered in the 43rd EAC meeting held during 14th to 16th December, 2021. After detailed deliberations, the Committee observed that Narayan Sarovar Wildlife Sanctuary is 3.3 km in South direction and Eco-Sensitive Zone is 2.4 km in South direction from ML area. Nocturnal animals were not studied during the preparation of Wildlife Sanctuary Plan. Therefore, the Committee **deferred** the proposal due to want of following information:

- 1) The project proponent needs to submit the revised data for air quality modeling, noise and vibration indicating clearly the sources and the receptors within the mine boundary and the predictive concentration at the mine boundary particularly towards the Narayan Sarovar Wildlife Sanctuary.
- 2) The project proponent needs to submit the noise and vibration monitoring data due to crusher as well as quarrying including the transportation within the mine lease boundary in the direction of Narayan Sarovar Wildlife Sanctuary.

- 3) The project proponent needs to submit a table containing 3 year breakup for EMP for public hearing concerns indicating the controlled measures suggested with its efficacy for reduction in air and noise emissions. The project proponent should also indicate what measures are suggested along with design and cost.
- 4) The project proponent needs to incorporate a study on nocturnal animals in the approved Wildlife Conservation Plan and submit accordingly.

3.4 Proposal under the provision of Ministry's Notification S.O. 1530 (E) dated 06.04.2018 for Environmental Clearance for Sheopura - Kesarpura Limestone Mine of M/s Shree Cement Limited for mining of limestone with reduction in limestone production capacity from 4.0 Million TPA to 1.5 Million TPA & Inter Burden 0.65 MTPA (Total excavation of 2.15 Million TPA) [existing EC granted with capacity of 4.0 Million TPA under EIA Notification, 1994] and existing operating crushers of 800 TPH, located near Village Sheopura & Kesarpura, Tehsil Masuda, District Ajmer, Rajasthan (ML Area 856.8 ha) - [Proposal no: IA/RJ/MIN/228200/2020; File No. J-11015/102/2018-IA.II(M); Consultant: Enkay Enviro Services Pvt. Ltd.] – Reconsideration of EC

EAC Meeting Details:

EAC meeting	43 rd EAC meeting
Date of Meeting	14 th to 16 th December, 2021

2. Project details:

Name of the Proposal	Sheopura- Kesarpura Limestone Mine (ML Area: 856.8 Ha & ML No.: 24/97(R) for reduction of Limestone Production capacity from 4.0 Million TPA to 2.0 Million TPA (Inter-burden: 0.81 Million TPA {Total Excavation: 2.81 Million TPA} and Increase in Limestone Crushing Capacity of existing Crusher of 800 TPH from 2.0 to 4.0 Million TPA (3.2 Million TPA Crushed Limestone & 0.8 Non Crushed Limestone by Increase Crushing hours from 7.5 hrs. to 12 hrs. with installation of additional screening) in Existing Mine	
Location	Village	Sheopura & Kesarpura
	Tehsil/Taluka	Masuda
	District	Ajmer
	State / UT	Rajasthan
	Latitudes	26°01'25.25" to 26°05'21.63" N
	Longitudes	74°22'16.18" to 74°25'07.60" E
	Sol Toposheet No.	45 J/4(G43I4), 45J/8(G43I8), 45J/12(G43I12), 45K/1(G43O1), 45K/5(G43O5) & 45K/9(G43O9)
Company's Name	Shree Cement Limited	

Accredited Consultant and certificate no.	Enkay Enviro Services Pvt. Ltd., Jaipur NABET/EIA/2023/RA0183 Validity till 12 th Dec. 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	EIA Notification dated 14 th September 2006
Mining lease Area	856.8 Ha

4. ToR/EC Details:

ToR Proposal No.	IA/RJ/MIN/75624/2018 for ToR Approval & IA/RJ/MIN/152110/2020 for ToR Amendment
Online application date for Form-I	28.06.2018 for ToR Approval & 05.05.2020 for ToR Amendment
EAC meeting date	28.09.2018 for ToR Approval & 24.06.2020 for ToR Amendment 30.09.2021 for Environmental Clearance
ToR Letter No.	IA-J-11015/102/2018-IA-II(M)
ToR Grant Date	19.11.2018 for ToR Approval & 09.07.2020 for ToR Amendment
Production capacity	2.0 Million TPA
Waste (Interstitial Clay/Screen rejects/Waste)	0.81 Million TPA
Total Excavation	2.81 Million TPA
Crusher	Increase in Limestone Crushing Capacity of existing Crusher of 800 TPH from 2.0 to 4.0 Million TPA (3.2 Million TPA Crushed Limestone & 0.8 Non Crushed Limestone by increasing crushing hours from 7.5 hrs to 12 hrs with installation of additional screening
EIA/EMP uploaded on	08.09.2021
Previous EC details	J-11015/170/2004- IA. II (M), dated 31/03/2005 under EIA Notification, 1994
Additional details	Proposal was submitted as per the provisions of made in Office Memorandum issued by MoEF&CC dated 06.04.2018 for validity consideration of earlier EC and reduction of Limestone Production capacity from 4.0 Million TPA to 2.0 Million TPA.

	The Proposal was considered in 38 th EAC Meeting on 30.09.2021.
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5. Lease Details:

Application for the Mining lease area and date	Mining Lease was transferred in favour of Shree Cement Limited dated 08.06.1982 and transfer deed was executed on 02.08.1982.	
Validity of mine lease	50 years(up to 31.03.2030 from the date of renewal)	
Mine lease grant	Letter No.	P4(69) Khan/Group-4/78
	Date	12.06.1980
First renewal of mine lease	It was granted vide letter no. Pa.16(9)/Khan/Group-1/2000 dated 08.02.2001.	

6. Mining plan details:

Mining Plan (approved by Indian Bureau of Mines/DMG)	LetterNo.	584 (4) (3) (1801)/ 2019 – RCM/ AJM/ 1585	
	Date	01.10.2019	
	Validity	2019-20to2022-23	
Mining Parameters	Quantitative Description		
Bench Height	9 m		
Bench Width	More than 22 m		
Method of Mining	Fully-Mechanized Opencast Mining		
Individual bench slope	75 ⁰ to 80 ⁰		
Overall pit slope	45 ⁰		
Drilling/Blasting	Spacing:	5-7m	
	Burden:	4-5m	
	Depth of drill hole:	9-9.5m	
	Powder factor:	6.5 to 7 tonnes per Kg of Explosive	
	Dia of drill Hole:	150-165mm	
	Output/hole	183.75Tonnes	
	Number of holes/round	15 to 45 Nos.	
	Total Tonnage/blast	9000T-27000T	
RoM output size	Upto 2.0m ³		
Life of mine	19Years		
Transportation details	By dumper, Tipper/OLBC		
Dumpers capacity	35Tonner		

7. Land Area Breakup:

Private land	319.98ha
Government land	536.82ha
Total Mining lease area (MLA)	856.80 ha

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

Particular	Distance(km)	Direction
	From Lease Boundary	
Village/Town		
Lulwa Village (A Part of Habitation)	--	Within the lease area
Jhak Village (A Part of Habitation)	--	Within the lease area
Soona Chodsiya (Entire Habitation)	--	Within the lease area
Kathat (Entire Habitation)	--	Within the lease area
Jhunjharan Ka Bariya Village	0.22	NW
Highway		
NH-158 (Merta to Mandal)	8.1	WNW
SH-39 (Ajmer to Nagaur)	0.52	SSE
NH-8 (Dehli to Mumbai)	6.2	W
Railway Station		
Beawar	9.3	NW
Water Bodies		
Bara Talav	2.43	SE
Sameta Talav	4.23	SE
Gulab Sagar	7.70	SSE
Burha Nala	8.95	E
Makarera Talav	10.90	NW
Devi Sagar	10.90	SE
Makarera River	11.73	NW

9. Water requirement

Total water requirement	250KLD	Fresh water	30 KLD
		Treated water	220KLD
Source	Ground Water & Mine Pit Water		
Permission	CGWA vide NOC no. CGWA/NOC/MIN/ORIG/2021/11430 dated 23.03.2021 which is valid up to 22.03.2023 for dewatering in SK Mine. CGWA/NOC/IND/ORIG/2021/11282 dated 02.03.2021 and valid up to 01.03.2023 for Integrated Cement Project for domestic purpose.		

10. Presence of Environmentally Sensitive areas in the study area

Forest Area/Environmental	Land/Protected Sensitivity	Yes/No	Details of Certificate/letter/Remarks
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Zone		
Forest Land	No	Authenticated Map showing there is no forest land/ NP/ WLS in the 10 Km Radius from the lease boundary-From Office of DCF, Ajmer Letter vide no. F14()Mining/DCF/2021-22/2696-97, dated 21.05.2021.
National park	No	
Wildlife Sanctuary	No	

11. Green belt/plantation details:

Proposed area for green belt/plantation	272.9ha
Budget for green plant & plantation till the end of life of mine.	341.125 Lakh

Particulars for Green belt/plantation	Area covered (in Ha)
7.5 m barrier & non-mineralized zone	208
Additional information	20.0 (Backfilling) 55.0 (Waste Dump)

12. Baseline details:

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, 2019
Addition information	Additional Noise Monitoring has been conducted in October 2021 as per Additional Detail Sought

13. Public Hearing details

Additional information	PH Exempted as the Public Hearing has already been conducted on 28.05.2003 for expansion of limestone production from 2.0 to 4.0 Million TPA and this public hearing was conducted for a higher capacity of 4.0 Million TPA and hence, the same was not required for reduction in production capacity from 4.0 Million TPA to 2.0 Million TPA. The same has been evident in the letter issued from MoEF&CC, New Delhi vide letter no. J-11015/102/2018-IA-II (M) dated 09.07.2020.
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14. Court case details:

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

Affidavit/Undertaking	The company hereby undertake by affidavit dtd. 13.06.2020 that it will comply with all the statutory
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	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.
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16. Previous EC compliance and production details:

Particulars	Letter no. and date
Certified EC compliance report	Certified report on compliance of earlier Environmental Clearance Conditions was obtained vide letter no. IV/ENV/R/MINE-213/323/05 dated 29.09.2021.
Certified past production	ME/Beawar/RA/2020/2 dated 12.06.2020

17. ADS Details:

ADS points	Observation of the EAC Committee	Response
1	The project proponent needs to submit the correct baseline results and incorporate them in the EIA/EMP report. Ambient noise levels were found inaccurate during the day and night time. Revised EIA/EMP report needs to be uploaded on PARIVESH portal.	The corrected baseline results including revised monitoring of ambient noise level carried out in October, 2021 has been incorporated in revised EIA/EMP report.
2	The project proponent needs to submit the latest remote sensing imagery from NRSA to get a clear picture of compliance of plantation and greenbelt on the mine site.	The latest remote sensing imagery RS-2 LISS IV FMXF of 5m resolution from NRSA for 10 th October, 2021 has been obtained. According to latest remote sensing imagery and interpretation of the same, it is observed that the existing plantation within the mine lease area is 70.0 ha, which is shown on Satellite image. Apart from this 37.50 ha area also developed with plantation outside near the mine lease area under social forestry. Detailed information is incorporated in Chapter 3 sub-

		section 3.4 of revised EIA/EMP report.												
3	The project proponent needs to submit the justification of implications of reduction in production capacity from 4.0 MTPA to 2.0 MTPA towards environment, plantation and greenbelt and Environmental management plan.	<p>The Environmental Clearance was issued by MoEF&CC dated 31.03.2005 for enhancement of limestone production capacity from 2.0 Million TPA to 4.0 Million TPA.</p> <p>The lease at any point of time did not achieve production beyond 2.0 Million TPA as the cement plant which was to cater the limestone production was not floored and the CTO was obtained only for 2.0 Million TPA consistently.</p> <p>There will not be any implications of proposed reduction in production capacity from 4.0 to 2.0 Million TPA on greenbelt/ plantation, environment and environment management plan in terms of EMP cost, pollution load and this will be remain same in future to support the environment and ecosystem of the mining lease and area.</p>												
4	The project proponent needs to submit the breakup of total excavation before and after the reduction of production capacity in a tabular form.	<p>Details and breakup of total excavation before and after production capacity are as follows:</p> <table border="1"> <thead> <tr> <th>Parameter</th> <th>Total Excavation Details Before Reduction of Limestone Production as on date</th> <th>Total Excavation Details After Reduction of Limestone Production-proposed</th> </tr> </thead> <tbody> <tr> <td>Total Excavation</td> <td>2.35 Million TPA</td> <td>2.81 Million TPA</td> </tr> <tr> <td>Limestone</td> <td>1.394932 Million Tonnes</td> <td>2.0 Million TPA,</td> </tr> <tr> <td>Interburden</td> <td>0.955068 Million Tonnes</td> <td>0.81 Million TPA,</td> </tr> </tbody> </table>	Parameter	Total Excavation Details Before Reduction of Limestone Production as on date	Total Excavation Details After Reduction of Limestone Production-proposed	Total Excavation	2.35 Million TPA	2.81 Million TPA	Limestone	1.394932 Million Tonnes	2.0 Million TPA,	Interburden	0.955068 Million Tonnes	0.81 Million TPA,
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		Over burden		Nil																																																								
		Top Soil	Nil	Nil																																																								
5	The project proponent needs to submit the quantity of total excavation separately i.e. quantity of mineral, soil, OB/IB and waste in same unit.	<p>Year wise total excavation including IB, OB, Top Soil and Ore Mineral of Mining Plan period and Conceptual Stage are given in below mentioned table:</p> <p style="text-align: center;">YEAR-WISE DEVELOPMENT PROPOSED DURING PLAN PERIOD</p> <table border="1"> <thead> <tr> <th rowspan="2">Year</th> <th rowspan="2">Total tentative Excavation (Million Tonnes)</th> <th rowspan="2">Top soil (Million Tonnes)</th> <th rowspan="2">OB (Million Tonnes)</th> <th rowspan="2">IB (Million Tonnes)</th> <th rowspan="2">Total waste (Million Tonnes)</th> <th colspan="2">ROM</th> <th rowspan="2">ROM: Waste (Million Tonnes)</th> </tr> <tr> <th>Ore (Million Tonnes)</th> <th>Mineral Reject (Million Tonnes)</th> </tr> </thead> <tbody> <tr> <td>II Year 2019-20</td> <td>2.81</td> <td>0.00</td> <td>0.00</td> <td>0.81</td> <td>0.81</td> <td>2.0</td> <td>0.00</td> <td>1:0.41</td> </tr> <tr> <td>III Year2 020-21</td> <td>2.78</td> <td>0.00</td> <td>0.00</td> <td>0.78</td> <td>0.78</td> <td>2.0</td> <td>0.00</td> <td>1:0.39</td> </tr> <tr> <td>IV Year2 021-22</td> <td>2.80</td> <td>0.00</td> <td>0.00</td> <td>0.80</td> <td>0.80</td> <td>2.0</td> <td>0.00</td> <td>1:0.40</td> </tr> <tr> <td>V Year2 022-23</td> <td>2.79</td> <td>0.00</td> <td>0.00</td> <td>0.79</td> <td>0.79</td> <td>2.0</td> <td>0.00</td> <td>1:0.40</td> </tr> <tr> <td>Sub-Total of</td> <td>11.18</td> <td>0.00</td> <td>0.00</td> <td>3.18</td> <td>3.18</td> <td>8.0</td> <td>0.00</td> <td>1:0.40</td> </tr> </tbody> </table>			Year	Total tentative Excavation (Million Tonnes)	Top soil (Million Tonnes)	OB (Million Tonnes)	IB (Million Tonnes)	Total waste (Million Tonnes)	ROM		ROM: Waste (Million Tonnes)	Ore (Million Tonnes)	Mineral Reject (Million Tonnes)	II Year 2019-20	2.81	0.00	0.00	0.81	0.81	2.0	0.00	1:0.41	III Year2 020-21	2.78	0.00	0.00	0.78	0.78	2.0	0.00	1:0.39	IV Year2 021-22	2.80	0.00	0.00	0.80	0.80	2.0	0.00	1:0.40	V Year2 022-23	2.79	0.00	0.00	0.79	0.79	2.0	0.00	1:0.40	Sub-Total of	11.18	0.00	0.00	3.18	3.18	8.0	0.00	1:0.40
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remaining Plan Period																				
Upto Conceptual stage	122.51	0.00	0.00	40.95	40.95	81.56	0.00	1:0.40												
6	The project proponent needs to submit the commitment that crushing hours will be restricted to two shifts and crushing shall not be operated during the night. Night shift is strictly prohibited. Revise the EIA/EMP report accordingly.	The undertaking for no operation of crusher executed in night hours has been submitted on dated 30.09.2021.																		
7	The project proponent needs to submit the earlier Public Hearing concerns and incorporate the action plan in the EIA/EMP report. The project proponent also needs to submit the status of action plan whether all the issues	Public Hearing was conducted on 28.05.2003 in the presence of Sub- Divisional Magistrate, Masuda, Ajmer (Rajasthan) for the expansion of limestone production capacity from 2.0 Million TPA to 4.0 Million TPA. The same has been incorporated in chapter 7 sub-section 7.1 of Revised EIA/EMP report.																		

	have been addressed till date.	
8	The project proponent submitted that four villages are present in the mine lease. Therefore, install blast monitoring station around all the village boundaries. Record the data and submit six monthly reports to IRO after obtaining Environmental Clearance from the Ministry.	Blast monitoring station is being monitored regularly near to Lulwa Village and same is showing in map is incorporated in Presentation Remaining 3 blasting monitoring station at Jhak, Kathat & Jhunjharankabariya will be provided for monitoring of blasting data and this will be submitted to IRO, Jaipur in six monthly compliance status report after obtaining Environmental Clearance from the Ministry.
9	The project proponent needs to submit the exact location of crusher and also mention the noise levels near the location where crusher is installed.	The surface layout plan super imposed on Toposheet showing the location of crusher onmap is incorporated in Presentation The noise level monitoring has been conducted again at crusher and the nearest surrounding villages during the month of October 2021 and results are incorporated in Chapter 3, sub-section 3.7.1 of Revised EIA/EMP report.
10	The project proponent needs to submit the protection measures to be taken for the void created from the view point of villagers as well as commitment that no road network shall be disturbed during the operation period of time.	Following protection measures w.r.t nearest habitation, during operation and post operational phase is as follows: Operational Phase: ➤ Display of warning signs and display boards in local vernacular language to alert people about the danger. ➤ Strict access control will be maintained at active mining areas. ➤ Fencing of 1.5m will be installed all along the boundary of the reservoir with gated single entry and exit in the area. ➤ Plantation at the outer edge of the berm.

		<ul style="list-style-type: none">➤ Regular ward and watch will be done in the area.➤ System of alerting the villagers will be installed by using sirens & hooters etc.➤ Mock drills will be conducted at regular intervals to check alertness.➤ Solar powered flash lights is being/will be installed at identified locations for warning at night hours.➤ Controlled blasting with NONEL, bottom hole initiation system and Delay detonators is being/ will be adopted and optimum use of explosive energy is being/ will be made by optimizing explosive charge per hole and per delay.➤ Blasting is being/will be avoided during foggy weather and high wind velocity. Blasting is being/will be carried out during fixed hours in day time only with all the precautions stipulated in the Mines Act.➤ Monitoring of blasting operations at all nearest habitation/schools on regular basis and submission of ground vibration reports in compliance with EC/CFO/DGMS.➤ Drilling & blasting operation is being/will be restricted to 300m from the permanent structure not owned by lease.➤ Plantation on lease boundary, both sides of the roads (avenue plantation), around the crusher, in between the nearest habitations and mining faces to reduce/restrict noise levels. <p>Post Operational Phase:</p> <ul style="list-style-type: none">➤ The reclaimed area will be planted with local native species.➤ The mine pit area reclaimed as water body
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		<p>will be fenced properly and manned to restrict entry of local people and cattle.</p> <ul style="list-style-type: none"> ➤ Plantation will be carried out all around the pit area. ➤ The mine pit water will be supplied to local people for agricultural and domestic purposes. ➤ Solar powered flash lights will be installed at identified locations for warning at night hours. <p>The protection measures will be taken for the nearest habitation is incorporated in Chapter 10 sub-section 10.3 of Revised EIA/EMP report.</p>
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18. Details of the EMP:

Environment Management Plan			
S. No.	Particulars	Capital Cost (Rs. In Lacs)	Recurring Cost/Annum (Rs. In Lacs)
I. Air Pollution Control & Management			
		74.00	10.90
II. Water Pollution Control, Management & Conservation			
		73.83	1.89
III. Ecological and Bio-diversity			
	Green Belt (Phase wise greenbelt development during course of mine)	406.10	20.30
IV. Social Aspects			
	Environmental Awareness Program (Vocational Training, SHG's etc.)	50	5.0
V. Community Development Activities			
	CSR Activities (Proposed)	45.00	11.25

Total	648.93	49.34
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20. Details of project cost and employment:

Particulars	Details (Rs. in Crores)
Capital Cost for Environment Protection	1.47
Budget for addressing the Public Hearing issues (Earlier conducted)	56.78
Total Cost for EMP	6.48
Recurring Cost for EMP	0.49
Project Cost	44.64
Employment	158 persons

21. Observation and Recommendation of the Committee:

The proposal for Environmental Clearance was considered in the 43rdEAC (Non-Coal Mining) meeting held during 14th – 16thDecember, 2021. After detailed deliberations made by the Project Proponent and the Consultant, the Committee **recommended** the proposal for Environmental Clearance under the provision of Ministry's Notification S.O. 1530 (E) dated 06.04.2018for Sheopura - Kesarpura Limestone Mine of M/s Shree Cement Limited for mining of limestone with reduction in limestone production capacity from 4.0 Million TPA to 1.5 Million TPA & Inter Burden 0.65 MTPA (Total excavation of 2.15 Million TPA) [existing EC granted with capacity of 4.0 Million TPA under EIA Notification, 1994] and existing operating crushers of 800 TPH in the mine lease area 856.8 ha, located near Village Sheopura&Kesarpura, Tehsil Masuda, District Ajmer, Rajasthan subject to the following specific conditions in addition to the standard EC conditions applicable for non-coal mining projects:

- 1) The Project Proponent shall strictly follow the mitigation measures provided in MoEFCC's Office Memorandum No. Z11013/57/2014-IA.II (M), dated 29th October, 2014.
- 2) The Project Proponent shall submit the progress report on the Environmental Management Plan to the Integrated Regional Office every year.
- 3) The Project Proponent should collect six monthly data on ambient air quality, noise and ground vibration by installing adequate no. of monitoring station should be submitted to IRO during EC Compliance monitoring.

- 4) The Project Proponent shall carry out the plantation with the survival rate of not less than 90% by planting 10 ft seedlings. Causalities should be replaced with new saplings every year and be counted separately other than the total proposed saplings. The data for such saplings should be furnished during six monthly compliance report along with the progressive plantation.
- 5) PP should also explore the possibility of using water body surface area for installing floating solar panels to generate solar power and supply to the villages.
- 6) The Project Proponent should explore the possibility for shifting to clean energy using electric equipment for cleaner production options to reduce the emission generated from various machineries.
- 7) Regular surveillance on Silicosis shall be carried through regular occupational health check-up of 1/3 of the persons every year.

3.5 Proposal for Terms of Reference of Chikla Manganese mine with expansion in production from 1,80,000 TPA to 4,00,000 TPA from underground, opencast and dump working in the MLA of 150.65 Ha located at Villages:Chikla, Yedurbuchi and Sitasaongi, Tehsil: Tumsar, District: Bhandara, Maharashtra by M/s MOIL Limited- [Proposal no: IA/MH/MIN/241672/2021; File No. IA-J-11015/46/2021-IA-II(M)] – ToR

EAC Meeting Details:

EAC meeting	43 rd EAC meeting
Date of Meeting	14 th to 16 th December, 2021

2. Project details:

Name of the Project	Chikla Manganese mine with expansion in production from 1,80,000 TPA to 4,00,000 TPA	
Location	Village	Chikla, Yedurbuchi and Sitasaongi
	Tehsil/Taluka	Tumsar
	District	Bhandara
	State / UT	Maharashtra
	Latitudes	21° 31' 56.45"N to 21° 33' 3.72"N
	Longitudes	79° 44' 30.11"E to 79° 46' 9.13"E
	SoI Topo sheet No.	55 O/10 and 55 O/14
Company Name	M/s MOIL Limited	
Accredited Consultant Organisation and its certificate no.	Wolkem India Limited. NABET/EIA/2124/RA216, valid till 05/02/2024	
KML file	Submitted	
Seismic zone	II	

1. Category details:

Category of the project	Category "A", Project or Activity 1(a) – 3 for Mining of Mineral
Provisions	EIA Notification dated 14 th September 2006
Mining lease Area	150.65 Ha (Forest area 70.07 ha +Government land 74.20 Ha + Private Land 6.38 ha)
Interstate boundary	Maharashtra & Madhya Pradesh boundary is 4.99 Km away from the mine site in the North direction.

4. ToR/EC Details

ToR Proposal No.	IA/MH/MIN/192471/2021 and IA/MH/MIN/241672/2021
Online application date for Form-I	19 th May, 2021 30 th November, 2021
EAC meeting date	32 nd EAC meeting dated 28.06.2021 whereas the Committee returned the proposal in present form
Automatic standard ToR grant date	3 rd December, 2021
Production capacity	Enhanced production capacity of 1,80,000 TPA from Underground to 4,00,000 TPA [from Underground (362000 TPA), Opencast(11000 TPA) and dump working (27000 TPA)] of Manganese Ore.
Waste	1 st five-year plan after grant of EC: Underground: Nil m ³ Opencast: 77,77,15 m ³ the overburden dumps will be terraced and stabilized with saplings. Dump working: 30,48,98 m ³ will be handled from dumps BD1, BD2 & BD3. The demineralized area will be planted with saplings.
Additional information	Excavation of Manganese ore for 1st five years: Underground- 16040000 MTPA Opencast – 55000 MTPA Dump – 135000 MTPA
Total Excavation	1st five-year plan after grant of EC. Underground : 1604000 m ³ Opencast: 809,000 m ³ Dump working: 135000 m ³ Grand total : 2548000 m ³
Crusher	40 HP, 35TPH existing capacity will be enhanced
Previous E.C details	Environmental Clearance was granted vide J-11015/84/2007-IA.II(M) dated 21/08/2007 for production

	capacity of 1,80,000 MTPA from underground.
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5. Lease Details:

Application for the Mining lease area and Date	150.65 Ha, initially granted on 10.07.1962 for a period up to 30.06.1982. First Renewal granted for a period up to 30.06.2002. Second Renewal granted for a period up to 30.06.2022.
Application for the Mining lease Date	150.65 Ha, application for further extension of mining lease for 20 years is submitted vide letter no. GM(Mines-PIng)/Chikla/RMN/2020-21/148 dated 06.10.2020 under Rule 3(2) of Mineral (Mining by Government Company) Rule 2015.
Validity of mine lease	Govt. of Maharashtra has granted the extension of mining lease over the said area vide letter number MLV-B-355/2021/3172, dated. 16.11.2021 for a period up to 30.06.2042.

6. Mining plan

Mining Plan (approved by Indian Bureau of Mines/DMG) (2002-03 to 2006-07)	Letter No.	BHD/MN/MPLN-262/NGP
	Date	30.05.2003.
1 st Scheme of mining (2007-08 to 2011-12)	Letter No & Date	314(3)2008-MCCM/S-1 Date 22/07/2008
2 nd Scheme of mining (2012-13 to 2016-17)	Letter No & Date	BHD/MN/MPLN-262/NGP Date 02/05/2013
3 rd Scheme of mining (2017-18 to 2021-22)	Letter No & Date	BHD/MN/MPLN-262/NGP-2017 on date 30/06/2017
	Letter No & Date	MLV-B-355/2021/3172, Dtd. 16.11.2021 for a period up to 30.06.2042.
Mining Parameters	Quantitative Description	
Bench Height	6 Meters	
Bench Width	10 Meters	
Method of Mining	Open cast Proposed Underground Expansion and Dump Mining Proposed.	
Individual bench slope	60°	
Overall pit slope	33°	
Drilling/Blasting	Dump Mining: As the dumps are loose, no drilling and blasting will be required. Underground Mining: As per the existing practice, drilling of the development headings	

	and in the slope will be carried out in wedge cut pattern and with control blasting.
RoM output size	250 mm x 250 mm
Life of mine	12 years
Transportation details	<p>Underground Mining:</p> <ol style="list-style-type: none"> 1. From face to pit bottom or loading point :- Tub of 24 cft will be transported by battery operated locomotives. 2. From pit bottom to surface: - By cage of vertical shaft by Tub of 24 cft 3. From surface to end use plant: - Tub of 24 cft will be push manually from vertical shaft to crushing plant. 4. Safety features provided on conveyor/ haulage track/ roadway:- Sufficient lighting is provided in haulage road, crosscut at an interval of 30 Mtrs. which may be used as manhole in haulage road. <p>Open Cast Mining:</p> <ol style="list-style-type: none"> 1. From workshop to opencast/dump site Transportation of ore and rock will be done by 10 – 25 tonner rear dumpers.
Dumpers capacity	10 – 25 tonner rear dumpers

7. Land Area Breakup

Private land	6.38 Ha
Government land	74.20 Ha
Total Mining lease area (MLA)	150.65 Ha
Additional information(if any)	Forest Land 70.07 Ha

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

Particulars	Villages/ Distance	Directions
Gobarwahi Railway Station	Gobarwahi	SW
SH54	1.62 km	W
SH251	10.24 km	SW
Dr. Babasaheb Ambedkar International Airport ,Nagpur	88 KM	SW
Town Gobarwahi	5 km	SW
Bawanthari River	4.83 Km	NE
Ambagarh Nadi	9.98 Km	SSW
Ambamai Nala	9.90 Km	SW
Dhoriya Nala	6.94 Km	SW
Blloni Nalla	5.84 Km	NNE

Chandpur Talab	2.92 Km	SE
Chandpur Nadi	7.82 Km	SE
Chandpur Left Bank Canal	9.12 Km	SE
Chandpur Right Bank Canal	7.30 Km	SE
Sitasaongi populated area	0.54 Km	S
Nearest Forests:		
Garra South RF	9.0 Km.	NNE
Kapurwihiri RF	7.4 Km.	NE
Phulchur RF	7.32 Km.	NEE
Chandpur North RF	Adjoining lease	
Chandpur South RF	2.1 Km.	S
South Bawanthari RF	7.4 Km.	W
North Bawanthari RF	9.3 Km.	NW
Musalkhapa RF	8.6 Km.	NW
Kapurwihiei PF	7.2 Km.	NE
Garra PF	8.4 Km.	NNE
Musalkhapa PF	8.1 Km.	NW

9. Water requirement

Total water requirement	170 KLD	Fresh water	100 KLD
		Dewatering	70 KLD
		Treated water	NIL
Source	Ground water		
Permission	<p>NOC from CGWA obtained vide letter no CGWA/NOC/MIN/ORIG/2019/6208 dated 17/10/2019 valid till 24/09/2021 for 170 KLD. Ground water required Fresh water (100 KLD) and dewatering (70 KLD).</p> <p>Renewal Application for CGWA applied vide application no. 21-4/458/MH/MIN/2016 on dated 10/07/2021.</p>		

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, 70.07 Ha	Forest Clearance to 70.07 Ha of revenue forest has been granted by Ministry of Environment and Forests, New Delhi vide their Letter No 8-51/99-FC dated 24.10.2000 and application for renewal was submitted on 11.10.2019.
National park		No	
Wildlife Sanctuary & Forest		No	

11. Green belt/plantation details

Proposed area for green belt/plantation	7.91 ha.
Budget for green plant& plantation till the end of life of mine.	Rs. 64 lakhs
Additional information	At present around 64.18 ha. Around 431306 saplings have been planted till date.

Particulars for Green belt/plantation	Area covered (in Ha)
7.5 m barrier & non-mineralized zone	7.91 ha.
50 m safety zone of nallah, roads, electric lines	There is no nallah in the lease; however avenue plantation has been done in mine.

12. Court case details

Court Case	No court case is pending against the project proponent
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13. Affidavit/Undertaking details

Affidavit/Undertaking	The project proponent submitted the Affidavit dated 21 st June 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.
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14. Previous EC compliance and production details:

Particulars	Letter no. and date
Certified EC compliance report	The project proponent submitted the compliance report to IRO, Nagpur vide letter dated 19.05.2020. Certified compliance report has not been received yet.
Certified past production	Past production details from 1993-94 to 2019-20 has been certified by DGM, Nagpur vide letter dated 25 th Sep,2020

15. Details of the EMP (Proposed)

Activities	Capital Cost (Rs.In Lakhs)	Recurring (Rs. In Lakhs)
Promoting education	40.0	3 Lakhs /year
Health care	30.0	4 Lakhs /year
Skill development and livelihood	20.0	3 Lakhs /year
Sanitation & drinking water supply	30.0	3 Lakhs /year

Rural development	50.0	5 Lakhs /year
Environment care	80.0	10 Lakhs /year
Total	250.0	30.0

16. Details of project cost and employment:

Particulars	Details
Capital Cost for Environment Protection	2% of the project
Total Cost for EMP	Rs.2.50 Cr.
Recurring Cost for EMP	0.30 Cr./year
Project Cost	Rs.122.2155 Crores
Employment	919 Workers

17. Observation and Recommendation of the Committee:

The proposal for Terms of Reference was considered in the 43rd EAC (Non-Coal Mining) meeting held during 14th – 16th December, 2021. After detailed deliberations made by the Project Proponent and the Consultant, the Committee **recommended** the proposal for grant of Terms of Reference for Chikla Manganese mine with expansion in production from 1,80,000 TPA to 4,00,000 TPA from underground, opencast and dump working in the MLA of 150.65 Ha located at Villages: Chikla, Yedurbuchi and Sitasaongi, Tehsil: Tumsar, District: Bhandara, Maharashtra by M/s MOIL Limited 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 should install the continuous ambient air quality monitoring stations in such numbers as per the scientific study and in consultation with CPCB.
- ii. The project proponent shall submit a detailed plan of accessing the dump for mineral extraction and EMP for handling the reject residue which is about 75% of the total handling. The project proponent shall also look into options such as (a) storing the dump rejects in a nearest sand storage area (b) Using it along the sand or putting it back to mine filling.
- 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 ascertain the impact of transportation and details of transportation route viz. (length of the road, type of road, passing through the

village or habitation) and mitigative measures to be taken for abatement of pollution due to transportation. As PP has proposed that the transportation route will be passing through the villages, hence PP should also explore the possibility of bypassing the village road for transportation of mineral.

- v. The Project Proponent should submit detailed conceptual plan along with map clearly showing the mitigation measures to be taken for protection of water bodies, Rivers, Nallahs, roads and habitations.
- vi. 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.
- vii. The Project Proponent needs to clearly bring out the land use/land cover classification of the mine lease area of 150.65 Ha along with the ownership of the land.
- viii. The Project Proponent needs to carry out the Public Hearing as per provisions of EIA Notification, 2006. PP should also submit the time bound action plan on concerns of the public 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 and desktops/tablets, infrastructure, and environment protection.
- ix. The project proponent shall carry out the assessment of impact due to the proposed project as per the guidelines issued by the Central Ground Water Authority from time to time and submit the same as a part of the EIA/EMP.
- x. The project proponent shall conduct hydrological study for projects involving intersection of ground water table as per the guidelines issued by the Central Ground Water Authority from time to time and submit the same as a part of the EIA/EMP.
- xi. The project proponent shall explore the possibility of reduction of specific water requirement by optimization / technology up gradation, etc. The efforts shall be delineated in the EIA/EMP.

- xii. The project proponent shall prepare the scheme for mandatory recycle/re-use of water as specified by the Central Ground Water Authority for different category areas seeking NoC for ground water withdrawal and shall submit as part of EIA/EMP report.
- xiii. The Project Proponent needs to submit the detailed conceptual plan along with map for proposed mining with reclamation plan in the EIA/EMP report.

List of members of Expert Appraisal Committee participated through VC

S.No.	Member Name	Member Address	Designation	14 th Dec. 2021	15 th Dec. 2021	16 th Dec. 2021
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	Yes	Yes	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	No	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. (Ms.) Asha Rajvanshi	Wildlife Institute of Inida, Chandrabani, Dehradun- 248001	Member	No	Yes	Yes
7	Shri G.P. Kundargi	Plot No. 32, MOIL Vatika, Chicholi Road, Fetri, Nagpur 441501, Maharashtra	Member	Yes	Yes	No
8	Dr. A.K.Malhotra	House no.33, Sector-11 Dwarka, 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. Mukesh Khare	Department of Civil Engineering, IIT, Delhi	Member	No	No	No
12	Mr. V. K. Soni	Government of India, Ministry of Earth Sciences, India Meteorological Department, Mausam Bhawan, Lodi Road, New Delhi – 110003	Member	No	No	No
13	Sh. Pankaj Kulakshethra	Regional Controller of Mines, IBM Block D, Second Floor, Indira Bhavan, Civil Lines, Nagpur – 440001.	Member	No	No	No
14	Sh. Ramawatar Meena	Representative of DGMS	Member	No	No	No
16	Shri Gowrappan	No. 6, Ganesh Avenue 2 nd Street, Sakthi Nagar, Porur, Chennai, TN – 600 116	Special invitee	-	Yes	-
17	Shri Pankaj Verma	2 nd Floor, Prithvi Block, Indira Paryavaran Bhawan, MoEF&CC, Jorbagh, New Delhi- 110003	Member Secretary	Yes	Yes	Yes
