

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

SUMMARY RECORD OF 49th MEETING OF THE COMMITTEE OF THE EXPERT APPRAISAL COMMITTEE FOR ENVIRONMENTAL APPRAISAL OF NON-COAL MINING PROJECTS CONSTITUTED UNDER THE EIA NOTIFICATION, 2006.

The 49th 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 19th to 21st April, 2022 through video conference. The list of participants is annexed herewith. After login of the Committee Members through video conference link provided by NIC, discussion on each of the Agenda Items was taken up ad-seriatim.

(1.0) Deliberation & Circulation on the Minutes of the 48thEAC Meeting (Non- Coal Mining) held on 28th - 30th March, 2022.

The minutes 48thEAC Meeting (Non- Coal Mining) held on 28th - 30thMarch, 2022 were placed before the members of the Committee.

DAY 1: 19th April, 2022 (Tuesday)

1.1 Proposal for Environmental Clearance of proposed stone mining project (Lolo Stone Deposit) with production capacity of 3,60,872 TPA over an area of 6.07 Ha along with Crushing & Screening Plant located at Plot no. - 2392 P, 2402 P, 2403, 2404, 2405 P, 2408 P, 2410 P, 2411 P, 2412 P, Khata no. 184,55 & 25, Mauza: Lolo, Block: Ramgarh, District: Ramgarh, Jharkhand of M/s Fairmine Resources Limited – [Proposal No: IA/JH/MIN/173744/2020; File No: J-11015/46/2020-IA-II(M)] – Environmental Clearance

EAC Meeting Details:

EAC meeting	49 th
Date of Meeting	19 th to 21 st April, 2022

2. Project details:

Name of the Proposal	Stone Mining from Lolo Stone Deposit along with Crushing & Screening plant, at Plot no. - 2392 P, 2402 P, 2403, 2404, 2405 P, 2408 P, 2410 P, 2411 P, 2412 P, Khata no.184, 55 & 25, Mauza – Lolo, Block – Ramgarh, District – Ramgarh, State – Jharkhand.	
Location	Village	Lolo

Minutes of 49th EAC Meeting (Non-Coal Mining) held during 19th to 21st April, 2022

	Tehsil/Taluka	Ramgarh
	District	Ramgarh
	State / UT	Jharkhand
	Latitudes	N23°33'33.64" to N23°33'44.94"
	Longitudes	E85°33'53.51" to E85°34'03.40"
	SoI Topo sheet No.	F45B10
Company's Name	M/s Fairmine Resources Ltd.	
Accredited Consultant and certificate no.	Crystal Consultants QCI/NABET/ENV/ACO/21/1921; Validity: 16/08/2024	
KML file	Submitted	
Seismic zone	II	

3. Category details:

Category of the project	Category "A", Project or Activity 1(a) for Mining of Mineral
Provisions	EIA Notification dated 14 th September 2006
Mining lease Area	6.07 Ha
General condition	The block is located in Ramgarh District in Jharkhand. This area has been declared as "Severally Polluted Area" by CPCB.

4. ToR Details:

ToR Proposal No.	IA/JH/MIN/173744/2020
Online application date for Form-I	17/09/2020
Documents Submitted	Form – I, Pre-Feasibility Report, Approved Mine Plan, Letter of Intent, KML File, Toposheet, District Survey Report, Cover Letter and Affidavit
ToR Letter No.	J-11015/46/2020-IA-II(M)
ToR grant Date	12/11/2020
Production capacity	3,60,872 TPA
Crusher	Yes, semi-mobile crusher with 250 TPH capacity in NW direction of the mine lease site.
EIA/EMP uploaded on	02/10/2021
Earlier EAC Meetings	1) 41 st EAC Meeting held during 15 th – 16 th November and 18 th November, 2021. 2) 45 th EAC Meeting held during 24 th , 25 th and 27 th January, 2022

5. ADS Details: The proposal was earlier considered in 45th EAC Meeting held during 24th, 25th and 27th January, 2022 wherein the Committee deferred the proposal and thereply was submitted by PP on 31.03.2022 which is as follows:

S. No	ADS raised	ADS reply
1	Air quality data generated as per the earlier ADS point no. 1 must be strengthened further by installing at least three stations at the downwind direction, one station in the core zone and one station as already installed in upwind direction. Data must be collected by a NABL accredited laboratory.	Ambient Air Quality data have been generated at three locations on downwind direction, 1 in the core zone and 1 in the upwind direction as already stationed earlier, by Yugantar Bharati Analytical & Environmental Engineering Laboratory, NABL certified Laboratory. Monitoring data & monitoring locations are submitted with the ADS reply.
2	Noise and vibration given that the noise levels at the source are in the range of 85-95 decibels and after the proposed noise barrier, it is reported in the range of 34-38 decibels. A supporting data through the case studies needs to be submitted for the review by EAC. Noise monitoring data is also appeared to be less than the actual levels. Therefore, this also needs to be re-done at the sensitive receptors and submit accordingly. The project proponent also needs to submit the detail of equipment's used for monitoring.	Fresh noise data have been generated at three sensitive receptors by Yugantar Bharati Analytical & Environmental Engineering Laboratory, NABL certified Laboratory. A write-up on placement of noise barrier for reduction of noise level enclosed with the ADS reply. Data sheet along with details on noise monitoring instrument and location of noise monitoring station is submitted with the ADS reply.
3	Maintenance of village road during transportation from mine to Highway as well as control of dust was indicated to left to local villagers. How the villagers would use the same road, should be properly	For water sprinkling of evacuation route villagers would be involved. A Self-Help Group would be created. Project proponent would arrange sprinkler tank with tractor for the SHG. SHG would be paid for the service. A short note is submitted with ADS reply.

	demonstrated. The project proponent also needs to submit the potential impacts on the villager's movement due to transportation and risk of accidents, if any, needs to be examined and submit	
4	Fixing permanent sprinklers from crusher to the mine should be explored and submit the undertaking regarding the same	Dust Control on Haul Road Connecting Quarry to Crusher For mitigating dust pollution due to Movement of Tippers carrying blasted stone boulders from quarry to crusher House, following mitigation measures would be provided: Regular repair & maintenance of the haul road. Fixed water jets alongside of road. They would be used for sprinkling of water on the road. Undertaking for the same is submitted.
5	Better environmental technologies for drilling and blasting such as rotary drill be examined and submit.	As discussed in the meeting, rotary drills are not predominantly used in Stone Aggregate mining. We have enquired from the drill suppliers, they have also expressed non suitability of rotary drill in Hard Rocks, and it is predominantly used in coal mines. It is proposed to deploy Rotary Percussive drill in Lolo stone Block with water jet to control the dust emission, however if any cost-effective alternative with better environmental control will be available, we will explore its possibility for usage in Lolo stone block.
6	The project proponent needs to submit the laboratory report of the monitoring results and the actual photographs needs to be submitted.	Monitoring result & field photographs are submitted with the ADS reply.

6. Lease Details:

Letter of Intent	Issued by	Government of Jharkhand issued LOI after open bidding for Lolo Stone Mining Block measuring 6.07 Ha. to M/s Fairmine Resources Limited for mining of stone.
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Minutes of 49th EAC Meeting (Non-Coal Mining) held during 19th to 21st April, 2022

	Letter No.	Kha.Ni (Nilami)-04/2019/1852
	Date	6th August, 2019
Validity of mine lease	10 Years	
Additional information	The project proponent submitted that there had been illegal mining over a patch of 0.56 ha confined to outcrop.	

7. Mining plan details:

Mining Plan(approved by Indian Bureau of Mines/DMG)	Letter No.	-
	Date	10/08/2020
	Validity	5 Years
Mining Parameters	Quantitative Description	
Bench Height	6m	
Bench Width	6m	
Method of Mining	Opencast (Mechanized)	
Individual bench slope	75°	
Overall pit slope	45°	
Drilling/Blasting	7 Blast Holes per day.i.e.259 Kg / Day	
RoM output size	200 mm	
Life of mine	10 Years	
Transportation details	By Road	
Dumper's capacity	20 T	

8. Land Area Breakup:

Private land	0.82 Ac.
Government land	14.18 Ac.
Total Mining lease area (MLA)	(15.00 Ac.)6.07 Ha.

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

Particulars	Particular's Name	Distance &Directions
Village	Lolo	300 m
Town	Ramgarh	08.00 km
Highway	NH 33	03.50 KM
Railway Station	Mael Railway Station	10.00 Km
Water Body	Damodar River	08.00 Km
The site is connected to NH – 33		

10. Water requirement:

Total water requirement	16.5 KLD	Fresh water	16.5 KLD
		Treated water	0 KLD
Source	Potable Demand (1.5 KLD) – Ground Water (100 mm Deep Tube Well) For other purpose (15.0 KLD) – Surface Water		

	(Storage created by Check Dam created on Nallah)
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11. Presence of Environmentally Sensitive areas in the study area

Forest Area/Environmental Zone	Land/Protected Area/Environmental Sensitivity	Yes/No	Details of Certificate/letter/Remarks
Forest Land		Yes	Protected forest on south side which is 1.5 Km away from project site.
National Park		No	
Wildlife Sanctuary		No	

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

12. Green belt/plantation details:

Proposed area for green belt/plantation	0.38 Ha.
Budget for green plant & plantation till the end of life of mine.	Rs. 5,00,000.00
Particulars for Green belt/plantation	Area covered (in Ha)
7.5 m barrier & non-mineralized zone	0.38 Ha.
Additional information	Single row plantation on both sides of evacuation route.

13. Baseline details:

Baseline Data (Air / Water / Noise / Soil / Ground water table/ others)		
Period of baseline data collection	October to December, 2020	
Season (Summer / Pre-monsoon / Post-monsoon / Winter)	Post Monsoon	
Air quality monitoring	PM10	33 µg/m ³ to 45 µg/m ³
	PM2.5	24 µg/m ³ to 32 µg/m ³
	SOx	<5 µg/m ³ to 16 µg/m ³
	NOx	<10 µg/m ³ to 18 µg/m ³
Water, Soil and Noise monitoring	They have been found to be in conformity to prescribed levels.	

14. Public Hearing (PH) Details

Advertisement for PH with date	Hindustan on 11/03/2021 The Pioneer on 10/03/2021
Date of PH	10/04/ 2021
Venue	Project Site
Chaired by	Addl. Collector
Main issues raised during PH	Pollution, Vibration, Employment to the local people, etc.

Minutes of 49th EAC Meeting (Non-Coal Mining) held during 19th to 21st April, 2022

Budget proposed for addressing issues raised during PH	Rs. 5,00,000.00 for road maintenance & environment pollution control measures Rs. 48,53,000.00.
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15. Court case details:

Court Case	No court case is pending
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16. Affidavit/Undertaking details:

Affidavit/Undertaking	Affidavit in accordance with the statutory requirement & judgment of Hon'ble Supreme Court dated 2nd August 2017 in writ Petition (civil) No. 114 of 2014 in the matter of common cause versus Union of India & Ores is submitted to MoEFCC.
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17. Details of the EMP

Capital Budget	Rs. (Crores)
Water Sprinkler	0.100
Garland Drains Decantation Pond Interception channel	0.050
Rain Water Harvesting Structure	0.050
Check Dam	0.100
Green Belt	0.070
Dust Control Measures Crusher House	0.050
Acoustic Screen in Crusher House	0.030
Dust Control Measures for the Drill	0.015
Avenue Plantation along evacuation road	0.030
Culvert on the Nallah crossing the link road	0.050
Socio Economic Development Schemes	0.050
TOTAL	0.595
Recurring Cost (Lakhs /Annum)	
Operation & Maintenance	5.00
Road Maintenance	5.00
Chemical for Dust Suppression	2.50
Environmental Monitoring	5.00
Annual Occupation Health Check – Up	2.50
TOTAL	20.00

18. Details of project cost and employment:

Particulars	(Rs. In Crore)
Capital Cost for Environment Protection	0.595
Budget for addressing the Public Hearing issues	Rs. 5,00,000.00 for road maintenance & environment pollution control measures Rs. 59,50,000.00.
Total Cost for EMP	0.595

Recurring Cost for EMP	0.20
Project Cost	4.7645
Employment	39 persons

19. Observation and Recommendation of the Committee:

The proposal was considered in the 49th EAC meeting held during 19th to 21st April, 2022. After detailed presentation made by the project proponent and the consultant, the Committee noted that since the project falls under critically polluted area as identified by CPCB and the data that was collected by the project proponent over a period of two days does not convince the committee that this project qualifies to come under critically polluted area. The project proponent was directed to present the factual data collected by recognized agency of CPCB/SPCB. Based on the evaluation of factual data collected at least over a period of one month needs to be submitted. The Committee also observed that the consultant did not perform well and the ADS reply submitted on 31.03.2022 was not satisfactory. Therefore, the Committee **deferred** the proposal and directed the project proponent to submit the above-mentioned information on PARIVESH portal along with the authenticated District Survey Report as per S.O.3611 (E) dated 25th July, 2018.

1.2 Proposal for Environmental Clearance for Anjali Rana Bordi Limestone Mining Project with expansion in production capacity from 14,000 TPA to 1,75,000 TPA over an area of 12.27 Ha located at Village: Anjali, Tehsil: Ranavav, District: Porbandar, Gujarat by M/s TATA Chemicals Limited – [Proposal No. IA/GJ/MIN/213741/2017; File No. IA-J-11015/100/2018-IA-II(M)] – Environmental Clearance

EAC Meeting Details:

EAC meeting	49 th
Date of Meeting	19 th to 21 st April, 2022

2. Project details:

Name of the Proposal	Proposal for Environmental Clearance for expansion of Anjali Rana Bordi Limestone Mining Project with expansion in production capacity from 14,000 TPA to 1,75,000 TPA	
Location	Village	Anjali
	Tehsil/Taluka	Ranavav
	District	Porbandar
	State / UT	Gujarat

Minutes of 49th EAC Meeting (Non-Coal Mining) held during 19th to 21st April, 2022

	Latitudes	21° 42' 4.535" to 21° 42' 24.163"
	Longitudes	69° 49' 23.698" to 69° 49' 31.769"
	SoiTopo sheet No.	207/P
Company's Name	M/s TATA Chemicals Limited	
Accredited Consultant and certificate no.	In Situ Enviro Care and NABET/EIA/1821/RA0070	
KML file	Submitted	
Seismic zone	III	

3. Category details:

Category of the project	Category "A", Project or Activity 1(a) – 3 for Mining of Mineral
Provisions	EIA Notification dated 14 th September 2006
Mining lease Area (MLA)	12.27 Ha
General condition	Barda Wildlife Sanctuary is present at 4.02 Km in NW direction and 112.21 meters from ESZ

4. ToR/EC Details:

ToR Proposal No.	IA/GJ/MIN/70670/2017
Online application date for Form-I	14 Aug 2018
Documents Submitted	Mine plan, lease documents, past production details.
EAC meeting date	28-29 Sep 2018
ToR Letter No.	J-11015/100/2018-IA.II (M)
ToR grant Date	9 th October 2018
Production capacity	1,75,000 TPA
Soil	4,000 m ³
Total Excavation	7,30,000 (for 5years)
EIA/EMP uploaded on	03 June 2021
Previous EC details	EC vide letter dated No J-11015/304/2012-IA. II(M) dated 27.05.2015 for the capacity of 14,000 TPA.
Previous EAC Meetings	

5. Lease Details:

Mine lease details	<p>1. Date of entering into original lease deed: 23.12.1966</p> <p>2. Date of expiry of original lease deed 22.12.1986.</p> <p>1st renewal of lease was applied on 02.09.1985. 1st renewal was granted vide order No. MCR-1585 – (T-43)-4266-CHH, dated 22.11.2004.</p> <p>The 1st renewal expired on 22.12.2006, thereafter, TCL applied for 2nd renewal vide letter No. AW/G/1409/2005, dated 17.11.2005.</p>
Validity of mine lease	31.03.2030.

	Lease Extension: The Industries and Mines Department of Gujarat Government has considered for the lease period extension to 31.03.2030 vide letter No. MCR/1565/13876-CHH, New Sachivalaya, Gandhinagar dated 02.02.2018 as per recent amendment in Section 8A (5) of the MMDR Act, 2015.
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6. Mining plan details:

Mining Plan(approved by Indian Bureau of Mines/DMG)	Letter No.	682(4)(1)/MP/320/2020-21-GNR/297
	Date	18/02/2021
	Validity	2026
Mining Parameters	Quantitative Description	
Bench Height	5 m	
Bench Width	>5 m	
Method of Mining	Open cast method (using drilling and blasting)	
Individual bench slope	--	
Overall pit slope	The edge of excavation shall be adequately sloped and secured so as to prevent danger of sliding as per the regulation 106 of the Metalliferous Mines Regulation, 1961. The slope of each bench will be kept around 80 ⁰	
Drilling/Blasting	Occasional adoption of drilling and blasting to give shattering effect to hard strata (TCL already has necessary permission from the DGMS for use of drilling and blasting system)	
RoM output size	1,75,000 TPA	
Life of mine	5 years	
Transportation details	The Limestone will be transported from mine site to Soda Ash and Cement Plant located at Mithapur.	
Dumper's capacity	17 Tonne	

7. Land Area Breakup:

Private land	--
Government land	Government waste land – 12.27 Ha
Total Mining lease area (MLA)	12.27 Ha

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

Particulars	Particular's Name	Distance &Directions
Village	Daulatgadh	About 1.6 Km NE direction.
Town	Ranavav	About 8.0 in South West direction.
Highway	NH-8B	About 4.89 km in South

		direction.
Railway Station	Ranavav Railway Station	About 10 km in West direction from the project site.
Water bodies	i. BileshwariNadi is about 5.60 Km in NE direction. ii. MinsarNadi is about 5.25 Km in East direction. iii. Khambhala reservoir is about 7.33km in NW direction. iv. Fodara reservoir is about 9.75km in NW direction. v. Dai River is about 10.25 km NE direction. vi. Sorti River is about 11.44km in NW direction. vii. GulabSagar Lake is about 14.71 Km in North. viii. Krishnapur Lake is about 12.27 Km in NW direction. ix. DhangvaNadi is about 2.19 km in North direction.	

9. Water requirement:

Total water requirement	10.0 KLD	Fresh water	10 KLD
		Treated water	--
Source	Ground Water		
Permission	CGWA Approval (No. 21-4(861)/WCR/CGWA/2011-947 dt: 27 July 2011		

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	Yes	Naliyadhar Reserve Forest is approx. 0.010 Km in south west direction. Jambuda Reserve Forest is approx. 2.88 km in North direction. Khageshri Reserve Forest: approx. 7.85 km in East direction.
National Park	No	--
Wildlife Sanctuary	Yes	Barda wildlife sanctuary is present at a distance of 4.02 Km in NW direction and 112.21 meters from ESZ. Mokarsagar Bird Sanctuary is located app. 13.45 Km in SW direction from the project site.

Schedule-1 species	Yes/No	Details of Certificate/letter/Remarks
Schedule-I species	Yes	Indian Peafowl and Leopard
Wildlife conservation	Yes	Wildlife conservation plan of Rs 65 Lakhs has been approved by Chief Wildlife Warden, Gandhinagar, Gujarat

plan	vide letter no.: WLP/32/C/973-75/2021-22 Dated 16.02.2022.
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11. Green belt/plantation details:

Proposed area for green belt/plantation	4.04 Ha
Budget for green plant & plantation till the end of life of mine.	Rs. 4.5 Lakh per annum
Particulars for Green belt/plantation	Area covered (in Ha)
7.5 m barrier & non-mineralized zone	1.1 (till June 21)

12. Baseline details:

Baseline Data (Air / Water / Noise / Soil / Ground water table/ others)	
Period of baseline data collection	Dec-2018, Jan 2019 & Feb 2019
Season (Summer / Pre-monsoon / Post-monsoon / Winter)	Winter

13. Public Hearing (PH) Details

Advertisement for PH with date	Public hearing advertisement in English was published in "Times of India" dated 24/02/2021 and in Gujarati in "DivyaBhaskar" dated 24/02/2021.
Date of PH	26th March, 2021 at 12:00 hrs
Venue	M/s Aniali Rana Bordi Limestone mine, (M/s Tata Chemicals Limited), Crusher Area, Opp. Office of Tata Chemicals, Survey No. 207/P, Village: Aniali, Tehsil: Ranavav, Dist: Porbandar, Gujarat.
Chaired by	Shri D.N Modi, IAS, District Collector & District Magistrate, Porbandar
Main issues raised during PH	Employment opportunities for locals, Medical assistance to locals, Social infrastructure (village road construction)
Budget proposed for addressing issues raised during PH	Rs 75,000 under Community Environmental Responsibility plan will address the issues raised during PH.

14. Court case details:

Court Case	No case is pending
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15. Rehabilitation & Resettlement:

R & R details	Nil
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16. Affidavit/Undertaking details:

Affidavit/Undertaking	Affidavit in compliance of Ministry's Office
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	Memorandum No. F: 3-50/2017-IA.III (Pt.), dated 30.05.2018 is submitted.
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17. Previous EC compliance and production details:

Particulars	Letter no. and date
Certified EC compliance report	3-32/2015(ENV)/511 dated 08.08.2019
Certified past production	Submitted

18. ADS details (41stEAC (Non-Coal Mining) Meeting held during 15th – 16th November and 18th November, 2021):

S. No.	ADS raised	ADS reply
1	The project proponent needs to submit the revised approved Wildlife conservation plan.	The project proponent submitted the revised approved Wildlife conservation plan duly authenticated by PCCF; Gandhinagar vide letter dated 16.02.2022.
2	The project proponent needs to submit the latest compliance report duly certified by the Integrated Regional Office (IRO) of the Ministry	The project proponent submitted the latest compliance report duly certified by the Integrated Regional Office (IRO); Gandhinagar vide letter dated 14.03.2022. As per the observations of IRO, no major non-compliances have been observed during the visit.

19. Details of the EMP

Activities	Capital cost (Lakhs/Annun)	Recurring cost (Lakhs/annun)
Air quality monitoring	--	0.50
Water quality control	--	0.50
Noise abatement	--	0.25
Green belt development	1.5	3.00
Dust Suppression	2.5	1.25

20. Details of project cost and employment:

Particulars	(Rs. In Crore)
Capital Cost for Environment Protection	Rs 0.04 Cr
Budget for addressing the Public Hearing issues	Rs 0.0075 Cr under Community Environmental Responsibility plan will address the issues raised during PH.
Total Cost for EMP	Rs 0.095 Cr
Recurring Cost for EMP	Rs. 0.055 Cr

Project Cost	Rs 0.75 Cr
Employment	46 persons

21. Observation and Recommendation of the Committee:

The proposal was considered in the 49th EAC meeting held during 19th to 21st April, 2022. After detailed presentation made by the project proponent and the consultant, the Committee noted that while preparing the Wildlife Conservation Plan, the project proponent has mixed the EMP budget in the budget prepared for Wildlife Conservation Plan. With reference to the Wildlife Conservation Plan (Table 6.5), the project proponent mentioned the components such as drilling, blasting and excavation of minerals (item no. 1) needs to be excluded from the plan and this should be a part of EMP. As per item no. 2, sizing, loading/unloading, it was mentioned about plantation, maintenance of equipments, which should be the part of EMP. Post mining activities mentioned in item no. 3 should be mentioned under EMP at the closure plan as it involves creation of water reservoir in the mining pit. The utility of the water reservoir needs to be mentioned to benefit the people around as well as ground water recharge. The item no. 4 which was mentioned for wildlife was the only point that pertained to Wildlife Conservation Plan. The plantation mentioned in the budget also should be a part of EMP. The project proponent had not delineated the budget for EMP for public concerns. Three-year budget with capital investment and recurring expenses must be submitted. The ADS reply submitted by the project proponent on 30.03.2022 was not satisfactory. Therefore, the Committee **deferred** the proposal due to want of the following information:

- 1) The project proponent needs to submit the EMP budget separately into the capital investment and recurring cost for mining activities including transportation, quarrying, and noise and air pollution control.
- 2) The project proponent needs to submit the revised EMP budget for public concerns indicating plans for environment as well as plantation in the buffer zone. Three-year budget with capital investment and recurring expenses must be submitted.
- 3) The project proponent needs to submit the revised Conservation plan focusing more on wildlife including the water body creation and supporting activities.
- 4) There are three mines together that are owned by M/s TATA Chemicals Limited. Plantation as seen through remote imagery is not adequate. Action Plan needs to be submitted for creating peripheral plantation as well as plantation at the mined out area and six monthly compliance report needs to be submitted.

1.3 Proposal for Environmental Clearance for Nandgaon-Ekodi Limestone Mine with total excavation capacity of 2.9 MTPA (2.0 Million TPA Limestone, 0.2 Million

TPA Screen Rejects, 0.2 Million TPA Sub Grade, 0.4 Million TPA Waste and 0.1 Million TPA Top Soil) & 1200 TPH capacity of crusher with Wobbler, Screening Plant in the mine lease area of 369.52 ha located at Villages: Nandgaon, Ekodi, Bhoyegaon and Kawathala, Taluka: Korpana, District:Chandrapur, Maharashtra by M/sAmbuja Cements Limited –[Proposal No. IA/MH/MIN/73277/2018; File No. J-11015/62/2018-IA.II(M)] – Environmental Clearance

EAC Meeting Details:

EAC meeting	49 th
Date of Meeting	19 th to 21 st April, 2022

1. Project details:

Name of the Proposal	Nandgaon-Ekodi Limestone Mine (ML Area: 369.52 ha) with total excavation capacity of 2.9 Million TPA (2.0 Million TPA Limestone, 0.2 Million TPA Screen Rejects, 0.2 Million TPA Sub Grade, 0.4 Million TPA Waste and 0.1 Million TPA Top Soil) & 1200 TPH Capacity of Crusher with wobbler, screening plant.	
Location	Villages	Nandgaon, Ekodi, Bhoyegaon and Kawathala
	Tehsil/Taluka	Korpana
	District	Chandrapur
	State / UT	Maharashtra
	Latitudes	19 ^o 50' 23.42"N to 19 ^o 52' 12.81"N
	Longitudes	79 ^o 10' 40.36"E to 79 ^o 11' 59.87"E
	SolTopo sheet No.	E44B1 (56 M/1), E44B5 (56 M/5)
Company's Name	M/s. Ambuja Cements Ltd.	
Accredited Consultant and certificate no.	J.M. EnviroNet Pvt. Ltd. Certificate no. NABET/EIA/2023/RA 0186	
KML file	Submitted	
Seismic zone	III	

2. Category details:

Category of the project	Category "A", Project or Activity 1(a) – 3 for Mining of Mineral and Project Activity 2(b) (3) for Mineral Beneficiation (Crusher with Wobbler)
Provisions	EIA Notification dated 14th September, 2006.
Mining lease Area (MLA)	369.52 Ha (Govt. Land- 4.03 ha & Private Land- 365.49 Ha)

3. ToR/EC Details:

Minutes of 49th EAC Meeting (Non-Coal Mining) held during 19th to 21st April, 2022

ToR Proposal No.	IA/MH/MIN/73277/2018
Online application date for Form-I	31.05.2018
EAC meeting date for ToR	33rd EAC meeting on 22.06.2018
ToR Letter No.	J-11015/62/2018-IA.II (M)
ToR grant Date	04.07.2018
Production capacity	2.0 Million TPA
Soil	0.1 million TPA
Waste	0.4 million TPA
Others	0.4 million TPA (Sub Grade: 0.2 Million TPA + Screen Rejects: 0.2 Million TPA)
Total Excavation	2.9 Million TPA
Crusher	1 x 1200 TPH
EIA/EMP uploaded on	12.10.2021

4. Lease Details:

Letter of Intent	Letter No.	MMN-0717/C.R.64/IND-9
	Date	08.11.2017
Validity of mine lease	50 years from registration of mining lease	
Amendment of LOI	<ul style="list-style-type: none"> • Letter of Intent (LOI) for grant of mine lease over an area of 369.52 ha (which includes area 289.42 ha for which earlier EC was granted) has been issued in favor of M/s. Ambuja Cements Limited by Government of Maharashtra vide letter no MMN-0717/C.R.64/IND-9 dated 08.11.2017 with minor amendment vide dated 16.11.2017. • The last para of LOI, has been corrected as follows “the accepted copy of Letter of Intent along with Board resolution should be submitted latest by 19.12.2017” is substituted for the “the accepted copy of Letter of Intent along with Board resolution should be submitted latest by 12.09.2017. 	
Extension of LOI	<ul style="list-style-type: none"> • Application was submitted to the Dy Secretary (Industries) Industries, Energy and Labour Department for extension validity of LOI vide letter No ACL: MR: DGM: LOI: 2019: 1 dated 02.05.2019. Validity extension of LOI was granted from Joint Secretary, Government of Maharashtra vide letter no MMN-0717/C. No. 64/I-9 dated 26.08.2021 and it is extended up to 31.12.2022. 	
Earlier mine lease details	<ul style="list-style-type: none"> • It is also notable that earlier Environment Clearance was granted for Nandgaon-Ekodi Limestone Mine over an area of 289.42 ha in favor of M/s. Murli Agro Products Ltd by MoEFCC, New Delhi vide their letter No J-11015/214/2006-IA. II (M) dated 11th April, 2007. However, the project proponent (M/s. Murli Agro Products Ltd.) changed the plant location and could not execute the mining lease. Later on, above 	

	mentioned mining lease had gone for e-auction and M/s. Ambuja Cements Ltd. participated in e-auction bidding of NandgaonEkodi Block and was declared the “Preferred Bidder” vide letter no MMN-0717/C.R.64/IND-9 dated 05.04.2017.
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5. Mining plan details:

Mining Plan (approved by Indian Bureau of Mines/DMG)	Letter No.	CND/LST/MPLN/1176/NGP/2018
	Date	24.09.2018
	Validity	Five years from the registration of mining lease
Mining Parameters	Quantitative Description	
Bench Height	10 m	
Bench Width	15 m	
Method of Mining	Open Cast Mechanized Mining Method	
Individual bench slope	80° to 90°	
Overall pit slope	45°	
Drilling/Blasting	<p>Considering the basic rock characteristics such as hardness, abrasiveness, etc., drilling will be carried out by deploying 115 mm diameter drill equipped with in-built arrangement of water sprinkling for dust suppression and separate dust extraction system. Following drilling parameters will be used to meet the production requirements.</p> <ul style="list-style-type: none"> ➤ Bench Height : 10 meters ➤ Drill Hole dia : 115 mm ➤ Burden : 3 meters ➤ Spacing : 4.5 meters ➤ Sub grade drilling : 10% <p>Blasting will be done using the non-electric shock tube initiating system like Raydet and Noiseless Trunkline Delays. In this system, on the surface of the hole, the delay between different holes is provided by non-electric connectors ensuring correct firing as per the blast design. The oversized boulder generated during primary blasting will be broken up by hydraulic rock breaker. No secondary blasting is envisaged in this mine.</p> <p>Blasting Parameters</p> <ul style="list-style-type: none"> ➤ Bench Height : 10 m ➤ Burden : 3 m to 3.25 m ➤ Spacing : 4.0 m to 4.5 m ➤ Stemming : 1/3 of the hole depth 	
RoM output size	300-900 mm	
Life of mine	22 years	
Transportation	Initially some ROM material can be brought into plant prior to	

details	commissioning of the crusher installation during developmental stage and later on it shall be need based. Later on the excavated limestone will be transported to crusher and after crushing/screening, crushed material will be transported by tippers/tip trailers having capacity of 30 tonnes to MCW Plant located 23 kms road distance at village Upparwahi, Taluka Korpana, District Chandrapur (Maharashtra). 47 nos of tippers will be used for transporting limestone on two shift working basis. Traffic survey has been done by CSIR, New Delhi.
Dumpers capacity	30 tonnes (Tippers capacity)

6. Land Area Breakup:

Private land	365.49 Ha
Government land	4.03 ha
Total Mining lease area (MLA)	369.52 ha
Private land for crusher, workshop & other infrastructure outside the MLA	No infrastructure is proposed outside the ML area

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

Particulars	Particular's Name	Distance & Directions
Nearest village	Nandgaon	Adjacent in SE direction
Nearest Town / City	Chandrapur	~15 km in NE direction
Nearest State/National Highway	SH-6	~8.0 km in North direction
Nearest Railway Station	Chandrapur	~15 km in NE direction
Nearest water bodies	Seasonal nallah	Passing through the lease area
	Wardha River	~3.0 km in North direction
	Bop Nala	~4.0 km in West direction
	Penganga River	~4.5 km in WNW direction
	LaoniNala	~5.0 km in East direction
	LokhandiNala	~7.0 km in SSW direction
	Sarai Nala	~8.0 km in NE direction

8. Water requirement:

Total water requirement	200 KLD	Fresh water	200 KLD
		Treated water	-
Source	Initially from ground water and later by mine sump		
Permission	NOC has been obtained from CGWA vide NOC no CGWA/NOC/MIN/ORIG/2021/12090 dated 17.06.2021		

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

Forest Land / Protected Area / Environmental Sensitivity Zone	Yes/No	Details of Certificate/letter/Remarks
Forest Land	No	No forest land falls within the lease area. A Letter has been received from DCF, Chandrapur reg No forest land in Mining lease area vide their letter no Deptt/Survey/Land/572 Chandrapur dated 21.07.2020
National Park	No	There is no National Park, Wildlife Sanctuary, Biosphere Reserves, Tiger Reserves, and Wildlife Corridors etc. within 10 km radius of the mining lease area. Letter has been received Principal Chief Conservator of Forest vide letter no Kaksh - 23(2)/WL/ Survey/ C. No. 61(2020)/ 1696/2020-21 dated 06/11/2020.
Wildlife Sanctuary & Forest	No	
Eco Sensitive Zone (ESZ)	No	-

Schedule-1 species	Yes/No	Details of Certificate/letter/Remarks
Schedule-I species	No	Authenticated list of Flora and Fauna has been received from DCF, Chandrapur vide their letter no vide letter no Deptt/Survey/Land/572 chandrapur dated 21.07.2020.

10. Green belt/plantation details:

Proposed area for green belt/plantation	85.07 ha
Budget for green plant & plantation till the end of life of mine.	Rs. 2.74 Crore

Particulars for Green belt/plantation	Area covered (in Ha)
7.5 m barrier & non-mineralized zone	7.47 ha on 7.5 m lease periphery and ultimate pit limit
50 m safety zone of nallah, roads, electric lines	Plantation will be done in the unworked area (Nalla, HT zone) 34.23 Hectare, which is including 8.28 ha area as safety zone of Nandgaon village.
500 m safety zones of nearest habitation villages	
Additional information	Greenbelt will be done on 7.47 ha along 7.5 m lease periphery. Plantation will be

	done on 77.6 ha (22.88 ha area on waste dump, 20.49 ha on upper bench and 34.23 ha along the haul roads and on un-worked area).
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11. Baseline details:

Baseline Data (Air / Water / Noise / Soil / Ground water table/ others)		
Period of baseline data collection	March to May, 2018	
Season (Summer / Pre-monsoon / Post-monsoon / Winter)	Summer season and one month additional in winter season	
Meteorology at site	Temperature	46.0 °C (Max.) 16.3 °C (Min.)
	Relative Humidity	52% (Max.) 22% (Min.)
	Pre-dominant wind direction	From North West

12. Public Hearing Details:

Advertisement for PH with date	22.12.2020 ("Loksatta, English newspaper & The Times of India")
Date of PH	29.01.2021
Venue	Project Site, M/s. Ambuja Cements Ltd., Nandgaon-Ekodi Limestone Mine, Vill. Nandgaon, Tal. Korpana, Dist. Chandrapur.
Chaired by	1. Shri. Manohar Gawhad, Additional District Magistrate, Chandrapur 2. Shri Ashok M Kare (Member), Regional Officer, MPCB, Chandrapur
Main issues raised during PH	Issues raised during public hearing were about Land compensation, Protection of agriculture land, Environment Management plan w.r.to noise pollution, air pollution and water pollution, Health Facility, Educational facility, employment and greenbelt/plantation etc.
Budget proposed for addressing issues raised during PH	Rs. 4.85 Crore/- (Capital) and Rs. 33 Lakh (Recurring)

13. Court case details:

Court Case	No court case pending against the project
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14. Rehabilitation & Resettlement:

R & R details	As per khasra details there are 172 PAFs involved in the lease area out of which, 7 PAFs are homestead oustees of Nandgaon Village which will not be displaced due to their location in non mineralized zone. Total budget for R&R is Rs. 201 crores.
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LandCompensationMatrix:

SN o.	Particulars	Villages	Rupees
1.	MarketRateperha	NandgaonEkodiBhoygaonKawthala	30.00Lakh/ha.
2.	MultipliedFactor1.2		36.00Lakh/ha
3.	Solatium(100%)		36.00Lakh/ha.
4.	Totalcompensationforlandperha. (MarketRate*Factor1.2+Solatium)		72.00Lakh/ha.
5.	TotalCompensationofPvt.land(265.28 Ha.)		191.002cr.
6.	OnetimeAnnuity5lakhperPAFs(172)		8.600 cr.
7.	Totalcompensation(Sl.no.5+6)		199.602cr.
8.	NeedBasedAssessmentBudget		1.00cr.
9.	Monitoring& Evaluation(PMC)		10.00lakhs
10.	TotalR&RBudget		200.702 cr. (~ Rs. 201 Crore)

Note.Perha.marketvalueistaken30lakh, whichis higherthangovt.decidedmarketvalueof allvillages

AspertheACL,thetotalagreedcompensationisproposedtobepaidinthreeparts,however,t heonusofacceptingproposedapproachlies withtheland owneronly.

1. Lumpypayment(40%)
2. PaymentintheformofFixedDeposit(40%)
3. Paymentintheformof Annuity(20%)
4. Anyotheradditionalormodificationinabovementionedpaymenttermsasmutuallyagreedbetweenthe land owner/s

1. Lumpsumpayment

ACL will initially provide a lump sum payment of 40% of total agreed compensation in joint bankaccount of land owner, in case of widow and widower money will be transferred in single name bankaccount.

ACL will provide some guidance and training program on how PAFs will use that money as per theirareaofinterest with the helpofsome localNGOs.

ACLwillencouragePAFsforself-employmentwithhelpofawarenessandtrainingprogram.

2. PaymentintheformofFixedDeposit(40%)

ACL will offer the 40% of total agreed compensation amount as fixed deposit.Thebifurcation offixed Depositare:

- 10% amount will be fixed on the name of Sibling specially girl child for her education and marriagefor 10 years.
- 30%amountwillbefixedon thenameoflandownerfor10yearsforfinancialsecurity.

3. Paymentasannuity(20%)intheform ofPolicieessuchasLICetc.

Thispaymentwillbedoneasamonthlyincomeschemeonjointname(Nameofhusband&wife),incaseofwidow andwidowerscheme willbeon single name.

(PAFs will use that interest of money as their monthly income, this money cannot be withdrawn by anyoneinthefamilyandwillgetinterestas MonthlyIncomefor runninghis livelihood).

15. Affidavit/Undertaking details:

Affidavit/Undertaking	Affidavit in accordance with the statutory requirement & judgment of Hon'ble Supreme Court dated 2nd August 2017 in writ Petition (civil) No. 114 of 2014 in the matter of common cause versus Union of India & Ores before grant of ToR/EC has been submitted to MoEFCC.
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16. ADS reply:Earlier, the proposal for Environmental Clearance was considered in the 40th EAC meeting held during 26th – 27th October, 2021 wherein the proposal was deferred. The PP submitted the reply as follows:

S. No	ADS Point	Reply
1.	The project proponent needs to revalidate the baseline data by collecting one month baseline data in the winter	<ul style="list-style-type: none"> ➤ One-month additional baseline data collection has been done in December, 2021. Same has been submitted with ADS Reply. ➤ Impact prediction has been done using the

	<p>season and use the meteorological conditions of winter for calculating impacts:</p> <p>(a) At the Mine Site</p> <p>(b) Along the road (23 km stretch)</p> <p>(c) Near the plant including the operating mines using suitable model as applicable.</p>	<p>meteorological conditions of winter season at the Mine site, Along the road (23 km stretch) and near the plant including the operating mines and submitted with ADS Reply.</p>
2.	<p>The project proponent needs to examine & submit the Resettlement and Rehabilitation (R&R) plan using the current population and also the possibility of land-for-land or compensation which will be sustainable and beneficial to people's livelihood and to the society</p>	<p>It was submitted that the total agreed compensation is proposed to be paid as below, the onus of accepting proposed approach lies with the land owners:</p> <ul style="list-style-type: none"> ✓ Lump-sum payment (40%) ✓ Payment in the form of Fixed Deposit (40%) ✓ Payment in the form of Annuity (20%) in the form of Govt. Schemes through LIC etc. <p>ACL would facilitate and encourage PAFs for identification and purchase of alternative land in same area. ACL will contribute in amount of Registry of land to PAF for encouragement to PAF for alternate land. ACL will provide guidance and consultations for purchase of agriculture land that will generate income equivalent to the land seller and it will also provide guidance and assistance for availing fixed deposit schemes of the banks.</p> <p>For livelihood, company will pay Onetime payment Rs. 5 lakhs for per PAFs. However, company will provide skill training in existing SEDI (Skill and Entrepreneurship Development Institute) for training of unemployed youth. The Company will organize vocational training, entrepreneur development programmes for the PAPs including women members and will provide advice for starting suitable small-scale industry.</p>
3.	<p>The project proponent needs to submit the cost benefit analysis to be done for</p>	<p>The proposed mine area is 369.52 ha, out of which 365.49 ha is Pvt. Agriculture Land & 4.03 ha is Govt. land. Out of the 369.52 ha of land,</p>

	compensation for agricultural loss due to land acquisition and crop loss in surrounding area during operation and dust deposition	269.31 ha of land to be purchased. Details of cost benefit analysis has been done and submitted with ADS Reply.
4.	The project proponent needs to submit the revised cost of EMP for addressing concerns raised in public hearing (PH) as per the prescribed norms considering it as a green field project. The project proponent also needs to submit a table indicating the capital cost for 3 years and recurring cost up to conceptual stage with PH specific items.	Earlier cost of EMP for addressing the issues raised during public hearing was earmarked as Rs. 3.75 Crore (Capital) and Rs. 63 Lakh for three years (Recurring) which has been now increased as Rs. 4.87 Crore (Capital) and Rs. 33 Lakh (Recurring per annum). Detailed breakup of physical targets which will be spent in 3 years has been submitted with ADS Reply.
5.	Since the area has many cement plants, limestone and coal mines the route for road transportation and its supporting capacity needs to be re-examined by the project proponent with suitable and adequate safety measures	<p>This is proposed auctioned mine and limestone will be transported to MCW Plant (~23 km) located at village Upparwahi, Taluka Korpana, District Chandrapur (Maharashtra) by road.</p> <p>Initially some ROM material can be brought into plant prior to commissioning of the crusher installation during developmental stage. Later on, the excavated limestone will be transported to crusher and after crushing, crushed material will be transported to MCW Plant (~23 km) located at village Upparwahi, Taluka Korpana, District Chandrapur (Maharashtra).</p> <p>One Naokari Mine of Ultratech Cement Ltd exists within 6.0 km from mine site which is adjacent to their captive cement plant.No road is being used by that mine. In addition to that, Manikgarh Cement plant is located within 13 km from mine site of which limestone transportation route is also not the same.</p> <p>Hence, this is the only possible route for limestone transportation from NandgaonEkodi Mine to their existing cement plant of Ambuja</p>

		Cement Limited. Traffic survey has been done by CRRRI (CSIR), New Delhi. Recommendation of study will be strictly followed.
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17. Details of the EMP:

S. No.	Activities	Capital Cost (Rs. Lakhs)	Recurring Cost (Rs. Lakhs)
I	EMP for Pollution Control & Monitoring		
A.	Air Quality Monitoring and Management		
Mitigative Measures			
1	Permanent water sprinkling arrangements for main haulage road	20.00	2.00
2	One water tanker for water sprinkling in other roads and mining areas	25.00	1.50
3	Motor Grader & Soil Compactor for haul road maintenance	150.00	5.00
4	Bag filter installation at Crusher Hopper	20.00	4.00
5	Water Sprinkler system at crusher hopper and transfer point	4.00	0.50
6	Bench slope plantation in an area of 20.49 ha with total 40980 saplings from 11 th year onwards upto the life of mine (Considering Rs. 90.156 Lakh)	90.16	7.51
7	Plantation on Un-worked Area covering an area 34.23 ha with total 68460 saplings from 6 th year onwards upto the life of mine (Considering Rs. 150.61 Lakh)	150.61	9.41
8	Green belt around 7.5 m periphery covering an area of 7.47 ha (No. of saplings: 14940)	32.87	-
Monitoring			
1	4 Ambient Air Quality Monitoring Stations at Mine Site (one online and 3 manual) at villages: Nandgaon, Ekodi, Bhoeyagaon and Kawathala and display board at Mines Main Gate	65.00	3.50
2	Fugitive dust emission monitoring (5 locations * monthly)	-	1.00
3	Personal Dust Monitoring (5 locations * Quarterly)	-	0.50
Sub Total A.		557.63	34.93
B.	Water Quality Monitoring and Management		

Mitigative Measures			
1	Garland Drain around soil dump, Reject, waste & Sub grade dump (L*W*D = 2440 m x 2 m x 1 m)	5.00	0.20
2	Retaining Wall around soil dump (L*W*H = 650 m x 1 m x 1.5 m)	6.00	0.20
3	Channelized Catch Drains	8.00	0.50
4	3 nos. of Settling Tank / Sedimentation Pond (Length*Width*Depth =4 m x 4 m x 2 m)	10.00	0.50
5	Construction of Protective Bunds along the water reservoir	3.00	0.10
6	Construction of 3 nos. of Check Dams in and around 5 km area of mine boundary and its annual maintenance	25.00	1.50
Monitoring			
1	Installation of 1 Piezometers along the lease periphery in the Premises	1.50	0.50
2	Installation of Modular STP/ETP	6.00	0.20
3	River/Stream flow measurement and Surface Water & Ground water quality analysis (4 locations * 2 times in a year)	-	0.40
4	Raw water analysis (PZ wells) (4 locations * 2 times in a year)	-	0.20
5	Workshop Waste Water Quality Analysis (monthly) as well as maintenance of oil-water separators	-	0.15
Sub Total B.		64.50	4.45
C.	Noise and Vibration Monitoring and Management		
Mitigative Measures			
1	Procurement of the Blast Vibration Measuring Instrument & Noise level meter	5.00	-
Monitoring			
1	Peak Particle Velocity Monitoring for nearest habitation i.e.Nandgaon, Ekodi, Bhoyegaon and Kawathala	-	1.50
2	Ambient Noise Monitoring (4 locations * monthly frequency)	-	1.00
4	Personal Noise Monitoring (5 Locations * quarterly)	-	1.00
Sub Total C.		5.00	3.50
D	Miscellaneous		
1	Digital mapping of entire mine area once in three years (Rs. 3 Lacs once in 3 years)	-	1.00
2	Others, if any	-	5.00

Sub Total D.		0.00	6.00
TOTAL (A +B+C+D)		627.13	48.88
II	Estimated budget for addressing the Public Hearing issues	487.00	63.0
Grand Total (I + II)		1115.0	111.88

18. Details of project cost and employment:

Particulars	Budget (Rs. In Crore)
Capital Cost for Environment Protection	Rs. 6.28 Crore
Budget for addressing the Public Hearing issues	Rs. 4.87 Crore (Capital) and Rs. 33 Lakh (Recurring)
Total Cost for EMP	Rs. 11.15 Crore
Recurring Cost for EMP	Rs. 1.12 Crore / annum
Project Cost	Rs. 291 Crore
Employment	141 persons

21. Observation and Recommendation of the Committee:

The proposal was considered in the 49th EAC meeting held during 19th to 21st April, 2022. After the detailed presentation made by the project proponent and discussions, the project proponent vide letter dated 19.04.2022, during the meeting submitted the details of avenue plantation with budget and timeline along the road using the transportation. Also, the Committee observed that the project proponent addressed all the ADS points raised during the 40th EAC meeting held during 26th – 27th October, 2021 satisfactorily. After the detailed deliberations, the Committee **recommended** the proposal for Environmental Clearance for Nandgaon-Ekodi Limestone Mine with total excavation capacity of 2.9 MTPA (2.0 Million TPA Limestone, 0.2 Million TPA Screen Rejects, 0.2 Million TPA Sub Grade, 0.4 Million TPA Waste and 0.1 Million TPA Top Soil) & 1200 TPH capacity of crusher with Wobbler, Screening Plant in the mine lease area of 369.52 ha located at Villages: Nandgaon, Ekodi, Bhoysgaon and Kawathala, Taluka: Korpana, District: Chandrapur, Maharashtra by M/s Ambuja Cements Limited with subject to the following specific conditions in addition to the standard conditions of non-coal mining projects:

- i. The project proponent shall submit the annual progress report for plantation, implementation of EMP and capital investment done for addressing public concerns.

Minutes of 49th EAC Meeting (Non-Coal Mining) held during 19th to 21st April, 2022

- ii. Since the village is adjacent to mine, air, noise and vibration monitoring done at the interface of village and mine and necessary corrections through EMP improvement shall be submitted to the Ministry in every six months.
- iii. Since there is a proposal of avenue plantation, the specific target area, budget provision and species to be planted shall be informed to the Ministry.
- iv. Action taken report of R&R plan shall be submitted annually. As discussed during the meeting, the benefit to project affected persons as a percentage of the sale price of the product shall be submitted to the Ministry.
- v. The project proponent shall monitor water quality at the source for supply to villagers with specific reference to Langelier Saturation Index to assess the impact of calcium carbonate on water quality.
- vi. The Project Proponent should periodically monitor and maintain the health records of the mine workers digitally prior to mining operations, at the time of operation of mine and post mining operations. Regular surveillance on Silicosis shall be carried through regular occupational health check-up every year for mine workers.

1.4 Proposal for Extension of Validity of Environmental Clearance of River Bed Sand/Morram Mining Project at Yamuna River over an area of 108.499 Ha with production of 0.746 MTPA located near Village: Dhaurahra Khadar, Tehsil: Rajapur & District: Chitrakoot, Uttar Pradesh by M/s Jai Mata Di Packaging – [Proposal No. IA/UP/MIN/178044/2018; File No. J-11015/25/2018-IA-II(M)] - Extension of Validity of EC

EAC Meeting Details:

EAC meeting	49 th
Date of Meeting	19 th to 21 st April, 2022

The Proposal of M/s. Jai Mata Di Packaging is for validity extension of Environmental Clearance (EC) of River Bed Sand/Morram Mining Project at Yamuna River over an area of 108.499 Ha with proposed production of 14.64 LTPA/ 14,64,862 TPA located near Village Dhaurahra Khadar, Tehsil Rajapur, District Chitrakoot, State Uttar Pradesh. The mining lease area is a part of the Survey of India Topo-sheet No. 63G/02 & 63G/03. The site falls between latitude 25°30'00.39" to 25°30'38.64"N and longitude 81°07'09.46" to 81°08'00.12"E and falls in seismic zone-II.

2. As per EIA Notification dated 14th September, 2006 as amended from time to time, the project falls under Category “A”, Project or Activity 1(a) as the mining lease area is more than 100 ha.
3. The project proponent had obtained Environmental Clearance (EC) from MoEF&CC vide letter no. J-11015/25/2018-IA.II (M), dated 3rd March 2021 with validity of one year. The project proponent submitted the Form-6 for the extension of validity of Environmental Clearance on 31st March, 2022. PP has requested to extend the validity of EC for further one year because the lease was executed on 11.06.2021 and excavation started by November, 2021. Till date 135905 cubic meters excavated out of permissible 414000 cubic meters which is 34% of the permissible quantity.
4. The project proponent submitted that M/s. Jai Mata Di Packaging, Part. – Shri Ashish Girdhar & Shri Sachin Girdhar, is on the list of successful bidder in the process of e-tendering as per U.P Govt. order No. 1875/86-2017-57(s)/2017 TCI, dated 14.08.2017 under U.P. Minor Mineral (concession) Rule 1963 the Govt. made a policy to auction the river bed sand/ Morrum (except, the area where Hon’ble high court has issued stay order) through e-tendering by the District magistrate Chitrakoot for mining lease for period of 05 years. After successful bidding District magistrate Chitrakoot has issued LOI in favor of M/s Jai Mata Di Packaging, Part. – Shri Ashish Girdhar & Shri Sachin Girdhar for extraction of 16,27,485 cum/year sand / Morrum along the Yamuna river over an area of 108.499 Ha. in village –Dhaurahara Khadar, Gata No. 2Ka, 2Kha, 3,4/1,4Ka,4Kha, 5,6,7,11,21/3,8,9,10, tehsil-Rajapur, District Chitrakoot U.P. vide letter no. 1144/ khani/e-tendring/sahmatipatra/2017/18, dated 28 November 2017.
5. The project proponent submitted that the mining plan with Progressive mine closure plan has been approved under rule 34 (2) of U.P. Minor Mineral (concession) Rule 1963 vide letter no. 1770/Mining Plan/2017 on dated 31.10.2018.
6. The project proponent submitted that opencast mechanized mining with manual sizing and loading will be carried out. Mining of River Sand/Morram is proposed in the riverbed, the total mining area is 108.499 ha. The total mineable reserves comes to 1727897 M3 with production target of 8,13,812m³/ 14,64,862 tonnes per annum. It will be replenished after rainy season. Density factor 1.8 taken for Sand/ Morrum. Applied area is situated well within the meandering corridor of Yamuna River. Excavator / L&T Kamastu 200 OR Hundai-210 (1.2M³) Shall be deployed for excavation & loading of sand/morram into tata tipper. Drilling & blasting not required. Mining of each successive year is proposed to 1.78m. depth of mineral bed according to bench parameter 1m high & 05 m wide bench in ordinary sand maintaining less than 10° slope in loose sand.

7. The project proponent submitted that nearest villages is Dhauahara Khadar, nearest school is Rajapur and nearest highway is SH 13 which is about 9.0 km from the mine site.

8. The project proponent submitted that water requirement for mining & allied activities (sprinkling, greenbelt development), drinking and plantation will be 20.50 KLD. Water will be taken from nearby villages. The project proponent submitted that area to be developed for plantation is over an area of 5.0 ha around the mine site.

9. The project proponent submitted that no forest land is involved within the lease area. The project proponent has submitted that one schedule-1 species has been found in the area i.e. peacock. Copy of authenticated List of Flora fauna from DFO and certified Conservation Plan from CWL warden, Forest Department has been submitted. The district survey report has also been submitted by the project proponent.

10. The project proponent had submitted the copy of replenishment study report based on Meyer-Peter's equation conducted by CMPDIL & actual Replenishment study as per field survey, pre-monsoon & post monsoon data with across as wells along sections and quantities measured by graphical calculations. As per the replenishment study, the mining will commence from the upper level and advance towards lower level as well as in horizontal extent. As the pit shall reach the maximum depth (1.78m) from surface so that mined out area shall be left open for replenishment during monsoon. The reclamation will occur naturally in such a manner that original topography shall be restored. Three permanent benchmark (BM) has been established and it is close to the nearby area. In the first five years, mining excavation will be excavated and next year dig will be replenishment with heavy monsoon season.

11. The project proponent submitted that the baseline data collection was occurred during March to May, 2018. The public hearing was conducted on dated 01.03.2019. The project proponent also submitted that there is no litigation pending against the proposal.

12. The project proponent submitted that EMP cost is Rs 6.0 lacs/annum, funds allocated for occupational health and safety is Rs. 1.5 lacs/annum and total project cost is 1.14 Crore. 110 persons will be employed from the proposed project.

13. Observation and Recommendation of the Committee:

The proposal was considered in the 49th EAC meeting held during 19th to 21st April, 2022. The Committee observed that due to outbreak of Corona Virus (Covid-19) and subsequent lockdowns the Ministry issued a notification dated 18.01.2021 stating;

“9A. Notwithstanding anything contained in this notification, the period from the 1st April, 2020 to the 31st March, 2021 shall not be considered for the purpose of calculation of the period of validity of Prior Environmental Clearances granted under the provisions of this notification in view of outbreak of Corona Virus (COVID-19) and subsequent lockdowns (total or partial) declared for its control, however, all activities undertaken during this period in respect of the Environmental Clearance granted shall be treated as valid.”

As per the above-mentioned Notification, the Environmental Clearance granted vide letter dated 3rd March 2021 was automatically extended till 31.03.2022 and the project proponent applied for the Extension of validity of Environmental Clearance on 31st March, 2022. The Member Secretary also informed the Committee that during the meeting, the project proponent intimated over the telephone that he could not join the meeting and would like to seek deferment, as he was travelling at that moment. The committee felt that the presence of project proponent is required. The project proponent has applied first time for extension of validity of EC. However, with reference to the Ministry’s Notification no. S.O. 1886 (E) dated 20th April, 2022, the Committee was of the opinion that the proposal can be appraised at the State level. Therefore, the Committee returned the proposal in present form.

1.5 Proposal for Environmental Clearance for Boricha Limestone Mine with the production capacity of 7,00,000 TPA (ROM) in the mine lease area of 101.17ha located at Survey No.22/P near village Boricha, Taluka and District Porbandar, State Gujarat by M/s Saurashtra Chemicals Division of Nirma Limited – [Proposal No. IA/GJ/MIN/251176/2019; File No. J-11015/67/2015-IA-II(M)] - Environmental Clearance

EAC Meeting Details:

EAC meeting	49 th
Date of Meeting	19 th to 21 st April, 2022

2. Project details:

Name of the Proposal	Boricha Limestone Mine with the production capacity of 7,00,000 TPA (ROM) in the mine lease area of 101.17 ha	
Location	Village	Boricha
	Tehsil/Taluka	Porbandar
	District	Porbandar
	State / UT	Gujarat
	Latitudes	21°44'32.5188"N to 21°44'33.8615"N
	Longitudes	69°40'46.8505"E to 69°40'47.7705"E
	SoI Topo sheet	41G/09 & 10 (Restricted)

Minutes of 49th EAC Meeting (Non-Coal Mining) held during 19th to 21st April, 2022

	No.	
Company's Name	M/sSaurashtra Chemicals Division of Nirma Ltd	
Authorization	M/s Saurashtra Chemicals Division of Nirma Ltd submitted the authorization letter dated 12.02.2018 in the name of Sh. Ashish Desai.	
Accredited Consultant and certificate no.	Mantec Consultants Pvt. Ltd. NABET/EIA/2023/RA0205	
KML file	Submitted	
Seismic zone	Zone- III as per IS 1893:2002	

3. Category details:

Category of the project	Category "A", Project or Activity 1(a) – 3 for Mining of Mineral
Provisions	As per EIA Notification S.O. 1533 (E), dated 14 th September 2006 and subsequent amendments
Mining lease Area	101.17 Ha.
Barda Wildlife Sanctuary	Barda Wildlife Sanctuary(BWLS) is adjacent to said mine. It is established that around 36.2102Ha of the eastern part of the lease area falls into the one km radius from the BWLS and 50m offset from 1-Km line as per TOR clause (i)This zone is considered as non-mining zone.

3. ToR Details:

ToR Proposal No.	IA/GJ/MIN/115531/2019
Application date for	26 th August,2019
Documents Submitted	Form-1, PFR, KML File
EAC meetings	21 st October,2019 & reconsidered on 23 rd June,2020
ToR Letter No.	J-11015/67/2015-IA-II (M)
ToR grant Date	14 th July 2020
Production capacity	SizedLimestone(tonnes)-80%: 5,60,000 Metric Tonnes Undersized Limestone (32ones) – 20%: 1,40,000 Metric Tonnes
Soil	As per approved mining plan, no top soil will be generated.
Waste	As per approved mining plan, there will be no OB/IB.
Total excavation	7,00,000 TPA (ROM)
EIA/EMP uploaded on	14 th January 2022
Earlier EAC Meeting	46 th EAC meeting held during 15 th to 17 th February 2022

Earlier EAC meeting: The proposal for Environment Clearance was considered in 46th EAC meeting held on 15th -17th February,2022wherein the proposal was deferred. ADS reply was submitted on 14th March,2022 which is as follows:

ADS Point 1: Since this is in close proximity to Barda Wildlife Sanctuary which harbors many species belonging to different schedules. The Wildlife Conservation Plan is yet to be approved by PCCF and must include the suggestions of EAC members during the presentation. The budget of conservation plan also needs to be upwardly revised.

Reply:

- Mining Lease area is adjacent to the Barda Wildlife Sanctuary (BWS). However, falling outside the BWS and its Eco Sensitive Zone. Also, your good-self/MoEF&CC has granted ToR with specific condition “the PP shall leave the 50 meter offset to the 1 km boundary of the WLS and declare as non-mining area, further shall develop thick greenbelt with native species.”
- Considering the specific condition of the granted ToR and eco-sensitivity of the area, conservation activity and its budget has been planned & included in the conservation plan and submitted to DCF, Porbandar, which was further revised activity and budget wise as suggested by DCF, Porbandar vide letter dated 13.12.2021.
- The said revised Conservation plan is approved by PCCF vide letter no. WLP/32/C/970-972/2021-22 dated 16.02.2022. At time of EAC presentation on 15.02.2022 it was under consideration at PCCF office. In the said approval letter, it was mentioned that work planned/activity and budgetary provisions are found appropriate. Wildlife Conservation Plan is approved for six activity and budget of Rs 29.5 lakhs which needs to be implemented within three years. The copy of the letter has been submitted along with ADS reply.
- In addition to this amount of Rs.29.5 Lakhs approved by PCCF, please be informed that company has already spent Rs. 10 lakhs recently and organized wildlife awareness camps and procured rescue vehicle to Gujarat State Lion Conservation Society, Porbandar for conversion of wildlife in the Barda Wildlife Sanctuary.

ADS Point 2: Point no. 3 i.e. ‘The mining area shall be strictly done only in the areas where mine activities are permitted activities. The boundary of the leased area will be marked prior to start of work at the site’ and point no. 4 i.e. ‘Scientific mining operations accompanied by ecological restoration and regeneration of mined wastelands with eco-friendly substitutes and alternatives should be adopted.’ As shown in the Wildlife Conservation Plan are not actual interventions for wildlife. They are regular safety measures which needs to be removed from the conservation plan since they have no relevance but at the same time they need to be undertaken for the different objectives and the budget can be adjusted accordingly against the other parameter.

Reply:

- We agreed that Point 3 and Point 4 are important safety measures of mining operation and not actual interventions for wildlife. Considering the same it was taken as part of recommendation activity which helps wildlife protection and improvement of habitat propagation.
- Please note that said both points are not covered under the budgetary provisions they are suggestions which are important before and during mining operation for wildlife protection.
- The Conservation plan is approved by PCCF vide letter no. WLP/32/C/970-972/2021-22 dated 16.02.2022.

ADS Point No 3: It was observed during the presentation that the entire mining initially planned is only in the farthest of the westward side, in case the project proponent carries out mining towards east, it should be done only after the plantation of 50 m barrier is raised to the 15 feet. Undertaking regarding the same needs to be submitted by the project proponent.

Reply:

- As presented during the presentation, entire mining initially planned in the farthest of the westward side and not towards east side. We undertake that east side mining activity should be done only after the plantation in 50 m barrier raised to the 15 feet.
- Undertaking stating the above is submitted along with ADS reply.

ADS Point No.4: The transport route is passing through the villages, the impact of transportation from the village, the risk factor and the road condition including the road width is to be properly assessed during a sizable amount of the baseline information in the village on the air quality, noise quality be submitted with a snapshot of one week monitoring in the villages on the road. The project proponent should also explore the possibility of bypass road for transportation.

Reply:

- Transport route from mine site to plant is @ 21 km. Detail bifurcation of village road, State Highway and National Highway are given below with respective length.

Sr. No.	Name of Road Route (From – To)	Type of Road	Length of Road (km)
1.	Boricha Mine – Adityana	Village Road	3.0
2.	Adityana–Kolikhada	SH – 95	7.5
3.	Kolikhada – Porbandar Bypass	SH – 95	4.0
4.	Porbandar Bypass – Plant	NH – 51	6.5

Total	21.0
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- As per above, only 3 km road is village road and all other road we are going to utilize will be State Highway and National Highway. Please also note that there is no village settlement on 3 km village road which we are going to utilize for mineral transportation. Transportation route map with length of each road & Copy of letter from Road & Building Division are submitted along with ADS reply.
- Detail Traffic study has been carried out considering the above route only. Also, Baseline monitoring for AAQM and Noise monitoring has been carried out on Adityana village which is settled adjacent to State Highway to be used as transportation route. Recent photographs showing road submitted along with ADS reply.
- Baseline monitoring of AAQ and Noise level of Adityana village submitted along with ADS reply.
- Majorly, we are going to use State Highway and National Highway for mineral transportation from mine site to plant and believe that alternative bypass route is not required to explore.

From the above stated facts, we would like to state that there will be no impact on surrounding villages which are by-passing through SH-95 & we ensure that all mitigation measures will be implemented as suggested in EMP during transportation of mineral.

ADS Point No.5: The budget does not include the amount of plantation for 21 Ha area as suggested in the conceptual plan progressively as well as suggested by EAC in the 30.36 Ha area of no-mining zone should also be included in the EMP budget.

Reply:

- The budget for plantation in 21 Ha area is about 19.35 lacs and its recurring cost is about 1.93 lacs/year, which is part of EMP budget and included in EIA report as well as presentation slide no. 8,9, 21 & 26.

Cost Breakup of Greenbelt:

Particulars	No. of plants	Capital Cost (in Rs.)	Recurring Cost(in Rs.)
Capital cost@60/ plant	32250	19,35,000	1,93,500
(The budget includes cost of digging of pits, fertilizers,	Total Cost	19,35,000	1,93,500

saplings and maintenance)			
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- Thick Green belt has been proposed in NMZ area (buffer of 50m offset from the 1 Km line from boundary of BWS) i.e. 3.92 Ha.
- The green belt is also proposed in the SBZ area of the Tar Road i.e. 1.68 Ha.
- Remaining plantation in area **15.90 Ha has been proposed in NMZ area** (1 Km line from the boundary of BWS) up to end of mine life.

ANNUAL BUDGET EARMARKED UNDER EMP

S.NO.	ITEM	CAPITAL COST (RS. IN LAKH)	RECURRING COST (RS. IN LAKH)
1.	Environmental Training /awareness campaign	0.5	0.5
2.	Pollution abatement-Water sprinkling	0	0.5
3.	Green belt development & Others	19.35	1.94
4.	Environmental Monitoring cost	0	1.65
5.	Corporate Environmental Responsibility	0	5
6.	Occupational health safety	1.5	1.5
7.	Conservation of Sch-I species	29.5	0
8.	Rainwater Harvesting	19.12	1.0
Total		69.97	12.09

ADS Point No 6: The suggestion made by the EAC regarding the manual sizing of the mineral is also being re-looked into and mechanical sizing practice can be adopted for safety of labor.

Reply:

Looking to soft nature of limestone deposit and requirement of size of limestone (25mm to 100mm) for Soda ash manufacturing, manual sizing practice is more suitable than mechanical sizing practice for higher recovery factor as mechanical sizing will generate more undersize. During initial plan period, sizing will be done manually with due observance of all safety measures, however, as suggested, mechanical sizing practices shall be explored to get a sized limestone in place of manual sizing and will be adopted as soon as possible.

5. Lease Details:

Granted Mine Lease	Area	101.17 Ha (250 acres)
	Mineral	Limestone
	Location	S. No. 22/2P of Village: Boricha, Taluka: Porbandar, District: Porbandar (earlier Junagadh)
	Order no.	MCR-1563-22089-CHH dated 27.08.1965 and MCR-1563-33800-CHH dated 10.12.1965 for captive use in Soda ash plant
	Execution date	10.07.1966 for period of 20 years
Validity of mine lease	The State Government has extended tenure of the mining lease up to 31.03.2030 vide order No. MCR/1563/22809/CHH dated 02.02.2018 and the District Collector, Porbandar has executed the lease deed on 28.01.2019 for the period up to 31.03.2030 in name of M/s Saurashtra Chemicals, Division of Nirma Limited which was registered with Registrar Porbandar on 22.02.2019.	
Additional information	<ul style="list-style-type: none"> • The Mining lease of limestone for an area of 101.17 Ha (250 acres) in S. No. 22/2P of Village: Boricha, Taluka: Porbandar, District: Porbandar (earlier Junagadh) was originally granted in favor of company vide Govt order no. MCR-1563-22089-CHH dated 27.08.1965 and MCR-1563-33800-CHH dated 10.12.1965 for captive use in Soda ash plant and mining lease deed was executed on 10.07.1966 for period of 20 years. • The first renewal application was made on 08.07.1985 for the further period of 20 years i.e. upto 09.07.2006. • However, the State Government vide order no. MCR-1585-(S-137)-627-CHH, dated 06.03.1987 rejected the renewal of mining lease stating that the mining leases already granted earlier have estimated reserves of limestone to feed the plant in other mining leases. The lease area was not under Possession of the lessee since 1986 when the renewal application for lease was rejected by the State Govt. After that this rejection order was challenged by filling RCS no. 309/93 in Hon'ble Court of learned Civil judge (S.D.) Porbandar, who was pleased to allow the suit vide judgement & decree dated 09.09.1996 for renewal of the mining lease for 20 years. The state Government preferred the appeal by filling Regular Civil Appeal No. 1/97 in the Court of Joint District Judge (S.D.) Junagadh at Porbandar. In the Judgment dated 03.05.2004 the learned Joint Civil Judge confirmed the Judgment & Decree passed by Learned Civil Judge (S.D.) in RCS No. 309/93 on 09.09.1996. The Hon'ble Court also noted that lessee is under obligation to apply for second renewal about 12 	

	<p>months before expiry of lease period, considering the expiry of the lease period of first renewal on 09.07.2006.</p> <ul style="list-style-type: none"> • Applied for second renewal on 14.06.2005 i.e. before one year of the expiry of the lease period. The renewal request of company for issuances of renewal orders were under consideration with the State Govt. for longer period. • Meanwhile, Central Government has amended "Mines and Minerals (Development and Regulation) Act-1957 w.e.f. 12.01.2015, incorporating special provisions relating to the extension of the tenure of the existing captive leases under section 8A(5). Accordingly, the State Government has extended tenure of the mining lease up to 31.03.2030 vide order No. MCR/1563/22809/CHH dated.02.02.2018 and the District Collector, Porbandar has executed the lease deed on 28.01.2019 for the period up to 31.03.2030 in name of M/s Saurashtra Chemicals, Division of Nirma Limited which was registered with Registrar Porbandar on 22.02.2019.
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6. Mining plan details:

Mining Plan approved by Indian Bureau of Mines, Ajmer	Letter No.	684(4)(1)/MP-317/2020-21-GNR
	Date	2 nd March, 2021
	Validity	31 st March, 2026
	In favor of	Boricha Limestone Mine (MLA: 101.17 Ha) of M/s Saurashtra Chemicals
	Non-mining zone	Out of 101.17 Ha, 36.2102 Ha has been undertaken to be non-mining zone.

Mining Parameters	Quantitative Description
Bench Height	3 m
Bench Width	3 m
Method of Mining	Open cast Semi- mechanized with drilling & blasting (Sizing within the pit will be manual)
Individual bench slope	85°
Overall pit slope	85°
Drilling/Blasting	Average 188 m drilling per day & 52 holes blast per day
RoM output size	7,00,000 TPA
Total working days	300 days
Life of mine	6.4 years* *The Life of mine may be increased based on reserves estimation after the completion of exploration proposal.
Transportation details	Loading/unloading will be done by manually. Transportation of mineral to soda ash plant (viz. @

	19 kms from mine site) will be done through covered truck/dumper only.
Dumper's capacity	30 ton

7. Land Area Breakup:

Private land	Nil
Government land	101.17 Ha.
Total Mining lease area (MLA)	101.17 Ha.
Barda Wildlife Sanctuary	Mining lease area is falling outside Barda wildlife sanctuary and its Eco Sensitive Zone (ESZ) as notified by MoEF & CC, New Delhi vide notification dated 28.04.2017. Barda Wildlife sanctuary (BWLS) is adjacent to said mine. One km line from the periphery of BWLS as well as the buffer of 50m offset from the 1-Km line (w.r.t. boundary of BWLS) is projected and also marked on the Surface Plan. It is established that around 36.2102 Ha of the eastern part of the lease area falls into the one km radius from the BWLS and 50m offset from 1-Km line. This zone is considered as non-mining zone.

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

Particulars	Particular's Name	Distance & Directions
Nearest Village	Boricha	1 km, SE
Nearest Highway	SH-95	3.9 km, W
Nearest Railway Station	Ranavav Railway station	7.6 km, SE
Nearest Water Bodies	Khambhala Dam	8 km, E

9. Water requirement

Total water requirement	55 KLD	Domestic water	18 KLD
		Dust Suppression	21 KLD
		Greenbelt	16 KLD
Source	Nearby villages/company's other mine		

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	Barda Wildlife Sanctuary & its eco sensitive zone is adjacent to mine lease area. Certificate from DCCF & CWLW has been received regarding mine lease area does not fall in ESZ of Barda Wildlife Sanctuary on 17/06/2020.
National Park	No	
Wildlife Sanctuary	Yes	
Eco-Sensitive Zone (ESZ)	Yes	

Schedule-1 species	Yes/No	Details of Certificate/letter/Remarks
Schedule-I species	Yes	Eurasian Spoonbill, Eurasian Sparrow hawk, Indian Peafowl, MacQueen's Bustard, Osprey, Leopard, Pangolin, Ratel, Wolf
Wildlife Conservation Plan	Yes	Wildlife Conservation Plan for Schedule-1 species has been approved by Chief Wildlife Warden on 16 th February,2022. Approval copy of the same has been submitted along with ADS reply.

11. Forest Clearance/Wildlife Clearance/CRZ/CGWA, if applicable - Not Applicable.

12. Status of CTE/CTO – EC to CTE has been obtained vide letter no.49629 dated 1st October,2021.

13. Green belt/plantationdetails:

Proposed area for green belt/plantation	21.50 Ha.
Budget for green plant& plantation till the end of life of mine.	Capital Cost:19.35 Lakh Recurring Cost:1.93 Lakh

Particulars for Green belt/plantation	Area covered (in Ha)
7.5 m barrier & non-mineralized zone	3.92 Ha.
50 m safety zone of nallah, roads, electric lines	1.68 Ha
500 m safety zones of nearest habitation villages	-
Non-mining zone area	15.90 Ha

14. Baseline details:

Baseline Data (Air / Water / Noise / Soil / Ground water table/ others)		
Period of baseline data collection	March'21 to May'21	
Season	Pre-Monsoon	
Air Quality Monitoring	PM ₁₀	50-78 µg/m ³
	PM _{2.5}	29-56 µg/m ³
	SO ₂	4-18 µg/m ³
	NO ₂	12-32 µg/m ³
Ground Water Monitoring	pH	7.14- 7.89
	TDS	316-497 mg/L
	Total Hardness	199-336 mg/L
	Chloride	39-104 mg/L
	Fluoride	0.27-1.41 mg/L
	Mercury	<0.001
	Lead	<0.002
Surface Water Monitoring	pH	7.25-7.54
	DO	5.4-5.6 mg/L

	BOD	18-22 mg/L
	COD	52-68 mg/L
Noise Monitoring	Day time	48.6- 60.4 dB
	Night time	36.8- 56.2 dB
Soil Monitoring	pH	7.26-7.66
	Nitrogen	12.6-13.9 mg/100gm
	Phosphorous	0.80-0.93 mg/100gm
	Potassium	8.83-9.45 mg/100gm
	Conductivity	146-478 micro mhos/cm
Ground Water Table	Pre-Monsoon	28 m bgl
	Post-Monsoon	23 m bgl
Mitigation measures to prevent Environmental Pollution	<ul style="list-style-type: none"> • Water sprinkling will be done on unpaved roads to avoid dust generation during transportation. • Dust mask will be provided to the workers engaged at dust generation points like excavation and loading points. • Personal protective equipment will be provided to prevent the noise exposure. • Green belt will be developed with dense hedges around the lease boundary to avoid the noise in the vicinity. • Controlled blasting will be carried out with proper spacing and stemming so that noise can be avoided. • Ground water level will not be intersected due to proposed mining activity. • The air and water pollution control measures during construction and operation phases would ensure minimum degradation of surrounding vegetation, forest area and water bodies. • For the Schedule-I species, the recommendations of the conservation plan should be implemented by the project. 	

15. Public Hearing Details:

Advertisement for PH with date	Indian Express (English):18.11.2021 Sandesh (Gujarati):18.11.2021
Date of PH	24/12/2021
Venue	Mine Site
Chaired by	Resident Additional Collector & Additional District Magistrate, Porbandar and Regional Officer, Gujarat Pollution Control Board, Porbandar
Main issues raised during PH	Regarding employment generation
Budget proposed for addressing issues raised during PH	5 lacs/annum

16. Court case details:

Court Case	PP submitted that no court case is involved at present.
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17. Rehabilitation & Resettlement:

R & R details	The project proponent submitted that R & R is not involved.
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18. Affidavit/Undertaking details:

Affidavit	<ul style="list-style-type: none"> Affidavit in compliance of Ministry's OM No.3-50/2017-IA-III dated 30th May 2018 has been submitted.
Undertaking	<ul style="list-style-type: none"> Undertaking dated 16/09/2021 is submitted that conditions laid down in Terms of Reference prescribed by MoEF&CC, New Delhi vide letter no. J-11015/67/2015-IA-II (M) dated 14th July, 2020 have been complied with and the data submitted and information provided in the report are factually correct. Consultant submitted an undertaking that he shall be fully responsible for any mis-leading information mentioned in report of Boricha Limestone Mine.

19. Details of the EMP:

Activities	Capital cost (Lakhs)	Recurring cost (Lakhs/annum)
Environmental Training /awareness campaign	0.5	0.5
Pollution abatement-Water sprinkling	-	0.5
Green belt development	19.35	1.94
Environmental Monitoring cost	-	1.65
Corporate Environmental Responsibility		5.0
Occupational Health & Safety	0.5	1.70

20. Details of project cost and employment:

Particulars	Budget (Rs. In Crore)
Capital Cost for Environment Protection	0.19
Budget for addressing the Public Hearing issues	0.05/Annum
Total Cost for EMP	0.20
Recurring Cost for EMP	0.01/Annum
Project Cost	3.91
Employment	605persons

21. Observation and Recommendation of the Committee:

The proposal was considered in the 49th EAC meeting held during 19th to 21st April, 2022. After the detailed presentation made by the project proponent and the consultant, the Committee noted that the budget for plantation submitted by the project proponent was at Rs. 60 per plant which seems not to be adequate. The budget only included the cost of digging of pits, fertilizers, saplings and maintenance which needs to be revised. The EMP cost was also not properly presented and needs to be revised. The ADS reply was submitted on 14th March, 2022 was not satisfactory. Therefore, the Committee **deferred** the proposal due to want of the following information:

- 1) The budget indicated for planting the 32,250 no. of plants needs to be revised by taking actual cost of plantation which includes sapling cost, cost of pit, fertilizer, manure, soil and further maintenance cost over a period of 3 years. Sapling size should be minimum 10 ft and either fencing or individual tree guard cost also should be included.
- 2) The project proponent needs to submit the revised EMP budget with capital and recurring cost for the mining activities.
- 3) The project proponent needs to submit the EMP cost for addressing public concerns through the timeline of three years with capital and recurring expenditure.
- 4) The plantation cost should be included for avenue plantation which includes village road of 3 km length and submit.

1.6 Proposal for Terms of Reference of M/s Chhattisgarh Mineral Development Corporation Limited for mining of Bauxite with Total excavation of 8,45,846 TPA (Bauxite (ROM): 1,53,846 TPA + OB: 6,92,000 TPA) in the mine lease area of 149.3376 Ha, located at Village: Pakhritola, Tehsil: Bagicha, District: Jashpur, Chhattisgarh – [File No: IA-J-11015/21/2022-IA-II(NCM), Proposal No: IA/CG/MIN/265556/2022: Consultant: Srushti Seva Private Limited] - Terms of Reference (ToR)

EAC Meeting Details:

EAC meeting	49 th
Date of Meeting	19 th – 21 st April, 2022

The proposal of M/s Chhattisgarh Mineral Development Corporation Limited is for mining of Bauxite with total excavation of 8,45,846 TPA (Bauxite (ROM): 1,53,846 TPA + OB: 6,92,000 TPA) in the mine lease area of 149.3376 Ha, located at Village: Pakhritola, Tehsil: Bagicha, District: Jashpur, Chhattisgarh. The mine lease area is

located between Latitude: 23°40'42" N to 23°05'14.5" N and Longitude: 83°36'22" E to 83°36'55" E. The mine lease area falls under the Survey of India Toposheet No: 64M/12 and falls in Seismic Zone-III. The Project Proponent presented the KML file during the presentation to indicate the location of mine lease on Google Earth.

2. M/s Chhattisgarh Mineral Development Corporation Limited has made an online application vide proposal no: IA/CG/MIN/265556/2022 dated 01.04.2022 and submitted Form 1 and PFR under the provisions of the EIA Notification, 2006. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals and falls under Category "A" as the mining lease area is greater than 100ha and appraised at the Central level.

3. Details of Mine lease:

S.no	Letter of Intent	Date of the grant	Name of the Mineral	Period of Grant	Granted by	Mine lease area in Ha
1	Letter of Intent for grant of mining lease vide Lr No F 3-10/2021/12	17.12.2021	Bauxite	50 years	Government of Chhattisgarh	149.3376

4. Land use/Land Cover of the Mine Lease Area:

Private land	98.164 ha
Government land	51.1736 ha
Total Mining lease area (MLA)	149.3376ha

5. The Project Proponent submitted that the Mining plan has been approved by Indian Bureau of Mines (IBM) vide letter dated 25.03.2022.

6. The Project Proponent submitted that the method of mining will be opencast mechanized mining. PP reported that the Geological reserves is 23,47,736 Tonnes and Mineable reserves is 11,54,849 Tonnes. The anticipated life of the mine will be about 15 years and will be increased after the proposed exploration is completed. PP submitted that dumpers of 12 Tons capacity will be utilized for transportation. PP reported that the maximum depth of working will be upto 16m. During the 1st five years about 10,24,200 Ton OB and 1,13,196 Ton waste will be generated. During the 1st five years, about 11.03 Ha of area will be covered as mining pit, out of this about 9.30 Ha area will be backfilled by OB and waste. Upto the life of the mine, area of about 62.14 Ha will be covered as a pit and will be fully backfilled and 87.1976 Ha will remain undisturbed. After the backfilling the land will be levelled and covered by shrubs and grass so as to improve the fertility of the land. There is no proposal for blending of mineral reject with bauxite ore. The mineral reject will be stacked separately for future use. PP submitted

that there is no proposal for beneficiation of mineral except dry crushing and screening. However, during the EAC meeting, PP informed that there is no proposal for installing crusher within the mine lease area.

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

Particulars	Details	Distance & Direction
Nearest Village	Pakhritola village	Inside the lease area
Nearest Town	Bagicha	10.5 km, SSE
Nearest Highway	SH-12	21.38 km, NNE
Nearest Railway station	Ambikapur	47.6 km, W
Nearest water bodies	Seasonal Nala	0.7 km, SW
	Geor Nadi	1.4 km, E

8. Water requirement:

Total water requirement (KLD)	3.5 KLD	Dust suppression	2.0 KLD
		Greenbelt	1.0 KLD
		Domestic	0.5 KLD
Source	Tube well and Water tanker		

9. The Project Proponent reported that no forest land is involved in the mine lease area. PP reported that there are no National Park, Wildlife Sanctuary, Biosphere Reserves, Tiger/Elephant Reserves within the 10km radius of the study area. Further, PP reported that the following Reserve Forest such as Bharia RF: 2.35 km, NW, Ghaghi RF 3.5 km, NW, Khudiarani RF 3.5 km, S, Daravghagh RF: 5.75 km N, Gasdeban RF: 7.4 km, NE and Sirsa RF 8.1 km, E are found within 10 km radius of the mine lease area.

10. The Project Proponent submitted that there is no proposal for displacement of few hutments / houses / structures of village Pakhritola located within the mining lease area.

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

12. Details of project cost and employment:

Particulars	(Rs. In Crore)
Project Cost	Rs.5.58 Cr
Employment	117 Persons

13. Observation and Recommendation of the Committee:

The proposal for Terms of Reference was considered in the 49th EAC (Non Coal Mining) meeting held during 19th - 21st April, 2022. After detailed deliberations made by the Project Proponent and the Consultant, the Committee **recommended** the proposal for grant of Terms of Reference for M/s Chhattisgarh Mineral Development Corporation

Limited for mining of Bauxite with total excavation of 8,45,846 TPA (Bauxite (ROM): 1,53,846 TPA + OB: 6,92,000 TPA) in the mine lease area of 149.3376 Ha, located at Village: Pakhritola, Tehsil: Bagicha, District: Jashpur, Chhattisgarh 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 shall carry out the detailed lithography study to assess the potential use of land for agriculture as well as reassess waste land.
- ii. The Committee noted that since habitation is within mine lease area and though 50m is safety buffer zone, the actual distance will be based on impacts of drilling and blasting studies to be carried out in similar mine lease of M/s Chhattisgarh Mineral Development Corporation Ltd whichever is higher.
- iii. The Project Proponent needs to submit the protection measures to be taken in compliance of the MoEF&CC Office Memorandum No. Z11013/57/2014-IA.II (M), dated 29th October, 2014. PP should also submit the measures to be taken for protection of seasonal nalahs and other water bodies in the vicinity of the mine lease area.
- iv. 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. PP also needs to submit the scenario of pollution to be generated at the mine lease boundary and at the sensitive receptors for air quality, noise level and ground vibration.
- v. The Project Proponent needs to submit the plan and map for transportation of the mineral by bypassing the villages and its protection and mitigative measure to be adopted while transportation of the mineral.
- vi. The Project Proponent needs to submit the land use classification of mine lease area of 149.3376 ha along with the ownership of the land with the supporting documents and their designated use. PP also needs to submit the map demarcating the mining zone in the Government and Agriculture land separately.
- vii. The Project Proponent needs to address the exact breakup of ROM, OB and Topsoil per year in first five year plan period in tabular form.
- viii. The Project Proponent needs to assess the required manpower per day on the basis of approved work load.
- ix. The Project Proponent needs to address the rehabilitation of the livelihood of the local people in Rehabilitation and Resettlement (R&R) plan.

- x. The Project Proponent needs to carry out the Public Hearing as per provisions of EIA Notification, 2006. PP should also submit the time bound action plan on concerns of the public with a timeline of 3 years through proper separate budget for the concerns of the local people in terms of health care facilities for COVID, betterment of schools nearby and to facilitate the online education system by providing Wi-Fi connectivity, smart classrooms and desktops/tablets, infrastructure, and environment protection.
- xi. The Project Proponent needs to submit the detailed greenbelt/plantation plan in tabular format (year wise for entire life of mine) with proper time bound capital and recurring cost. Entire plantation shall be carried out by planting the seedling of 10 ft height with at least 90% survival rate and the entire peripheral plantation and the safety barrier plantation shall be completed within 6 months from the start of mining operations. The casualties of each year shall be replaced every year with new saplings and such number of saplings shall not be counted in the number of saplings proposed to plant in that year. PP shall undertake the progressive bench plantation up to HFL for eco restoration of water bodies. An undertaking in this regard needs to be submitted by PP.
- xii. The Project Proponent needs to submit the Affidavit as per Ministry's O.M No 3-50/2017-IA.II(M) dated 30.05.2018.

1.7 Proposal for Terms of Reference of M/s PadamKashyap for mining of Limestone in Chhotekadma Limestone mine with production capacity of 40,000 TPA in the mine lease area of 1.77 Ha, located at Khasra Number :- 157, 159 and 160, Village- Chhotekadma, Taluka- Tokapal, District- Bastar, Chhattisgarh -Terms of Reference (ToR) – [File No: IA-J-11015/22/2022-IA-II(NCM), Proposal No: IA/CG/MIN/263667/2022; Consultant: P and M Solution] - Terms of Reference (ToR)

EAC Meeting Details:

EAC meeting	49 th
Date of Meeting	19 th – 21 st April, 2022

The proposal of M/s PadamKashyap is for mining of Limestone in Chhotekadma Limestone mine with production capacity of 40,000 TPA in the mine lease area of 1.77 Ha, located at Khasra Number:- 157, 159 and 160, Village- Chhotekadma, Taluka- Tokapal, District- Bastar, Chhattisgarh. The mine lease area is located between Latitude: 18°58'21.49330" N to 18°58'27.13083" N and Longitude: 81°51'25.48090" E to 81°51'32.41087" E. The mine lease area falls under the Survey of India Toposheet No: 65E/16, F/13 and falls in Seismic Zone-II.

2. M/s PadamKashyap has made an online application vide proposal no: IA/CG/MIN/263667/2022 dated 25.03.2022 and submitted Form1 and Prefeasibility report under the provisions of the EIA Notification, 2006. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals and falls under Category A of the schedule of the EIA Notification, 2006 as the instant proposal attracts the general conditions as the ESZ of Kanger valley National Park is located about 1.77 Km, S from the mine lease area and appraised at Central level.

3. Details of Mine lease:

S. No	Letter of Intent (LoI)	Date of the grant	Name of the Mineral	Period of Grant	Granted by	Mine lease area in Ha
1	Letter of Intent issued vide Lr No 895/Kanij/Kh.Li. 4/08/2020- 21/Khanij/ U.P./ 2021, Jagdalpur	25.03.2021	Limestone	-	Government of Chhattisgarh	1.77

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

Private land	1.77 Ha
Total Mining lease area (MLA)	1.77 Ha
Private land for crusher, workshop & other infrastructure outside the MLA	Nil

5. Mining plan:

Approval of Scheme of Mining with Progressive Mine Closure Plan approved by Office Collector, (Khanij Branch), Dakshin Bastar, Dantewada	Letter No.	No. 611/Mines/Mining Scheme/ 2021-22, Dantewada
	Date	06.09.2021
	Validity	5 years
	Mine lease area	1.77 Ha
	Mineral	Limestone (low grade)
Additional information (if any)	PP submitted that as per Chhattisgarh Minor Mineral Rules, 2015, Limestone has been categorized under Part C of Schedule I Mineral.	
Mining Parameters	Quantitative Description	
Method of mining	Opencast semi mechanized with manual mining method	
Total Geological Reserves	0.885 Million Tonnes	
Total Mineable Reserves	0.582 Million Tonnes	
Life of the Mine	24 years	
Bench Height	3m	

Bench Width	More than the height of the bench
Topsoil/OB/IB	PP reported that during the proposed plan period, 5027.72 cu.m of topsoil will be generated and about 1350.0 cu.m of topsoil will be generated during at the end of conceptual plan period. Top soil will be stacked along the lease boundary in the mining limit or non mining zone with 1.5m of dump height over an area of 0.33 ha & use for the plantation purpose in the 7.5m barrier zone.
Transportation	Limestone produced from this area will be sent to crushing plant of 50 TPD capacity installed outside the mine lease area for further sizing as per market requirement. Tipplers of 10 ton capacity will be used for transportation of mineral.
Mineral beneficiation	PP submitted that no processing/beneficiation of low grade limestone proposed except sizing and screening of limestone.
End Use	PP submitted that the low grade limestone is a minor mineral and will be used as building material, infrastructure and for road construction.
Groundwater intersection	PP reported that the expected depth of the proposed quarry will be up to 605 mRL and the water table lies below 30m from ground level. As ultimate depth of mining will be much higher than the ground water table there will be no groundwater intersection.

6. The Project Proponent reported that about 11.6 KLD of water will be utilized for drinking & domestic (1.1 KLD), dust suppression (7.8 KLD) and greenbelt development (2.7 KLD). Water will be sourced from nearby sources, bore well and mine sump.

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

Particulars	Particular's Name	Distance & Direction
Nearest village	Chhotekadma	0.5 km, W
Nearest State/ National Highway	NH-63 NH-30	4 km, N 4 km, E
Nearest Railway Station	Tokapal Railway station	4.2 km, NE
Nearest Water bodies	Kanger river	4.0 km, W

8. The Project Proponent reported that no forest land is involved in the mine lease area of 1.77 ha. PP reported that the Eco Sensitive Zone (ESZ) of Kanger valley National Park is located at a distance of 1.77 Km, S from the mine lease area. PP submitted the letter obtained from the Office of the Director Kanger Valley National Park Jagdalpur No./TA/3099, Jagdalpur, dated 31/12/2021 stating that the mine distance

from the boundary line of Kanger National Park for Khasra No. 157, 159 and 160 village Chhotkadma Tehsil Darbha Jagdalpur District Bastar Chhattisgarh is 3.86 kms and the minimum distance of mine from Eco-sensitive zone is 1.77 kms. Final Notification declaring Eco Sensitive Zone around [Kanger Valley Wildlife Sanctuary](#) notified vide S.O. 3653(E) dated 10.10.2019. As per the Final Notification, the Eco-Sensitive Zone shall be to an extent of 0 (zero) to 6.6 kilometres around the boundary of Kanger Valley National Park.

9. The Project Proponent reported that about 2700 plants are proposed to be planted during the plan period. Plantation will be done in safety barrier zone of the mine lease area and mined out benches.

10. The Project Proponent submitted that Rehabilitation and Resettlement plan is not applicable for this project.

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

12. Details of project cost and employment:

Particulars	(Rs. In Crore)
Project Cost	Rs 0.5 Cr
Employment	36 persons

13. Observation and Recommendation of the Committee:

The proposal for Terms of Reference was considered in the 49th EAC (Non Coal Mining) meeting held during 19th – 21st April, 2022. After detailed deliberations made by the Project Proponent and the Consultant, the Committee noted that the instant proposal is for mining of low grade limestone and during the meeting project proponent informed the Committee that the low grade limestone is classified as Minor Mineral as per Chhattisgarh Minor Mineral Rules, 2015 under Part C of Schedule I Mineral. The Scheme of Mining with Progressive Mine Closure Plan was approved from the Office Collector, (Khanij Branch), Dakshin Bastar, Dantewada vide Lr No. 611/Mines/Mining Scheme/ 2021-22, Dantewada dated 06.09.2021 wherein its specifically mentioned that the low grade limestone is a minor mineral and will be used as building material, infrastructure and for road construction. During the meeting, the member secretary discussed telephonically with the representative of IBM and confirmed that the low grade limestone is minor mineral, which is used for building material. The Committee also noted that the instant proposal falls under Category B and being a minor mineral, General Conditions shall not apply for project or activity of mining of minor minerals of Category 'B2' (upto 25 ha of mining lease area) as per the Ministry's Notification S.O

3977 (E) dated 14.08.2018. Therefore, the Committee **returned the proposal in present form.**

1.8 Proposal for Terms of Reference of M/s Tata Steel Limited for mining of Iron and Manganese in Bamebari Iron and Manganese mine for enhancement of production of Manganese Ore from 0.832LTPA (0.978LTPA-ROM) to 5.756LTPA (ROM) and production of Iron Ore (new product) for 3.0LTPA (ROM) with overburden generation of 44.18 LTPA (Peak) & Total excavation of 49.94 LTPA (Peak) in the mine lease area of 464.0 Ha, located at villages Palsa (ka), Kundaposi, Jaribahal, Jajang, Khandbondh, Tehsil: Barbil, District: Keonjhar, Odisha – [File No:J-11015/85/2004-IA.II(M), Proposal No: IA/OR/MIN/262796/2022; Consultant: Vimta Labs Ltd.] - Terms of Reference (Expansion)

EAC Meeting Details:

EAC meeting	49 th
Date of Meeting	19 th – 21 st April, 2022

The proposal of M/s Tata Steel Limited is for mining of Iron and Manganese in Bamebari Iron and Manganese mine for enhancement of production of Manganese Ore from 0.832LTPA (0.978LTPA-ROM) to 5.756LTPA (ROM) and production of Iron Ore (new product) for 3.0LTPA (ROM) with overburden generation of 44.18 LTPA (Peak) & Total excavation of 49.94 LTPA (Peak) in the mine lease area of 464.0 Ha, located at villages Palsa (ka), Kundaposi, Jaribahal, Jajang, Khandbondh, Tehsil: Barbil, District: Keonjhar, Odisha. The mine lease area consists of three discontinuous blocks of Bamebari (140.0 ha), Joribar (91 ha) & Boneikala (233 ha). The Bamebari block is located between Latitude from 21°53'38.89"N to 21°54'44.02"N and Longitude from 85°25'23.37"E to 85°25'52.06"E. The Joribar block is located between Latitude from 21°55'41.52"N to 21°56'25.84"N and Longitude from 85°24'10.74"E to 85°25'06.64"E. The Boneikala block is located between Latitude from 22°02'00.42"N to 22°03'21.47"N & Longitude from 85°24'36.41"E to 85°25'47.40"E. The mine lease area falls under Survey of India Toposheet Nos. 73 G/5 & 73 F/8 (New Toposheet Nos. F 45N5 & F45H8) and falls in Seismic Zone-II. The Project Proponent presented the KML file during the presentation to indicate the location of mine lease on Google Earth.

2. The Project Proponent earlier applied for ToR vide proposal no: IA/OR/MIN/79111/2018 dated 16.09.2018 as per the Ministry's notification S.O 1530 (E) dated 06.04.2018 and submitted the Form-I and Prefeasibility report and the proposal was considered in the 37th EAC meeting held during October 23-24, 2018 wherein the Committee was of the view that this is a violation case of the EIA Notification 2006 as PP has enhanced the production of manganese ore during 2006-07 (83,733 TPA) against the EC capacity of 82,000 TPA. PP has mined out the Mn Ore during 2007-08 to 2017-18 well within the EC capacity. The Committee also observed that the PP has mined out the Iron Ore without the EC during 2003-04 (20978 TPA), 2004-05 (6766

TPA), 2005-06 & (1560 TPA). PP has never taken the EC for iron ore mining. Thus, Committee is of the view that this is a case of violation of the EIA Notification, 2006 as PP has enhanced the production of manganese ore during 2006-07 (83,733 TPA) against the EC capacity of 82,000 TPA and the same may dealt by violation notification S.O. 804(E) dated 14.03.2017. The Committee deferred the proposal. The EAC suggested that the Ministry may examine the issues. In this regard, Ministry vide it's letter no. J11015/116/2018-IA.II (M) dated 14.12.2018 requested the Dept. of Environment, Govt. of Odisha to initiate credible action against the PP under sec. 19 of the Environment (Protection) Act, 1986. Then the proposal was delisted on 25.03.2019 and then the Project Proponent relisted the proposal on 15.03.2021 from the PARIVESH portal and informed the Ministry vide MGM/P&E/149/2021 vide letter dated 12.03.2021 that based on the direction from MoEF&CC letter dated 14.12.2018, a case bearing no 2CC 128/2013 of 2013 dated 05.08.2013 was initiated in the court of JMFC Barbil, Dist Keonjhar Odisha and communicated by Department of Forest & Environment, Govt of Odisha to MoEF&CC, New Delhi vide letter no ENV-I-24/2018/05/F&E, dt 01.01.2019.

3. The proposal was again considered in the 30th EAC meeting held during 6th - 8th April, 2021 wherein the Committee noted that this is a violation case of the EIA Notification 2006 and subsequent amendments as PP has enhanced the production of manganese ore during 2006-07 (83,733 TPA) against the EC capacity of 82,000 TPA. PP has mined out the Iron Ore without the EC during 2003- 04 (20978 TPA), 2004-05 (6766 TPA), 2005-06 & (1560 TPA) and the proposal was considered in the 37th EAC meeting held during October 23-24, 2018 and the credible action has been already taken. PP again relisted the same proposal which was earlier submitted under Ministry Notification S.O 1530 (E) dated 06.04.2018. The following principle as approved by the Competent Authority with respect to consideration of violation cases to be followed: i. Send the matter to the Sector EAC for consideration of the case on merit. ii. Take action against the alleged violation as per law. iii. Do not wait for either the evidence of action having been started or violation proceedings to finish before taking up the case on merit. iv. The EC if given after consideration on merit would be valid from the date it is given and not with retrospective effect. For the period before it, if violation is established by the court or the competent authority, the punishment/penalty as per law would be imposed. In view of the above, Committee was of the view that PP should apply a fresh application with facts and figures mentioning the case of violation as 'Yes' in the Form 1 for consideration of Terms of Reference (ToR) for violation proposal and the same was agreed by the PP. The Committee therefore returned the proposal in present form.

4. Now, theProjectProponent has submitted a fresh application vide proposal no: IA/OR/MIN/262796/2022 dated 22.03.2022 and submitted Form 1 and Prefeasibility

report under the provisions of the EIA Notification, 2006. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals under Category “A” of the schedule of the EIA Notification, 2006 as the mining lease area is greater than 100 ha and appraised at Central level.

5. The Project Proponent initially obtained Environmental Clearance vide MoE&F vide Lr No.J-11015/85/2003-IA.II(M) dated 17.11.2005 for enhancement of production of Manganese Ore from 0.83 LTPA involving a lease area of 464 Ha under the provisions of the EIA Notification, 1994.

6. The Project Proponent submitted that the lease was granted from the Raja of Keonjhar State with effect from 01.04.1930 for a period of 30 years over an area of 1150.550 ha. The first renewal was for a period of 20 years from 01.04.1960 to 31.03.1980 over an area of 1150.550 ha. The second renewal was for a period of 20 years from 01.04.1980 to 31.03.2000 over an area of 1150.550 ha. The application for third renewal was made on 31.12.1998 over a reduced area of 464.000 ha. Subsequent to enactment of the MMDR (Amendment) Act, 2015, the State Govt. (GoO) has passed the express order vide letter no. 4076/SM-III(A)SM-06/2006, dated 31.05.2014 and extended the lease period till 31.03.2030 and supplementary lease deed was executed and registered on 08.05.2015.

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

Forest land	448.395 ha
Non Forest land	15.605 ha
Total Mining lease area (MLA)	464.000 Ha
Private land for crusher, workshop & other infrastructure outside the MLA	Nil

8. The Project Proponent submitted the Approval of Review of Mining Plan of along with the Progressive Mine Closure Plan (PMCP) approved by Indian Bureau of Mines (IBM) vide Lr. No.RMP/A/08-ORI/BHU/2020-21 dated 03.08.2020 over an area of 1150.550 ha for the period till 31.03.2025. PP also submitted that the balance area of 686.550 ha has been surrendered, after implementing the provisions of Final Mine Closure Plan (FMCP) as per the Rule 23C of the MCDR, 1988, which was approved by Indian Bureau of Mines (IBM), Bhubaneswar Region vide letter no. FMCP/FM/04-ORI/BHU/2014-15, dated 20.01.2015. The certificate of compliance in this regard has also been granted by Indian Bureau of Mines (IBM) vide letter no. T/FMCP/C/01/BHU/2011/267 dated 31.05.2016.

9. The Project Proponent submitted that the opencast mechanised method of mining will be adopted with shovel-dumper combination. Drilling by 100mm & 150 mm

drills and blasting by conventional explosives. PP reported that the reserves of Iron Ore is 2.73 Million Tons and Manganese Ore is 7.56 Million Tons. The anticipated life of mine is about 8 years by considering the proved reserves and resources available as on 01.04.2020. The maximum bench height of 10m & width of 10- 12m during the mining plan period. Shovels of up to 1.6 cu.m capacities and dumpers of up to 35 ton capacities are proposed to be deployed. The blasted ROM is carried up to sorting yards located at the top of the quarries. The dressing, sizing and sorting of ROM is done manually at sorting yard. A screening plant of up to 75 TPH has been installed to recover the manganese ore fines. The finished ore is then loaded manually to the dumpers and transported to stack yard. Mobile Dry crushing unit having 2 X 300 TPH of crushing and double deck vibrating screening arrangement comprises of primary crusher / sizers, screens, bins and conveyors. The waste from mining is overburden generated during extraction of ore, which shall be stacked separately and rehabilitated by adequate plantations in the area as per progressive reclamation activities. The total quantity of wastes likely to be generated and handled in the plan period (2020- 2021 to 2024-25) is 4.05 Million Cubic meter. PP reported that the ultimate depth of mining will be 120 m (conceptual) and mining operation is restricted above the ground water table

10. The Project Proponent submitted that the existing water requirement is 146.0 KLD and will be increased to 350.0 KLD with the proposed expansion. Presently, water used at the mine is being drawn from three bore wells for which the company has obtained No Objection Certificate from the NOC from CGWA vide NOC no CGWA/NOC/MIN/REN/ 1 2021 5995 for withdrawal of 130 KLD of ground water from the borewells and is valid till 22nd July 2022. PP also submitted that the surface water withdrawal permission was granted for 0.4 CUSEC (978.63 KLD) vide letter no: 7397 dated 13.03.2020 from the office of Special Secretary, Govt of Odisha.

11. The Project Proponent submitted that the total mine lease area is 464.0 ha, out of which 448.395ha is forest land and 15.605ha is non-forest land. PP obtained Stage-II Forest Clearance vide MoE&F F.No. 8-72/2004-FC, dated 25.01.2007 for diversion of 145.326 ha of forest land. PP submitted that the proposal for the diversion of balance forest land over an area of 303.066 ha within Bamebari Iron & Manganese Mine submitted on 19-06-2016 and the said proposal has been assigned State Serial No. OR-O59/2016, which is under active consideration with the State Government. PP also reported that there are no Historical monuments, National Parks, Biosphere Reserve, Wildlife Sanctuary, Habitat for Migratory Birds, Archaeological site, Defense installation within 10 km radius from the periphery of mine lease area. PP submitted the Approval of Site-Specific Wildlife conservation plan in respect of Bamebari Manganese mines approved by Principal Chief Conservator of Forests (WL) (Wildlife) & Chief Warden, Odisha vide letter no. 7743/ 1 WL-SSP-01/2015 dated 01.09.2015 with a budget of Rs 635.91 Lakhs.

12. The Project Proponent reported that during the plan period about 26,375 no. of saplings are proposed to plant over an area of 10.5 ha.

13. The Project Proponent submitted the Consent to Operate (CTO) issued by the State Pollution Control Board, Odisha vide letter no. 544/IND-I-CON-189, dated 07.01.2022 for an annual production of 0.083 LTPA of manganese ore with mobile screening plant 1 x 75 TPH and is valid upto 31.03.2025.

14. The Project Proponent submitted the year wise production data authenticated from the Office of the Deputy Director Mines, Joda Circle, vide Memo No: 3880/Mines, dated 19.09.2018 from the year 1993-94 to 2017-18 and from the Office of the Joint Director Mines, Joda Circle, vide Memo No:1783/Mines, dated 31.03.2021 from the year 2018-19 to 2019-20 and from the Office of the Joint Director Mines, Joda Circle, vide Memo No:4195/Mines, dated 20.07.2021 for the period 2020-21. As per the past production details submitted by PP, it was observed that the PP has enhanced the production of manganese ore during 2006-07 (83,733 TPA) against the EC capacity of 82,000 TPA. PP has mined out the Iron Ore without the EC during 2003-04 (20978 TPA), 2004-05 (6766 TPA), 2005-06 & (1560 TPA). PP also submitted the demand was raised by the Deputy Director of Mines, Joda Circle, District Keonjhar vide Lr No. 4144/Mines dated 02.09.2017 amounting for Rs. 50,15,64,942.00/- (Rupees Fifty Crore Fifteen Lakhs Sixty Four Thousand Nine Hundred Forty Two only) on or before 31.12.2017 in pursuance to the para 225 of the order dated 02.08.2017 of Hon'ble Supreme Court in WPC No. 114/2014. Also, demand was raised vide letter no. 5184/Mines, dated 23.10.2017 amounting for Rs. 9,81,78,020/- (Rupees Nine Crore Eighty One Lakhs Seventy Eight thousand and Twenty Only) towards compensation under section 21(5) of MMDR Act, 1957 for production made in excess of lower of the approved limits under Mining Plan & Consent to Operate. In compliance to the order of the Hon'ble Supreme Court on dated 02.08.2017 in WPC No. 114/2014, PP has paid the compensation amount of Rs. 50,15,64,942.00/- (Rupees Fifty Crore Fifteen Lakhs Sixty Four Thousand Nine Hundred Forty Two only) on 22.12.2017. PP also submitted the No Objection Certificate (NOC) from the Directorate of Mines, Odisha vide Lr No. MX-III (d)-59/2018 7008/DM dated 11.10.2018 in confirmation of payment made in with the judgment of Hon'ble Supreme Court of India passed on 02.08.2017 in Writ Petition Civil No. 114/2014 and this certificate is issued for processing of ToR/EC. PP also submitted the Affidavit in a Non-Judicial Stamp Paper vide 33AA 497207 dated 27.09.2018 to undertake that Tata Steel Limited would comply with all the statutory requirements and Judgement of Hon'ble Supreme Court on dated 02.08.2017 in WPC No. 114/2014 in the matter of Common cause versus Union of India and Ors.

15. The Project Proponent submitted that for the demand towards compensation under section 21(5) of MMDR Act, 1957 for production made in excess of lower of the

approved limits under Mining Plan & Consent to Operate, the user agency took the shelter of Revision Cell of Ministry of mines, Government of India vide RA No. 22(60)2017 of 2017 & the Revisionary Authority directed the State Government not to take any coercive measures to recover the amounts specified in the impugned orders. PP also submitted that the case has been filed before the Hon'ble court of J.M.F.C, Barbil on 05.08.2013 a case bearing no 2CC 128/2013 of 2013.

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

17. Details of project cost and employment:

Particular	Budget (Rs. In Crore)
Project Cost	479
Employment	Existing: 312 persons, After expansion: 362 persons

18. Observation and Recommendation of the Committee:

The proposal for Terms of Reference (Expansion) was considered in the 49th EAC (Non Coal Mining) meeting held during 19th-21st April, 2022. After detailed deliberations made by the Project Proponent and the Consultant, the Committee noted that this is a violation case of the EIA Notification 2006 and subsequent amendments as PP has enhanced the production of manganese ore during 2006-07 (83,733 TPA), against the EC capacity of 82,000 TPA and also PP has mined out the Iron ore without obtaining EC during the year 2003-04 (20,978 TPA), 2004-05 (6,766 TPA), 2005-06 & (1,560 TPA). Therefore, the Committee **recommended** the proposal for grant of Terms of Reference under Ministry's SOP for identification and handling of violation cases under EIA, notification 2006 dated 07.07.2021 for M/s Tata Steel Limited for mining of Iron and Manganese in Bamebari Iron and Manganese mine for enhancement of production of Manganese Ore from 0.832LTPA (0.978LTPA-ROM) to 5.756LTPA (ROM) and production of Iron Ore (new product) for 3.0LTPA (ROM) with overburden generation of 44.18 LTPA (Peak) & Total excavation of 49.94 LTPA (Peak) in the mine lease area of 464.0 Ha, located at villages Palsa (ka), Kundaposi, Jaribahal, Jajang, Khandbondh, Tehsil: Barbil, District: Keonjhar, Odisha for undertaking detailed EIA/EMP study. In addition to Standard Term of Reference for non-coal mining, along with the recommendation made by NEERI in its carrying capacity study for Odisha, the Committee also prescribed the following specific terms of reference for this project: -

- i. The Project Proponent shall be required to submit a bank guarantee equivalent to the amount of remediation plan and natural and community resource augmentation plan with the SPCB prior to the grant of EC. The quantum shall be

- recommended by the EAC and finalized by the regulatory authority. The bank guarantee shall be released after successful implementation of the EMP, followed by recommendations of the EAC and approval of the regulatory authority.
- ii. Assessment of ecological damage with respect to air, water, land and other environmental attributes. The collection and analysis of data shall be done by an environmental laboratory duly notified under the Environment (Protection) Act, 1986, or an environmental laboratory accredited by NABL, or a laboratory of a Council of Scientific and Industrial Research (CSIR) institution working in the field of environment.
 - iii. Preparation of EMP comprising remediation plan and natural and community resource augmentation plan corresponding to the ecological damage assessed and economic benefits derived due to violation.
 - iv. The remediation plan and the natural and community resource augmentation plan to be prepared as an independent chapter in the EIA report by the accredited consultants.
 - v. The Project Proponent needs to submit the map demarcating the mineralized and non-mineralized zone in the forest land of 448.395ha and non-forest land of 15.605ha. PP needs to highlight the area already broken up and the area proposed to be broken up. PP also needs to justify the increase in forest land from 382.269 ha to 448.395 ha with the supporting documents.
 - vi. The Project Proponent needs to carry out the Public Hearing as per provisions of EIA Notification, 2006. PP should also submit the time bound action plan on concerns of the public with a timeline of 3 years through proper separate budget for the concerns of the local people in terms of health care facilities for COVID, betterment of schools nearby and to facilitate the online education system by providing Wi-Fi connectivity, smart classrooms and desktops/tablets, infrastructure, and environment protection.
 - vii. The Project Proponent submitted that crushing and screening plant is involved in this instant proposal and the capacity and no.s of the same was not mentioned by the PP. Hence, the PP should include the capacity and no.s of crushing and screening plant proposal in the public hearing and accordingly should prepare the EIA/EMP report covering its impact and mitigation measures proposed.
 - viii. The Project Proponent needs to submit the detailed greenbelt/plantation plan in tabular format (year wise for entire life of mine) in such a way that the planting

only Sal which is a native species with proper time bound capital and recurring cost. Entire plantation shall be carried out by planting the seedling of 10 ft height with at least 90% survival rate and the entire peripheral plantation, safety barrier plantation and gap plantation shall be completed within 6 months from the start of mining operations. The casualties of each year shall be replaced every year with new saplings and such number of saplings shall not be counted in the number of saplings proposed to plant in that year. PP shall undertake the progressive bench plantation up to HFL for eco restoration of water bodies. An undertaking in this regard needs to be submitted by PP at the time of appraisal of EC.

- ix. The Project Proponent needs to submit the chronology of grant lease from the inception of the mine with all the supporting documents including surrendered lease area. PP also needs to submit the final closure certificate issued by Indian Bureau of Mines (IBM).
- x. The Committee noted that as per authenticated past production details submitted by the PP obtained from the Office of the Joint Director Mines, Joda Circle, dated 31.03.2021 and 20.07.2021, it was observed that PP also exceeded the EC production capacity of 83,200 MT during the year 2019-20 (92,223.00 MT) and 2020-21 (89,839.00 MT) but as per Annexure III submitted by the PP it was observed that during the year 2019-20 (81,243.197 MT) and 2020-21 (79,743.844 MT) production capacity is within the limits of EC capacity which is contradictory. Hence, the PP needs to clarify the variation in production w.r.t to authenticated past production details and Annexure-III and the same shall be authenticated from the Office of the Joint Director Mines, Joda Circle at the time of appraisal of EC.
- xi. The Project Proponent needs to submit the latest satisfactory certified EC compliance report at the time of appraisal of EC.

1.9 Proposal for extension of validity of Environmental clearance dated 21.02.2020 of M/s Tirupati Roadways for mining of River Bed Materials (Boulder, Gravel & Sand Minor Minerals) beyond 31.03.2022 from Rattewali Block/ PKL B 10 Project for production capacity of 8.39 LTPA from an effective mineable area of 24.25 ha. [B-1 (11.33 ha), B-2 (4.5 ha) & B-3 (8.3 ha)] in the mine lease area of 45.0 Ha, located at Rattewali Village, Tehsil- Barwala, District Panchkula, Haryana – [File No: J-11015/75/2017-IA-II(M), Proposal No: IA/HR/MIN/264651/2022] - Extension of validity of Environmental clearance

EAC Meeting Details:

EAC meeting	49 th
Date of Meeting	19 th – 21 st April, 2022

The proposal of M/s Tirupati Roadways is for extension of validity of Environmental clearance dated 21.02.2020 for mining of River Bed Materials (Boulder, Gravel & Sand Minor Minerals) beyond 31.03.2022 from Rattewali Block/ PKL B 10 Project for production capacity of 8.39 LTPA from an effective mineable area of 24.25 ha. [B-1 (11.33 ha), B-2 (4.5 ha) & B-3 (8.3 ha)] in the mine lease area of 45.0 Ha, located at Rattewali Village, Tehsil- Barwala, District Panchkula, Haryana. The mine lease area is located between Latitude 30°38'33" N to 30°39'24.6" N and Longitude: 76°59'17.50" E to E 76°50'00" E. The mine lease area falls under the Survey of India Toposheet No H43K14 & H43L2. The Project Proponent presented the KML file during the presentation to indicate the location of mine lease on Google Earth.

2. M/s Tirupati Roadways has made an online application vide proposal no: IA/HR/MIN/264651/2022 dated 29.03.2022 and submitted Form 6 under the provisions of the EIA Notification, 2006. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals and falls under Category "A" the Khol Hai Raitan Wildlife Sanctuary is located within 1.98 km from the mine lease boundary and appraised at Central level.

3. The Project Proponent submitted that Environmental Clearance was granted vide MoEF&CC F. No J-11015/75/2017-IA-II(M) dated 21.02.2020 wherein it is specifically mentioned that

- i. Permissible Mining of River Bed Material (Boulder, Gravel and Sand) shall be limited to 8.39 LTPA instead of requested 19 LTPA, from an effective mineable area of 24.25 ha [B-1 (11.33 ha), B-2 (4.5 ha) & B-3 (8.3 ha)], with a maximum minable depth of 1.33 meter from the original ground level as reported in the replenishment study. The permissible minable material of 8.39 Lakh Ton will be valid till one year from the day of issuance of consent to Operate by HSPCB.
- ii. For subsequent period, PP shall submit fresh annual replenishment study to MoEF&CC for amendment in EC for mineable quantity and maximum permission depth for mining based on the scientific findings of replenishment study. Such study shall be placed before EAC for appraisal for next three years to assess rate of deposition and accordingly, minable production capacity and depth can be prescribed based on trends analysis, provided it is found scientifically satisfactory by the EAC. The placing of the study report before EAC is mandatory for initial three years.

Thereafter, the PP applied for amendment in EC in mineable production capacity and depth of mining for the year of 2021-22 for production capacity from 8.39 LTPA to 12.056 LTPA from an effective mineable area of 24.25 ha. [B-1 (11.33 ha), B-2 (4.5 ha) & B-3 (8.3 ha)], with a maximum minable depth of 1.91 meter from the original ground level as reported in the replenishment study and the Ministry granted amendment in EC

vide Lr No: J-11015/75/2017-IA-II(M) dated 05.08.2021 as Permissible Mining of River Bed Material (Boulder, Gravel and Sand) for the FY 2021-22 shall be limited to 8.39 LTPA from an effective mineable area of 24.25 ha [B-1 (11.33 ha), B-2 (4.5 ha) & B-3 (8.3 ha)], with a maximum minable depth of 1.33 m from the original ground level as reported in the replenishment study.

4. Now, the Project Proponent requested for extension of validity of environmental clearance for mining beyond 31.03.2022 for mining of 8.39 LTPA with an effective mineable area of 24.25 ha without any increase in depth of excavation as per letter no J-11015/75/2017-IA.II(M) dated 21.02.2020 and 05.08.2021.

5. The Project Proponent submitted that the Letter of Intent (LOI) over an area of 45.0 ha of Mining lease has been granted by the Director General, Department of Mines & Geology, Haryana vide memo no.- DMG/ HY/ ContfRattewali Block/ PKL B 10/ 2017/ 2658 dated 16.06.2017 for a period of 7 years.

6. The Project Proponent submitted that the methodology used for replenishment study 2021 is same that of Replenishment Study 2019 & 2020 (Cross-sectional survey by using total Station and UAV) on the basis of which EC was granted. Pre-Monsoon Survey was carried out during June 2021 and Post Monsoon Survey was done during September 2021. For the replenishment study, Firstly, the pre-monsoon data was collected using a total station, and then post-monsoon data collection with a multicomputer UAV/Drone. The rate of mineral deposition assessed 9,56,868 T in the mineable area. The average thickness of replenishment in the mineable area is around 1.62 m. PP also reported that during April, 2021 – March, 2022 about 790,283 Tonnes of mineral has been produced.

7. Observation and Recommendation of the Committee:

The proposal for extension of validity of environmental clearance was considered in the 49th EAC (Non Coal Mining) meeting held during 19th-21st April, 2022. After detailed deliberations made by the Project Proponent, the Committee noted that while granting amendment in EC on 05.08.2021, the committee specifically observed that the compliance to the EC conditions was not satisfactory and in view of this, the Committee not accepted the EC amendment for enhancement quantity and excavation for more depth at that stage with limited data and hence the Committee validated the EC dated 21.02.2020 for one more year i.e., FY 2021-22.

The Committee also noted that the PP has not submitted nor presented the satisfactory certified EC compliance report for the earlier EC dated 21.02.2020 and 05.08.2021. The Committee opined that the instant proposal cannot be considered further without the satisfactory certified EC compliance report. The Committee also

observed that there is a variation in the past production details submitted and presented before the EAC (Non-Coal Mining) and the Committee was of the view that the PP needs to get the past production details authenticated by the Department of Mines and Geology, Haryana. The Committee also asked the PP to submit the report of the Replenishment study carried out during the year 2021. Therefore, the Committee **deferred** the proposal and was of the view that the proposal may be considered only after submission of the following additional information: -

- i. The Project Proponent needs to address the impacts due to mining activity and its implementation status along with the addendum to EIA/EMP Report.
- ii. The Project Proponent needs to submit the satisfactory certified EC compliance report by the Ministry's Integrated Regional Office for the earlier EC dated 21.02.2020 and 05.08.2021.
- iii. The Project Proponent needs to submit the report of the Replenishment Study carried out during the year 2021.
- iv. The Project Proponent needs to submit the past production details duly authenticated by Department of Mines and Geology, Haryana.

1.10 Proposal for amendment in Environmental Clearance dated 27.12.2007 of M/s Birla Corporation Limited for reduction in mine lease area from 939.78 ha to 852.50 ha and intersection of ground water table during mining activity of Sagmania Lime Stone mine located at Village Sagmania, Tehsil Raghurajnagar, District Satna, Madhya Pradesh– [File No: J-11015/271/2006-IA.II(M), Proposal No: IA/MP/MIN/264555/2022; Consultant: Ardra Consulting Services Pvt. Ltd] - Amendment in EC

EAC Meeting Details:

EAC meeting	49 th
Date of Meeting	19 th – 21 st April, 2022

The proposal of M/s Birla Corporation Limited is for amendment in Environmental Clearance vide no J-11015/271/2006-IA.II(M) dated 27.12.2007 for change in ML area from 939.78 ha to 852.50 ha, intersection of ground water table during mining activity and extension of EC validity for Sagmania Lime Stone mining located at Village Sagmania, Tehsil Raghurajnagar, District Satna, Madhya Pradesh. The mine lease area is located between Latitude: 24°39'52.6" to 24°37'4.5" N and Longitude: 80°55'10.6" to 80°51'44.5" E. The mine lease falls under the Survey of India Toposheet No. 63D/14. The Project Proponent presented the KML file during the presentation to indicate the location of mine lease on Google Earth.

2. M/s Birla Corporation Limited has initially made an online application vide proposal no. IA/MP/MIN/198657/2021 dated 17.02.2021 in Form-4 under the provisions of the EIA Notification, 2006. The instant proposal was earlier considered in the 33rd EAC meeting held during 13th to 16th July, 2021. The Committee noted that the Project Proponent initially obtained Environmental Clearance dated 27.12.2007 and the PP operated the mines without obtaining Environmental Clearance from 1994 to 2006. After a detailed deliberation made by the Project Proponent and the Consultant the Committee was of the view that instant proposal is a case of violation. The Project Proponent needs to submit the Annexure-III. The Project Proponent needs to submit the detailed hydro geological study for intersection of ground water table for assessing its impacts and also needs to submit the NOC from CGWA for intersection of ground water table. The Project Proponent needs to submit the chronology of lease grant and the reason for reduction of lease area with authenticated documents. The Committee therefore, returned the proposal in present form.

3. Now, the Project Proponent has made an online application vide proposal no: IA/MP/MIN/264555/2022 dated 29.03.2022 and submitted Form-4 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 and appraised at Central level.

4. The Project Proponent submitted that initially Environmental Clearance was obtained vide EC Lr. No. J-11015/123/2005-IA.II(M) dated 17.09.2007 for limestone production capacity of 3.3 MTPA over an area of 939.78 ha. Then, PP obtained Environmental Clearance vide EC Lr. No J-11015/271/2006-IA.II(M) dated 27.12.2007 for an expansion of limestone production from 3.3 MTPA to 4.9 MTPA by opencast mechanised method involving total lease area of 939.78 ha.

5. The Project Proponent applied for amendment in Environmental Clearance vide no J-11015/271/2006-IA.II(M) dated 27.12.2007 for change in ML area from 939.78 ha to 852.50 ha, intersection of ground water table during mining activity and extension of EC validity. PP also submitted that amendment is sought for the following reasons: -

- i. Environmental Clearance vide no J-11015/271/2006-IA.II(M) dated 27.12.2007 accorded for mine lease area of 939.78 ha. During second renewal of mining lease, the State Govt reduced the mining lease from 939.78 ha to 852.50 ha.
- ii. In EC letter dated 27.12.2007 it was mentioned that the ultimate working depth of mine will be 18m bgl (292m RL). The water table in the core zone varies between 25m-30m bgl (285m – 280m RL) during pre-monsoon and 20-25m bgl (290m – 285m RL) during post monsoon. The current mine working has not intersected ground water table and complied with the condition as stipulated

under specific condition (iii). However due to some land constraints, quality issue & further exploration have revealed that second band limestone exist below ground water table and accordingly mining plan has been revised with same production capacity of 4.9 million TPA.

6. The Project Proponent submitted that initially mining lease was granted over an area of 2469 Ha (6101 acre) from Govt. of MP, Mineral Resource Department for a period of 20 years from 19.10.1956 to 18.10.1976. The 1st renewal of mining lease was renewed vide order no. F-3-182/76/12/6 dated 22.04.1977 over an area of 1000 Ha for a period of 20 years from 19.10.1976 to 18.10.1996. PP submitted that the application for 2nd renewal of mine lease was submitted on 13.10.1995 and 2nd renewal of mining lease granted by Govt. of Madhya Pradesh vide Order no. F-3-234/97/12/1 dated 13.10.2010 over an area of 852.50 Ha for a period of 20 years from 19.10.1996 to 18.10.2016. PP submitted that the application for 3rd renewal application was submitted on 31.07.2015 and 3rd renewal of mining lease granted by the Govt. of Madhya Pradesh vide Order no. F-19-5/2015/12-1, Bhopal dated 12.03.2015 stating that as per provisions of the Mines and Minerals (Development and Regulation) Amendment Act, 2015, 8 (A) (5), the period of lease granted before the date of commencement of the Mines and Minerals (Development and Regulation) Amendment Act, 2015 (10 of 2015), where mineral is used for captive purpose, shall be extended and be deemed to have been extended up to a period ending on the 31st March, 2030 with effect from the date of expiry of the period of renewal last made or till the completion of renewal period, if any, or a period of fifty years from the date of grant of such lease, whichever is later, subject to the condition that all the terms and conditions of the lease have been complied with. The last renewal is deemed renewed from 18.10.2016 to 31.03.2030.

7. The Project Proponent submitted the Review of Mining Plan along with PMCP approved by Indian Bureau of Mines vide Lr No MP/Satna/Limestone/RMP-22/2020-21/3482 dated 24.12.2020 for the period 2021-22 to 2025-26 for a production capacity of 4.9 million TPA. PP vide email dated 20.04.2022 submitted the No Objection Certificate (NOC) for Groundwater abstraction obtained vide CGWA/NOC/MIN/ORIG/2021/13750 for abstraction of 290.0 m³/day and dewatering of 329.0 m³/day which is valid from 16/11/2021 to 15/11/2023.

8. The Project Proponent submitted the EC compliance report certified by Regional Office, Bhopal vide File No 3-35/2012(ENV)/796 dated 01.12.2020 wherein the IRO noted that out of total 41 conditions, 32 are complied, 4 are partially complied, 2 are agreed to comply, 1 is compliance in progress, and 2 are not applicable and IRO asked the PP to submit the time bound action for early compliance and also to submit the action taken report in this regard. The Project Proponent submitted the Consent to Operate issued by the Madhya Pradesh Pollution Control Board vide Consent No:AW-

53234 dated 18.03.2021 for the production of Limestone of 4.9 Million TPA for the period ending up to 31.03.2022.

9. The Project Proponent submitted the past production details for the period 2005-06 to 2019-20 authenticated from the Office of the Collector (Mining Dept) Distt Satna (MP) vide Lr No. 1481/Khanij/2020, Satna dated 29.07.2020 and for the period 2005-06 to 2019-2020 and Lr no. 1883/Khanij/2021, Satna dated 22.06.2021 for the period from April 2020 to March 2021 and it is observed to be well within the limits of EC capacity.

10. The Project Proponent submitted the Affidavit in a non-judicial stamp paper of Rs 100 bearing e stamp code 01013429062021005873 dated 29.06.2021 that the company will comply with all the statutory requirement & judgment of Hon'ble Supreme Court dated 2nd August 2017 in writ Petition (civil) No. 114 of 2014 in the matter of common cause versus Union of India & Ors'.

11. Observation and Recommendation of the Committee:

The proposal for amendment in environmental clearance was considered in the 49th EAC (Non Coal Mining) meeting held during 19th-21st April, 2022. After detailed deliberations made by the Project Proponent and the Consultant, the Committee noted that the Project Proponent initially obtained Environmental Clearance on 17.09.2007 and 27.12.2007 and the PP operated the mines without obtaining Environmental Clearance from 1994 to 2006 and also PP obtained the 2nd renewal of mining lease on 13.10.2010 and at this stage PP required to obtain EC as per Ministry's OM No.J-15012/35/2007-IA.II(M)-Part dated 2nd July, 2007. However, project proponent has not obtained the EC at the time of renewal of mine lease. The Committee also noted that the PP has been operating the mines from 13.10.2010 without obtaining amendment in Environmental clearance from change in reduction of mine lease area from 939.78 ha to 852.50 ha. Thus, the Committee was of the view that the instant case attracts the Hon'ble Supreme Court Judgment dated 02.08.2017 in W.P.C 114 of 2014 in the matter of Common cause Vs Union India and violation of EIA Notification, 2006. Further, the Committee noted that the instant proposal is for amendment in environmental clearance for reduction in mine lease area from 939.78 ha to 852.50 ha and intersection of ground water table during mining activity. The Committee observed that due to the above amendment sought by the PP, there will be change in pit size and reduction in land which requires detailed assessment through the proper impact assessment report. The Committee also observed that the PP has not submitted the final closure report issued by the IRO for earlier EC compliance. The Committee opined that the PP should apply for a fresh ToR under violation for seeking environment permission for reduction in mine lease area from 939.78 ha to 852.50 ha and intersection of ground water table during mining activity. Thus, the Committee was of the view that the instant proposal for amendment in EC was not accepted and the Ministry should take action against the

Project Proponent for violation under the provisions of Environment (Protection) Act, 1986 and therefore the Committee **returned the proposal in present form.**

1.11 Proposal for amendment in Environmental Clearance for amalgamation of Environmental Clearances dated 13.09.2007 and 11.09.2007 of M/s. Parasakti Cement Industries Limited (PCIL) of Parasakti Limestone Mine – I (180.09 Ha.) with Parasakti Limestone Mine – II (132.27 Ha) for combined production of 2.00 MTPA Limestone with Total excavation of 2.222 MTPA (Limestone – 2.00 MTPA + Top soil: 0.033 MTPA + OB: 0.189 MTPA) in the mine lease area of 312.36ha, located at Jettipalem Village, Rentachintala Mandal, Guntur District, Andhra Pradesh – [File No: J-11015/570/2007-IA.II(M), Proposal No: IA/AP/MIN/265397/2022, Consultant: B.S. Envi – Tech Pvt. Ltd] - Amendment in EC

EAC Meeting Details:

EAC meeting	49 th
Date of Meeting	19 th – 21 st April, 2022

The proposal of M/s Parasakti Cement Industries Limited is for amalgamation of Environmental Clearances dated 13.09.2007 and 11.09.2007 of M/s. Parasakti Cement Industries Limited (PCIL) of Parasakti Limestone Mine – I (180.09 Ha.) with Parasakti Limestone Mine – II (132.27 Ha) for combined production of 2.00 MTPA Limestone with Total excavation of 2.222 MTPA (Limestone – 2.00 MTPA + Top soil: 0.033 MTPA + OB: 0.189 MTPA) in the mine lease area of 312.36ha, located at Jettipalem Village, Rentachintala Mandal, Guntur District, Andhra Pradesh. The mine lease area is located between Latitude 16°35'36.5"N -16°37'40.7"N and Longitude 79°30'19.8"E - 79°30'42.6"E. The mine lease area falls under the Survey of India Toposheet No: 56/P/10 & 56/P/6 and falls in Seismic Zone – II. The Project Proponent presented the KML file during the presentation to indicate the location of mine lease on Google Earth.

2. The Project Proponent earlier submitted the proposal for Terms of Reference vide proposal no: IA/AP/MIN/229224/2021 dated 15.09.2021 for expansion of Parasakti Limestone Mine-1 (Area 180.09ha) with increase of limestone production from 1.80 MTPA to 2.25 MTPA with total Excavation of 2.472 MTPA (Limestone: 2.25 MTPA + Topsoil: 0.033 MTPA + OB/IB/SB: 0.189ha) and increase in Mine lease area from 180.09 Ha. to 317.782 Ha (Amalgamated Mining Lease of ML 1: 180.09ha + ML 2: 137.693ha) and the proposal was considered in the 38th EAC (Non-Coal) meeting held during 29th – 30th September, 2021. After detailed deliberations made by the Project Proponent and the Consultant, the Committee noted that the PP initially obtained EC for ML-I 180.89ha for 0.465 MTPA under EIA Notification, 1994 in favour of M/s Chola Cements Ltd, which was transferred from M/s Chola Cements Ltd to M/s Parasakti Cement Industries Limited on 03.02.2004. Then, PP obtained EC for Expansion in Limestone production from 0.45 MTPA to 1.80 MTPA for ML I-180.09ha dated 13.09.2007 under EIA Notification, 2006. EC for Limestone production of 0.20 MTPA for

Limestone mine for ML II-132.27ha dated 11.09.2007 under EIA Notification, 2006. PP submitted that the both the mine lease ML- I and ML-II over an area of 317.90ha was amalgamated on 21.07.2009. The Committee felt that during the amalgamation of mining leases, PP was required to obtain amendment in EC as per the EIA Notification 2006, as the scope of mining was changed due to increase in mining lease area. The Committee also noted that the PP has exceeded the EC (granted on 20.03.2003) capacity in year 2006-07 wherein production achieved was 6,41,696.40 Tonnes against approved capacity i.e., 4,65,000 Tonnes and PP also obtained the EC dated 13.09.2007 for expansion in limestone production from 0.45 MTPA to 1.80 MTPA for Limestone mine (ML I) and after obtaining the EC dated 13.09.2007, the production is within the EC limit. Thus, the Committee was of the view that the instant case attracts the Hon'ble Supreme Court Judgment dated 02.08.2017 in W.P.C 114 of 2014 in the matter of Common cause Vs Union India and violation of EIA Notification, 2006. The Committee felt that the instant proposal cannot be considered in present form and PP should obtain necessary amendment in EC for amalgamation of mining leases. Therefore, the Committee was of the view that Ministry should take action against the Project Proponent for violation and returned the proposal in present form.

3. In view of the above, the Project Proponent applied for amendment in Environmental Clearance vide online proposal no: IA/AP/MIN/233751/2021 dated 12.10.2021 and submitted Form 4 for amendment in EC under the provisions of the EIA Notification, 2006 and the proposal was considered in the 40th EAC (Non-Coal Mining) meeting held during 26th – 27th October, 2021. During the meeting, the Committee noted that PP amalgamated both the mine lease ML- I and ML-II over an area of 317.90ha on 21.07.2009 and during the amalgamation of mining leases, PP was required to obtain Amendment in EC as per the EIA Notification 2006, as the scope of mining was changed due to increase in mining lease area. The Committee also noted that the PP has exceeded the EC (granted on 20.03.2003) capacity in year 2006-07 wherein production achieved was 6,41,696.40 Tonnes against approved capacity i.e., 4,65,000 Tonnes. Hence, the instant case attracts the Hon'ble Supreme Court Judgment dated 02.08.2017 W.P.C 114 of 2014 in the matter of Common cause Vs Union India and violation of EIA Notification, 2006. The Ministry issued SOP dated 07.07.2021 for identification and handling of violation cases under EIA, 2006 and the same has been stayed by the Madurai bench of Hon'ble High Court of Madras vide order dated 15.07.2021. Therefore, the Committee returned the proposal in present form and was of the view that PP should approach Ministry after the final adjudication of the Hon'ble High Court.

4. The Project Proponent again applied for Terms of Reference vide online proposal no: IA/AP/MIN/258064/2022 dated 26.02.2022 and submitted Form1 and PFR under the provisions of the EIA Notification, 2006 and the proposal was considered in the 48th EAC

Minutes of 49th EAC Meeting (Non-Coal Mining) held during 19th to 21st April, 2022

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

5. Now, the Project Proponent has made an online application vide proposal no: IA/AP/MIN/265397/2022 dated 01.04.2022 and submitted Form 4 under the provisions of 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.

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

Date of application	Proposal No/ File No	Consideration	Details	Date of accord
14.03.2002	IA/AP/MIN/	-	EC in favor of M/s Chola	20.03.2003

Minutes of 49th EAC Meeting (Non-Coal Mining) held during 19th to 21st April, 2022

	23070/1910 J-11015/4/ 2002-IA. II(M)		Cements Ltd to produce 0.465 million TPA of Limestone in the mine lease area of 180.89ha under EIA Notification, 1994	
03.01.2004	J-11015/4/ 2002-IA.II (M)	-	Transfer of EC from M/s Chola Cements Ltd to M/s Prasakti Cement Industries Limited	03.02.2004
30.05.2007	IA/AP/MIN/ 21287/1910 J-11015/ 570/2007- IA.II(M)	-	Expansion in limestone production from 0.45 MTPA to 1.80 MTPA for Limestone mine (ML I - 180.09 ha)	13.09.2007
30.05.2007	IA/AP/MIN/ 21288/1910 J-11015/ 571/2007- IA.II(M)		Limestone production of 0.20 MTPA for Limestone mine (ML II - 132.27 ha)	11.09.2007

7. Lease Detail:

S. No	Particulars	ML- I	ML-II	Amalgamation of ML-I & ML-II
1	Grant of mine lease	G.O Ms No. 587 Industries & Commerce (M.II) Department in favour of M/s Chola Cement Industries Limited	GO Ms No. 159 in favour of M/s Prasakti Cement Industries Limited	G.O Ms No. 180 in favour of M/s Prasakti Cement Industries Limited
2	Date of the grant	06.12.2001	21.06.2007	21.07.2009
3	Name of the Mineral	Limestone	Limestone	Limestone
4	Period of grant	30 years	30 years	Co-terminus with that of the first lease i.e., up to 12.12.2031
5	Granted by	Govt. of Andhra Pradesh	Govt. of Andhra Pradesh	Govt. of Andhra Pradesh
6	Mine lease area in Ha	180.089	137.693	317.90

Minutes of 49th EAC Meeting (Non-Coal Mining) held during 19th to 21st April, 2022

7	Permission for change of name from M/s Chola Cement Industries Limited to M/s Parasakti Cement Industries Limited	Govt. of Andhra Pradesh vide its G.O. Ms No 1 dated 01.01.2004	-	-
8	Proceedings No	No. 5050/M/2001 dated 15.12.2001 for a period of 30 years (13.12.2001 to 12.12.2031)	No. 3478/M/2005 dated 10.04.2008 for a period of 30 years (11.10.2007 to 10.10.2037)	No. 4551/M/2009 dated 27.07.2010 (23.07.2010 to 12.12.2031)
9	Extension of Mining Lease	-	-	G.O.MS No. 172 dated 04.12.2017 for a period of 50 years up to 12.12.2051 over an extent of 317.90ha

8. Details of executed Mine leases:

S.no	Lease detail	Date of grant of Lease execution	Period of Grant		Details
			From	To	
1	ML-I	Date of entering into original lease deed	13.12.2001	12.12.2031	
2	ML-II	Date of entering into original lease deed	11.10.2007	10.10.2037	F 712399
3	Amalgamation of ML-I & ML-II	Date of entering into original lease deed	23.07.2010	12.12.2031	AM 291672

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

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

10. Details of Mine Plan:

Review of Mining Plan along with Progressive Mine Closure Plan approved by Indian Bureau of Mines	Letter No.	Letter No. AP/ GNR/MPLst-53/ Hyd
	Date	08.01.2020
	Validity	2020-21 to 2024-25
	Mineral	Limestone
	Mine lease area	317.782 ha
Mining Parameters	Quantitative Description	
Method of Mining	Fully mechanized opencast mining method.	
Mineable reserves	84.14 Million Tonnes	
Life of mine	37 years	
Bench Height	7.0m	
Bench Width	Not less than 30 m	
Individual bench slope	45°	
Overall pit slope	60°	
Drilling/Blasting	Deep hole drilling & blasting and use of HEMM with Excavator & Dumper combination.	
RoM output size	Output size is -75mm	
Transportation details	Limestone produced from the mine is transported to the crusher located at a distance of 1.5 Km from the working pit just outside lease area at Cement Plant and Limestone is transported to the crusher by 35 tonner dumpers and further sent to plant by conveyor to the plant which is adjacent.	
Dumper's capacity	35 MT	
Topsoil and OB/IB/SB	PP reported that the Topsoil generation for the lease period is estimated to be about 0.13 million m ³ . Soil generated will be spread in the 7.5m buffer zone and safety barriers for roads and power lines. The year wise details of OB/IB/SB generation for the lease period is estimated to be about 0.824 million m ³ . The overburden will be temporarily stacked within the mining lease area and ultimately it is totally consumed for plantation.	
Waste	PP reported that there is no waste generation from the mining lease area.	

11. Water requirement:

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

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

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

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

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

15. Green belt/plantation details:

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

16. The Project Proponent submitted the EC compliance report certified by Integrated Regional Office, MoEFCC, Vijayawada, vide Letter No: IRO/VIJ/EPE/03-

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

17. The Project Proponent submitted the past production details certified by Dept of Mines and Geology vide Letter No. 4551/M/2009, dated 09.12.2020 for the period 2007-08 to 2020-21 and Letter No. 4551/M/2009, dated 22.09.2021 for the period 2005-06 and 2006-07 for ML-I area 180.09 ha. Based on the past production details submitted by PP, it was observed that the PP has exceeded the EC (granted on 20.03.2003) capacity in the year 2006-07 wherein production achieved was 6,41,696.40 Tonnes against approved capacity i.e., 4,65,000 Tonnes and further PP obtained the EC on 13.09.2007 for expansion in limestone production from 0.45 MTPA to 1.80 MTPA for Limestone mine (ML I) and after obtaining the EC dated 13.09.2007, the production is within the EC limit. PP also submitted that mining operations was not commenced in ML-II, 132.27 ha. Further, PP submitted the Affidavit in a non-judicial stamp paper of Rs 100 bearing CV 473423 dated 08.06.2021 that M/s Parasakti Cement Industries Limited shall comply with all the statutory requirements & judgment of Hon'ble Supreme Court dated 2nd August 2017 in Writ Petition (Civil) No. 114 of 2014 in the matter of common cause versus Union of India & Ors.

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

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

20. Details of project cost and employment:

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

21. Observation and Recommendation of the Committee:

The proposal for amendment in environmental clearance was considered in the 49th EAC (Non Coal Mining) meeting held during 19th-21st April, 2022. After detailed deliberations made by the Project Proponent and the Consultant, the Committee noted that the PP obtained EC for Expansion in Limestone production from 0.45 MTPA to 1.80 MTPA for ML I-180.09 ha on 13.09.2007 and EC for Limestone production of 0.20 MTPA for Limestone mine for ML II-132.27 ha on 11.09.2007 under EIA Notification, 2006 respectively. PP submitted that the both the mine lease ML- I and ML-II was amalgamated on 21.07.2009 over an area of 317.90ha. The Committee felt that during the amalgamation of mining leases, PP was required to obtain amendment in EC as per the EIA Notification 2006, as the scope of mining was changed due to increase in mining lease area. The Committee also noted that the PP has exceeded the EC (granted on 20.03.2003) capacity in year 2006-07 wherein production achieved was 6,41,696.40 Tonnes against approved capacity i.e., 4,65,000 Tonnes and PP also obtained the EC dated 13.09.2007 for expansion in limestone production from 0.45 MTPA to 1.80 MTPA for Limestone mine (ML I) and after obtaining the EC dated 13.09.2007, the production is within the EC limit. The Committee also noted that the Rajiv Gandhi Wildlife Sanctuary (Boundary of Tumurukota RF) is located at a distance of 4.2 Km, SW from the mine lease area and PP has been operating the mines from the year 2005-06 and in EC dated 11.09.2007 and 13.09.2007 it has been specifically mentioned that the '*Environmental Clearance is subject to obtaining clearance under the Wildlife (Protection) Act, 1972 from the competent authority*' whereas the PP obtained Wildlife clearance from NBWL vide letter no. 36338/2007-WL1 dated 09.02.2010 and letter no. 36338/2007/WL-1 dated 11.02.2011. Final Notification declaring Eco Sensitive Zone around Rajiv Gandhi National Park was published vide Ministry's Notification S.O. 1563(E) dated 15.05.2017 and the extent of Eco-sensitive Zone is 500 Metres all around the boundary of Rajiv Gandhi National Park. The Committee was of the view that the PP has been operating the quarry without obtaining Wildlife Clearance from the year 2005-06 to 2009-10. Thus, the Committee was of the view that the instant case attracts the Hon'ble Supreme Court Judgment dated 02.08.2017 in W.P.C 114 of 2014 in the matter of Common cause Vs Union India and violation of EIA Notification, 2006.

The Committee opined that since ML I-180.09 ha is under violation, PP needs to regularize ML I-180.09 ha first and the Committee asked the PP to apply afresh ToR for regularization of ML I-180.09 ha for violation, to permit amalgamation of ML-I & ML-II, to increase in production capacity as well as mine lease area. Hence, the Committee not accepted the request of the project proponent for amendment in environmental clearance and **returned the proposal in present form.**

Day 2: 20th April, 2022 (Wednesday)

2.1 Proposal for Environmental Clearance of M/s Hindalco Industries Ltd for mining of Bauxite in Maliparbat Bauxite Mine with total excavation of 11,62,400 Tonnes (Bauxite:1,100,000 Tonnes (ROM) + Topsoil:18,540 Tonnes + OB/SB/IB:43,860 Tonnes)in the mine lease area of 268.110 ha, located at Aligaon, Kankaramba, Sorishpadar Village, Pottangi Tehsil, Koraput District, Odisha – [File No:J-11015/79/2020-IA.II(M), Proposal No: IA/OR/MIN/250275/2020; Consultant: Vimta Labs Ltd] - Reconsideration of EC (Violation)

EAC Meeting Details:

EAC meeting	49 th
Date of Meeting	19 th – 21 st April, 2022

The proposal of M/s Hindalco Industries Ltd is for mining of Bauxite in Maliparbat Bauxite mine with total excavation of 11,62,400 Tonnes (Bauxite:1,100,000 Tonnes (ROM) + Topsoil:18,540 Tonnes + OB/SB/IB:43,860 Tonnes)in the mine lease area of 268.110 ha, located at Aligaon, Kankaramba, Sorishpadar Village, Pottangi Tehsil, Koraput District, Odisha. The mine lease area is located between Latitude 18°39'32.810"N to 18°40'28.384"N and Longitude 82°53'22.815"E to 82°55'50.244"E. The mine lease area falls within the Survey of India Toposheet Nos. 65J/13, J/14 and 65 N/2 and falls in Seismic zone-II. The Project Proponent presented the KML file during the presentation to indicate the location of mine lease on Google Earth.

2. M/s Hindalco Industries Ltd has made an online application vide proposal no. IA/OR/MIN/250275/2020 dated 27.01.2022 and submitted Form-2 and EIA report under the provisions of the EIA Notification, 2006. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals under Category "A" of the schedule of the EIA Notification, 2006 as the mining lease area is greater than 100 ha and appraised at the Central level.

3. The proposal was earlier considered in the 46th EAC (Non-Coal Mining) meeting held during 15th - 17th February, 2022. After detailed deliberations made by the Project Proponent and the Consultant, the Committee noted that the Project Proponent should revise the quantification of ecological damage assessment by considering the violation period from 2011-12 to 2013-14 on pro rata basis and also to include the damage due to the transportation of the mineral by road. The committee was of the view that the PP should also include the non-provision of rain water harvesting structure and garland drains in the ecological damage assessment and PP needs to rework on the damage assessed for water consumption by considering the CGWA rate. The committee also noted that there was a court case filed vide W.P.(C) No. 473 of 2022 before the Hon'ble High Court of Orissa regarding the challenge of the public hearing held on 22.11.2021 but PP has not brought the issue of court case before the EAC during the meeting and

also in Form 2, PP submitted that there is no Court Cases pending against the project and/or land in which the project is proposed to be set up and the committee was of the view that the PP should submit the details of court cases and its current status. Therefore, the Committee deferred the proposal for want of the requisite information.

4. The Project Proponent submitted the information on 13.03.2022 in PARIVESH portal and accordingly the proposal was reconsidered in the 49th EAC (Non Coal Mining) meeting held during 19th – 21st April, 2022 wherein the PP submitted the following:

Point (i): The Project Proponent should submit the action plan for strengthening of road for transportation i.e., upto highway 7.5km and from highway to railway siding – 1.0km by creating a road of 10m width including the shoulder for facilitating two-way risk free and environment friendly transportation.

Reply by PP: PP submitted the action plan for strengthening of road for transportation i.e., upto highway 7.5 km and from highway to railway siding – 1.0 km. The time period of development of road from starting of the road construction will be 10 months.

S. No	Description of Work	Place of Work	Length	In Rs
1	Development of existing Ghat road to CC road	From hill bottom to mines top	4.2 km x 10 m	12,91,12,000
2	Construction of storm water drain along hill side at Ghat road	From hill bottom to mines top	4.2 km	4,71,20,000
3	Construction of RCC retaining wall at Ghat road	From hill bottom to mines top	Length: 150 RMT	1,42,65,000
4	Development of existing Panchayat Road (WBM road to BT road including Construction of Hume pipe culvert)	From NH - 26 to end of WBM	Road length 1.8 km	1,64,25,550
5	Development of existing 0.7 km road from Church to Hill Bottom (WBM to BT road)	From Church to hill bottom - 0.7 km	0.7 km	54,02,250
6	Parapet wall	Along Ghat road	4200 RMT	3,72,12,000
7	1000 mm Dia NP-3 Class Hume Pipe Culvert 7.5m Length (Single Row)	At Ghat road	7.5 m Length (Single row) x 2	8,19,400
8	600 mm Dia NP-3 Class Hume Pipe Culvert 7.5m Length (Single Row)	At Ghat road	7.5 m Length x 2 (Single row)	6,20,250

9	Development of existing 1.0 km WBM road to BTroad from NH-26 To Dumriput railway siding	From NH-26 to Dumriput railway siding	1 km x 10 m	86,25,000
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PP also submitted the location map showing approach road and road design drawing.

Point (ii): The 24m depth of excavation on the hill slope and its rehabilitation by plantation needs to be submitted by PP.

Reply by PP: PP submitted that no mining activity will be carried out on hill slope.

Point (iii): An area of 141.760ha which will not be disturbed also needs to be included in the plantation at the conceptual stage. PP should also provide the budget for green belt, afforestation and plantation over backfilled areas along with the time schedule.

Reply by PP: PP submitted that an amount of Rs 2.64 lakhs per hectare will be spent towards reclamation, restoration, greenbelt, afforestation and plantation over backfilled areas that is 117.35 ha (109 ha+ 8.35) ha from 6th year of current plan period as per Mining scheme that is from 2023 onwards. PP earmarked a budget of Rs. 2.0 Lakhs/ha of land towards plantation over the undisturbed area with greenbelt area around the mine lease area

Point (iv): The Project Proponent needs to revise the EMP budget for public hearing in light of the concerns raised by the people as follows: -

- a. Action plan for Protection of air and water environment along with the budget. PP should also include the provision of continuous air quality monitoring equipment as suggested by the EAC, Member.
- b. Action plan for protection of downhill land use due to soil erosion along with the budget.
- c. Action plan for preservation of stream water for the use of agriculture purpose along with the budget.
- d. Action plan for development of artificial forest over barren hills with atleast 20% fruit bearing trees along with the budget.
- e. Action plan for control of fugitive emission during transportation along with the budget.
- f. Action plan for protection of agricultural land due to fugitive dust emission along with the budget.
- g. Action plan for development of health facilities as suggested by the EAC, Members including the revisit of provision of ambulance facilities and doctor.
- h. Action plan for provision of pucca roads and construction of check dam at Pakjholā Village and how these activities will be undertaken in terms of target wise, location wise, purpose wise and budget needs to be revised accordingly.

Reply by PP:

a) PP submitted the action plan for protection of air and water environment as given below:

- i. Continuous Ambient Air Quality monitoring station will be installed and Air Quality level will be monitored as per CPCB/SPCB guideline.
- ii. Water sprinkling will be done at regular intervals to suppress emission and distribution of dust particles
- iii. Plantation will be undertaken along the plateau slopes as well as peripheral barrier around the mine to arrest the air borne dust
- iv. The machines will be well maintained and PUC certified to reduce emissions due to vehicular exhaust.
- v. Sharp drill bits will be used for less generation of dust particles
- vi. Wet-drilling techniques / dust-collectors will be deployed to prevent generation of dust during drilling operations
- vii. Tarpaulin covered trucks will be deployed for transportation of bauxite ore from the mine head to railway siding to stop spillage on the way.
- viii. Trucks / tippers will ply within permissible speed limit.
- ix. Peripheral barrier (7.5 m wide) will be left around the mine to stop the flow of water to flow down the valley.
- x. Check dams will be constructed across the seasonal nalas to control wash-offs as well as soil erosion one after another depending upon the progress of mining.
- xi. Retaining wall, garland drain and settling tanks will be constructed around the OB dump to arrest the wash-off materials to settle the sediments and release clean water.

PP earmarked a budget of Rs 114.95 Lakhs towards air pollution & Rs.24.27 Lakhs towards water pollution

b) PP submitted the action plan for protection of downhill land as given below:

- i. There is large variation in slope, gradient, topography, soil and vegetation along the downhill. Most open areas are devoid of any surface soil. The area had been subjected to rain and wind erosion for decades. Storm water channels are covered by large bare rocks. There are also isolated patches of croplands. Most of the areas were covered by invasive shrubs of Siam weed (*Chromolaena odorata*) and *Lantana camara*. There are also scattered dense patches of thorny shrubs. There are also barren rocky areas. In some areas the gradient is steep like a straight cut (almost 900). Hence, a combination of pretreatment is required for different areas across the slope. The following strategies are going to be adopted:
 - a). Existing vegetation will be retained to the extent possible.
 - b). Terrace cultivation is the proven practice for hill slopes. It shall be used for smooth barren areas with gentle slope.
 - c). Across the storm water drains, rock-fill check dams will be constructed to retard the flow of rain water.

- d). Semilunar trenches and bunds shall be made towards the downward side of local species which are scattered in some areas.
- e). Pelletized seeds of local forest species, minor fruit trees will be sown liberally on the slopes.
- f). Invasive shrubs of Siam weed (*Chromolaena odorata*) and *Lantana camara* will be removed in a phased manner when other trees start growing.
- g). Aided natural regeneration practices shall be followed to stimulate forest regeneration.
- h). Adequate measures such as check dams, garland drains, siltation ponds etc. are proposed to check flow of any silt from the mine site & All efforts will be made to use rainwater harvested water for industrial use.
- i). Plantation will be done in the slope for protection of downhill land use

PP earmarked a budget of Rs 283.52 Lakhs towards plantation over the undisturbed area with greenbelt area around the mine lease area.

c). PP submitted the action plan for preservation of stream water for the use of agriculture purpose along with the budget as given below: -

- i. The mine lease is on top of the hill. Rain water from the mine lease area will be diverted to a number of scattered rainwaters harvesting ponds on hill top. On account of loose rocky terrain, water sinks and ultimately feeds the streams.
- ii. PP submitted that they will construct check dam at the feasible location as per the feasibility of water source of natural nala out of mining lease area and will facilitate with the pipe system for the use of agriculture purpose.

PP earmarked a budget of Rs.20 Lakhs for this purpose.

d). PP submitted the action plan for development of artificial forest over barren hills with at least 20% fruit bearing trees along with the budget as given below:

- i. PP proposed to plant maximum number of fruits bearing plant more than 20 % in the barren land with the help and consultation with Forest department and earmarked a budget of Rs.2 Lakhs per ha per year as per the availability of free barren land.

e) & f). PP submitted the action plan for control of fugitive emission during transportation and for protection of agricultural land due to fugitive dust emission as given below:

- i. Maximum transportation road will be black topped.
- ii. Truck mounted Water sprinkler will be engaged for water sprinkling on transportation road as per requirement.
- iii. Tarpaulin covered trucks will be deployed for transportation of bauxite ore from the mine head to railway siding to stop spillage on the way
- iv. Trucks / tippers will ply within permissible speed limit.
- v. Year-wise peripheral greenbelt development is planned to control dust pollution beyond the mine lease boundary.

g). PP submitted the action plan for development of health facilities as suggested by the EAC, Members including the revisit of provision of ambulance facilities and doctor.

PP submitted that the action plan for Health Care Programme is divided in Phase wise over the period of 3 years and details are given below

S No	Phase	Scope	Estimated Budget (In Rs.)	Remarks
1	Phase-I: Focused approach to address immediate health priorities. (Curative Health Care)	a. Baseline study	2,00,000.00	-
		b. Set-up of health / Covid Care Center	12,00,000.00	-
		c. Providing ambulance facilities at the door step in the periphery villages.	12,00,000.00	-
		d. Conduct health Intervention Projects – 1 Per Quarter.	6,00,000.00	-
		e. Community mobilization & creation of digital health records.	90,000.00	-
		f. Operation of Mobile Health Unit (MHU) (Health Cube and Portable X-Ray Machine) The MHU will be used for primary health care delivery and outreach programmes including: Consultation with Doctor hired by Hindalco. General health check-up. Point of lab-investigations. Curative services for communicable and non-communicable diseases. Maternal and child health services. Health awareness & Counseling services.	31,00,000.00	-

2	Phase- II : Set up a Model Health Centre.	Set-up PHC (Primary Health Centre) and establish system sustainability.	To Be Done	Proposal to establish MHC (1-3 Years).
Total			63,90,000.00	

Budget allocated towards CSR Activities for Public Hearing Issues

Sr. No	Sector wise Activities	1 st Year (2022-2023)	2 nd Year (2023-2024)	3 rd Year (2024-2025)	TOTAL (In Lakhs)
Health & Family Welfare Activities					
	Primary Health Care Center.	63.90	25.00	25.00	113.90
	Increase the awareness programme and counselling service to the community with focus on health & wellness.				
	Capture health data of villagers and establish a foundation for a population health management system.				
	Strengthening infrastructure catering to long-term illness.				
	Establishing Model PHC (Public Health Care) Centre.				
	Total	63.90	25.00	25.00	113.90

h). PP submitted the action plan for provision of pucca roads and construction of check dam at Pakjhola Village and how these activities will be undertaken in terms of target wise, location wise, purpose wise and budget needs to be revised accordingly.

PP submitted the action plan for provision of pucca roads and construction of check dam is given below:

- i. PP proposed to conduct survey in the periphery villages for construction of pucca road. For this, an annual budgetary provision of Rs 20 lakhs is allocated.
- ii. There is an existing check dam at Pakjhola village constructed by District Soil conservation watershed mission. PP will consult and request to concerned authority for capacity expansion of the said dam which will cater the water supply

for a greater number of periphery villages. For this, budgetary provision of Rs. 20 Lakhs is allocated.

Point (v): The Project Proponent needs to revise the EMP budget at the mine lease area by including plantation in the mine lease, dust control facilities in the mine lease and the cost of monitoring equipment's.

Reply by PP: PP submitted that the EMP budget has been revised to Rs 774.74Lakhs

S. No.	Particulars	Unit Cost (Rs)	Total Units	Total Cost (Rs. In lakhs)
I	Air Pollution Control Equipment			
1	Truck Mounted Sprinkler	8,00,000	2	16.00
2	Continuous Ambient Air Quality monitoring station (CAAQMS) as per the CPC guide line	60,00,000	1	60.00
2	Weather station, (Automatic recording type)	1,50,000	1	1.50
3	RDS Sampler	80,000	4	32.00
	PM _{2.5} Sampler	100000	4	4.00
4	Spectrophotometer	80,000	1	0.80
5	Single pan balance	15,000	1	0.15
6	Relevant chemicals	50,000	Lumpsum	0.50
			Sub-total	114.95
II	Water and Wastewater Treatment			
1	Silting Tanks	50,000 (approx.)	5	2.50
2	Septic tanks/soak pits	25,000 (approx.)	2	0.50
3	Garland drain in present plan period	900mx1mx1m	Lumsump	5.60
4	Retaining wall in present plan period	865mx2mx2m	Lumsump	12.97
5	Check dam in present plan period	8 m x 1 m x 1m (10 No.s)	Lumsump	1.20
3	Equipment proposed for the laboratory	-	-	1.50
			Sub-total	24.27
III	Noise Control and Monitoring			
1	Noise level recording meter (Continuous integrating type)	1,50,000	1	1.50
2	Noise protective equipment such as ear muffs and	3,00,000	Lumpsum	3.00

	enclosures			
			Sub-total	4.5
IV	Soil Sampling Equipment			
1	Augur, Spatula, and collecting trays	20,000	1 set	0.20
V	Ecological Restoration			
1	Plantation including provision of top soil	Lumpsum	-	37.50
2	Amount to be spent towards reclamation, restoration and afforestation within the ML area including green belt during the life of mine.	Lumpsum	117.35Ha	309.80
3	The cost of Rs. 2 Lakhs/hectare of land towards plantation over the undisturbed area with greenbelt area around the mine lease area	2 lakh per Hectare	141.760	283.52
			Sub-total	630.82
Total Cost (Rs. Lakhs)				774.74

Point (vi): The Project Proponent shall give an undertaking that the EMP prepared under EC dated 07.09.2006 under the EIA Notification 1994 was still in operation during the violation period or not. In the instant case, if EMP was not operated, then the total cost of saving on EMP shall be added to Community Resource Augmentation Plan (CRAP).

Reply by PP: PP submitted an undertaking vide letter dated 11.03.2022 stating that the EMP of Maliparbat Bauxite Mines for the EC dated 07.09.2006 under the EIA Notification 1994 was in operation during the violation period. As the mine was not in operational to the full capacity during the violation period, some of the environmental norms could not be completed. Therefore, Rs 15.0 Lakhs only could not be spent during the violation period which has been added in Community Resource Augmentation Plan (CRAP).

Community Resource Augmentation Plan (CRAP)							
Sr.No	Proposed Activity	Description	Location	Total Cost (in Lakh)	Year 1	Year 2	Year 3
1	Provision of solar lights	Installation of solar lighting	Villages of the	30.00	10.00	10.00	10.00

Minutes of 49th EAC Meeting (Non-Coal Mining) held during 19th to 21st April, 2022

		in villages where there are no street lights	buffer zone				
2	Provision of solar powered bore-well	Community bore wells within the buffer zone	Villages of the buffer zone	30.00	6.00	12.00	12.00
3	Drinking water	RO plants within the schools	Schools in the buffer zone	3.00	1.00	1.00	1.00
4	Health facility (Curative Health Care)	Ambulance facility at the door step in Peripheral villages and MHU with Health cube & portable X-Ray machine including the specialized Medical Check-up camps	Villages of the buffer zone	113.90	63.90	25.00	25.00
5	Agriculture	Agriculture & Animal Husbandry	Silting of streams	33.00	11.00	11.00	11.00
6	Infrastructure development	Construction of Community halls	Villages willing to donate plot	20.00	0.00	10.00	10.00
	Total (in Lakhs)			229.90	91.90	69.00	69.00
	As per the ADS point No.6, the unspent EMP amount of Rs 15,00,000 /- (present value of Rs.25,84,239) is carried forward and included in the above budget.						

Point (vii): The Project Proponent needs to submit the reclamation plan for mined out area of 109.0 ha and also the post mining land use. PP should also submit the plan for backfilling and OB management.

Reply by PP: PP submitted that the bauxite plateau is very much undulated in nature. There is a level difference from 1400 MSL to 1160 MSL. It comprises of three hillocks. Top RL and bottom RL of Hillock-1 is 1330 to 1160 MSL, Hillock-2 is 1280 to 1160 MSL

and Hillock-3 is 1400 to 1280 MSL. Depth of bauxite occurrence varies from 10m to 24m from surface level. The surface profile after mining will be remain undulated due to variance in depth of bauxite occurrence. The total void created after mining could not be backfilled to its original position due to non-availability of OB as stripping ratio is very less, i.e., 1:0.05 T/m³. Overburden removed from the area will be back-filled / spread over the infertile khondalite exposed mined out area and plantation will be carried out at a reduced level. Below bauxite, khondalite occurs which is infertile and porous in nature. There is no possibility of accumulation of water on the quarry floor due to undulated and porous khondalite strata. A barrier of water garland will be constructed all around the proposed quarry/pit to stop the flow of water from quarry to outside mining lease during rain.

Point (viii): The Project Proponent should revise the quantification of ecological damage assessment by considering the violation period from 2011-12 to 2013-14 on pro rata basis and also the damage due to the transportation of the mineral by road. PP should also include the non-provision of rain water harvesting structure and garland drains in the ecological damage assessment and PP needs to rework on the damage assessed for water consumption by considering the CGWA rate.

Reply by PP: PP submitted that the mining operations started during 2008 after execution of Lease deed on 08-11-2007. But the PP could not even attain at least 10% of the targets at any point of time. During 2008-09, PP produced 33,784 Tons against the annual target of 423360 tons. It accounts for less than 8% of the target. During the next year (2009-10), there was no mining at all. In 2010-11, PP produced 32,900 Tons against the annual target of 474320 tons. It works out to be 6.936% of target. Subsequently, there was nominal production of about 450 TPA. The PP was required to obtain fresh EC under the EIA Notification of 2006 in accordance with the MoEF&CC Guidelines (Vide Circular No. J-11013/41/2006- IA.II (I) dated 30.12.2010) but the PP failed to comply with the above and hence the validity of EC expired with effect from 7th September 2011. During the year 2011-12, 450 Tons of ore was produced before the expiry of the EC on 6th September 2011. Thus, no ore was produced during 2011-12 without valid EC. The violation period is limited to 2012-14 when a total of 900 tons of ore was produced at the rate of 450 TPA. This is the basis for subsequent calculations. PP submitted the revised ecological damage assessment by considering the violation period from 2011-12 to 2013-14 on pro rata basis and also the damage due to the transportation of the mineral by road.

Activity/Parameters	Presumptive cost (Rs)	Amount Paid to Government	Amount to be carried forward	Net loss (-) / gain (+)
Economic benefits (1380 tons of bauxite @ 179	2,46,920	15,32,216	NIL	(-) 1285296

Minutes of 49th EAC Meeting (Non-Coal Mining) held during 19th to 21st April, 2022

per ton				
Cost of water used during violation period	23090	-	23090	(+) 23090
Presumptive cost of air pollution	798019	-	798019	(+)798019
Unspent balance from the earlier EMP (Vide Point No.6 of ADS)	15,00000 (Actual unspent balance in 2011-12)		Present value 25,84,239	(+)25,84,239 The amount is included in the CRAP budget.
Presumptive cost of crop damage	NIL	-	-	
Presumptive cost of loss of soil	NIL	-	-	
Presumptive cost of loss of Biodiversity		-	-	
Note: 6700 trees were planted in 2.5 Ha during the violation period using the amount allocated for EMP				
Bank Guarantee to be given for	-			34,05,348

Further, PP submitted that the Operational Rainwater harvesting pond had been developed in an area of 0.138 ha. Garland drains were developed around the waste dump. Damage due to non-provision of garland drains has been included in the revised the ecological damage assessment. But damage assessment for water consumption by considering the CGWA rate has not been calculated and incorporated in ecological damage assessment for the following reasons:

- i. According to the Gazette of India Notification No. CG-DL-E-24092020-221952 dt. 24-9-2020, the highest rate applicable for a mining project which uses <math><100\text{ m}^3</math> per day is Rs.4/- per m^3 , if it is located in an over-exploited area (Vide Table 5.4 A: Rates of ground water abstraction charges for mining (Rs. per m^3) on pages 41 & 42 of the aforesaid notification). The CGWA rates are specifically for the groundwater. In the present case, the Odisha State Revised 2021 bulk supply rate of Rs.6.75/- per m^3 for commercial use was considered.
- ii. Garland drains are primarily provided to divert the surface runoff away from the working pits and not to allow any surface runoff in the working pits. Mining activity was confined to a hill top and the activity is was in the initial stages covering only 1.700 Ha. The area around mine pit has natural slope (hill slop) draining the surface runoff downwards.

- iii. There was no damage to ecology, flora, fauna, soil and water regime on account of non-creation of a garland drain. In fact, a garland drain would have caused damage to the vegetation on account of excavation of a trench and bunding. However, in future if mining activity is resumed, the PP will provide garland drains as per the approved mining plan besides providing a series of semilunar trenches along the hill slope to retard flow of rain water; to promote ground water recharge and to trap silt and debris carried by the rain water.

Point (ix): The cost for Natural Resource Augmentation Plan (NRAP) calculation also needs to be revised by PP.

Reply by PP: PP has submitted the revised cost for Natural Resource Augmentation Plan (NRAP) as mentioned below:

Natural Resource Augmentation Plan (NRAP)									
S.No	Proposed Activity	Description	Location	Unit Rate	Total Quantity	Total Cost in Rs Lakh	Yr 1	Yr 2	Yr 3
1	Tree Plantation on barren hills	Fruit -trees at lower levels of barren hills	Hill top within the mine lease	500 per tree	1000	5.0	2	2	1
2.	Afforestation of barren hills	Broadcasting the pelletized seeds over the barren hills & Plantation of fruit trees	Barren hills around the mine lease.	2,00000 per ha	5 ha	10	2	3	5
3	Avenue Plantation	Road side plantation	Enroute the transport	500 per tree	1000	5	2	2	1
4	Rain water harvesting	Construction and maintenance of rain water harvesting structures in villages	5 villages within the buffer zone	2	5	10	3	3	4
Sub-total (b)						30	9	10	11

Point (x): The Project Proponent needs to submit the copy of demand deposition made to the State Government in the PARIVESH portal. PP should also submit the details of the credible action taken against the PP with the supporting document.

Reply by PP: PP submitted that the credible action has been taken in accordance with the provisions of Sections 15 and 19 of the Environmental Protection Act, 1986. The action is pending from the State Government and the OSPCB. In accordance with the demand notice from the Office of the Deputy Director of Mines, Koraput vide No.34 dated 03.01.2022, the PP has paid Rs.15,32,216/- through SBI net banking on 10-01-2022.

Point (xi): The Project Proponent needs to submit the authenticated past production details along with Annexure III in the PARIVESH portal.

Reply by PP: PP submitted the copy of authenticated past productions details from the Office of the Deputy Director of Mines, Koraput vide Lr No 826/Mines, dated 17.07.2020 for the year 2008-09 to 2013-14 along with Annexure III in the PARIVESH portal.

Point (xii): The Committee noted that the ToR dated 08.02.2021 granted for a production capacity of 0.6 MTPA of Bauxite, over an ML area of 268.110 Ha. Hence, the PP needs to clarify whether the proposal for inclusion of crusher with a capacity of 200 TPH was also a part of Terms of Reference accorded on 08.02.2021. PP also needs to submit the breakup of total excavation in tonnes.

Reply by PP: PP submitted that the proposal of inclusion of crusher with a capacity of 200 TPH was also a part of Terms of Reference (TOR) accorded on 08.02.2021. PP also submitted the breakup of total excavation in tonnes as given below.

Year	Name of Quarry	Total Excavation in (t)	Top Soil (t)	OB+SB + IB (t)	ROM (t)			ROM / waste Ratio (t / t)
					Ore (t)*	Mineral reject (t)	Total (t)	
IV (2021-22)	Quarry -1	5,40,632	16,560	24072	454,591	45,409	500,000	1:0.048
V (2022-23)	-do-	6,21,768	1,980	19,788	545,509	54,491	600,000	1:0.033
Total	--	11,62,400	18,540	43,860	1,000,100	99,900	1,100,000	1:0.040

Point (xiii): The Project Proponent submitted that the one small dump exists on the mineralized area within the mine lease area spreading over an area of 1.42ha with dimension of 355m x 40m. Hence, PP shall explore the possibility of shifting the dump to the non-mineralized area and also needs to submit the map for the same.

Reply by PP: PP submitted that the back filling & reclamation will start from 6th year of current plan period so OB present in the existing dump will use for back filling. As OB generation is very less so we can accommodate the OB generation for backfilling and it is a continuous process. There will be no permanent dump within mineralized area. So, there is no the possibility of shifting the dump to the non-mineralized area. Hence, there will be no change in the existing reclamation plan.

Point (xiv): The Project Proponent should submit the list of Schedule – I species present in the lease area authenticated by PCCF and the status of National Park/Sanctuary, Biosphere Reserve/Tiger Reserve/Elephant Reserve/any other Reserve, Habitat for migratory birds, Corridor for animals within 10 km of the lease area.

Reply by PP: PP submitted that there are no Schedule – I species present in the lease area, National Park/Sanctuary, Biosphere Reserve/Tiger Reserve/Elephant Reserve/any other Reserve, Habitat for migratory birds and Corridor for animals within 10 km of the lease area. The mine lease area is non-forest land. A letter to Principal Chief Conservator of Forest (PCCF), Wild Life, Bhubaneswar for authentication of flora & fauna has already been submitted.

Point (xv): The Project Proponent needs to submit the details of court case filed vide W.P (C) No. 473 of 2022 before the Hon'ble High Court of Orissa regarding the challenge of the public hearing held on 22.11.2021 and its current status.

Reply by PP: PP submitted that one court case has been received vide W.P.(C) No. 473 of 2022 on dated 19.02.2022 just after the 46th EAC meeting and PP has filed writ petition before Hon'ble High Court of Orissa on dated 07.03.2022.

Point (xvi): The Project Proponent needs to upload all the supporting documents as Annexures in the PARIVESH portal. PP should not provide any link format to download the documents.

Reply by PP: PP has submitted all the supporting documents as Annexures and the same has been uploaded in PARIVESH Portal

5. The Ministry of Environment, Forest and Climate Change vide Lr No F.No J-11015/79/2020-IA.II(M) dated 08.02.2021 requested the Secretary, Department of Forest & Environment, Govt. of Odisha to initiate action under the provisions of section 19 of the Environment (Protection) Act, 1986 against the project.

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

Date of application	Proposal No/ F.No	Consideration	Details	Date of accord
12.11.2005	IA/OR/MIN/ 162406/2005 F.No: J- 11015/411/2005- IA.II (M)	-	Environmental Clearance for Maliparbat Bauxite Mining project of M/s Hindalco Industries Limited for production capacity of 0.6 MTPA of bauxite ore by opencast mechanized method involving total lease area of 268.11ha under the provisions of the EIA Notification, 1994.	07.09.2006

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

Date of application	Proposal No	Consideration	Details	Date of accord
28.12.2020	IA/OR/MIN/ 189627/2020	11 th - 13 th January, 2021	Terms of Reference (ToR) for undertaking detailed EIA/EMP study for a production capacity of 0.6 MTPA of Bauxite, over an ML area of 268.110 Ha.	08.02.2021

8. Details of Mine lease:

S.no	Prospecting License/Letter of Intent/Grant of mine lease order	Date of the grant	Name of the Mineral	Period of Grant	Granted by	Mine lease area in Ha
1	Grant of mine lease for a period of 20 years vide Lr No. 5480/ III(BX) SM.16/ 2003/SM, Bhubaneswar	19.06.2007	Bauxite	20 years	Department of Steel & Mines, Government of Orissa	268.11 ha

9. Details of executed Mine leases:

S.no	Date of grant of	Period of Grant	Details
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Minutes of 49th EAC Meeting (Non-Coal Mining) held during 19th to 21st April, 2022

	Lease execution	From	To	
1	Date of entering into original lease deed.	08.11.2007	07.11.2027	Mining lease deed executed on 08.11.2007 between the Governor of Orissa and M/s Hindalco Industries Limited and registered on 14.11.2007 for the term of 20 years.

10. Land use/Land Cover of the Mine Lease Area:

Private land	Nil
Government land	268.11 ha
Total Mining lease area (MLA)	268.11 ha
Private land for crusher, workshop & other infrastructure outside the MLA	Nil

11. Details of Mine Plan:

Modification of Review of Mining Plan along with the Progressive Mine Closure Plan approved by the Indian Bureau of Mines (IBM), Bhubaneswar	Letter No.	MPM/A/06-ORI/BHU/2021-22
	Date	04.08.2021
	Validity	2021-22 to 2022-23
	Mineral	Bauxite
	Mine lease area	268.110 ha
Mining Parameters	Quantitative Description	
Method of Mining	Opencast mechanized method	
Total Geological Resource/Reserves	15.06 MT	
Mineable Reserves	14.74 MT	
Life of Mine	25 years	
Bench Height	6 m	
Bench Width	9 m	
Individual bench slope	75°	
Overall pit slope	45°	
Transportation details	PP submitted that the Tippers of 10 Ton / matching capacity will be utilized for transportation of ore to the stacking site and overburden / waste to the dumping site. The ore produced at the ML area will be transported to the Rail siding at Dumuriput located about 25 km by road using 18 Ton/matching capacity trucks. Depending on location of end use plant, bauxite will be transported either using road /road cum railway. PP submitted the action plan for strengthening of road for transportation i.e., upto highway 7.5 km and from	

Minutes of 49th EAC Meeting (Non-Coal Mining) held during 19th to 21st April, 2022

	highway to railway siding – 1.0 km. The time period of development of road from starting of the road construction will be 10 months.
RoM output size	1 (m ³) of Bauxite : 0.039 (m ³) OB
Topsoil	PP reported that total of 10,300 m ³ of topsoil will be generated during plan period which will be stacked over an area of 5,150m ² in one terrace of 2m average height and 3m maximum height. However, topsoil will be utilized for rehabilitation of waste dump and mined out area concurrently.
OB/SB/IB	PP reported that 21,500 m ³ OB /Aluminous laterite is likely to be generated during plan period. Out of these, 11,800 m ³ OB will be systematically / scientifically stored / dumped temporarily over an area of 2,950 m ² or 0.295 ha in one terrace of 4m average height and 7m maximum height in a retreating method by extending the SW part of existing Dump-1 towards NE part. Remaining 9,700 m ³ OB generated during 2022-23 will be systematically/ scientifically stored/dumped in the mined out area over 4,850 m ² with 2 m average thick filling after exhaust of bauxite. Overburden removed from the area will be back-filled / spread over the infertile khondalite exposed mined out area and plantation will be carried out at a reduced level. Below bauxite, khondalite occurs which is infertile and porous in nature. There is no possibility of accumulation of water on the quarry floor due to undulated and porous khondalite strata. A barrier of water garland will be constructed all around the proposed quarry/pit to stop the flow of water from quarry to outside mining lease during rain.
Mineral reject	PP reported that total of 49,456 m ³ mineral reject / sub-grade bauxite is likely to be generated during plan period. Out of these, 40 % of mineral reject / sub-grade will be blended and remaining 60 % will be stacked in a forwarding method over an area of 8,891 m ² or 0.889 ha in one terrace of 3 m average height and 5 m maximum height.
Details of existing dump	PP submitted that one (1) small dump (D-1) exists on the mineralized area within lease area spread over an area of 1.42 hectares with dimension of 355m x 40m. PP submitted that the back filling & reclamation will start from 6th year of current plan period so OB present in the existing dump will use for back filling. As OB generation is very less so we can accommodate the OB generation for backfilling and it is a continuous process. There will be no permanent dump within mineralized area. So, there is no the possibility of shifting the dump to the non-mineralized area. Hence, there will be no change in the existing reclamation plan.

Minutes of 49th EAC Meeting (Non-Coal Mining) held during 19th to 21st April, 2022

Details of existing stack	PP reported that two sub-grade stacks exist in the lease area spread over an area of 8,400 m ² or in 0.840 hectare. A total of 6,141 Ton quantity is stacked.
Mineral Beneficiation	PP submitted that there is no beneficiation or processing of ROM is proposed as the 91% of ROM is of usable grade while only 9% is sub-grade ore (which will also be utilized after proper blending with usable grade).
Crusher	PP submitted that the mobile crusher of 200 TPH capacity will be installed within the lease area for crushing the run-off mine bauxite ore.
Conceptual Land Use	PP submitted that at the end of conceptual period, out of total mine lease area of 268.11 ha, 109 ha will be excavated and will be restored by reclamation and rehabilitation. Back-filling/concurrent internal dumping for such reclamation and rehabilitation will start from 6 th year of current plan period, 8.350 ha will be under green belt/peripheral plantation and remaining 150.760 ha will be undisturbed.
Ultimate Working Depth	24.8 m from the surface level of the plateau top and PP submitted that no mining activity will be carried out on hill slope
Water Table	250-300m from the surface level of Hill top or 8 -13 m below ground level
Groundwater intersection	PP reported that the water table will not be intersected due to 24.8m deep mining at the plateau top.

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

Particulars	Particular's Name	Aerial Distance & Direction
Nearest Village	Tentuliguda village	0.7 km, WSW
	Kakriguda	1.0km, W
Nearest Town	Semeliguda	5.4 km, NW
	Koraput	25.0 km, NW
Nearest Highway	NH-43	1.0 km, West
Nearest Railway Station	Damanjodi RS	10.9 km, NNW
Nearest Water Bodies	i. KukurhaghatNala	1.1 km, S
	ii. KunduliNala	3.7 km, SE
	iii. Kolab River	4.2 km, W
	iv. Karandi River	4.8 km, NNW
	v. Sunabeda Reservoir	5.8 km, WNW
	vi. KatraNala	7.6 km, NNW
	vii. PathagarhNala	7.9 km, WSW
	viii. PottangiNala	7.6 km, S

13. Water requirement:

Total water requirement	61.0 KLD [Fresh water:58.0 KLD & Treated water:3.0 KLD]	Domestic	3.0 KLD
		Wet drilling	4.0 KLD
		Washing of machines	10.0 KLD
		Dust suppression during mining and processing	40.0 KLD
		Plantation	4.0 KLD
Source	Kundli Nala		
Permission	<p>i. PP submitted that the letter from the Office of the Executive Engineer, Koraput vide Lr No. DB-174/Hindalco dated 11.01.2021 stating that the M/s Hindalco Industries Ltd, Semiliguda has renewed its agreement after deposition of 3 months advance water charges in shape of FDR and 9 months bank guarantee as per the prevailing rate in accordance with CI 7 of the allocation letter along with the certified copy of the agreement.</p> <p>ii. PP also submitted the agreement made on 01.01.2021 between M/s Hindalco Industries Ltd and Governor of Orissa for the supply of water for the purpose of Industrial/Commercial use of 61m³/day from Kunduli Nala on the upstream of upper Kolab reservoir crossing NH-43 about 4km from the site and this agreement shall be valid for a period of three years from the date of execution subject to the renewal of agreement by the Executive Engineer.</p>		

14. The Project Proponent submitted that the entire lease area falls in hilly area under the revenue class of "Pahad and Parbat" and there is no forest land involved in the mine lease area. PP reported that there are no National Park, Wildlife Sanctuary, Biosphere Reserves, Tiger/Elephant Reserves within the 10km radius of the study area. Further, PP reported that the following Reserve Forest such as Pitagurha PF (8.9 km, WSW) and Dushura RF (9.7 km, WSW) are found within 10km radius of the study area.

15. The Project Proponent reported that there is no Schedule-I species found in the study area.

16. The Project Proponent reported that the total mine lease area is 268.11 ha and out of which 8.350 ha will be utilized for green belt/periphery plantation and the remaining will be left undisturbed/planted suitably. PP earmarked a budget of Rs. 1.5 Lakhs/hectare towards greenbelt development around the mine lease area. PP vide email dated 20.04.2022 submitted the revised budget proposed for plantation from 19 years to 5 years with capital expenditure as Rs 318,22,000 Lakhs and Rs 31,82,200 Lakhs as recurring expense @ 10%.

17. Baseline details:

Minutes of 49th EAC Meeting (Non-Coal Mining) held during 19th to 21st April, 2022

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, 2020 to December, 2020. The Monitoring results of ambient air, surface water, soil, ambient noise and ground water for the month of October, 2020 to December, 2020 have been reported and no major divergence was observed with respect to concentration values of various parameters of collected samples.

Period	October, 2020 to December, 2020					
AAQ parameters at 10 locations	Pollutant	Min, µg/m ³	Max, µg/m ³	98 %ile, µg/m ³	Standard, µg/m ³	
	PM2.5	12.8	30.9	30.6	60	
	PM10	28.8	87.7	87.4	100	
	SO2	6.1	28.3	28.3	80	
	NOx	6.3	46.7	46.6	80	
AAQ modelling (Incremental GLC)	Pollutant	Baseline Concentration, µg/m ³	Incremental Concentration, µg/m ³	Total GLC, µg/m ³	Standard	
	PM2.5	14.2	4.9	19.1	60	
	PM10	50.1	16.4	66.5	100	
	SO2	7.4	6.29	14.0	80	
	NOx	9.5	2.72	12.3	80	
Noise level at 11 locations	Day Time: 38.1 to 66.3 Leq dB (A) Night Time: 32.1 to 58.9 Leq dB (A)					
Ground water quality at 8 locations	PP reported that pH was in the range of 7.06 -7.62 and within the specified standard limits of 6.5 to 8.5. Electrical conductivity of the samples ranged from 277 – 1104 µS/cm. The maximum concentration is found in Kunduli (GW6) and minimum concentration is found in Doliamba (GW7). Calcium and magnesium concentrations ranged from 18.3- 69.8 mg/l and 9.4 – 29.6 mg/l respectively. The total dissolved solids of the samples ranged from 172 - 693.3 mg/l and within the stipulated 2000 mg/l. Iron concentrations in ground water varied from 0.06 - 0.14 mg/l. Zinc levels varied from 0.02 mg/l to 0.21 mg/l respectively. Aluminium concentration in ground water is 0.03- 0.11 mg/l and the limits stipulated. All other metal concentrations are observed to be below detectable limits. The total coliform counts are absent in all the samples against the standard limit of 10 MPN/100 ml. The ground water quality in the study area does not indicate any industrial contamination.					
Surface water quality at 7 locations	PP reported that pH value was observed to be in the range of 6.82 to 7.56 and Electrical conductivity was observed to be in the range of 127 µS/cm to 177 µS/cm. The Dissolved Oxygen (DO) was observed in the range of 5.6 mg/l to 6.2 mg/l. The maximum and minimum concentration was found in Kunduli Nala (SW2) and Sunabed reservoir (SW5). Fluoride concentration was found to be in the range of 0.4 mg/l to 0.7					

	mg/l. The maximum Fluoride concentration was found in Karandi River (SW6) and minimum concentration was found in Kukurhaghat Nala (SW1). Cyanides and phenolic compounds found to be below detection limits. Bacteriological studies revealed that the total coliform count is measured 1020-1360 MPN/100 ml. The surface water quality in the study area does not indicate any industrial contamination.
Soil quality at 10 locations	PP reported that the pH of the soil in the study area ranged from 5.74 to 7.24, indicating moderately acidic to neutral category. Electrical Conductivity observed to be in the range of 38.0 µmhos/cm to 164 µmhos/cm, indicating average category. The nitrogen values ranged between 85.4 to 173.2 kg/ha indicating less to better category. The phosphorus values ranged between 28.9 to 46.8 kg/ha, indicating less to medium category. The potassium values ranged between 108.4 – 214.8 kg/ha indicating very less to medium category.
Traffic study	PP reported that the traffic studies were carried out near the project site for 24-hours on each site between October to December, 2020. The major traffic bearing road connecting the ML area is identified on State Highway, NH-43 which is the nearest highway connecting the ML area. Two major junctions, one near at Semiliguda Junction and other near Damanjodi junction was identified as major intersections where traffic can be accounted. The individual traffic units have been converted to Passenger Car Unit (PCU) for comparison with IRC standards. The total figure of PCUs recorded during the study period was about 2011 PCUs per day.

18. Public Hearing (PH) Details:

Advertisement for PH with date	Daily News Paper “The Times of India” and “Samaj” on 19.10.2021
Date of PH	22.11.2021
Venue	Khata No. 27, Plot No. 40 (P) in Kankaramba village under Semiliguda Tehsil, Koraput District
Chaired by	Additional District Magistrate, Koraput
Main issues raised during PH	Protection of air & water environment, Protection of downhill lands due to soil erosion from mines, Preservation of streams water for agricultural purposes, Development of forest over barren hills & plantation of fruit bearing Trees in the locality, Control of fugitive dust emission during transportation of bauxite ore from the mine & protection of agricultural land, Development of forest over barren hills & plantation of fruit bearing Trees in the locality, Employment, Development of education facilities, Development of health facilities, Provision of Pucca Roads, Priority for local people in transportation activities,

	Construction of Check dam at Pakjholā Village etc
Budget proposed for addressing issues raised during PH	Rs. 4.53 Crores to be spent in next 3 years.
Action Plan	PP earmarked a budget of Rs 114.95 Lakhs towards air pollution & Rs.24.27 Lakhs towards water pollution, Rs 283.52 Lakhs towards plantation over the undisturbed area with greenbelt area around the mine lease area, Rs.20 Lakhs towards preservation of stream water for the use of agriculture purpose, Rs.2 Lakhs per ha for development of artificial forest over barren hills with at least 20% fruit bearing trees, Rs 63.90 Lakhs for development of health facilities and Rs 20.0 Lakhs for provision of pucca roads and construction of check dam at Pakjholā Village.

19. The Project Proponent submitted the Integrated Regional Office (IRO), Bhubaneswar carried out the site visit on 04.02.2021 and submitted the certified EC compliance report vide Lr No. 101-207/EPE/308 dated 22.02.2021 for the Environment Clearance dated 07.09.2006 wherein the IRO mentioned that since last 7 years the mine has not been in operation, point wise status of compliance to the stipulations of Environment Clearance would be verified at site only after the commencement of the mines. PP also needs to take up plantation and green belt development in and around the mine once the law-and-order situation in the area is restored to normalcy. IRO also noted that there has been gully formation all along the pathway up the M/s Hindalco Industries Limited affecting the road as well as safety during movement and PP needs to construct catch drains for proper drainage of water during the rains. Measures may also be taken to arrest soil erosion through plantation. PP also submitted the Consent to Operate issued by the State Pollution Control Board, Odisha vide Order No: 3833/IND-I-CON-5437 dated 27.03.2020 for production of 0.6 MTPA of Bauxite and is valid for the period from 01.04.2020 to 31.03.2022.

20. The Project Proponent obtained Environment Clearance on 07.09.2006 under the EIA Notification, 1994; validity of the EC was only for 5 years i.e., 06.09.2011 and the PP has operated the mines from 2012 to 2014 without obtaining Environment Clearance under EIA Notification, 2006. PP submitted the authenticated past productions details from the Office of the Deputy Director of Mines, Koraput vide Lr No 826/Mines, dated 17.07.2020 for the year 2008-09 to 2013-14. PP also submitted the Affidavit in a non-judicial stamp paper of Rs 100 bearing N 354407 dated 03.02.2022 that in pursuance of MoEF&CC Letter No: F.No:3-50/2017-IA.III(Pt.) dated 30.05.2018 and guidelines, this is to undertake that, M/s Hindalco Industries Limited would comply with all the statutory requirements with respect to Maliparbat Bauxite mines as applicable.

21. The Project Proponent submitted that the mining operations started during 2008 after execution of Lease deed on 08-11-2007 and the validity of EC expired on 06.09.2011. But the PP could not even attain at least 10% of the targets at any point of time. During 2008-09, PP produced 33,784 Tons against the annual target of 423360 tons. It accounts for less than 8% of the target. During the next year (2009-10), there was no mining at all. In 2010-11, PP produced 32,900 Tons against the annual target of 474320 tons. It works out to be 6.936% of target. Subsequently, there was nominal production of about 450 TPA. During the year 2011-12, 450 Tons of ore was produced before the expiry of the EC on 6th September, 2011. Thus, no mineral was produced during 2011-12 without valid EC. The violation period is limited to 2012-14 when a total of 900 tons of ore was produced at the rate of 450 TPA. This is the basis for subsequent calculations. PP submitted the revised ecological damage assessment by considering the violation period from 2011-12 to 2013-14 on pro rata basis and also the damage due to the transportation of the mineral by road. The actual land utilized at the start of FY 2012-13 was 5.098 ha and there was no horizontal or lateral expansion of mine lease. No new mine pit was opened and no expansion in the area under overburden dump. Hence, there was no change in land use and land cover during 2012-14 except an area of 2.5 ha was brought under greenbelt plantation with 6700 saplings. There was no change in the area used for the disposal of waste. No ground water was used for any purpose during the entire period. Further, PP submitted that the Operational Rainwater harvesting pond had been developed in an area of 0.138 ha. Garland drains were developed around the waste dump. Damage due to non-provision of garland drains has been included in the revised the ecological damage assessment. The total surface water used during the period of violation was 2279.58 KL, which costs Rs. 11,398/- @ Rs.5/- per KL. Ambient air quality with respect to PM_{2.5}, PM₁₀, SO₂ and NO₂ within the mine lease area and other areas around the mine lease such as Doliamba, Railway Siding, Kakadamba, Rajanguda, Aligoan, Bhitarikota and Mohanpada were carried out for a period of six months from May to September 2015 and the concentration observed to be with stipulated ambient air quality standards. Based on the violated production quantity of 450 ton in each year during the year 2012-13 and 2013-14, the presumptive damage to air quality has been calculated to be total of Rs.5,10,768. Mining was done in the pit opened during 2008-09 only. Neither the overburden dump nor the top soil dump was expanded after 2012-14. No tree was lost on account of mining. Only the most notorious invasive shrubs were lost from an area of 5.098 ha. There was no damage to the flora and fauna around the mine lease either on account of mining or transport of ore etc. PP submitted an undertaking vide letter dated 11.03.2022 stating that the EMP of Maliparbat Bauxite Mines for the EC dated 07.09.2006 under the EIA Notification 1994 was in operation during the violation period. As the mine was not in operational to the full capacity during the violation period, some of the environmental norms could not be completed. Therefore, Rs 15.0 Lakhs only could not be spent during the violation period

which has been added in Community Resource Augmentation Plan (CRAP).PP vide email dated 20.04.2022 submitted the revised ecological and restoration plan, Natural Resource and Community Resource Augmentation plan as mentioned below in Table. PP also submitted that budget of Rs 279,90,000 Lakhs has been earmarked towards bank guarantee.

Ecological Remediation and Restoration Plan										
S.No	Component	Proposed Activity	Description	Location	Unit Rate (Lakh)	Total Quantity	Total Cost in Rs Lakh	Year 1	Year 2	Year 3
1	Water environment	Rain water harvesting	On-site rainwater harvesting and ground water recharge	Mine lease	2.5	4	10	5	3	2
2	Air environment	Dust suppression and	Spraying of water during dry season	Outside the mine lease	2.5	2	5	2	2	1
3	Avenue plantations	Habitat improvement	Multipurpose trees along road sides	Outside the mine lease	500	100	5	2	2	1
Total							20	9	7	4

Natural Resource Augmentation Plan (NRAP)									
Sr.No	Proposed Activity	Description	Location	Unit Rate	Total Quantity	Total Cost in Rs Lakh	Year 1	Year 2	Year 3
1	Tree Plantation on barren hills	Fruit -trees at lower levels of barren hills	Hill top within the mine lease	500 per tree	1000	5.0	2	2	1
2.	Afforestation of barren hills	Broadcasting the pelletized seeds over the barren hills & Plantation of fruit trees	Barren hills around the mine lease.	2,00000 per ha	5 ha	10	2	3	5
3	Avenue Plantation	Road side plantation	Enroute the transport	500 per tree	1000	5	2	2	1

Minutes of 49th EAC Meeting (Non-Coal Mining) held during 19th to 21st April, 2022

4	Rain water harvesting	Construction and maintenance of rain water harvesting structures in villages	5 villages within the buffer zone	2	5	10	3	3	4
	Total					30	9	10	11

Community Resource Augmentation Plan (CRAP)							
Sr.No	Proposed Activity	Description	Location	Total Cost (in Lakh)	Year 1	Year 2	Year 3
1	Provision of solar lights	Installation of solar lighting in villages where there are no street lights	Villages of the buffer zone	30.00	10.00	10.00	10.00
2	Provision of solar powered bore-well	Community bore wells within the buffer zone	Villages of the buffer zone	30.00	6.00	12.00	12.00
3	Drinking water	RO plants within the schools	Schools in the buffer zone	3.00	1.00	1.00	1.00
4	Health facility (Curative Health Care)	Ambulance facility at the door step in Peripheral villages and MHU with Health cube & portable X-Ray machine including the specialized Medical Check-up camps	Villages of the buffer zone	113.90	63.90	25.00	25.00
5	Agriculture	Agriculture & Animal Husbandry	Silting of streams	33.00	11.00	11.00	11.00
6	Infrastructure development	Construction of Community halls	Villages willing to donate plot	20.00	0.00	10.00	10.00

	Total (in Lakhs)	229.90	91.90	69.00	69.00
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Sr.No	Description	Budget in Rs (Lakhs)
1	Ecological restoration plan	20,00,000
2	Natural Resource Augmentation Plan (NRAP)	30,00,000
3	Community Resource Augmentation Plan (CRAP)	22,990,000
Total		27,990,000

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

23. The Project Proponent submitted the order sheet dated 11.01.2014 dictating restraining orders from 500 meters of the Mali Parbat mining and dumping yard at Kankadaamba village promulgated U/S of Cr.P.C 144 issued by the District Magistrate of Koraput stating sufficient evidence of public disorder and order to be enforced by Semiliguda Police Station. PP also submitted the order sheet dated 20.08.2014 that the general public are abstain U/S 144 Cr.P.C from entering into 500 meters of the Mali Parbat mining and dumping yard at Kankadaamba area. The I.I.C of Semiliguda Police Station is disposed to promulgate the order immediately and report compliance. PP submitted that the credible action has been taken in accordance with the provisions of Sections 15 and 19 of the Environmental Protection Act, 1986. In accordance with the demand notice from the Office of the Deputy Director of Mines, Koraput vide No.34 dated 03.01.2022, the PP has paid Rs.15,32,216/- through SBI net banking on 10-01-2022. The action is pending from the State Government and the OSPCB. Further, PP submitted that one court case has been received vide W.P.(C) No. 473 of 2022 on dated 19.02.2022 regarding challenge of public hearing just after the 46th EAC meeting and PP has filed writ petition before Hon'ble High Court of Orissa on dated 07.03.2022.

24. Affidavit/Undertaking details

Project Proponent submitted an Undertaking	M/s Hindalco Industries Limited has complied with all the prescribed Terms of Reference (ToR) issued by MoEF&CC, New Delhi vide Letter No. J-11015/79/2020-IA.II(M) dated 08.02.2021. We undertake that the information and data provided in the EIA report and submitted to the Ministry are factually correct and project proponent is fully accountable for the same.
Consultant submitted an Undertaking dated 24.01.2022	The Consultant submitted an undertaking that the M/s Vimta Labs Limited has complied with all the prescribed Terms of Reference (ToR) issued by MoEF&CC, New Delhi vide Letter No. J-11015/79/2020-IA.II(M) dated

08.02.2021.

25. Details of the EMP

Activities	Capital cost (Lakhs)	Recurring cost (Lakhs/annum)
Air Pollution Control Equipment	114.95	Rs 20 lakhs provision has been made for annual maintenance cost of pollution control equipment and environmental monitoring.
Water and Wastewater Treatment	24.27	
Noise Control and Monitoring	4.5	
Soil Sampling Equipment	0.20	
Ecological Restoration	630.82	
Total	774.74	

26. Details of project cost and employment:

Particulars	(Rs. In Crore)
Capital Cost for Environment Protection	Rs 7.74 Cr
Budget for addressing the Public Hearing issues	Rs. 4.53 Cr
Total Cost for EMP	Rs 7.74 Cr
Recurring Cost for EMP	Rs 0.2 Cr
Project Cost	Rs 23.72 Cr
Employment	120 No.s

27. Observation and Recommendation of the Committee:

The proposal for Environmental Clearance was considered in the 49th EAC (Non Coal Mining) meeting held during 19th- 21st April, 2022. After detailed deliberations made by the Project Proponent and the Consultant, the Committee **recommended** the proposal under SOP dated 7th July,2021 for grant of Environmental Clearance for M/s Hindalco Industries Ltd is for mining of Bauxite in Maliparbat Bauxite mine with total excavation of 11,62,400 Tonnes (Bauxite:1,100,000 Tonnes (ROM) + Topsoil:18,540 Tonnes + OB/SB/IB:43,860 Tonnes)in the mine lease area of 268.110 ha, located at Aligaon, Kankaramba, Sorishpadar Village, Pottangi Tehsil, Koraput District, Odishasubject to the following specific conditions in addition to the standard EC conditions applicable for non-coal mining projects:

- i. The Environmental Clearance (EC) will be valid upto 07.11.2027 only.
- ii. EAC recommended for an amount of Rs. 2.79/- Cr towards Remediation plan and Natural and Community Resource Augmentation plan to be spent within a span of three years. The details of Remediation plan, Natural resource

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

Ecological Remediation and Restoration Plan										
S.No	Component	Proposed Activity	Description	Location	Unit Rate (Lakh)	Total Quantity	Total Cost in Rs Lakh	Year 1	Year 2	Year 3
1	Water environment	Rain water harvesting	On-site rainwater harvesting and ground water recharge	Mine lease	2.5	4	10	5	3	2
2	Air environment	Dust suppression and	Spraying of water during dry season	Outside the mine lease	2.5	2	5	2	2	1
3	Avenue plantations	Habitat improvement	Multipurpose trees along road sides	Outside the mine lease	500	100	5	2	2	1
Total							20	9	7	4

Natural Resource Augmentation Plan (NRAP)									
Sr.No	Proposed Activity	Description	Location	Unit Rate	Total Quantity	Total Cost in Rs Lakh	Year 1	Year 2	Year 3
1	Tree Plantation on barren hills	Fruit -trees at lower levels of barren hills	Hill top within the mine lease	500 per tree	1000	5.0	2	2	1
2.	Afforestation of barren hills	Broadcasting the pelletized seeds over the barren hills & Plantation of fruit trees	Barren hills around the mine lease.	2,00000 per ha	5 ha	10	2	3	5
3	Avenue Plantation	Road side plantation	Enroute the transport	500 per tree	1000	5	2	2	1
4	Rain water harvesting	Construction and maintenance of rain water	5 villages within the	2	5	10	3	3	4

Minutes of 49th EAC Meeting (Non-Coal Mining) held during 19th to 21st April, 2022

		harvesting structures in villages	buffer zone						
	Total					30	9	10	11

Sr.No	Description			Budget in Rs (Lakhs)			
Community Resource Augmentation Plan (CRAP)							
Sr.No	Proposed Activity	Description	Location	Total Cost (in Lakh)	Year 1	Year 2	Year 3
1	Provision of solar lights	Installation of solar lighting in villages where there are no street lights	Villages of the buffer zone	30.00	10.00	10.00	10.00
2	Provision of solar powered bore-well	Community bore wells within the buffer zone	Villages of the buffer zone	30.00	6.00	12.00	12.00
3	Drinking water	RO plants within the schools	Schools in the buffer zone	3.00	1.00	1.00	1.00
4	Health facility (Curative Health Care)	Ambulance facility at the door step in Peripheral villages and MHU with Health cube & portable X-Ray machine including the specialized Medical Check-up camps	Villages of the buffer zone	113.90	63.90	25.00	25.00
5	Agriculture	Agriculture & Animal Husbandry	Silting of streams	33.00	11.00	11.00	11.00
6	Infrastructure development	Construction of Community halls	Villages willing to donate plot	20.00	0.00	10.00	10.00
Total (in Lakhs)				229.90	91.90	69.00	69.00
1	Ecological restoration plan			20,00,000			
2	Natural Resource Augmentation Plan (NRAP)			30,00,000			

3	Community Resource Augmentation Plan (CRAP)	22,990,000
	Total	27,990,000

- iii. Total budgetary provision with respect to Remediation plan and Natural & Community Resource Augmentation plan is Rs. 2.79/- Cr. Therefore, Project Proponent shall be required to submit a bank guarantee of an amount of Rs. 2.79/- Cr towards Remediation plan and Natural and Community Resource Augmentation plan with the SPCB prior to the grant of EC.
- iv. Remediation plan shall be completed in 3 years whereas bank guarantee shall be for 5 years. The bank guarantee will be released after successful implementation of the remediation plan and Natural and Community Resource Augmentation Plan, and after the recommendation by regional office of the Ministry, Expert Appraisal Committee and approval of the Regulatory Authority.
- v. The adoption of mitigation measures and monitoring of the same as proposed in the EMP shall be done under the supervision of the qualified environmental/mining personnel.
- vi. Approval/permission of the CGWA/SGWA shall be obtained before drawing ground water for the project activities, if applicable. State Pollution Control Board (SPCB) concerned shall not issue Consent to Operate (CTO) till the project proponent obtains such permission.
- vii. The Project Proponent needs to submit the action taken report on plantation, damage recovery, Natural Resource Augmentation Plan (NRAP), Community Resource Augmentation Plan (CRAP) annually to the Ministry's Integrated Regional Office which should be monitorable and verifiable. The period of addressing these issues is restricted to a period of 3 years.
- viii. The Environmental Clearance will not be operational till such time the Project Proponent complies with all the statutory requirements and judgment of Hon'ble Supreme Court dated the 2nd August 2017 in Writ Petition (Civil) No. 114 of 2014 in the matter of Common Cause versus Union of India and Ors.
- ix. State Government concerned shall ensure that mining operation shall not commence till the entire compensation levied, if any, for illegal mining paid by the Project Proponent through their respective Department of Mining & Geology in strict compliance of judgment of Hon'ble Supreme Court dated the 2nd August 2017 in Writ Petition (Civil) No. 114 of 2014 in the matter of Common Cause versus Union of India and Ors.

- x. Effective dust suppression system shall be adopted at the transportation site and in the other parts of the mining lease to arrest the fugitive dust emission.
- xi. Project proponent shall take necessary other clearances/permissions under various Acts and Rules if any, from the respective authorities / department.
- xii. The mining lease holder shall, after ceasing mining operations, under take regrassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to condition which is fit for growth of fodder, flora and fauna etc.
- xiii. The budget of Rs 4.53 Cr to address the concerns raised by the public including in the public hearing to be completed within 3 years from the date of start of mining operations. PP shall comply with all action plans made for public hearing concerns and make regular maintenance and record the progressive activity outcomes.
- xiv. The Project Proponent shall undertake the plantation by planting the seedling of 10 ft height with at least 90% survival rate and the entire peripheral plantation and the safety barrier plantation and gap plantation shall be completed within 6 months from the start of mining operations. The casualties of each year shall be replaced every year with new saplings and such number of saplings shall not be counted in the number of saplings proposed to plant in that year. The data for such saplings should be furnished during six monthly compliance report along with the progressive plantation. PP shall undertake the progressive bench plantation up to HFL for eco restoration of water bodies. The Project Proponent shall ensure that the afforestation should be only of native species namely Sal.
- xv. The Project Proponent shall also organize employment-based apprenticeship/ internship training program every year with appropriate stipend for the youth and other programs to enhance the skill of the local people. The data should be maintained for the training imparted to the persons and the outcome of the training, for the assessment of the training program should be analyzed periodically and improved accordingly.
- xvi. The Project Proponent should periodically monitor and maintain the health records of the mine workers digitally prior to mining operations, at the time of operation of mine and post mining operations.

2.2 Proposal for Environmental Clearance of M/s RCCPL Private Limited for mining of Limestone in Bigodi Limestone mine with production capacity of 0.85 MTPA Limestone (ROM), 1.74 MTPA Waste/Reject, 0.44 MTPA of Top Soil/Alluvium (Total Excavation 3.03 MTPA) from the Mine Lease Area of 184.149

ha located at Dithora, SannehiSingti and Karaundi Villages, Amarpatan Tehsil, Satna District, Madhya Pradesh – [File No: IA-J-11015/34/2019-IA-II(M), Proposal No: IA/MP/MIN/100548/2019, Consultant: Vimta Labs Ltd.,] - Environmental Clearance (EC)

EAC Meeting Details:

EAC meeting	49 th
Date of Meeting	19 th – 21 st April, 2022

The proposal of M/s RCCPL Private Limited is for mining of Limestone in Bigodi Limestone mine with production capacity of 0.85 MTPA Limestone (ROM), 1.74 MTPA Waste/Reject, 0.44 MTPA of Top Soil/Alluvium (Total Excavation 3.03 MTPA) in the mine lease area of 184.149 ha located at Dithora, SannehiSingti and Karaundi Villages, Amarpatan Tehsil, Satna District, Madhya Pradesh. The mine lease area is located between Latitude 24°23'59.95"N to 24°24'46.54"N and Longitude - 81°10' 34.34"E to 81°12'06.20"E. The mine lease area falls under the Survey of India Toposheet No: G44V3 (63H/3), G44V2 (63H/2) and G44V7 (63H/7) and falls in Seismic Zone-II. The Project Proponent presented the KML file during the presentation to indicate the location of mine lease on Google Earth.

2. M/s RCCPL Private Limited has made an online application vide proposal no: IA/MP/MIN/100548/2019 dated 01.04.2022 and submitted Form 2 and EIA report under the provisions of the EIA Notification, 2006. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals and falls 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
27.03.2019	IA/MP/MIN/100548/2019	April 23-24, 2019 & August 27-28, 2019	Terms of Reference for production capacity of 0.85 MTPA Limestone (ROM), 1.74 MTPA Waste/Reject, 0.44 MTPA of Top Soil/Alluvium (Total Excavation 3.03 MTPA) in the mine lease area of 184.149 ha	19.11.2019

4. The Project Proponent submitted that the Letter of Intent (LoI) for grant of mining lease issued by the Department of Mineral Resource, Govt. of Madhya Pradesh vide

letter no. F 3-1/2018/12/1 dated 24.03.2018 over an area of 184.149 ha in villages Sannehi Singti, Dithoura and Karaundi, Tehsil: Amarpatan, District: Satna in the name of M/s Reliance Cement Company Private Limited. Further, PP submitted that the name of the Company changed from M/s Reliance Cement Company Private Limited to M/s RCCPL Private Limited and the same was approved by the Office of the Registrar of Companies, Ministry of Corporate Affairs, Government of India vide letter no. Corporate identification Number (CIN) U26940MH2007PTC173458 dated 01.08.2018. PP also submitted a copy of order no F3-1/2018/12/1 dated 14.03.2019 *inter-alia* stating that after giving due consideration agreed to change name of the company from M/s Reliance Cement Company Private Limited to M/s RCCPL Private Limited under rule number 61(1) of the Mineral (Other than Atomic and Hydro Carbons Energy Minerals) Concession Rule 2016, in the Letter of Intent 2016, by the Mineral Resource Department, Government of Madhya Pradesh. PP submitted the grant of mining lease issued by Govt. of Madhya Pradesh vide Lr No. F 3-1/2018/12/1 dated 25.09.2020 over an area of 184.149 ha for a period of 50 years. PP also submitted the mine lease deed executed on 12.11.2020 and registered on 27.11.2020 between the Governor of Madhya Pradesh and M/s RCCPL Private Limited for a period of 50 years over an area of 184.149 ha.

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

Government land	14.409 ha
Private agriculture land	169.740 ha [Double crop land: 134.111 ha + Single crop land: 16.428 ha + Not cultivated: 19.201 ha].
Total Mining lease area (MLA)	184.149 ha
Private land for crusher, workshop & other infrastructure outside the MLA	Nil

6. Mining plan details:

Mining Plan including Progressive Mine Closure Plan approved by Indian Bureau of Mines (IBM)	Letter No.	MP/Satna/Limestone/MPLN/G-04/19-20 3536
	Date	20.11.2019
	Mine lease area	184.149 ha
	Mineral	Limestone
	Validity	5 years
Mining Parameters	Quantitative Description	
Method of Mining	Opencast fully mechanized	
Geological Resources	53.45 Million Tonnes	
Mineable Reserves	32.35 Million Tonnes	
Life of mine	41 years	

Minutes of 49th EAC Meeting (Non-Coal Mining) held during 19th to 21st April, 2022

Bench Height	6 m
Bench Width	Minimum working bench width would be maintained as 20-30 m
Individual bench slope	77 ^o - 80 ^o
Overall pit slope	45 ^o
Drilling/Blasting	Crawler mounted hydraulic excavator with bucket capacity of 2.6 m ³ capacity will be used for loading. 115 mm to 150 mm size drills will be used for drilling and shovel combination with 30 – 60 tonne capacity dumpers or 18 tonne capacity tippers will be used to transport the blasted material from the face to dump area and crusher.
RoM output size	600 mm
Crusher	PP proposed to install 300 TPH crusher within the mine lease area.
Transportation details	The limestone after processing will be dispatched to own cement plant of the RCCPL Pvt. Ltd. at Bharauli for captive use. It is proposed to transport the limestone up to the cement plant (68 km) by tipper trucks through road. The ROM limestone will be crushed before being dispatched to the cement plant. Further, till the installation of crusher, sized limestone will be transported to cement plant for captive use.
Dumpers capacity	18 Tonne
Mineral beneficiation	PP reported that no beneficiation of limestone will be carried out and there is no proposal for beneficiation plant in the mine lease area.
Topsoil	PP reported that during five-year period, 8,50,559 m ³ of top soil will be generated which will be temporarily stacked in NW side of ML area over an earmarked area of 6.250 ha. Upto conceptual period, total 99,44,441 m ³ top soil will be generated this will be dumped in the non-feasible area i.e., in the NW part of the ML area and will be further used for backfilling along with the mine waste generated in the 1 st two year while the 3 rd to 5 th year waste will be dumped within the ML area. The topsoil which is fertile in nature will be used for plantation.
OB/Waste	PP reported that during the 1 st five years period, about 16,17,133 m ³ of OB/waste will be generated. Upto conceptual period 30,578,880 m ³ OB will be generated. The generated OB/waste material will be mainly shale and high Magnesian Limestone etc. This material will be dumped on earmarked

	area and finally utilized for backfilling in subsequent stages of mining.
Groundwater intersection	PP reported that the depth of mining will be max 70 m and the ground water level in the area is 40-45 m bgl in pre monsoon and 35-40m bgl in post monsoon. The mining will intersect the ground water after 11 years of mining.

7. Water requirement:

Total water requirement	183.0 KLD (Fresh water: 183.0 KLD, Treated water: Nil)	Dust suppression (Mine + Crusher)	138.0 KLD
		Greenbelt / Plantation	30.0 KLD
		Domestic	5.0 KLD
		Workshop	10.0 KLD
Source	Ground water during initial years of operation		
Permission	PP submitted the application for issue of NOC vide Application 21-4/1186/MP/MIN/2021 to CGWA on 26.12.2021 and is under process.		

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

Particulars	Particular's Name	Distance & Directions
Nearest Village	Dithora	Adjacent, N
Nearest Town	Rewa	16 km, NE
Nearest Highway	NH-75 Panna Khajuraho Road	140 m, S
Nearest Railway station	Rewa	15 km NE
Nearest Water bodies	Bihar River	50 m. SE
	Seasonal nallahs exist within study area	

9. The Project Proponent reported that no forest land is involved in the mine lease area of 184.149 ha. PP reported that there are no National Park, Sanctuaries, Biosphere reserves, Wild Life Corridors, Ramsar Site/ Elephant reserves exist within 10 km of the mine lease and the same is authenticated from the Divisional Forest Officer vide letter dated 04.03.2021. PP also submitted the authenticated map showing National Park, Sanctuaries, Biosphere reserves, Wild Life Corridors, Ramsar Site/ Elephant reserves exist within 10 km of the mine lease authenticated vide letter dated 08.04.2021. Further, PP reported that the following Reserve Forest such as Mand RF: 1.8 km, E, Papra RF: 4.8 km, S and Govindgarh RF: 4.9 km, SSE are found within the 10km radius of the mine lease area.

10. The Project Proponent reported that there are no Schedule-I species found in the study area and the submitted the list of flora and fauna authenticated from DFO vide letter dated 04.03.2021.

11. Green belt/plantation details:

Proposed area for green belt/plantation	55.25 ha
Total no. of plants	82,869
Budget for green plant & plantation till the end of life of mine.	Rs 2.186 Crore
Budget for nursery	
Particulars for Green belt/plantation	Area covered (in Ha)
7.5 m barrier & non-mineralized zone	Greenbelt: 55.246 ha
50 m safety zone of nallah, roads, electric lines	
500 m safety zones of nearest habitation villages	
Additional information (if any)	PP submitted that area of 100.690ha of backfilled area may be used for plantation.

12. 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 Winter Season i.e., December, 2019 to February, 2020. 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	December, 2019 to February, 2020				
AAQ parameters at 9 locations	Pollutant	Min, µg/m ³	Max, µg/m ³	98 %ile, µg/m ³	Standard, µg/m ³
	PM2.5	14.4	25.6	22.5	60
	PM10	28.6	48.9	43.3	100
	SO2	9.1	13.2	12.4	80
	NOx	12.1	18.4	17.1	80
AAQ modelling (Incremental GLC)	Pollutant	Baseline Concentration, µg/m ³	Incremental Concentration, µg/m ³	Total GLC, µg/m ³	Standard
	PM10	48.9	7.4	56.3	100
	PM2.5	25.6	2.2	28.0	60
	SO2	13.2	0.1	13.3	80
	NOx	18.4	15.5	33.9	80
Noise level at 9 locations	Day Time: 38.3 to 50.3 Leq dB (A) Night Time: 34.4 to 46.2 Leq dB (A)				
Ground water quality at 9 locations	PP reported that pH of collected water samples varied from 6.88 to 7.64. Electrical conductivity ranged between 161 – 373 µS/cm. Total hardness varied from 47.6–310.9 mg/l. Total Dissolved Solids in the water samples ranged from 91 - 527 mg/l. Chlorides and				

	Sulphates concentrations at all the locations 26.5–55.6 mg/l and 24.5 – 35.8 mg/l respectively. All the parameters are found to comply with the requirements of IS: 10500: 2012.
Surface water quality at 4 locations	PP reported that pH of collected water samples varied from 7.11 to 7.7. Electrical conductivity ranged between 151 – 178 µS/cm. Dissolved Oxygen was observed in the range of 5.2 - 6.1 mg/l. BOD values were observed in the range less than 3 mg/l. The total hardness was found to be in the range of 41 - 52 mg/l. The Chloride concentration was observed in the range of 10.6 mg/l to 20.8 mg/l. Nitrates content was found to be in the range of 0.7 -1.4 mg/l which is within the standard limits. The physico-chemical and biological analysis revealed that most of the parameters are well within the permissible limits as per IS: 2296. The surface water quality does not indicate any industrial contamination.
Soil quality at 9 locations	PP reported that as per the physical data soils are fine texture, having low bulk density, imperatively high water holding capacity, and slow permeability. As per physical characters soils are rated as moderate to good for agriculture. As per chemical characters soil reaction (pH) soils are slightly acidic to neutral and electrical conductivity (EC) is non saline (normal). Organic matter is very low to low, macro-nutrient like nitrogen is very low to low and phosphorus is medium, good to sufficient, potassium is very low to low, calcium, magnesium are high and base saturation is very high. Sodium is below the limit to make soil saline or sodic or alkali. Micro-nutrients, Mn (high), Zn (high), and B (Normal), Fe (v.low) Al (v.low), SO ₄ and Cl are normal to high. As per analysis of soils data and field observation the land can be classified as class II e and III e land i.e., moderate to good soils on plain to gentle slopes subject to water erosion, as per land capability classification (USDA) i.e., good land for sustained agriculture.
Traffic Survey	PP reported that the traffic density study was conducted at Maihar, [SH-30 & SH-11] (To & Fro), Amarpatan, [SH-30 & SH-13] (To & Fro) and Near Kathaha [SH-30] (To & Fro) passing through transportation route from mine site to cement plant site. About 158 trucks per day would be required for transportation of material. The traffic contribution from mine to the road network i.e., 'to and fro' movement of 316 vehicles per day, which is equivalent to 948 PCU per day (taking a PCU factor of 3 per vehicle). The estimated peak traffic in terms of PCUs is compared with the stipulated standards by IRC for traffic capacity of the roads and it can be observed that the existing road network is adequate and the Level of Service (LOS) found to be 'A'.

13. Public Hearing (PH) Details:

Advertisement for PH with date	01.01.2022
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Minutes of 49th EAC Meeting (Non-Coal Mining) held during 19th to 21st April, 2022

Date of PH	02.02.2022
Venue	Sannehi Bada Gram Panchayat near ML
Chaired by	Additional District Magistrate
Main issues raised during PH	Pollution control, Environment management, Land compensation, employment
Budget proposed for addressing issues raised during PH	Rs 71.0 lakhs

14. The Project Proponent submitted that the mining lease area of 184.149 ha falls in 3 Villages namely Dithora, Karaundi and Sannehi Singti and the no. of Project Affected Families (PAFs) is 361. The Project Affected Families-PAFs of partially affected villages will lose only agricultural lands. There are no Scheduled Tribes between surveyed PAFs in the study area. The land purchase for the proposed limestone mine will be implemented under the provisions of the Central and Madhya Pradesh State Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Rules, 2015 dated 03/09/2015. PP earmarked a budget of Rs 51.98 Cr towards Rehabilitation & Resettlement (R&R).

15. Court case details:

Court Case	PP submitted that there is no any Court Cases pending against the project and/or land in which the project is proposed to be set up.
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16. Affidavit/Undertaking details:

Affidavit in a Non-Judicial stamp paper of Rs 100 bearing VT 395835 dated 24.09.2019	<ul style="list-style-type: none"> i. No mining activity has been carried out in the mining lease area and no mining activity will be carried out till all the regulatory clearances are obtained. ii. M/s RCCPL Private Limited would comply with all the statutory requirements and judgment of Hon'ble Supreme Court dated 2nd August 2017 in Writ Petition (Civil) No. 114 of 2014 in the matter of common cause versus Union of India & Ors.
Project Proponent submitted an Undertaking dated 31.03.2022	PP submitted an undertaking stating that information and the data provided in the EIA report and submitted to the Ministry are factually correct & Project Proponent is fully accountable for the same.
Consultant submitted an Undertaking dated 31.03.2022	The Consultant submitted an undertaking stating that the M/s Vimta Labs Limited has complied with all the prescribed Terms of Reference issued by MoEF&CC, vide Letter No. J-11015/34/2019-IA.II (M) dated 19.11.2019 stipulated for EIA for the proposed Bigodi Limestone mine with production capacity of 0.85 MTPA Limestone (ROM), 1.74 MTPA Waste/Reject, 0.44

	MTPA of Top Soil/Alluvium (Total Excavation 3.03 MTPA) from the Mine Lease Area of 184.149 ha located at Dithora, SannehiSingti and Karaundi Villages, Amarpatan Tehsil, Satna District, Madhya Pradesh.
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17. Details of the EMP:

Activities	Capital cost (Rs in Crores)	Recurring cost (Rs in Crores/ annum)
Air pollution control and management	2.280	0.904
Water and wastewater control and management	2.835	0.341
Noise and vibration control and management	0.110	0.010
Soil conservation and solid waste management	0.279	0.031
Plantation & Green Belt	2.186	0.123
Others	3.075	0.000
Total	10.765	1.409

18. Details of project cost and employment:

Particulars	(Rs. in Crore)
Capital Cost for Environment Protection	7.69
Budget for addressing the Public Hearing issues	0.71
Total Cost for EMP	10.76
Recurring Cost for EMP	1.409
Project Cost	110
Employment	103 Persons

19. Observation and Recommendation of the Committee:

The proposal for Environmental Clearance was considered in the 49th EAC (Non Coal Mining) meeting held during 19th- 21st April, 2022. After detailed deliberations made by the Project Proponent and the Consultant, the Committee noted that the Consultant could not able to bring out actual facts and also the performance of the Consultant is not satisfactory. The Committee also noted that in Form 2, S.No 29, PP/Consultant has submitted that about 783 m length of nalah will be diverted in mined out portion and during the EAC meeting, the Consultant presented that there is no such proposal for diversion of nalah in the mine lease area which is contradictory. The Committee observed that the total mine lease area is 184.149 ha out of which Private Agricultural land is 169.740 ha [Double crop land: 134.111 ha + Single crop land: 16.428 ha + Not cultivated: 19.201 ha] and Govt land is 14.409 ha and there is a loss of livelihood due to diversion of Agriculture land for mining activity and the Consultant has not presented the cost benefit analysis before the EAC. The Committee also observed that the activities specified under public hearing concerns is not in monitorable and

actionable form and PP needs to revisit the components specified under public hearing concerns. The Committee opined that the Project Proponent needs to revise the technical presentation. Therefore, the Committee **deferred** the proposal for want of following additional information: -.

- i. The Project proponent needs to submit the Cost Benefit analysis comparing the current agricultural production and annual turnover including the cost and the benefits drawn by the local villages vis-a-vis the mineral cost and beneficiaries.
- ii. The Project Proponent needs to properly define the mining methodology including drilling and blasting parameters and controlled measures for ground vibration and noise abatement and land use at the conceptual stage for protection of agricultural lands within the mine lease area.
- iii. The Project Proponent needs to submit the management plan for natural drains in the mine lease area and measures taken for its protection.
- iv. The Project Proponent needs to submit the protection measures to be taken in compliance of the MoEF&CC Office Memorandum No. Z11013/57/2014-IA.II (M), dated 29thOctober, 2014.
- v. The Project Proponent needs to submit the land use classification of mine lease area of 184.149 ha along with the ownership of the land with the supporting documents and their designated use. PP also needs to submit the map demarcating the mining zone in the Government and Agriculture land separately along with the plan for restoration of ecology.
- vi. The Committee noted that the area selected for dumping is mineralized area and hence the PP needs to explore the possibility of shifting the dump to the non-mineralized area and also needs to submit the map for the same.
- vii. The Project Proponent needs to revise the budget for addressing the public hearing concerns as well as the component included in the table. PP has submitted that the Project Cost is Rs 110.0 Cr and expenditure amount of about Rs 2.0 Cr expected to be revised. The component should include capital investment in three years as mentioned below:
 - a) Infrastructure for school, education and health
 - b) Agriculture sector
 - c) Pollution control for air, noise and water, soil
 - d) Drinking water supply
 - e) Ecosystem development including green cover plantation and plantation in the buffer zone including avenue plantation.

The component should be monitorable and verifiable and must have a budget for capital budget to be spent within 3 years and recurring expenditure till the life of the mine.

- viii. The Committee noted that the proposal of installing crusher with a capacity of 300 TPH is not a part of TOR dated 19.11.2019. However, in Form1 under (II) Activity S. No 1.5, PP has mentioned that 300 TPH crusher will be involved. Hence, PP needs to clarify whether the proposal of crusher is part of TOR or not and the impacts of crusher has been addressed in the public hearing or not?
- ix. The Project Proponent needs to submit the English translation of minutes of public hearing as per the ToR compliance of Point No 65, d.
- x. The Project Proponent needs to submit the all the analysis/testing reports of water, air, soil, noise, etc. using the MoEF&CC/NABL accredited laboratories.

2.3 Proposal for Environmental Clearance of M/s. RCCPL Private Limited for Itoura Limestone mine with production capacity of 0.8 MTPA, waste/rejection 0.51 MTPA, Topsoil 0.09 MTPA (Total excavation is 1.4 MTPA) in the mine lease area of 747.817 ha located at villages Itoura, Bachwai, KarhiPawai, Giduri, and Rewra, Tehsil Raghurajnagar, Satna District, Madhya Pradesh – [File No: J-11015/16/2019-IA.II(M), Proposal No: IA/MP/MIN/101792/2019; Consultant: Vimta Labs Ltd]- Reconsideration of EC

EAC Meeting Details:

EAC meeting	49 th
Date of Meeting	19 th – 21 st April, 2022

The proposal of M/s. RCCPL Private Limited is for grant of Environmental Clearance for Itoura Limestone mine with production capacity of 0.8 MTPA, Waste/Reject: 0.51 MTPA, Topsoil: 0.09 MTPA (Total excavation - 1.4 MTPA) in the mine lease area of 747.817 ha, located at Villages Itoura, Bachwai, Karhi Pawai, Giduri, and Rewra, Tehsil Raghuraj nagar, Satna District, Madhya Pradesh. The mine lease area is located between Latitude 24°34'44.65"N - 24°36'50.87"N and Longitude 80°44'22.98"E - 80°47'45.92"E. The mine lease falls under the Survey of India Toposheet No: G44 U10 and G44 U14 and falls in Seismic Zone-II. The Project Proponent presented the KML file during the presentation to indicate the location of mine lease on Google Earth.

2. The Project Proponent (PP) has made an online application for grant of Environmental Clearance vide proposal no: IA/MP/MIN/101792/2019 dated 10.11.2021 and submitted Form 2 and EIA report under the provisions of the EIA Notification, 2006 for the project mentioned above. The proposed project activity is listed at schedule no.

1(a) Mining of Minerals and falls under Category “A” as the mining lease area is greater than 100ha and appraised at the Central level.

3. The proposal was earlier considered in the 42nd EAC (Non-Coal Mining) meeting held during 30th November – 3rd December, 2021. After detailed deliberations made by the Project Proponent and the Consultant, the Committee deferred the proposal for want of requisite information. The Project Proponent vide Letter Ref No: RCCPL/Itaura_MP/MoEF&CC/05 dated 28th March 2022 submitted the information sought by the EAC in its meeting held during 30th November – 3rd December, 2021 wherein the PP submitted the following as mentioned below: -

Point (i): 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.

Reply by PP: PP submitted that the normative and peak total excavation will be same, i.e., 1.40 MTPA from this mine. Emissions will be fugitive in nature arising during the excavation, loading and unloading of limestone, conveying and limestone storage. PP considered the following activity such as drilling activity, blasting, excavators on OB, excavators on limestone, bull dozing, loading into dumpers/excavator, wheel generated dust on unpaved roads, dumping of overburden/stock pile, wind erosion and crusher (400 TPH) for estimation of emission rate. PP reported that the results indicated that the maximum incremental PM₁₀ concentration for proposed mining will be about 9.66 µg/m³ with control measures and PM_{2.5} concentration will be 3.1 µg/m³ with control measures. Therefore, the impact of opencast extraction on the local air quality would be acceptable. However, control measures will be adopted for controlling air pollution and dust emissions from the mining activity and implementation of a green belt comprising of various tree species which will act as a dust attenuator of 30 m width around the site boundary, along with efficient control measures at source, would effectively mitigate and minimize pollution impacts from the quarry.

Point (ii): The Project Proponent needs to revise the noise modeling in such a way that modeling includes the anticipated noise levels due to all mining activity at line source, point source and area source and their incremental and resultant noise level at their mine lease boundary and nearby receptors along with the distance. PP should also submit the calculation, methods and reference used for noise modeling.

Reply by PP: PP submitted that noise modeling has been carried out using Dhwani-Pro modeling software considering line, point and area sources involved in mining activity. The likely generation of noise levels due to operation of HEMM in the proposed mine are Blasting, Drilling, Shovel, Dumpers, Dozers, Crusher and movement of vehicles on

haul road. The noise produced by blasting will be for extremely short duration of around less than a second. The mining operations will be carried out between 6 am to 10 pm in two shifts. The ISO 9613-2 General noise calculation model was used which considers frequency dependent attenuation due to geometric divergence, atmospheric absorption, and ground effect. PP reported that the predicted noise levels at mine lease boundary ranged between 47.0-52.0 dB(A). The noise levels were predicted considering operation of high noise generating machinery within the lease area. The predictions are carried out without considering any attenuation in noise levels due to barriers such as plantation, etc. From the noise modelling, it can be stated that the impact on the present noise levels due to proposed mining operations will be restricted to the work zone environment only. The implementation of green belt will be effective in attenuating the noise levels emanated from the mining activity.

Point (iii): The Committee noted that Rewra village is within the mine lease area and the anticipated PPV, mm/s presented by the PP during the meeting exceeds the permissible limits prescribed by DGMS. Hence, the PP needs to submit the revised mathematical modeling for anticipated ground vibration due to blasting with controlled measures. 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).

Reply by PP: PP submitted that the revised mathematical modelling has been carried out to assess the safe value of maximum charge per delay for nearby habitations including Rewra village, keeping the limiting value prescribed by DGMS. Major factors affecting particle velocity of ground vibration are type and amount of explosives charge used, distance from the blast site to the location of structure, geological, structural and physical properties of the rock that transmits the vibration and blast geometry. Use of safe maximum explosives per delay, in-hole delays with Nonel systems, proper burden, spacing and proper stemming of holes reduces blast induced ground vibrations. PP used the empirical equation $V = 500 [D/\sqrt{Q_{Max}}]^{-1.41}$ where V = Peak particle velocity in mm/s, D = Distance between location of blast and gauge point in m and Qmax = Maximum Quantity of explosive per delay in kg. Rewra village is situated within lease area boundary at the minimum distance of 180 m from the nearest mine pit. For Rewra village the maximum charge per delay calculated with the above formula would be 126.1 kg. The safe maximum charge per delay applicable for the nearby habitation are calculated with the above-mentioned empirical formula, however, after opening of the mine, the management will initially carry out ground vibration study through reputed institute to determine maximum charge per hole and charge to be blasted with one delay so that vibrations are minimized and kept within permissible safe limits fixed by DGMS. PP submitted that they will obtain necessary permission from DGMS under

Regulation no. 164 of MMR'1961 for conducting controlled blasting within 300m but beyond 100m from Habitation. Apart from this, additional control measures like wet drilling, avoiding blasting during high wind speed and development of green belt within the safety barrier of the mine will ensure that there is no impact of blasting activity in the mine area over the habitation.

Point (iv): The Project Proponent should revise the Conceptual plan along with map for proposed mining with reclamation plan and the same needs to be submitted in the EIA/EMP report.

Reply by PP: PP has submitted the revised conceptual plan with proposed reclamation plan and also to incorporate proposed embankment along the Satna River for protection of river as well as mining pit. The design of embankment has been prepared by NIT Raipur, which clearly concludes that *“from the flood model study, it was observed that the inundation on the right bank i.e., towards the mine side is the most unlikely situation in the present context. However, considering the unforeseen event to protect the mine areas from local flood level and to channelize the surface runoff, construction of embankment may be considered in phased manners as per the advancement of mining excavation”*.

Point (v): The Project Proponent should increase the capacity of the tipper with a view to reduce the no. of trips and accordingly PP should revise the transportation plan and incorporate in the EIA/EMP report.

Reply by PP: PP submitted that the 18 Ton capacity tippers have been considered instead of 10 Ton capacity tippers for transportation of mineral from mine to plant to keep the number of tippers minimum. Existing Public Road is a Tar Road of 8m-12m width. There are narrow railway crossing and culvert also. With these constraints, it is difficult to ply higher capacity tippers than 18 T capacity, frequently on this road. Most of the mines in this region use 18 T capacity tippers, which will also help in maintain fleet, availability of spare parts & services. Existing traffic load on the proposed transportation route is measured to be maximum 2241 PCU. With the opening of Itoura Limestone mine, about 10 trucks per hour would be required for transportation of material. The traffic contribution from mine to the road network will thus is the “to” and “fro” movement of 20 vehicles per hour, which is equivalent to 960 PCU per day (taking a PCU factor of 3 per vehicle). With present level of traffic route and the predicted increase in traffic due to project, adequacy of road/ highway has been estimated by comparison with the recommendations stipulated by Indian Road Congress (IRC). The total traffic load after implementation of the mining project will be well within the IRC stipulated maximum load of 15,000 PCU/ day.

Point (vi): The Project Proponent needs to submit the engineering design for garland drains, check dams, check filters and embankment and its efficacy to mitigate the potential impact and protection of Satna River (Adjacent, SW to ML boundary).

Reply by PP: PP submitted that the detailed study has been carried out by NIT, Raipur addressing the engineering design of garland drains, check dams, check filters and embankment and its efficacy to mitigate the potential impact and protection of Satna River. Satna river flows NW-SE along the north western boundary of mine lease area. From the flood model study, it was observed that the inundation on the right bank i.e., towards the mine side is the most unlikely situation in the present context. However, considering the unforeseen event to protect the mine areas from local flood level and to channelize the surface run-off, construction of embankment may be considered in phased manner as per the advancement of mining excavation. To accommodate the surface run-off and to sustain the peak flow conditions, provision of garland drain along with settling pits/check dams with check filters is recommended in the mine lease area. Water stored in the settling pit/check dams can be utilized in the mining area for sprinkling through tanks as well as for recharging ground water through recharge ponds. The river width near ML area ranges from 49 m to 96 m with average depth of around 2.3 m and High Flood Level [HFL] around 302.5 m. As per study observation HFL 302.5 m, a natural stream joining the Satna river near mine pit 13 is going to inundate due to back flow of water from Satna river to the natural stream, so there is a requirement of embankment along the mine pits 11 and 13. In order to safeguard the mine from accumulation of surface runoff in the mine lease area, proper drainage will be provided along with settling pits to cater the surface run-off.

Point (vii): The Project Proponent needs to submit the water management plan and its action plan for utilization of creation of water body of 189.64ha for benefit of the agriculture, local people and community use.

Reply by PP: PP submitted that as per the reclamation and rehabilitation plan, an area of 189.640 ha is proposed to be converted into water reservoir at the conceptual stage. The proposed water reservoir will act as a ground water recharge structure and water source for the nearby communities. An amount of 21,65,688.80 m³ (2.166 MCM) of rainfall will be collected in the water reservoir area and after considering 80% of the rainfall collected after losses, 17,32,551.04 m³ (1.733 MCM) will be available for recharge resulting in post mining water table recovery in the area and supplementing water requirement of surrounding villages. Natural recharge estimated as per CGWA guidelines considering the water spread area of 189.640 ha, water availability for 365 days and recharge factor of 1.4 mm/day is 9,69,060.40 m³. Natural recharge estimated as per CGWA guidelines considering the water spread area of 189.640 ha, water

availability for 365 days and recharge factor of 1.4 mm/day is 9,69,060.40 m³. Balance of 7,63,490.64 m³ will be used for irrigation in the vicinity covering 148.7 ha with an average water requirement of 43.70 m³/day/ha for an average crop growing period of 117.5 days.

Point (viii): The Project Proponent shall undertake the adequate plantation in peripheral area and safety zone with the sapling of 10 ft height having at least 90% survival rate with a spacing of 2 x 2m and the plantation shall be completed within 3 years from the start of mining operations. Density of the plantation shall be 1500-2000 plants/ha. The casualties of each year shall be replaced every year with new saplings and such number of saplings shall not be counted in the number of saplings proposed to plant in that year. PP shall undertake the progressive bench plantation up to HFL for eco restoration of water bodies. Undertaking in this regard needs to be submitted by the PP.

Reply by PP: PP submitted that the mining will commence from SE direction of the lease area. Land will be acquired in phased-manner before the progress of mining operations as per the Mining Plan. During the first 3 years the following safety barrier areas will be covered with plantation over 36.08 ha area so as to minimize pollution to nearby habitation, road and railway as follows a) 7.5 m barrier from ML boundary towards SE side b) 20 m on either side of Main Road & Railway c) 50 m from Habitation d) 20 m from Crusher Plant e) 10 m from Haulage Road. PP also submitted the plan showing overall and first 3-year proposed plantation over safety barriers. PP submitted an undertaking vide letter dated 25.03.2022 stating that the adequate plantation will be carried out in peripheral area and safety zone with the sapling of 10 ft. height having at least 90% survival rate. Plantation shall be completed within 3 years from the start of mining operations covering an area of 36.08 ha in the following manner a) 7.5 m barrier from ML boundary towards SE side b) 20 m on either side of Main Road & Railway c) 50 m from Habitation d) 20 m from Crusher Plant e) 10 m from Haulage Road. Before commencement of mining in the remaining area, the surrounding safety barrier area will be covered with plantation. Density of the plantation shall be 1500 plants/ha. The casualties of each year shall be replaced with new saplings and such number of saplings shall not be counted in the number of saplings proposed to plant in that year. Progressive bench plantation up to HFL for eco restoration of water bodies will be done.

Point (ix): The Project Proponent needs to submit the revised R&R plan covering all the components. PP should clearly mention the number of Project Affected Person (PAP) and details of the land owned by them break up of total compensation to be paid including method of calculation including the sources/references adopted and mode of payment etc. PP needs to submit the

plan for Socio economic development of the neighbourhood habitats based on the need-based survey along with the time bound action plan.

Reply by PP: PP reported that the socio-economic primary survey for rehabilitation and resettlement baseline were carried out during February, March and September 2020 as per the specified guidelines. During the survey, M/s Vimta Labs carried out primary household survey and census surveys of Project Affected Families (PAFs), Focus Group Discussions (FGD) and in-depth interviews in all affected villages. PP also reported that there will be no displacement of homesteads and no. of Project Affected Persons (PAPs) is 1768. PP submitted that the compensation and rehabilitation & resettlement package as per the provisions of Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Act, 2013 and “The Madhya Pradesh Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Rules, 2015 and annual statement of rates (2019-20) as per the government of Madhya Pradesh (District Wise Market Valuation Guidelines 2019-2020 Amendment Date 21.06.2019) has been worked out. Total compensation to be paid is worked out to be Rs. 328 Crores. Entire payment will be made through cheque to concerned PAP. A detailed socio-economic household survey was conducted in all villages covering the proposed project area for generating the baseline socio-economic data as well as to carry out need assessment. PP proposed the following schemes, which may pave way for improving social status of the PAFs and may establish a regular income to them in future such as introducing Livestock Development Program, Sericulture, Women based small enterprise, Data entry and soft skills, Skill Training for the youth, Programs for Vulnerable Communities, Programs on Health, Education, etc. Swachh Bharat Mission, Water and Rural Infrastructure. PP submitted the action plan for three years with a budget of Rs 25.0 Lakhs.

Point (x): The Project Proponent shall revise the action plan for public hearing concerns raised by the public with a timeline of 3 years from the date of start of mining operations. PP shall allocate separate budget for the concerns of the local people in terms of health care facilities for COVID, betterment of schools nearby and to facilitate the online education system by providing Wi-Fi connectivity and desktops/tablets, infrastructure and environment protection.

Reply by PP: PP submitted the revised action plan for public hearing concerns raised by the public with a timeline of 3 years with a budget of Rs 105.0 Lakhs.

S. No	Thematic Area	Action Plan	Budget in lakhs		
			1 st year	2 nd year	3 rd year
1	Providing Drinking Water	Water Tank and safe drinking water supply in	2.0	2.0	2.0

Minutes of 49th EAC Meeting (Non-Coal Mining) held during 19th to 21st April, 2022

	Facility (Rs.31 Lakhs)	Govt. Schools			
		Bore well with submersible pumps	2.0	2.0	1.0
		Deepening / de-siltation of pond	3.0	3.0	3.0
		Water ATM	5.0	5.0	1.0
2	Health & Sanitation drive (Rs.15 Lakhs)	Health check-up camp	2.0	2.0	2.0
		Health awareness program in Schools and Anganwadi, Distribution of swatchhata kits, Sanitation & Bleaching of villages, school area.	1.0	1.0	1.0
		Health care facilities for COVID like establishment of isolation centers, free supply of face masks / sanitation kit etc	2.0	2.0	2.0
3	Promotion of sports (Rs.6 Lakhs)	Playground preparation and supply of sports equipment / kits etc.	1.0	1.0	1.0
		Promotion of sports tournament etc.	1.0	1.0	1.0
4	Livelihood and Skill development (Rs.12 Lakhs)	Skill development training on LMV / HMV Motor driving, motor windings, electrical fittings, AC and refrigerator repairing, two-four wheeler servicing and repairing, meson work, plumbing, bar windings, stitching & designing course for females, computer course etc.	2.0	2.0	2.0
		Training and infrastructure support for income generation program and entrepreneurship program to SHG and individual (Poultry, Goatry, shops etc.)	2.0	2.0	2.0
5	Rural	Construction of CC road	5.0	3.0	3.0

	Infrastructure Development (Rs.19 Lakhs)	/ drains etc			
		Repairing of school buildings, community building, stage, school boundary wall / toilet etc.	2.0	2.0	2.0
		Rain water Harvesting in schools.	-	1.0	1.0
6	Environment and Energy (Rs.9 Lakhs)	Installation of Solar street light	2.0	2.0	2.0
		Plantation of fruit bearing plants/fodder Seed distribution etc	1.0	1.0	1.0
7	Education Support (Rs.11 Lakhs)	Development of Model Anganwadi, School Buildings & furniture etc.	1.0	2.0	2.0
		Development of Library, Computer lab in Govt. School and furniture etc.	-	2.0	1.0
		Developing online education facility and wi-fi connection	1.0	1.0	1.0
8	Others (Rs.2.0 Lakhs)	Road Safety - Training on traffic rules & providing of fluorescent jackets etc	-	1.0	1.0
Total (Rs 105.0 Lakhs)			35.0	38.0	32.0

Point (xi): The Project Proponent should submit list of Schedule I species present in the study area duly authenticated by PCCF. The Project Proponent should submit the Approval of Wildlife Conservation Plan.

Reply by PP: PP reported that there is one Schedule-I species such as Indian Pea fowl found in the study area and PP submitted the list of Schedule-I species authenticated by PCCF (Wildlife). PP also submitted the approval of Wildlife Conservation Plan by PCCF (Wildlife) vide letter dated 25.03.2022 with a budget of Rs 5.0 Lakhs.

Point (xii): The Project Proponent needs to submit the copy of Grant of mining lease issued vide Lr no. F.3-35/2010/ 12/1 dated 25.09.2020. Also, the PP needs to submit the copy of Letter obtained from Department of Mines and Geology, Government of Madhya Pradesh as shown by PP during the meeting regarding presence of another lease area.

Reply by PP: PP submitted the copy of grant of mining lease issued vide Lr no. F.3-35/2010/ 12/1 dated 25.09.2020 for a period of 50 years over an area of 747.817 ha. PP

also submitted the copy of lease deed for grant of mining lease made by and between Department of Mines and Geology through the District Collector, Satna district, M.P. and M/s RCCPL Private Limited on 25-09-2020 for a period of 50 years over an area of 747.817 ha. Further, PP submitted the letter from the Office of the Directorate of Geology and Mining, Madhya Pradesh vide Lr No 2630/Khanji/vividh/Na.kr.141/2019 dated 27.02.2020 stating that the 1) No mining operations have been started by the lessee, M/s Reliance Cement Company Private Limited in the sanctioned area and no illegal excavation of any type has been done in the sanctioned area and 2) In village Rewra, lease area of 23.90 hect. is sanctioned to Mrs. Manju Singh legal heir of Mr. Gopal Sharan Singh, in which mining activities are being carried out in accordance to the approved Mining Plan, Environmental Clearance & air and water consent. A combined map of sanctioned areas to Reliance Cement Company Private Limited and Mrs. Manju Singh is enclosed. As per the map, sanctioned mining lease area sanctioned in the favour of Mrs. Manju Singh is located in the middle of the sanctioned mining lease area of the Reliance Cement.

4. Observation and Recommendation of the Committee:

The proposal for Environmental Clearance was considered in the 49th EAC (Non Coal Mining) meeting held during 19th- 21st April, 2022. After detailed deliberations made by the Project Proponent and the Consultant, the Committee noted that the railway line from Lalitpur to Singrouli passes through the mine lease area which is under construction and the Committee was of the view that since the Drilling and Blasting activities are proposed in mining operations, the Project Proponent should obtain the NOC from Railway Department for further appraisal of the project. Therefore, the Committee **deferred** the proposal for want of following additional information: -

- i. The Project Proponent should obtain the NOC from Railway Department as drilling and blasting activities are proposed in mining operations.
- ii. The Committee noted that as the drilling & blasting activity is proposed and the railway line from Lalitpur to Singrouli passes through the mine lease area which is under construction, the Project Proponent should carry out the scientific study from CIMFR or any other recognized institution of repute which is approved for carrying out such studies. The study should be clearly demonstrated that whether there are any adverse impacts and it can be controlled by adopting mitigative measures or not?
- iii. The Project Proponent shall submit the measures taken for strengthening of mine pit and protection of railway line which is passing through the mine lease area. PP needs to mention the proposed frequency of the train passing along with timing and also the time of blasting. PP should also submit the map demarcating

the railway line, railway boundary and safety distance left, distance of proposed working pit from railway line/railway boundary, mining zone within the mine lease area.

- iv. The Project Proponent needs to submit the scenario of pollution to be generated nearby the railway line passing through the mine lease area.
- v. The Committee noted that the reply of the additional details sought for point no.1 is not satisfactory wherein the PP has not projected the pollution scenario for transportation of mineral for the parameters SO₂ and NO_x and its incremental concentration with and without control measures and hence, PP needs to revisit the same and accordingly PP needs to submit the information.
- vi. The Project Proponent needs to submit the protection measures to be taken in compliance of the MoEF&CC Office Memorandum No. Z11013/57/2014-IA.II (M), dated 29th October, 2014.
- vii. The Project Proponent needs to submit the detailed comprehensive wildlife management plan by detailing the components involved and measures taken for protection of Schedule-I species.
- viii. The Project Proponent needs to submit the revised EMP budget for addressing the public hearing concerns related to infrastructure, health, education, pollution control and plantation in the buffer zone.
- ix. The Project Proponent shall increase the width of the plantation between the buffer zone and working pit to 180m.
- x. The Project Proponent shall ensure that the bund between the river shall be after the plantation where the Pit 11 and Pit 13 is indicated that the width is 8.5m and the total distance of the pit from the flood plain should be more than 60m.
- xi. The Project Proponent needs to submit the Progressive Mine Closure Plan targeting the areas which are away from the habitation.
- xii. The Committee noted that the proposal of installing crusher with a capacity of 400 TPH is not a part of TOR dated 09.07.2019. However, in Form 1 under (II) Activity S. No 1.5, PP has mentioned that 300 TPH crusher will be involved. Hence, PP needs to submit the actual capacity of crusher and needs to clarify whether the proposal of crusher is part of TOR or not and the impacts of crusher has been addressed in the public hearing or not? In EIA report (Ref C2-37), PP also mentioned that Wobbler of 300 TPH shall be considered with 2100

mm X 4500 mm with a separation size of 75 mm. PP needs to clarify whether mineral beneficiation is involved in the proposal or not?

2.4 Proposal for Environmental Clearance of M/s Rathore Cement Private Limited for mining of Limestone in Chenpura Limestone mine with production capacity of 0.5 MTPA of Limestone, no waste, no OB/IB, in the mine lease area of 12.0 Ha, located at Village – Chenpura, Tehsil & District Neemuch, Madhya Pradesh – [File No: IA-J-11015/31/2020-IA.II(M), Proposal No: IA/MP/MIN/155912/2020, Consultant: R.K Consultants] - Environmental Clearance (EC)

EAC Meeting Details:

EAC meeting	49 th
Date of Meeting	19 th – 21 st April, 2022

The proposal of M/s Rathore Cement Private Limited is for mining of Limestone in Chenpura Limestone mine with production capacity of 0.5 MTPA of Limestone, no waste, no OB/IB, in the mine lease area of 12.0 Ha, located at Village – Chenpura, Tehsil & District Neemuch, Madhya Pradesh. The mine lease area is located between Latitude 24°32'28.14"N to 24°32'28.48"N and Longitude 74°46'07.08"E to 74°46'09.99"E. The mine lease area falls under the Survey of India Toposheet No: 45L/14 and falls in Seismic Zone-II. The Project Proponent presented the KML file during the presentation to indicate the location of mine lease on Google Earth.

2. M/s Rathore Cement Private Limited has made an online application vide proposal no: IA/MP/MIN/155912/2020 dated 11.03.2022 and submitted Form 2 and EIA report under the provisions of the EIA Notification, 2006. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals and falls under Category A of the schedule of the EIA Notification, 2006 as the instant proposal attracts the general conditions as the Interstate boundary of Rajasthan and Madhya Pradesh is located about 1.68 km, W from the mine lease area 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
04.06.2020	IA/MP/MIN/155912/2020	22 nd -24 th July, 2020	Terms of Reference for production of 0.5 MTPA Limestone no waste, no OB/IB, in the mine lease area of 12.0 Ha at Survey No 333/1, Chenpura Village, Tehsil & District Neemuch, Madhya Pradesh	10.08.2020

4. Details of Mine lease:

S.no	Prospecting License/Letter of Intent/Grant of Mine lease	Date of the grant	Name of the Mineral	Period of Grant	Granted by	Mine lease area in Ha
1	Prospecting License vide No. 2-26/2013/12/1	01.03.2014	Limestone	3 years (26.03.2014 to 25.03.2017)	Government of Madhya Pradesh	12.0
2	Letter of Intent for grant of mining lease vide No. F.3-59/2018/12/1	03.10.2018	Limestone	50 years	Government of Madhya Pradesh	12.0
3	Grant of mine lease vide F.3-59/2018/12/1	07.02.2020	Limestone	50 years	Government of Madhya Pradesh	12.0

5. Details of executed mine leases:

S.no	Date of grant of Lease execution	Period of Grant		Details
		From	To	
1	Date of entering into original lease deed.	20.03.2020	19.03.2070	PP submitted the lease deed executed between the Governor of Madhya Pradesh and M/s Rathore Cement Private Limited dated 11.03.2020 and registered vide Ref No: MP279462020A1228809 dated 20.03.2020 for a period of 50 years.

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

Private land	Nil
Government land	12.0 Ha
Total Mining lease area (MLA)	12.0 Ha
Private land for crusher, workshop & other infrastructure outside the MLA	Nil

6. Mining plan:

Mining Plan with Progressive	Letter No.	MP/Neemuch/Limestone/MPLN/G-
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Minutes of 49th EAC Meeting (Non-Coal Mining) held during 19th to 21st April, 2022

Mine Closure Plan approved by Indian Bureau of Mines,		07/19-20/3809
	Date	19.12.2019
	Validity	5 years
	Mine lease area	12.0 ha
	Mineral	Limestone
Mining Parameters	Quantitative Description	
Method of mining	Opencast mechanized method with drilling and blasting	
Geological Reserves	14.73 Million Tonnes	
Mineable Reserves	10.73 Million Tonnes	
Life of the Mine	22 years	
Bench Height	8.0 m	
Bench Width	Minimum bench width 8.0m (Bench width during excavation will be 25.0m)	
Individual bench slope	Individual bench slope will be 80 ^o from vertical	
Overall pit slope	45 ^o	
Dumpers capacity	20/25 Tons	
Transportation	PP submitted that the material will be loaded with the help of excavators into dumpers/tippers and transported to the cement plant located nearby by road.	
Topsoil	PP reported that small quantity of top soil will be encountered in crevices or pockets will be removed and will be simultaneously used for plantation. During the 1 st year 37.49 cu.m, 2 nd year 586.99 cu.m and in 3 rd year 266.94 cu.m of top soil will be generated.	
OB/IB & Waste	PP reported that there will be no OB/IB and no waste generation is envisaged during course of mining.	
Crusher	PP submitted that there is no proposal to install crusher within the mining lease area	
Mineral beneficiation	PP reported that no mineral beneficiation is required at the mine lease except sorting and removing of any rock or waste material. The ROM limestone lump after sizing and sorting is directly supplied to market	
Groundwater intersection	PP reported that the ground water table during the pre-monsoon is 396m AMSL and during the post - monsoon is 390m AMSL, whereas the ultimate pit level will be up to 406 mRL much above the level of ground water table and hence there will be no ground water intersection.	

7. Water requirement:

Total water requirement	7.0 – 8.0 KLD (Fresh water: 7.0 – 8.0 KLD, Treated water: Nil)	Drinking & Domestic	0.5 - 1.0 KLD
		Plantation	3.0 –3.5 KLD
		Dust Suppression	3.5 KLD
Source	Mine sump and nearby Villages through water tankers		
Permission	PP submitted the Certificate of Exemption for Ground Water		

	Withdrawal issued by Central Ground Water Authority (CGWA) vide Application No. 21-4/1158/MP/MIN/2021 which is valid from 01.09.2021 stating that as per information furnished by the applicant, M/s CHAINPURA LIMESTONE MINE SERVE NO. 333/1 comes under Micro and Small Enterprises category and has ground water withdrawal of less than 10 cum/day. As per S.O. 3289(E) dated 24/09/2020 by Department Of Water Resources, River Development and Ganga Rejuvenation, guidelines to regulate and control ground water extraction in India, 2020 Micro and small Enterprises drawing ground water less than 10 cum/day are exempted. The firm is exempted from seeking NOC. The firm shall install digital water flow meter on all ground water abstraction structures and maintain the logbook.
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8. Nearest village / town/ highway/railway station / water bodies:

Particulars	Particular's Name	Distance & Direction
Nearest Village	Chenpura	0.45 km, SW
Nearest Town	Neemuch	11.0 km, SE
Nearest State/ National Highway	SH 15	11.30 km, SSE
	NH 79	2.34 km, NEE
Nearest Railway line	100 m towards East from the mine lease area	
Nearest Water Bodies	Nayagaon Pond	2.20 km, NE
	Borkheri Pond	5.98 km, NE
	Ratheem Pond	6.45 km, NE
	Gujarkheri talak Pond	7.43 km, NE
	Daru Nadi	2.53 km, W
	Kadmali Nadi	9.90 km, NW

9. The Project Proponent reported that no forest land is involved in the mine lease area and in support of this PP submitted the letter issued by the Divisional Forest Officer vide Lr No. 451/2013/2019 dated 28.05.2013 and Forest Certificate, ID no. NEEM202109080176304 dated 08.09.2021 stating that there is no forest land involved in the mine lease area. PP reported that there are no National Park, Wildlife Sanctuary, Biosphere Reserves, Tiger/Elephant Reserves within the 10km radius of the study area. PP also submitted the letter from the Office of the Deputy Conservator of Forests, Wildlife, vide Lr No. Survey/DCF/2020-21/4181 dated 16.07.2021 stating that there is no any Wildlife Sanctuary within 10km radius. Further, PP reported that the following Reserve Forest/Protected Forest such as Bid Chaprol RF: 8.05 km, SW, Bid Charliya RF: 9.80 km, S and Motatok karunda PF: 8.45 km, SW are found within 10 km radius of the mine lease area.

10. The Project Proponent reported that the following Schedule-I species such as Peacock (*Pavo cristatus*), Monitor Lizard (*Varanus bengalensis*), Panther (*Panthera parades*) and Indian python (*Python molurus*). PP submitted the list of flora and fauna

authenticated from the Office of the Divisional Forest Officer General Forest Gandal, Neemuch (M.P.) vide Lr No 2021/34113 Neemuch, dated 16.07.2021.

11. Green belt/plantation details:

Proposed area for green belt/plantation	3.96 ha
No of saplings proposed	3,960 no.s
Budget for green plant & plantation till the end of life of mine.	Rs 10.0 Lakhs
Budget for nursery	Nil
Particulars for Green belt/plantation	Area covered (in Ha)
7.5 m barrier & non-mineralized zone	1.0 ha
50 m safety zone of nallah, roads, electric lines	-
500 m safety zones of nearest habitation villages	-
Additional information (if any)	2.96 ha on the mined out benches

12. Baseline detail:

The primary baseline data for specific micro-meteorology data, ambient air quality, waste quality, noise level, soil and flora & fauna has been collected during Post Monsoon Season i.e. October to December, 2020. The Monitoring results of ambient air, surface water, soil, ambient noise and ground water have been reported and no major divergence was observed with respect to concentration values of various parameters of collected samples.

Period	October to December, 2020				
AAQ parameters at 7 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	26.4	53.4	52.3	60
	PM10	60.9	88.6	86.8	100
	SO ₂	5.4	14.6	14.3	80
	NO _x	11.4	28.4	27.8	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
	PM10	84.6	4.0	88.6	100
	PM2.5	-	-	-	60
	SO ₂	-	-	-	80
	NO _x	-	-	-	80
Noise level at 7 locations	Day Time: 49.2 to 54.7 Leq dB (A) Night Time: 32.4 to 40.6 Leq dB (A)				
Ground water quality at 6 locations	PP reported that pH of collected water samples varied from 6.93-7.98. Electrical conductivity ranged between 560 - 1510 $\mu\text{mhos}/\text{cm}$. Total hardness varied from 235-425mg/l. Total Dissolved Solids in				

Minutes of 49th EAC Meeting (Non-Coal Mining) held during 19th to 21st April, 2022

	the water samples ranged from 313 to 864 mg/l. Chloride ranged between 43-227 mg/l. Total Coliform & E-Coli were absent in the samples analysed. The ground water samples comply to the standards (IS: 10500-2012) and are good for public health.
Soil quality at 6 locations	PP reported that pH in the soil water extract (1:25) ranges from 8.05 to 8.65 and all the samples are normal expect at mine lease. The soil texture found to be fine sand, sandy loam, loam and also clay loam. The water holding capacity varied from 27.41 to 36.83 percent and well correlated with their texture. The percentage of organic carbon was found to be in the range of 0.43 to 1.21 i.e. low to low in general, exception for two samples which has 1.21% & 1.13% i.e., high. The available phosphorous were ranged from 1.4 to 3.0 mg/kg. The available potash found to be in the medium range i.e., 71 -181 mg/kg.
Traffic Survey	PP reported that traffic survey has been conducted on Chainpura Village road which connects the lease area to the major surrounding villages like Chainpura, Bamanbardi, etc. Traffic density measurements were made continuously for 24 hours by visual observation and counting of vehicles under three categories, viz., heavy motor vehicles, light motor vehicles and two/three wheelers. The traffic density on the surrounding roads of the mine site is very low and capable of handling of increased traffic. Level of Service is 'B' at current PCU levels with and without mining i.e. excellent and it remains at level "B" after 10 years with a increase in traffic @ 8% which refers to very good with mining. Thus, due to mining operations even after 10 years, the Level of service is acceptable.

13. Public Hearing (PH) Details:

Advertisement for PH with date	23.09.2021
Date of PH	26.10.2021
Venue	Government Primary School, Village Chainpura
Chaired by	Additional District Magistrate, Neemuch
Main issues raised during PH	Plantation, CSR activity and Employment.
Budget proposed for addressing issues raised during PH	Rs 12.0 Lakhs

14. Rehabilitation & Resettlement:

R & R details	NIL
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15. Court case details:

Court Case	PP submitted that there is no any Court Cases pending against the project and/or land in which the project is proposed to be set up.
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16. Affidavit/Undertaking details:

<p>Affidavit in a Non-Judicial stamp paper of Rs 100 bearing AZ 512271 dated 04.03.2022</p>	<p>i. The project/activity pertaining to the mining lease has not been in violation of the judgment of Hon'ble Supreme Court dated 2nd August 2017 in writ Petition (Civil) No. 114 of 2014 in the matter of common cause versus Union of India & Ors.</p> <p>ii. No illegal mining activity has been or is being carried out in the mining lease area in violation of the Mines and Minerals (Development and Regulation) Act, Water (Prevention and Control of Pollution) Act, 1974, Air (Prevention and Control of Pollution) Act, 1981, Environment (Protection) Act, 1986 and other relevant laws and timely permissions, clearances and approvals.</p>
<p>Project Proponent submitted an Undertaking</p>	<p>The conditions laid down in Terms of Reference prescribed by MoEF&CC, New Delhi, vide Lr No. J-11015/31/2020-IA.II (M) dated 10.08.2020 in favor of M/s Rathore Cement Pvt Ltd have been complied with, and the data submitted and the information presented in this report are factually correct.</p>
<p>Consultant submitted an Undertaking</p>	<p>The Consultant submitted an undertaking to the effect that the Terms of Reference prescribed by MoEF&CC, New Delhi vide Letter No. J-11015/31/2020-IA.II (M) dated 10.08.2020 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.</p>

17. Details of the EMP:

Activities	Capital cost (Rs Crores)	Recurring cost (Rs Lakhs/annum)
Pollution Control Air (water sprinkling for dust suppression)	0.05	1.0
Pollution Monitoring a. Air sampling stations & analysis b. Water Quality Analysis c. Noise & Vibration Monitoring d. Soil Quality Analysis	0.03	1.20
Greenbelt development (Tree Guards, Re-sapling Plantation & Its Maintenance etc.)	0.10	1.20
Public Hearing action plan	0.12	2.0
Maintenance of approach Road	-	2.0
Occupational Health & Safety	-	1.10

Total	0.30	8.50
Conservation Plan for Schedule I Fauna	0.15	1.50
Grand Total	0.45	10.0

18. Details of project cost and employment:

Particulars	(Rs. In Crore)
Capital Cost for Environment Protection	0.05
Budget for addressing the Public Hearing issues	0.12
Total Cost for EMP	0.45
Recurring Cost for EMP	0.095
Project Cost	5.60
Employment	9 persons

19. Observation and Recommendation of the Committee:

The proposal for Environmental Clearance was considered in the 49th EAC (Non Coal Mining) meeting held during 19th- 21st April, 2022. After detailed deliberations made by the Project Proponent and the Consultant, the Committee noted that the railway line is running parallelly towards 100m on the eastern side and the Committee was of the view that since the drilling and blasting activities are proposed in mining operations, the Project Proponent should obtain the NOC from Railway Department for further appraisal of the project. The Committee also noted that the sensitive man made land use such as Govt. Sr. Sec. School and Primary Health Centre located in Village Chenpura at a distance of about 0.45 km, SW and PP has not presented the protection measures to be taken. The Committee observed that the Consultant has not carried out the air quality modeling for worst case scenario and pH of the soil at the mine site found to be strongly alkaline (8.65). The Committee also observed that the PP has not submitted the time bound actionable budget and also PP needs to revise the EMP budget. Therefore, the Committee **deferred** the proposal for want of following additional information: -

- i. The Project Proponent should obtain the NOC from Railway Department as drilling and blasting activities are proposed in mining operations.
- ii. The Committee noted that as the drilling & blasting activity is proposed and the railway line is running parallelly towards 100m on the eastern side, the Project Proponent should carry out the scientific study from CIMFR or any other recognized institution of repute which is approved for carrying out such studies. The study should be clearly demonstrated that whether there are any adverse impacts and it can be controlled by adopting mitigative measures or not?

- iii. The Project Proponents shall submit the measures taken for strengthening of mine pit and protection of railway line running parallelly towards 100m on the eastern side. PP needs to mention the frequency of the train passing along with timing and also the time of blasting. PP should also submit the map demarcating the railway line, railway boundary and safety distance left, distance of proposed working pit from railway line/railway boundary, mining zone within the mine lease area.
- iv. The Project Proponent needs to submit the justification for selection of environment monitoring station for air, water, noise and soil. PP needs to submit the soil conservation measures as the pH of the soil at mine site found to be Strongly alkaline (8.65).
- v. The Project Proponent needs to carry out the impact assessment by considering all the mining activity and should indicate the capacity considered for predication of air quality modeling. The control case and worst-case scenario needs to be demonstrated with controlling factor and GLCs values for all the pollutants needs to be clearly mentioned. The input parameters used for the modeling also needs to be submitted.
- vi. The Project Proponent needs to submit the protection measures to be taken in compliance of the MoEF&CC Office Memorandum No. Z11013/57/2014-IA.II (M), dated 29th October, 2014.
- vii. The Project Proponent needs to revise the EMP cost and should submit the activity wise time bound actionable budget with its efficacy. PP should assign the recurring cost on the EMP cost to be spent every year.
- viii. The Project Proponent shall revise the budget of public hearing concerns raised by the public with a timeline of 3 years from the date of start of mining operations. PP shall allocate separate budget for the concerns of the local people in terms of health care facilities for COVID, betterment of schools nearby and to facilitate the online education system by providing Wi-Fi connectivity and desktops/tablets, infrastructure and environment protection.
- ix. The Committee noted that the instant proposal falls between the interstate boundary of Rajasthan and Madhya Pradesh located at a distance of about 1.68 km, W from the mine lease area. As the environmental study area of the buffer zone falls within 10 km radius, PP needs to submit the details of the local people participated in the public hearing from both the States of Rajasthan and Madhya Pradesh.

- x. The Project Proponent reported that the following Schedule-I species such as Peacock (*Pavo cristatus*), Monitor Lizard (*Varanus bengalensis*), Panther (*Panthera pardus*) and Indian python (*Python molurus*). Hence, the PP needs to submit the approval of Wildlife Conservation Plan.
- xi. The Project Proponent needs to revise the authenticated list of flora and fauna obtained from the Office of the Divisional Forest Officer General Forest Gandal, Neemuch (M.P.) vide Lr No 2021/34113 Neemuch, dated 16.07.2021 by mentioning the type of Schedule species found in the study area of 10 km radius.
- xii. The Project Proponent needs to submit the detailed greenbelt/plantation plan in tabular format (year wise for entire life of mine) with proper time bound capital and recurring cost. Entire plantation shall be carried out by planting the seedling of 10 ft height with at least 90% survival rate and the entire peripheral plantation and the safety barrier plantation shall be completed within 6 months from the start of mining operations. PP shall undertake atleast 40% of fruit bearing trees. 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. An undertaking in this regard needs to be submitted by PP.
- xiii. The Project Proponent needs to submit the English version of minutes of public hearing as per the TOR compliance of Point No. 47, d).

2.5 Proposal for Environmental Clearance of M/s Shubhangi Amol Nagpure for mining of Manganese in Bhilapar Manganese mine with production capacity 15,000 TPA (ROM) + OB: 528 TPA + Topsoil: 34.56 TPA (Total excavation: 15,562.56 TPA) in the mine lease area of 13.218 ha (Block II) out of 19.259ha, located at Khasra No.68, 69, 70, 71, 72/1, 72/2, 74/14, 75, 76, 80, 82, 86 at Village Bhilapar, Tehsil Sausar, District- Chindwara, Madhya Pradesh – [File No: IA-J-11015/106/2018-IA-II(M), Proposal No: IA/MP/MIN/77234/2018, Consultant: Perfect Enviro Solutions Pvt Ltd.] – Reconsideration of EC

EAC Meeting Details:

EAC meeting	49 th
Date of Meeting	19 th – 21 st April, 2022

The proposal of M/s Shubhangi Amol Nagpure for mining of Manganese in Bhilapar Manganese mine with production capacity of 15,000 TPA (ROM) + OB: 528 TPA + Topsoil: 34.56 TPA (Total excavation: 15,562.56 TPA) in the mine lease area of 13.218 ha (Block II) out of 19.259ha, located at Khasra No.68, 69, 70, 71, 72/1, 72/2, 74/14, 75, 76, 80, 82, 86 at Village Bhilapar, Tehsil Sausar, District- Chindwara, Madhya Pradesh. The mine lease area is located between Latitude: 21°35'30.41"N to 21°35'43.30"N and Longitude: 78°56'11.63"E to 78°56'44.78"E. The mine lease area

falls under the Survey of India Toposheet No: 55K/14 (OSM no.F44M14), 55O/2 (OSM no.F44MN2), 55K/15 (OSM no.F44M15) & 55O/3(OSM no.F44N3) and falls in Seismic zone-II. The Project Proponent presented the KML file during the presentation to indicate the location of mine lease on Google Earth.

2. M/s Shubhangi Amol Nagpure has made an online application vide proposal no: IA/MP/MIN/77234/2018 dated 31.03.2020 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 falls under Category A of the schedule of the EIA Notification, 2006 as the instant proposal attracts the general conditions as the Interstate boundary of Maharashtra & Madhya Pradesh falling adjacent to mine lease area in south direction and appraised at Central level.

3. The proposal was earlier considered in the EAC (Non-coal mining) held during 28-29, May and 1st June, 2020 wherein the Committee returned the proposal in the present form and warned the consultant to take due care while filling up the form and submitting information to the Ministry.

4. Now, the Project Proponent resubmitted the proposal vide online proposal no: IA/MP/MIN/77234/2018 dated 21.03.2022 along with information sought by the EAC in its meeting held during 28-29, May and 1st June, 2020 and accordingly the proposal was reconsidered in the 49th EAC (Non Coal Mining) meeting held during 19th – 21st April, 2022 wherein the PP submitted the following: -

Point (i): The Form-2 was not duly filled.

Reply by PP: PP has submitted the revised Form-2.

Point (ii): Copy of ToR was not attached with Form-2 in the online portal.

Reply by PP: PP submitted the copy of Terms of Reference (ToR) issued by the Ministry vide Lr No. IA-J-11015/106/2018-IA-II(M) dated 19.11.2018 for Bhilapur Manganese Mine of M/s Shubhangi Amol Nagpure for proposed production capacity of 15,000 TPA in the mine lease area of 19.257ha located at Village Bhilapar, Tehsil Sausar, District Chhindwara, State: Madhya Pradesh in PARIVESH portal. PP also submitted the copy of amendment in ToR dated 19.11.2018 issued by the Ministry vide Lr No. IA-J-11015/106/2018-IA-II(M) dated 04.10.2019 w.r.t. change in mine lease area from 19.257 ha to 19.259 ha.

Point (iii): The attachments uploaded on the portal are not legible.

Reply by PP: PP submitted that due to size limitation, the documents uploaded were not eligible. PP has reuploaded the documents in the PARIVESH portal.

Point (iv): The public hearing proceedings were not properly uploaded online.

Reply by PP: PP has properly submitted the public hearing proceedings held on 29.02.2020 in the PARIVESH portal.

Point (v): No authenticated list of Schedule-I species has been submitted;

Reply by PP: PP reported that there are no Schedule-I species in the study area. PP submitted the list of flora and fauna authenticated from the DFO, South Chhindwara vide letter dated 24.12.2021.

Point (vi): The conservation plan prepared for the schedule-I species is very generic in nature and did not get approve from the Competent Authority.

Reply by PP: PP reported that there are no Schedule-I species in the study area. PP submitted the list of flora and fauna authenticated from the DFO, South Chhindwara vide letter dated 24.12.2021.

Point (vii): It was reported that the Pench National Park is located at a distance of the 5.75 Km from the mine lease boundary. However, there is no authenticated map showing the boundary of the ESZ, distance from the National Park, whether the mining lease falling within the ESZ or not; etc. not been submitted. The authenticated map showing the boundary of ML, National Park and ESZ shall be submitted for drawing the requirement of the clearance from NBWL.

Reply by PP: PP reported that there is no National Park and Wildlife Sanctuary within the 10 km of buffer area and in support of this PP submitted the authenticated map and letter dated 20.09.2021 issued by the Deputy Director of Pench Tiger Reserve showing that the minimum distance from Pench National Park from the mine lease area is 14.341 km and minimum distance from Mansinghdeo Wildlife Sanctuary from the mine lease area is 11.191 km.

Point (viii): The proposed mining in Block –II is bounded by the nallah in North, West and south directions. However, no protection measures against the nallah has been clearly demarcated. The committee desired to demarcate the protection measures inter alia including the protection bund; plantation on the embankment; plantation all along the boundary of Mining lease area in the first year of mining operations; garland drains; retaining / Toe walls; etc. superimposed on the mine development plan along with the implementation time line and budgetary provisions.

Reply by PP: PP submitted that the in Block II where mining is proposed is surrounded by ephemeral streams from north direction, south direction, and west direction. There is

least likelihood that the mining in Block II will have adverse impact in the surface water of the ephemeral nala. Manganese Dioxide is insoluble in water and inert to most acids except when heated. Further solubility of manganese compounds ranges from poorly soluble to soluble. The mine runoff can contaminate the surface water body to some extent. The mining in Block II is proposed from west to east in a phased manner. The lowest point in Block II is on the western end at about 399 mRL. The mining will commence from around 400 mRL and will proceed in the east direction. The general slope of the deposit is towards the south west, hence the arrangement will be made for arresting the rain water that may get drained towards the western side. The groundwater table in the lease area varies from 8 – 25m below general ground water level. Upto the end of the conceptual period as per present exploration the depth of the working will reach upto 397 mRL. The mining will continue towards the eastern side along the strike length initially upto 3 m depth and later upto deeper level depending upon further exploration in the area. PP proposed to construct wire crates of dimension 1m length x 1m width x 1.2m height along with a garland drain will be developed along the proposed mining pit towards the southern direction by leaving the 60m distance and towards the northern direction, so there will be no chance of contamination of surface water. The total length of the wire crate will be 1768.53 m. Mine runoff will not be allowed to pass from the lease area without sedimentation. The wire crates will be made along the pit from west to east in a phased manner within the first three years itself. Garland drains along with retaining walls will be constructed along the OB/soil dumps. The water from these drains will be channelized to the sump to be created on the south eastern side of the lease area. The water will be allowed to pass from the lease area after sedimentation and PP proposed to construct five garland drains. PP also submitted that two pits measuring each about 30m*10m*5m (LWD) are to be created in the western end of the lease area in Block-II for arresting the rainwater. These will also act as a water conservation pit and two sumps with dimension 10m length x 5m width x 3m depth will be created in the south direction of the dump area to arrest the silt. The water accumulated in these pits will be utilized as and when available for water sprinkling to suppress the dust and for green belts. The collected rain water in the pit will also be supplied to villagers for farming as per their request during the public hearing. The quality of the water will be monitored from time to time as per standard procedure. PP also submitted the map showing the location of the working pit. PP earmarked a budget of Rs 28.0 Lakhs for construction of Wire crates, Garland Drain, Sedimentation pit, sump and plantation on 7.5 boundary and Block III to be spent within the first three years.

Point (ix): As per the ToR conditions, the certificate from the DMG stating that no mining activity is carried by the PP shall be submitted along with the EMP. Though the PP informed that it has been obtained but it was not submitted along with the EMP uploaded online.

Reply by PP: PP has submitted the letter from DMG, Chhindwara vide letter no :- M.P. No. 877/Mu.Li./khani sakha/2019 dated 13th May 2019 stating that no mining has been carried out by PP in the mine lease area and PP uploaded the same in the PARIVESH portal.

Point (x): It was mentioned that the water requirement will be met from the Panchayat Bore well. However, copy of the approval has not been submitted.

Reply by PP: PP submitted that the total water requirement is 14.0 KLD which will be sourced from bore well for which NOC from CGWA has been obtained vide Lr no. CGWA/NOC/MIN/ORIG/2021/11253 for ground water abstraction of fresh water 14.0 KLD which is valid from 05.03.2021 to 04.03.2023.

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

Date of application	Proposal No	Consideration	Details	Date of accord
31.08.2018	IA/MP/MIN/77234/2018	September 28-29, 2018	Terms of Reference for proposed production capacity of 15,000 TPA in the mine lease area of 19.257 ha	19.11.2018
16.07.2019	IA/MP/MIN/77234/2018	July 30-31, 2019	Amendment in ToR dated 19.11.2018 w.r.t. change in mine lease area from 19.257 ha to 19.259 ha	04.10.2019

6. The Project Proponent submitted that the Letter of Intent (LoI) was granted by Mineral Resources Department, Bhopal, M.P. vide Letter no. F-3/38/2004/12/2 dated 12.06.2007 over an area of 21.935ha and the lease was not executed then due to local issues and land falling within 250m perimeter of the forest boundary. Subsequently compartments no. 77 and 81 were reduced from the mine lease area by State Government and consequently lease deed for an area of 19.257 Ha was executed on 11.01.2017 by the Office of the Collector (Mnes), Chhindwara District, Madhya Pradesh vide letter no [REDACTED] /958 / [REDACTED] /2017 dated 31.06.2017. PP had submitted the copy of letter no SI.No/958/mining office/2017 Chhindwara dated 13.05.2017 from the Disst Mine Officer, Office of the Collector(Mines Division), District Chhindwara, Madhya Pradesh. Stating that earlier Mineral Resources Government of M.P., Bhopal vide order No. F3-38/2004/12/2 Bhopal, dated 09.06.2008 had sanctioned mining lease of mineral manganese in various khasaras, in an area of 21.935 ha for a period of 30 years in village Bhilapar. In accordance with that order you had submitted approved mining plan but due to some

small Jhars falling in some Khasras, the execution of lease deed could not be done. As per the recommendations made in the meeting convened by Divisional Commissioner on 11.01.2017 for considering sanction of mining lease falling within 250m from the forest boundary, government issued amended order dated 11.01.2017 for sanctioning mining lease in an area of 19.259 ha and directed execution and submission of an affidavit along with all necessary documents. Also directed to submit the copy of the registered lease deed etc., PP submitted the mine lease deed executed on 11.01.2017 for a period of 50 years i.e., till 10.01.2067 over an area of 19.259 ha. PP also submitted that the mine lease area of 19.259 ha comprises of three blocks Block I: 5.604 ha, Block II - 13.218 ha and Block III - 0.437ha. Further, PP reported that at the time of grant of Lol the lease had two old existing pit and two OB dumps of low grade Manganese Ore in the mine lease area. PP submitted the letter from DMG, Chhindwara vide letter no :- M.P. No. 877/Mu.Li./khani sakha/2019 dated 13th May 2019 stating that no mining has been carried out by PP in the mine lease area. PP earmarked a budget of Rs 28.0 Lakhs for construction of Wire crates, Garland Drain, Sedimentation pit, sump and plantation on 7.5 boundary and Block III to be spent within the first three years.

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

Private land	19.259 ha
Government land	Nil
Total Mining lease area (MLA)	19.259 ha
Private land for crusher, workshop & other infrastructure outside the MLA	NA
Additional information (if any)	PP reported that total mine lease area is 19.259 ha, out of which 13.599 ha of land has already been acquired and consent has been obtained for remaining area of 5.66 ha. However, only 3.627 ha area falling in Block II will be acquired by paying due compensation as per rule.

8. Mining Plan details:

Review of Mining Plan approved by Indian Bureau of Mines	Letter No.	MP/Chhindwara/Manganese/RMP-69/2021-22/152
	Date	04.02.2022
	Mine lease area	19.259 ha
	Mineral	Manganese
	Validity	2022-23 to 2026-27
Mining Parameters	Quantitative Description	
Method of Mining	Opencast mechanized mining with drilling & blasting	
Geological Reserves	50,100 Tons	

Minutes of 49th EAC Meeting (Non-Coal Mining) held during 19th to 21st April, 2022

Mineable Reserves	33,600 Tons
Life of mine	6 years (Note: The life of Mine will be changed after detailed exploration)
Bench Height	3m (working bench)
Bench Width	6m (working bench)
Individual bench slope	< 90° as per present exploration data
Overall pit slope	< 45° deg
RoM output size	+25 mm
Crusher	There is no proposal of installing crusher within the mine lease area.
Transportation details	The broken material will be transported using 3 no.s of 12-15 tons capacity Dumpers. The ROM from the mine will be transported via village road kharanja (partly metalled) of length 3.13 km to 14 km long tinkheda chaurai metalled road which will ultimately meet in the SH 19 and to various destinations.
Dumpers capacity	12-15 tons
OB/IB/SB and Soil	PP reported that during plan period of 5 years, about 1127.50 Tons of OB and 77.40 Tons of soil will be generated which will be stacked separately. The OB/Waste generated will be stacked during the plan period and subsequent years towards the South in Block II. The soil will be utilized for plantation purpose.
Groundwater intersection	PP reported that the mining will not intersect the ground water table. The mining will be carried out initially only upto 3m which will further go down after further exploration. The groundwater table in the area is varies from 10 to 12 m bgl as per review of mining plan. However, in case water table is likely to be intersected during future mining, approval from CGWA will be obtained before undertaking mining activity.
Additional information (if any)	PP also submitted that no mining is proposed in Block I: 5.604 ha and Block III: 0.437ha

9. Water requirement:

Total water requirement	14.0 KLD	Dust suppression	8.0 KLD
		Greenbelt/Plantation	5.0 KLD
		Drinking & Domestic	1.0 KLD
Source	Borewell		

Permission	PP submitted that NOC from CGWA has been obtained vide Lr no. CGWA/NOC/MIN/ORIG/2021/11253 for ground water abstraction of fresh water 14.0 KLD which is valid from 05.03.2021 to 04.03.2023.
Additional information (if any)	Accumulated rain water in the pit will also be used for dust suppression and plantation

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

Particulars	Particular's Name	Distance & Directions
Nearest Town	Sausar	15 km, NW
Nearest Road/Highway	Tinkheda Chaurai road NH-268	1.64 km, NW 12.60 km, SW
Nearest Railway station	Lodhikhera Railway Station	7.3 km, SW
Nearest Water bodies	Kanhan River	4.91 km, SW

11. The Project Proponent reported that there is no forest land involved in the mine lease area. PP reported that there is no National Park and Wildlife Sanctuary within the 10 km of buffer area and in support of this PP submitted the authenticated map and letter dated 20.09.2021 issued by the Deputy Director of Pench Tiger Reserve showing that the minimum distance from Pench National Park from the mine lease area is 14.341 km and minimum distance from Mansinghdeo Wildlife Sanctuary from the mine lease area is 11.191 km. During the EAC meeting held on 19th-21st April, 2022, PP informed that mine lease area is outside the ESZ of Pench National Park at a distance of about 5.75 km, E. PP submitted that National Board of Wildlife Clearance is not applicable for the project. As per Final Notification of MoEF&CC Notification vide S.O. 3029 (E) dated 13.09.2017 of Eco-sensitive Zone around Pench National Park and the Mansinghdeo Wildlife Sanctuary in the State of Maharashtra, the Eco-sensitive Zone is spread over an area of 419.40 square kilometres with an extent varying from 0.12 to 9.5 kilometres from the boundary of the Pench National Park and Mansinghdeo Wildlife Sanctuary in the State of Maharashtra except the portion sharing the inter-State boundary with Madhya Pradesh and Zero extent is mentioned towards the boundary adjoining the State of Madhya Pradesh.

12. The Project Proponent reported that there are no Schedule-I species in the study area. PP submitted the list of flora and fauna authenticated from the DFO, South Chhindwara vide letter dated 24.12.2021.

13. Baseline detail:

The primary baseline data for specific micro-meteorology data, ambient air quality, waste quality, noise level, soil and flora & fauna has been collected during Post Monsoon Season i.e., October to December, 2020. The Monitoring results of ambient

Minutes of 49th EAC Meeting (Non-Coal Mining) held during 19th to 21st April, 2022

air, surface water, soil, ambient noise and ground water have been reported and no major divergence was observed with respect to concentration values of various parameters of collected samples.

Period	October to December, 2020				
AAQ parameters at 7 locations	Pollutant	Min, µg/m ³	Max, µg/m ³	98 %ile, µg/m ³	Standard, µg/m ³
	PM2.5	29.0	45.5	45.1	60
	PM10	55.5	93.5	92.3	100
	SO2	4.2	8.6	8.4	80
	NOx	12.7	22.9	22.8	80
AAQ modelling (Incremental GLC)	Pollutant	Baseline Concentration, µg/m ³	Incremental Concentration, µg/m ³	Total GLC, µg/m ³	Standard
	PM10	64.5	1.5	66.0	100
	PM2.5	33.3	0.9	34.2	60
	SO2	6.8	0.4	7.2	80
	NOx	16.2	5.5	21.7	80
Noise level at 9 locations	Day Time: 64.4 to 74.2 Leq dB (A) Night Time: 47.7 to 64.4 Leq dB (A)				
Ground water quality at 6 locations	PP reported that pH of collected water samples varied from 6.6-8.0. Electrical conductivity ranged between 242.9 - 1164 µmhos/cm. Total hardness varied from 204-267 mg/l. Total Dissolved Solids in the water samples ranged from 121.6 to 582 mg/l. Chloride ranged between 12-86 mg/l. PP also reported that Total Dissolved Solids, Total Hardness, Fluoride, Magnesium and Alkalinity exceeds the drinking water standards IS:10500.				
Surface water quality at 6 locations	PP reported that the overall surface water quality can be considered in surface water quality criteria class of water 'D' & 'E' i.e., Propagation of Wildlife and Fisheries & Irrigation, Industrial Cooling, Controlled Waste Disposal.				
Soil quality at 7 locations	PP reported that texture of the soil is clay loam in core zone and clay to sandy loam in buffer zone. pH ranges between 6.2- 6.6 in core zone and 5.9 to 8.2 in buffer zone. Primary nutrient profile shows that soil is low in fertility due to the availability of low amount of Nitrogen and Potassium. So, the addition of bio fertilizers will enhance the fertility of soil.				
Traffic Survey	PP reported that the traffic study was done in the nearby road ascertain the present traffic on the road and addition of traffic due to the "Bhilapar Manganese Mine" project. The carrying capacity of the road (Tinkheda Churai Road) is much higher than the proposed traffic volume. Therefore, the traffic to & fro of the proposed project will not create any traffic congestion.				
Revalidation of Baseline data	PP submitted the revalidation of baseline data for one month carried out during December 2021.				

14. Public Hearing (PH) Details:

Advertisement for PH with date	Dainik Bhaskar & Patrika on 30.01.2020
Date of PH	29.02.2020
Venue	Within the mining lease area, Bhilapar
Chaired by	Shri Rajesh Shahi (Additional Collector, Chhindwara) Dr Avinash Chandra Karera (Regional Officer, M.P Pollution Control Board, Chhindwara), Shri Manish Palewar (Mining Officer)
Main issues raised during PH	Damage to Flora and Fauna, Employment to locals, Cultivable land may be destroyed and grant of another piece of land in lieu of NOC given.
Budget proposed for addressing issues raised during PH	Rs 4.85 lakhs

15. Rehabilitation & Resettlement:

R & R details	PP reported that there is no habitation in the lease area therefore Rehabilitation & Resettlement (R&R) will not be applicable.
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16. Court case details:

Court Case	PP submitted that there is no any Court Cases pending against the project and/or land in which the project is proposed to be set up.
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17. Affidavit/Undertaking details:

Affidavit in a Non-Judicial stamp paper of Rs 100 bearing TN 807220 dated 15.09.2018	PP shall comply with all the statutory requirement and 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 a Commitment letter	PP shall commit the implementation of Environment Management Program including Environmental Monitoring Program and recommendations of the additional studies, if any, in the specified time frame and allocation of the required funds included.
Consultant submitted an Undertaking	The Consultant submitted an undertaking stating that the report is prepared in accordance with a robust quality management system adopted by EIA consulting organisation for the EIA process and the prescribed ToR

	have been complied with and that the data submitted is factually correct.
Plagiarism/ QMS Certificate	The Consultant submitted that the report is prepared in accordance with a robust quality management system adopted by EIA consulting organisation for the EIA process including methodologies used to ensure completeness, relevance, authenticity and consistency.

18. Details of the EMP:

Activities	Capital cost (Lakhs)	Recurring cost (Lakhs/annum)
Pollution Control Including water sprinkling, wirecrates, drains, water tanker, Sedimentation pits, sump etc	34.0 (Cost will be spent within three years)	5.0
Pollution Monitoring (Separately provide break-up)	-	4.57
Occupational Health	-	4.8
Green Belt	4.0	3.5
Haul Road Maintenance	-	3.0
Others (social activities) (Separately provided break-up)	4.85	-
TOTAL	42.85	20.87

20. Details of project cost and employment:

Particulars	(Rs. In Lakhs)
Capital Cost for Environment Protection	42.85
Budget for addressing the Public Hearing issues	4.85
Total Cost for EMP	63.72
Recurring Cost for EMP	20.87
Project Cost	Rs 150
Employment	23 Persons

21. Observation and Recommendation of the Committee:

The proposal for Environmental Clearance was considered in the 49th EAC (Non Coal Mining) meeting held during 19th- 21st April, 2022. After detailed deliberations made by the Project Proponent and the Consultant, the Committee **recommended** the proposal for grant of Environmental Clearance for M/s Shubhangi Amol Nagpure for mining of Manganese in Bhilapar Manganese mine with production capacity of 15,000 TPA (ROM) + OB: 528 TPA + Topsoil: 34.56 TPA (Total excavation: 15,562.56 TPA) in the mine lease area of 13.218 ha (Block II) out of 19.259ha, located at Khasra No.68, 69, 70, 71, 72/1, 72/2, 74/14, 75, 76, 80, 82, 86, at Village Bhilapar, Tehsil Sausar, District-Chindwara, Madhya Pradesh subject to the following specific conditions in addition to the standard EC conditions applicable for non-coal mining projects:

- i. The Environmental Clearance will be functional only after obtaining the revised approved mine plan from the Indian Bureau of Mines (IBM) for restricted area of Block II i.e 13.218 ha out of 19.259ha.
- ii. The Environmental Clearance will be valid till the life of the mine i.e., 6 years.
- iii. The mining activity will be restricted to Block II: 13.218 ha only. No mining activity will be allowed in Block I: 5.604 ha, and Block III: 0.437ha.
- iv. The Project Proponent shall strictly adhere to the protection measures proposed for protection of nalah in Block –II in North, West and South directions and shall implement the plan within 3 years from the start of mining operations. PP shall submit the status of implantation plan along with the half yearly compliance report to the Ministry's Integrated Regional Office.
- v. The budget of Rs 4.85 Lakhs to address the concerns raised by the public including in the public hearing to be completed within 3 years from the date of start of mining operations. PP shall comply with all action plans made for public hearing concerns and make regular maintenance and record the progressive activity outcomes.
- vi. The Project Proponent shall strictly follow the mitigation measures provided in MoEF&CC Office Memorandum No. Z-11013/57/2014-IA.II(M), dated 29thOctober, 2014.
- vii. The Project Proponent shall undertake the plantation by planting the seedling of 10 ft height with at least 90% survival rate and the entire peripheral plantation and the safety barrier plantation shall be completed within 6 months from the start of mining operations. The casualties of each year shall be replaced every year with new saplings and such number of saplings shall not be counted in the

number of saplings proposed to plant in that year. The data for such saplings should be furnished during six monthly compliance report along with the progressive plantation. PP shall undertake the progressive bench plantation up to HFL for eco restoration of water bodies.

- viii. The Project Proponent shall also organize employment-based apprenticeship/ internship training program every year with appropriate stipend for the youth and other programs to enhance the skill of the local people. The data should be maintained for the training imparted to the persons and the outcome of the training, for the assessment of the training program should be analyzed periodically and improved accordingly.

2.6 Proposal for Environmental Clearance of M/s Prabodh Mohanty for KJST Iron Ore & Bauxite Mine with expansion in Iron Ore production Capacity from 2.0169 to 2.80 MTPA ROM (2.41 MTPA Iron Ore + 0.39 MTPA mineral Reject), Iron Ore waste 1.50 MTPA, Top Soil 0.008 MTPA and Bauxite Production Capacity 0.13 MTPA (ROM), Bauxite waste 0.10 MTPA (Total Excavation: 4.538 MTPA) along with 3 crushing unit (2 existing & 1 proposed) and 5 screening units (3 existing & 2 proposed in the mine lease area of 188.523 ha (Stage-II FC available) out of 188.268 ha, located at Villages Kalmanga, Jaldihi, Sidimba and Tantigram, Tehsil: Koira, District: Sundergarh, Odisha - File No: J-11015/121/2011-IA.II(M), Proposal No: IA/OR/MIN/7291/2011; Consultant: JM EnviroNet Pvt Ltd] - Reconsideration of EC

EAC Meeting Details:

EAC meeting	49 th
Date of Meeting	19 th – 21 st April, 2022

The proposal of M/s Prabodh Mohanty is for grant of Environmental Clearance for KJST Iron Ore & Bauxite Mine with expansion in Iron Ore production capacity from 2.0169 to 2.80 MTPA ROM (2.41 MTPA Iron Ore + 0.39 MTPA mineral Reject), Iron Ore waste 1.50 MTPA, Top Soil 0.008 MTPA and Bauxite Production Capacity 0.13 MTPA (ROM), Bauxite waste 0.10 MTPA (Total Excavation: 4.538 MTPA) along with 3 crushing unit (2 existing & 1 proposed) and 5 screening units (3 existing & 2 proposed within the mine lease area of 188.523 ha (Stage-II FC available) out of 188.268 ha, located at Villages Kalmanga, Jaldihi, Sidimba and Tantigram, Tehsil: Koira, District: Sundargarh, Odisha. The mine lease area is located between Latitude 21°51'03.36" N to 21°51'58.28" N & Longitude 85°14'00.58" E to 85°15'08.91" E. The mine lease area falls within the Survey of India Topo-sheet No. F45N1 & F45N5 and falls in seismic zone-II. The Project Proponent presented the KML file during the presentation to indicate the location of mine lease on Google Earth.

2. The Project Proponent has made an online application vide proposal no. IA/OR/MIN/7291/2011 dated 08.12.2021 and submitted Form-2 & 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 falls under Category "A" as the mining lease area is greater than 100ha and appraised at the Central level.

3. The proposal was earlier considered in the 44th EAC (Non-Coal Mining) meeting held during 28th – 29th December, 2021. After detailed deliberations made by the Project Proponent and the Consultant, the Committee noted that the mine is in operation since 1987 and the PP carried out the mining operation without Environmental clearance till 28.01.2008 and Forest clearance till 31.07.2009 since from the inception of the mine and the instant case attracts the Judgment of Hon'ble Supreme Court dated 02.08.2017 in W.P. (C) No.114 of 2014 in the matter of common cause vs Union of India and Others. The Committee on viewing the KML noted that the PP has carried out the mining operation outside the mine lease area. The Committee observed that the PP obtained the extension of validity period of mining lease over an area of 188.523 ha vide letter No. 5630/III(B) SM-21/2007/SM, Bhubaneswar dated 05.07.2016 whereas PP obtained Approval of Review of Mining Plan including Progressive Mine Closure Plan by IBM over an area of 188.268 ha on 20.10.2020 and also obtained ToR on 05.02.2021 over an area of 188.268 ha; but as per the mine lease area granted by the State Government the mine lease area is 188.523ha. Thus, the Committee was of the view that there is ambiguity in the submission made by the PP w.r.t. mine lease area. The Committee also not convinced with the reason for enhancement of production capacity along with the proposed crushing and screening units. The Committee was of the view that the PP should explore the viability of increasing the working shift to match the 38% of additional proposed production. Therefore, the Committee deferred the proposal for want of following requisite information.

4. The Project Proponent vide Lr Ref: PM/BBL/MOEF&CC/215/2022 dated 18.03.2022 submitted the information in PARIVESH portal on 24.03.2022 and accordingly the proposal was reconsidered in the 49th EAC (Non Coal Mining) held during 19th -21st April, 2022 wherein the PP submitted the following: -

Point (i): The Project Proponent needs to submit the letter from Department of Steel & Mines, Government of Odisha clarifying that whether PP has been carried out the mining activity outside the mine lease area or not since inception of the mine and if any illegal mining has been carried out by PP or not?

Reply by PP: PP submitted the letter from the Office of the Deputy Director of Mines, Koira circle, vide Lr No 446/Mines, dated 11.02.2022 stating that a mining squad comprising Sri K.R. Seth, Mining Officer, Sri B.K. Sahoo, J.M.O. and Sri P.K. Sahani, J.M.O. was directed to verify the lease boundary and details of report on the working

outside the lease area and illegal mining carried out by the lessee if any, since inception of mining operation. The Squad visited the mines on 02.02.2022 and checked the lease boundary and observed that the boundary pillars are intact. They verified all the statutory clearances and found to be in order and no mining operation has been carried out outside the lease area as well as no illegal mining came to their notice within the lease area. At present, the mining operation is being carried out within the granted Surface right area.

Point (ii): The Project Proponent shall submit the copies of all forest clearances chronology wise since inception of the mine.

Reply by PP: PP submitted the details of all forest clearance along with copies of forest clearances since inception of the mine as mentioned below:

S. No.	Particulars	Date
1.	Temporary working permission (TWP) over already broken upon forest area of 18.814 ha for a period of 1 year.	12.06.2008
2.	Stage I Forest Clearance was obtained from MoEF (FC Division) for 177.517 ha (101.658 ha + 75.859 ha) area	06.11.2008
3.	Final (Stage-II) Clearance for the diversion of 177.517 ha (101.658 ha + 75.859 ha) of forest land excluding safety zone & area for public use over 11.006 ha.	31.07.2009
4.	Stage-I forest clearance over 11.006 ha consisting of 9.778 ha safety zone and 1.228 ha area for public purpose	29.06.2017
5.	Final clearance (Stage-II) over 11.006 ha consisting of 9.778 ha safety zone and 1.228 ha area for public purpose.	26.08.2019

Point (iii): The Project Proponent submitted that they have obtained the EC on 28.01.2008 over an area of 188.523ha and also submitted that final mine closure plan approved by the IBM, over an area of 144.54 ha on 12.01.2011 and the Surrendered proposal over 144.54 ha accepted by the Department of Mines and Steel, Odisha on 13.01.2016, thus, PP needs to clarify why PP obtained the EC only for an area of 188.523 ha on 28.01.2008 and why PP was not included the mine lease area of 144.54 ha at the time of obtaining the initial EC, further PP shall also clarify why it has been surrender the mine lease area over an area of 144.54ha on 2016 and what was the status of the excluded mine lease area during this period.

Reply by PP: PP submitted that the original mining lease was granted and executed over an area of 333.063 ha on 20.01.1987 for a period of 20 years i.e., up to 19.01.2007. As per the existing MMDR (ACT) 1957 & MCR (1960) the lessee applied for renewal of Mining Lease on 06.12.2005 over a reduced area of 188.523 ha leaving an area of 144.54 ha. As per the deeming provision of existing Rule 24A (6) of MCR 1960, the mining lease over a reduced area of 188.523 ha was extended & mining operation was restricted over the reduced area of 188.523 ha only. Therefore, EC was applied for 188.523 ha. PP submitted that the Final Mine Closure Plan to IBM over 144.54 ha & FMCP was approved by IBM on 12.01.2011. There-after the surrender proposal was approved by the Department of Steel & Mines Odisha on 13.01.2016. It is thus clear that as per the existing Mines & Minerals (Development & Regulation Act) 1957 & Mineral Concession Rules, 1960 the renewal application over a reduced area of 188.523ha was preferred by the lessee & as per Rule 24A (6) of the MCR, 1960 only the renewal applied area over 188.523ha was valid lease extended by the deeming clause. Hence EC was applied over the renewal applied area of 188.523ha & obtained on 28.01.2008. The surrendered area of 144.54 ha was found to be economically not viable due to very low quality of mineral reserve. The status of the above area is not in operation and it has already handed over to steel & Mines Govt. of Odisha.

Point (iv): The Project Proponent needs to submit the letter obtained from Department of Steel & Mines, Government of Odisha over an area of 188.268ha and also need to explain that why the PP has not obtained any amendment in EC for the EC granted on 24.06.2015 for difference in mine lease area of 0.255ha.

Reply by PP: PP submitted the letter from the Directorate of Mines, Odisha vide Lr No MIV-(B)-125/2005 1083 DM dated 01.02.2016 stating that the Govt. in Department of Steel & Mines have accepted the proposal for surrender over 144.54 hecets. out of the executed mining lease area over 333.06 hecets. in respect of mining lease of Sri Prabodh Mohanty, legal heir of Late S.N. Mohanty for Iron, Manganese and Bauxite Ore in village Kalmong, Jaldihi, Sidimba and Tantigrama of Sundergarh district vide their letter No. 271/SM dt.13.01.2016. However, after verification, the applied RML area comes to 188.268 hecets, and the surrender area comes to 144.788 hecets. instead of 188.523 hecets. & 144.54 hecets, respectively. PP also submitted the land schedule over an area of 144.878 ha and 188.268 ha certified from Sr. Surveyor O/o Deputy Director Mines, Koira. Since the difference is due to digital calculation & there is no change in physical area the PP did not apply for amendment of EC.

Point (v): The Committee noted that the Project Proponent reported that the entire mine lease area of 188.268 ha is forest land and PP obtained Stage-II Forest Clearance for 188.523 ha (PRF-64.347+DLC-110.401+KF-13.775ha). PP also submitted the Review of Mining Plan including Progressive Mine Closure Plan

approved by IBM over an area of 188.268 ha on 20.10.2020. Hence, the Project Proponent needs to clarify the difference in forest area of 0.255ha (188.268ha-188.523ha) and also the difference in mine lease area of 0.255ha w.r.t. mining plan approved on 20.10.2020 with the supporting documents.

Reply by PP: PP submitted that the earlier the lessee applied for renewal of 188.523 ha out of 333.063 ha & as per Rule 24 (6) of MCR'1960. The lease was deemed to be extended over a renewal applied area of 188.523 ha. The PP obtained forest clearance over the renewal area of 188.523ha accordingly. However, the lease was further extended upto 19.01.2037 as per Section 8A of the MMDR (Amendment) Act, 2015 & subsequent to DGPS verification undertaken by Odisha Space Application Centre (ORSAC), Deptt. of Science & Technology, Govt of Odisha, the extended area was determined to be 188.268 ha as per Director of Mines letter dated 01.02.2016. Hence there is a difference of 0.255 ha, however there is no change in the physical area. The difference is only because of a calculation correction. Subsequent to this calculation correction the extension lease deed is executed over the area of 188.268ha. The review of Mining Plan is approved by Indian Bureau of Mines over an area of 188.268ha vide letter dated 20.10.2020.

Point (vi): The Committee noted that the PP submitted that sub-grade iron ore (+45-55%Fe) during plan period will be stacked initially and dispatched subsequently after blending with upper grade ores or as such depending upon the market demand. Hence, the PP needs to clarify whether the mineral beneficiation processing is involved in the proposal or not?

Reply by PP: PP submitted that there is no requirement of installation of beneficiation plant as the recovery of sub-grade ore is less than 20% which can easily be blendable with higher grade ore. Hence, no mineral beneficiation processing is involved in the proposal. If such beneficiation plant will be required in future, PP will approach MOEF&CC for inclusion in EC.

Point (vii): The Project Proponent also needs to clarify why the final mine closure plan has been approved by IBM for the lesser area of 144.54 ha on 12.01.2011.

Reply by PP: PP submitted that the originally, Mining lease for Iron & Manganese Ore was granted over an area of 333.063 ha on 27.11.1986. PP applied for surrender of 144.54 ha area which was found to be economically not viable due to very low quality of mineral reserve and those are not saleable. Thus, as per sub-rule 2 of Rule 23 C of Mineral Conservation & Development Rules, 1988, final mine closure plan has been approved by IBM vide letter dated 12.01.2011 for the surrendered area (144.54 ha). Final Mine Closure Plan was for surrendered area i.e., 144.788 ha not for the mining lease area. Review of Mining Plan has been prepared over an area of 188.268 ha for

the next 5 years from 2021-22 to 2025-26 and approved by IBM under Rule 17(1) of MCR, 2016 vide letter no RMP/A/17-ORI/BHU/2020-21/1957 dated 20.10.2020.

Point (viii): The Project Proponent needs to justify the increase in Iron ore production Capacity from 2.0169 to 2.80 MTPA ROM. PP should also explore the viability of increasing the working shift to match the 38% of additional proposed production along with 1 crusher and 2 screening unit proposed. PP also needs to submit the flowsheet of crushing material including oversized handling of the material.

Reply by PP: PP submitted that at present scenario, there is big gap in demand and supply of iron ore in India. We have our two micro integrated steel plant and sponge plant at Bonai District, Sundergarh. Simultaneously, there are many sponge ore plant those are dependent on iron ore produced from our mine. Also, demand of Iron ore in market always been high. Therefore, expansion in Iron ore production Capacity from 2.0169 to 2.80 MTPA is proposed. Location of the mine is in a higher altitude having surrounded by reserve forest. Mineral extraction during night involves risk of safety of work persons and may disturb the night life of fauna. Therefore, only day light mining operation from 6 Am to 6 PM only will be happen. To cope with the additional quantity of 8 lacs tonne ROM, PP proposed for additional mining machineries. The material of 40 mm to 200 mm which generates from screening units is being fed into the crushing unit for making different sizes as per the buyer's requirement. PP also submitted the flow sheet of crushing and screening of material.

Point (ix): The Project Proponent should prepare the EMP considering the scenario of pollution to be generated for normative and peak total excavation for assessing air and noise pollution and accordingly revise the EIA/EMP report.

Reply by PP: PP submitted that the total proposed material handling of 4.538 Million TPA comprises (Iron Ore: 2.8 Million TPA, Iron Ore waste 1.50 Million TPA, Bauxite Ore 0.13 million TPA, Bauxite Waste 0.10 million TPA and Top Soil 0.008 million TPA). Total normative production of Iron ore and Bauxite will be 9576 TPD which will be 11491 TPD considered at 15% maximum as compared to daily capacity in case of shut down/break down/major maintenance in crusher production of mine may be suspended temporarily. However, the annual excavation will remain same i.e., 4.538 million TPA (14832 TPD). EMP was prepared considering the scenario of pollution to be generated for normative 9576 TPD and peak total excavation (11491 TPD). Details of EMP expenditure and budget is given below in Table.

Sl. No.	Activities	Existing Cost		Proposed Cost		Total Cost	
		Capital	Recurring	Capital	Recurring	Capital	Recurring

1.	Mitigative Measures	692.87	59.85	538.00	32.25	1230.87	92.10
2.	Monitoring	78.55	14.00	-	14.00	78.55	28.00
3.	Others- Digital mapping of the entire lease area once in 5 years	10.00	-	-	-	10.00	-
4.	EMP Budget for public hearing	-	-	138.00	29.00	138.00	29.00
	Total	781.42	73.85	676.00	75.25	1457.42	149.10

Point (x): The Project Proponent needs to submit the scenario of pollution to be generated at the railway siding and at the sensitive receptor for Ambient Air quality, Noise level and Ground vibration.

Reply by PP: PP submitted that about 10 Lakhs tonnes of material being transported through number of railway siding in which maximum 1.34 lakh tonnes of iron ore is being transported through Joroli railway siding. However, PP will maximize the dispatch subject to availability of rakes. PP also submitted the scenario of air pollution at sensitive receptors wherein the maximum resultant value was observed at mine site such as PM10: 91.618 µg/m³, NO₂: 27.06 µg/m³ and SO₂: 13.32 µg/m³ and at Town Kora PM_{2.5} found to be 53.61 µg/m³, Scenario of Noise level pollution at sensitive receptors wherein the maximum resultant value without EMP at mine site ranged between 47-74 dB (A). Further, PP submitted that Peak Particle Velocity Considering Charge per Hole 50 kg and 42 kg at sensitive receptors assuming that the blasting will be done at least 300 from the adjacent villages. Estimated PPV found to be 2.12 mm/s and 1.84 mm/s respectively which is well within the DGMS standards.

Point (xi): The Project Proponent shall revise the EIA report and needs to include the actual data, findings and recommendations of the scientific study carried out by IIT-Kharagpur for slope stability and ground vibration.

Reply by PP: PP submitted that the Scientific study of blast vibration has been done by Indian Institute of Technology, Kharagpur. Same information with study report has also been submitted in EIA report. The report submitted by a group of experts from IIT

Kharagpur shows that the ground vibration generated during blasting operation is well within the prescribed value as per DGMS guideline. Moreover, maximum precaution is taken in case of designing blast pattern and distribution of explosive charge. All the blast holes are fired with hole-to-hole delay pattern. PP also submitted that followings were some of the recommendations and conclusions of study as follows (i) The maximum value of blast induced ground vibration (PPV) monitored at 50-150 m from the blast site is 3.27 mm/s and there is no value recorded at the nearby locations, not belonging to the owner, (ii). The maximum projectile range of fly rock was observed as 10-15 m from the blast site and the air blast levels recorded were within the safe limits and (iii). It may be stated here that the vibration levels for the analysed blast vibrations for the study were within the stipulated limits and the damage to the nearby locations/structures and populace is minimum. PP also submitted that regarding stability of slope the following precautions have been taken (i): At the bottom of the dump a high RCC wall has been constructed to arrest the solid waste passing outside the ML area, (ii). The height of each terrace are kept within the safety parameter as per IBM & DGMS Guideline, (iii). At the bottom of each terraces a channel is constructed which is attached with settling pond. The surface water of terraces is not flowing to another terrace during monsoon, (iv) Regular compacting after the end of mining operation is being done for better stability and (v) Coir matting as required area done.

Point (xii): The Project Proponent needs to submit the plan for strengthening the road shoulder of approach road of 5.4 km by maintaining a width of 9m.

Reply by PP: PP submitted that have already made the road width of 8 m of RCC road, which is sufficient for movement of to & fro of trucks as each truck required 3 m width for movement. All the turning points of the road is maintained about 10 m width for easy negotiation of curve by the trucks. Further widening of road is not possible as it involves forest land.

Point (xiii): The Project Proponent needs to submit the detailed composition of forest land with its ecological and economic value comparing the mineral production.

Reply by PP: PP submitted that the total mining lease area is of 188.268 ha and entire land is forest land. Out of 188.268 ha of forest land, Final (Stage-II) Clearance for the diversion of 177.517 ha (101.658 ha + 75.859 ha) already obtained on 31.07.2009 and for diversion of 11.006 ha (9.778 ha safety zone + 1.228 ha area for public purpose) has been obtained from MoEF&CC on 26.08.2019. PP already paid Rs 137621790/- towards the cost of NPV as demanded by forest Dept @ Rs. 73000/- per hectares over 188.523 ha. The compensatory afforestation work done by the State Forest Dept with funds contributed by PP over an area of 178.737 ha (59.437 ha. in

village Madhupur, 16.422 ha. in village Nuadihi, 101.658 ha in villages Hinjadali, Nuapada and Olaberi under Satkosia Wildlife Division, Angul, 1.22 ha in village Babu-Nuagaon. Details of Financial value of mineral extracted/to be extracted as per mineable reserves is about Rs. 10065 Crores. Details of revenue generation to the Govt in the form of Royalty etc., is approx Rs 1509 Crore.

Point (xiv): The Project Proponent needs to submit the compensatory afforestation plan for the trees to be cut in the southern side of the mine lease area where mining is proposed.

Reply by PP: PP submitted that the compensatory afforestation work done by the State Forest Deptt. with funds contributed by lessee over an area of 178.737 ha (59.437 ha. in village Madhupur, 16.422 ha. in village Nuadihi, 101.658 ha in villages Hinjadali, Nuapada and Olaberi under Satkosia Wildlife Division, Angul, 1.22 ha in village Babu-Nuagaon. The concern divisional forest office has already executed the plantation work within the identified area @ 1500 to 2000 seedling per hectares. Further, Permission has been granted by Divisional Forest Officer, Bonai Division vide memo no 9171/3F dated 02.11.2021 for 18580 no of tree felling over an area of 33.404 ha. An amount of Rs. 1,15,81,700 (~1.16 Crore) has been deposited for 18,580 no of tree felling over an area of 33.404 ha and also intimated to Divisional Manager, Rourkela Division vide letter dated 14.10.2021.

Point (xv): The Project Proponent needs to consult the local District Authority for the concerns expressed by the public related to construction of hall for 500 sq.ft and detailed note to be submitted along with the justification for construction of hall with cost and its utilization.

Reply by PP: PP submitted that Sarpanch of Dengula Village Panchayat requested the PP for construction of a hall of 500 sq.ft. to be used by the tribal dwellers for Gram Devi worshipping which was also submitted to Block Development Officer, Panchayat Samiti Office, Koira. Block Development Officer, Panchayat Samiti Office, Koira asked following information to submit vide their letter No – 953, dated 02.03.2022 (i) land schedule sketch map with NOC from Tehsildar, Koira and (ii) Plan and estimate of hall to be duly approved by the undersigned. The work for establishment of such hall is awaited for approval from Tahashildar, Koira. The process was delayed due to Panchayat & Zilla Parishad Election in Odisha.

Point (xvi): The Project Proponent needs to submit the details of additional EMP measures suggested cost wise along with the designated effectivity of each unit with input and output specifications.

Reply by PP: PP submitted the cost wise additional EMP measures for proposed expansion as given below in Table.

Sl. No.	Activities	Proposed budget (In Lakhs)	
		Capital	Recurring
A.	Mitigative Measures		
1.	Permanent water sprinkling arrangements for main haulage road	15.00	0.50
2.	2 nos of water tanker mounted water sprinkling arrangement for water spraying at haulage road, Mining area (2 nos. @ 30 lakhs per truck mounted water tanker)	60.00	8.00
3.	Inbuilt water sprinkling system is there in our existing screening & Crusher plant. In addition to Two No. of mist Cannon has been used at plant area for suppression of dust.	15.0	0.15
4.	Recurring expenditure on Safety zone along the ML area 6.412 ha. +2.580 ha along the road side	-	5.00
5.	Plantation on un-worked area, backfilled area, bench slope, around crusher, habitation, including avenue plantation at village road.	350.00	10.00
6.	One no of garland drain is proposed (in length of 720m, width 2m, height 2m)	8.00	2.00
7.	One no of settling pond is proposed (Length 80m, width 30m, depth 5m)	10.00	5.00
8.	One no of retaining wall is proposed (Length 800m, width 2m, height 1.5m)	10.00	1.50
9.	Proposed Rain Water harvesting pond (Length 50m, width 30m, height 15m)	70.00	-
10.	Vacuum cleaner (for road brooming purpose)	-	0.10
	Sub Total	538	32.25
Sl. No.	Activities	Proposed budget (Rs. In Lakhs/Annum)	
B.	Monitoring		
1.	Display Board at main gate for display of Ambient, Air, Noise and Hazardous waste monitoring data.	0.50	
2.	Four Ambient Air Quality Monitoring Station at Village Kalmanga, Jaldihi, Sidimba & Tantigram	5.00	

3.	Air monitoring Equipment for PM10 & PM2.5	
4.	Weather monitoring Station with civil work.	
5.	Noise monitoring device	
6.	Installation of piezometers along the periphery in the premises	0.50
7.	Water quality and level monitoring at mine site and villages (4 locations)	1.50
8.	Monitoring of River and nallah (Flow and quality-inlet & outlet).	1.50
9.	Workshop Waste water quality analyses	1.50
10.	Installation of STP (2 Nos) capacity of 30 KLD	2.00
11.	Civil work for STP	
12.	Installation of one no ETP capacity of 10 KLD	
13.	Civil work for ETP	
14.	i. The Peak particle velocity monitoring for nearest habitation i.e. Village Jaldihi ii. Noise Level Monitoring in core and buffer zone	1.50
	Sub Total	14.00

Point (xvii): The Project Proponent needs to submit the copy of the Surface right for the earlier retained mine lease area of 188.523 ha from the office of the District Collector, Sundargarh.

Reply by PP: PP submitted the copy of surface right obtained from the office of the District Collector, Sundargarh vide Lr Ordre no: 155/(Mining) dated 08.02.2010 for the earlier retained area.

Point (xviii): The Project Proponent needs to submit the compliance of NEERI conditions certified by Integrated Regional Office, MOEF&CC.

Reply by PP: PP submitted the copy of the certification of NEERI Compliance report issued by the Integrated Regional Office vide letter no 101- 691/EPE dated 25.02.2022.

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

Reply by PP: PP submitted the analysis/testing reports of water sample collected on 11.01.2021, air quality monitored during the period Dec, 2020-Feb, 2021, soil sample

collected on 11.01.2021 and noise level monitored during the period 04.01.2021 to 07.01.2021 accredited by the NABL approved laboratory “JM EnviroLab Pvt. Ltd.” (Certificate no TC-6821).

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

Date of application	Proposal/ File No	Consideration	Details	Date of accord
08.06.2007	IA/OR/MIN/ 11500/2006 F.No.J- 11015/417/2 006-IA.II(M)	18 th - 20 th June, 2007	Environmental Clearance granted for an annual production capacity of 7,00,000 tonnes (0.7 million tonnes) of iron ore and 50,000 tonnes (0.05 million tonnes) of bauxite by opencast semi-mechanized method involving mine lease area of 188.523 ha,	28.01.2008
30.03.2015	J-11015/ 121/2011. IA-II (M)	29 th – 30 th , April 2015	Amendment in EC dated 28.01.2008 w.r.t “deletion of specific condition (ii) Environmental Clearance is subject to obtaining clearance under the Wildlife (Protection) Act, 1972 from the competent authority.	24.06.2015
11.04.2011	J-11015/ 121/2011. IA-II (M)	27-28 January, 2014 & 20-21 March, 2014	Expansion of production of iron ore from 0.7 MTPA to 2.0169 MTPA, Bauxite Ore from 50,000 TPA to 1,30,000 TPA in the mine lease area of 188.523 ha excluding 11.006 ha of forest land for which FC is not available	24.06.2015

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

Date of application	Proposal No	Consideration	Details	Date of accord
28.12.2020	IA/OR/MIN/ 190213/2020	11 th – 13 th Jan, 2021	Expansion in Iron Ore Production Capacity from 2.0169 to 2.80 million TPA ROM (2.41 Million TPA Iron Ore + 0.39 million TPA Mineral Reject), Iron ore waste 1.50 million TPA, Top Soil 0.008 million TPA and Bauxite Production capacity 0.13 million TPA (ROM), Bauxite waste 0.10 million TPA (Total Excavation: 4.538 Million TPA) along with 3 crushing unit (2 existing and 1 proposed) and 5 screening units (3 existing and 2 proposed) at Villages Kalamanga, Jaldihi and Tantigram, Tehsil: Koira, District: Sundergarh, Odisha for undertaking detailed EIA/EMP study. In addition to the Standard Term of Reference for Non-Coal mining, standard ToR as per the recommendation made by NEERI in its carrying capacity study for Odisha.	05.02.2021

7. The Project Proponent submitted that originally, Mining Lease for Iron & Manganese Ore over an area of 333.063 ha was granted by Govt of Odisha, Mining & Geology Department vide letter no 13775/MG. Bhubaneswar on 27.11.1986 in favor of Sri. S.N. Mohanty. Lease deed was executed on 20.01.1987 for a period of 20 years

from 20.01.1987 to 19.01.2007. Subsequently on 07.02.1987, Lessee applied for inclusion of bauxite in the principal lease deed executed on 20.01.1987 for iron & manganese ore and same was included vide State Govt letter No 9870 /MG. Bhuvneshwar dated 13.10.1989. An additional lease deed was executed on 11.12.1989 co-terminus with the principal lease deed. Lease was inherited by Shri Probodh Mohanty vide Government of Odisha order dated 11.03.1999 subsequent to the demise of original lessee S.N Mohanty. First Lease Period was expired on 19.01.2007. Out of 333.063 ha, first renewal of mining lease over an area of 188.523 ha was applied on 06.12.2005 for 20 years (From 20.01.2007 to 19.01.2027) by Sri Prabodh Mohanty. Final mine closure plan for the area (144.54 ha) approved by IBM vide their letter No. FMCP/OTF.MECH/09-ORI/BHU/2010-11 dated 12.01.2011. Certificate was obtained from IBM regarding surrendered area under Rule 29A of MCR, 1960 vide their letter no T/FMCP/C/1/BHU-2011 dated 11.01.2012. Surrendered proposal over 144.54 ha had been accepted by the Department of Steel & Mines, Govt. of Odisha, Bhubaneswar vide their letter No. 271/SM/Bhubaneswar Dt: 13.01.2016. The Govt. of Odisha in Department of Steel & Mines letter No. 5630/III(B) SM-21/2007/SM, Bhubaneswar dated 05.07.2016 issued orders extending the lease period of KJST Iron, Manganese & Bauxite Mines up to 19.01.2037 over an area of 188.523ha as per Section 8 (A) of MMDR Act-2015. After DGPS verification undertaken by Odisha Space Application Centre (ORSAC), Dept. of Science & Technology, Govt. of Odisha, the extended area was determined to be 188.268 ha and the surrendered area comes to 144.788 ha. The supplementary lease deed of ML area over 188.268 ha has been executed on 14.07.2016 for 50 years in all total w.e.f. 20.01.1987 to 19.01.2037 as per section 8A of the Mines and Minerals (Development & Regulation) amendment Act 2015 in favor of Shri Prabodh Mohanty, Son of Late S.N. Mohanty (Original Lessee).

8. The Project Proponent submitted that the earlier the lessee applied for renewal of 188.523 ha out of 333.063 ha & as per Rule 24 (6) of MCR1960. The lease was deemed to be extended over a renewal applied area of 188.523 ha. The PP obtained forest clearance over the renewal area of 188.523ha accordingly. However, the lease was further extended up to 19.01.2037 as per Section 8A of the MMDR (Amendment) Act, 2015 & subsequent to DGPS verification undertaken by Odisha Space Application Centre (ORSAC), Dept. of Science & Technology, Govt of Odisha, the extended area was determined to be 188.268 ha as per Director of Mines letter dated 01.02.2016. Hence there is a difference of 0.255 ha, however there is no change in the physical area. The difference is only because of a calculation correction. Subsequent to this calculation correction the extension lease deed is executed over the area of 188.268ha. PP submitted the letter from the Directorate of Mines, Odisha vide Lr No MIV-(B)-125/2005 1083 DM dated 01.02.2016 stating that the Govt. in Department of Steel & Mines have accepted the proposal for surrender over 144.54 hectes. out of the executed

mining lease area over 333.06 hec. in respect of mining lease of Sri Prabodh Mohanty, legal heir of Late S.N. Mohanty for Iron, Manganese and Bauxite Ore in village Kalmong, Jaldihi, Sidimba and Tantigrama of Sundergarh District vide their letter No. 271/SM dt.13.01.2016. However, after verification, the applied RML area comes to 188.268 hec, and the surrender area comes to 144.788 hec. instead of 188.523 hec. & 144.54 hec, respectively. PP also submitted the land schedule over an area of 144.878 ha and 188.268 ha certified from Sr. Surveyor O/o Deputy Director Mines, Koira. Since the difference is due to digital calculation & there is no change in physical area the PP did not apply for amendment of EC.PP submitted the letter from the Office of the Deputy Director of Mines, Koira circle, vide Lr No 446/Mines, dated 11.02.2022 stating that a mining squad comprising Sri K.R. Seth, Mining Officer, Sri B.K. Sahoo, J.M.O. and Sri P.K. Sahani, J.M.O. was directed to verify the lease boundary and details of report on the working outside the lease area and illegal mining carried out by the lessee if any, since inception of mining operation. The Squad visited the mines on 02.02.2022 and checked the lease boundary and observed that the boundary pillars are intact. They verified all the statutory clearances and found to be in order and no mining operation has been carried out outside the lease area as well as no illegal mining came to their notice within the lease area. At present, the mining operation is being carried out within the granted Surface right area.

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

Private land	-
Forest land	188.268 ha
Total Mining lease area (MLA)	188.268 ha
Private land for crusher, workshop & other infrastructure outside the MLA	Nil

10. The Project Proponent submitted that the originally, Mining lease for Iron & Manganese Ore was granted over an area of 333.063 ha on 27.11.1986. PP applied for surrender of 144.54 ha area which was found to be economically not viable due to very low quality of mineral reserve and those are not saleable. Thus, as per sub-rule 2 of Rule 23 C of Mineral Conservation & Development Rules, 1988, final mine closure plan has been approved by IBM vide letter dated 12.01.2011 for the surrendered area (144.54 ha). Final Mine Closure Plan was for surrendered area i.e., 144.788 ha not for the mining lease area. Review of Mining Plan including Progressive Mine Closure Plan approved by Indian Bureau of Mines vide Lr No: RMP/A/17-ORI/ BHU/2020-21/ 1957 dated 20.10.2020 over an area of 188.268 ha for the period 2021-22 to 2025-26.

11. The Project Proponent submitted that it is proposed to continue the mining operations by opencast fully mechanized method. PP reported that the estimated, iron ore resource is 36.868 Million Tonnes and reserve is 32.754 Million Tonnes and Bauxite resource is 1.345 Million Tonnes and reserve is 1.023 Million Tonnes. Life of the mine will be 12 years. Total normative production of Iron ore and Bauxite will be 9576 TPD which will be 11491 TPD considered at 15% maximum as compared to daily capacity in case of shut down/break down/major maintenance in crusher production of mine may be suspended temporarily. However, the annual excavation will remain same i.e., 4.538 million TPA (14832 TPD). PP reported that the bench height of 8m and bench width of 14m will be maintained. Overall pit slope will be 33°. DTH drill of 100mm – 115mm dia will be used for deep/blast hole drilling. Blasted iron ore will be transported to the screening & crushing sites and manual processing site and similarly, bauxite will be transported to the manual processing site. Dumpers of 25t to 35t capacity will be deployed for transportation of ROM ore to the stacking and waste dumping site. PP reported that a total of 37,051 tonnes of top soil has been generated from the inception of mine and during plan period about 15,114 m³ of top soil will be generated which will be stacked initially in the existing topsoil stack and spread subsequently over the waste dump as well as bauxite mined out area con-currently for plantation along the dump slopes. PP also reported that about 35,39,747 tonne of Iron ore waste have been produced since inception of mine. Dump-1 is active but stable and not rehabilitated till date. Total 3,48,025 tonnes of Bauxite waste have been produced since inception of mine. Bauxite mined out area was 0.423 ha which has been reclaimed partly by way of plantation. Overburden/waste generated in iron ore quarries will be dumped permanently at the north-eastern part of the lease area. Overburden/waste generated in bauxite quarry will be utilized for back-filling of the mined-out area con-currently. During the plan period, dry crushing & screening process will be adopted in the lease area for production of sized ore. PP submitted that there is no requirement of installation of beneficiation plant as the recovery of sub-grade ore is less than 20% which can easily be blendable with higher grade ore. Hence, no mineral beneficiation processing is involved in the proposal. If such beneficiation plant will be required in future, PP will approach MOEF&CC for inclusion in EC. Sub-grade iron ore (+45-55%Fe) of plan period will be stacked initially and dispatched subsequently after blending with upper grade ores or as such depending upon the market demand. Oversized lumps (40-200mm) obtained from the ore plot as well as screens will be fed in to the three mobile crushing units of 250tph (1 no.) and 200tph (2 nos.) to produce the lumps of 5-18mm and fines of -5mm. Saleable ore obtained from the crusher/screen will be dispatched to the steel plants, sponge iron plants etc. through contractual trucks/train. PP submitted that have already made the road width of 8 m of RCC road, which is sufficient for movement of to & fro of trucks as each truck required 3 m width for movement. All the turning points of the road is maintained about 10 m width for easy negotiation of curve

by the trucks. Further widening of road is not possible as it involves forest land. PP submitted that at present scenario, there is big gap in demand and supply of iron ore in India. We have our two micro integrated steel plant and sponge plant at Bonai District, Sundergarh. Simultaneously, there are many sponge ore plant those are dependent on iron ore produced from our mine. Also, demand of Iron ore in market always been high. Therefore, expansion in Iron ore production Capacity from 2.0169 to 2.80 MTPA is proposed. Location of the mine is in a higher altitude having surrounded by reserve forest. Mineral extraction during night involves risk of safety of work persons and may disturb the night life of fauna. Therefore, only day light mining operation from 6 Am to 6 PM only will be happen. To cope with the additional quantity of 8 lacs tonne ROM, PP proposed for additional mining machineries. The material of 40 mm to 200 mm which generates from screening units is being fed into the crushing unit for making different sizes as per the buyer's requirement.

12. Details of Depth of Mining and Ground water level:

S. No	Particulars	Details	
		Iron ore	Bauxite
1	Present working depth	828 m AMSL (65 m bgl)	886 m AMSL (7 m bgl)
2	Ultimate Working Depth	778 m AMSL (115 m bgl)	882 m AMSL (11 m bgl)
3	Water Table	Pre-Monsoon: 630 m AMSL (263 m bgl) Post-Monsoon: 625 m AMSL (268 m bgl)	
4	Groundwater intersection	No	

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

Particulars	Details	Distance & Direction
Nearest Village	Habitation of Village Tinto	~500 m in ESE direction
Nearest Town/ City	Koira	~ 4.6 km in North direction
Nearest Highway	NH-215	~4.5 km in North direction
Nearest Railway Station	Barsuan Railway Station	~12 km in NW direction
Water Bodies	Jokanal Nala	~1.8 km in SE Direction
	Boream Nala	~2.0 km in East direction
	Khuntachira Nala	~2.3 km in East Direction
	Teherei Nala	~2.8 km in NE direction
	Kundra Nala	~2.8 km in SSE Direction
	Raura Nala	~3.0 km in SE Direction
	Khajurdihi Nala	~4.0 km in East direction
	Juruli Nala	~4.5 km in SE Direction
	Porhadihi Nala	~5.0 km in East Direction

	Karo Nala	~5.5 km in NNW Direction
	Sakarnada Nadi	~5.5 km in SW direction
	Badamgarh Nala	~6.0 km in SE Direction
	Champajhar Nala	~6.0 km in SSE Direction
	Archanda Nala	~6.5 km in East Direction
	Barapokhari Nala	~6.5 km in SW Direction
	Suna Nala	~7.8 km in ESE direction
	Gahirajala Nala	~7.8 km in ENE Direction
	Raikirnala Munibi Nala	~8.0 km in SSW Direction
	Sarsni Nala	~8.5 km in SSE direction
	Garhgi Nalah	~9.0 km in SSW Direction
	Phulamanali Nala	~9.5 km in SW Direction
	Ananka Nala	~9.5 km in South Direction

14. Water requirement

Total water requirement (KLD)	86.0 KLD	Fresh water	81.0 KLD
		Treated water	5.0 KLD
Source	Surface Water (Teherai Nala ~2.8 km in NE direction from mine site)		
Permission	PP obtained the permission issued from the O/o of the Executive Engineer, Sundargarh Division vide Lr no 10109 dated 14.08.2018 for allocation of 100 cu/day (0.041 Cusec) of surface water. PP also submitted the Agreement for supply of water made on 20.11.2018.		
Additional information (if any)	For drinking purpose there will be requirement of 2.0 KLD. 2.0 KLD (RO) of water will be outsourced.		

15. The Project Proponent reported that the entire mine lease area of 188.268 ha is forest land. PP obtained Stage-II Forest Clearance for 188.523 ha (PRF-64.347ha+DLC-110.401ha+KF-13.775ha). Temporary working permission (TWP) over already broken upon forest area of 18.814 ha obtained vide letter no F.No.8-45/2007-Fc dated.12.06.2008 for a period of one year. Stage-I Forest Clearance was obtained from MoEF (FC Division) for 177.517 ha area vide letter No 8-45/2007-FC(Pt) on 06.11.2008. Final Clearance for the diversion of 177.517 ha (101.658 ha + 75.859 ha) of forest land excluding safety zone & area for public use over 11.006 ha vide letter no 8-45/2007-FC (PT) on 31.07.2009. Stage-I forest clearance over 11.006 ha consisting of 9.778 ha safety zone and 1.228 ha area for public purpose from MoEF&CC vide letter no 8-45/2007- FC (Vol) on 29.06.2017. Final clearance over 11.006 ha consisting of 9.778 ha safety zone and 1.228 ha area for public purpose from MoEF&CC vide letter no 8-45/2007-FC (Vol) on 26.08.2019. PP already paid Rs 137621790/- towards the cost of

NPV as demanded by forest Dept @ Rs. 73000/- per hectares over 188.523 ha. The compensatory afforestation work done by the State Forest Dept with funds contributed by PP over an area of 178.737 ha (59.437 ha. in village Madhupur, 16.422 ha. in village Nuadihi, 101.658 ha in villages Hinjadali, Nuapada and Olaberi under Satkosia Wildlife Division, Angul, 1.22 ha in village Babu-Nuagaon. Details of Financial value of mineral extracted/to be extracted as per mineable reserves is about Rs. 10065 Crores. Details of revenue generation to the Govt in the form of Royalty etc., is approx Rs 1509 Crore. PP reported that the following Reserve Forest such as Sarakanda RF (~0.2 km, W), Khajurdihi RF (~1.8 km, SE), Reserve Forest (~2.0 km, N), Kathamala RF (~4.8 km, N), Mendhamaruni RF (~6.5 km, NNE), Torha RF (8.0 km, West), Karo RF (~9.0 km, NNW) are exists within the 10km radius. PP also reported that there are No National Park Sanctuaries, Biosphere Reserves, Ramsar Site, Tiger/Elephant Reserves (existing as well as proposed), Wildlife Corridors, falls within the 10km radius. In support of this, PP also submitted the letter obtained from the O/o PCCF(Wildlife) & Chief Wildlife Warden vide Lr no 9962/1 WL (C) SSP - 123/2011 dated 18.12.2013 and from the O/o PCCF(Wildlife) & Chief Wildlife Warden Lr no 8891/CWLW-FDWC-FD-0078-2021 dated 13.09.2021 along with the authenticated map.

16. The Project Proponent reported that there is no Schedule-I species found in the core and buffer zone. PP also submitted the authenticated list of Flora and Fauna obtained from the O/o of PCCF (Wildlife) & Chief Wildlife Warden vide letter no 9962/1 WL (C) SSP - 123/2011 dated 18.12.2013 and from the O/o Divisional Forest Officer, Bonai Division vide letter no 5360/6F-(Mg) dated 07.07.2021. Further, PP submitted the Certificate obtained from the DFO, Bonai Division that the 10kms around buffer zone does not form a part of any National Park, Biosphere Reserve, Sanctuary, Wildlife Corridor, Tiger/Elephant Reserves (existing/proposed). Clearance as per wildlife act 1972 is not applicable for this project. However, the user agency is participating in the Regional Wildlife Management Plan. PP submitted the Approval of Wildlife Conservation Plan approved by the PCCF (WL) & Chief Wildlife Warden, Orissa for Rs 70.0 Lakhs.

17. The Project Proponent reported that the total area proposed under greenbelt/plantation will be 151.709 ha, in which area under greenbelt is 6.412 ha and area under plantation is 145.299 ha (25.124 ha on backfilled area, 72.031 ha on bench slope, 19.515 ha on waste dump, 2.580 ha on Safety zone of 10 m width along the public road, 0.371 ha under Orchard and 24.890 ha area under infrastructure, processing plant & magazine demolished area as well as top soil and mineral stack removal area. As on date, 10.813 ha area has been covered under greenbelt and plantation. PP also reported at present there are 24,250 no. of plants have been planted over an area of 9.861 ha. An amount of Rs. 20.25 lakhs (Capital Cost) have been spent under greenbelt on 7.5 m lease periphery and 10 m safety zone along road. PP

earmarked a budget of Rs. 350.0 lakhs towards greenbelt & plantation till the end of life of mine. PP also submitted an Affidavit cum undertaking in a non-judicial stamp paper of Rs 100 bearing M 107305 dated 19.11.2021 that we have planted all gap plantations within the safety zone with more than 800 no.s of saplings within last 6 months and more plantations within safety zone and within lease area under progress. Saplings are grown above 6 ft height and the survival rate is satisfactory and is above 90%. PP initiated the plantation within the periphery of the mine lease area in consultation with the local Forest Department. PP also submitted that the remaining plantation will be completed within 6 months from the date of issue of EC. PP submitted that the compensatory afforestation work done by the State Forest Deptt. with funds contributed by lessee over an area of 178.737 ha (59.437 ha. in village Madhupur, 16.422 ha. in village Nuadihi, 101.658 ha in villages Hinjadali, Nuapada and Olaberi under Satkosia Wildlife Division, Angul, 1.22 ha in village Babu-Nuagaon. The concern divisional forest office has already executed the plantation work within the identified area @ 1500 to 2000 seedling per hectares. Further, Permission has been granted by Divisional Forest Officer, Bonai Division vide memo no 9171/3F dated 02.11.2021 for 18580 no of tree felling over an area of 33.404 ha. An amount of Rs. 1,15,81,700 (~1.16 Crore) has been deposited for 18,580 no of tree felling over an area of 33.404 ha and also intimated to Divisional Manager, Rourkela Division vide letter dated 14.10.2021.

18. Baseline Details:

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

Period	December, 2020 to February, 2021				
AAQ parameters at 8 locations	Pollutant	Min, µg/m ³	Max, µg/m ³	98 %le, µg/m ³	Standard, µg/m ³
	PM2.5	25.6	53.6	53.0	60
	PM10	55.2	90.4	89.6	100
	SO2	5.2	13.1	12.9	80
	NOx	9.1	26.2	25.9	80
AAQ modelling (Incremental GLC)	Pollutant	Baseline Concentration, µg/m ³	Incremental Concentration, µg/m ³	Total GLC, µg/m ³	Standard
	PM2.5	53.6	0.8	54.4	60

Minutes of 49th EAC Meeting (Non-Coal Mining) held during 19th to 21st April, 2022

	PM10	90.4	2.0	92.4	100
	SO2	13.1	1.2	14.4	80
	NOx	26.2	2.4	28.7	80
Noise level at 8 locations	Day Time: 48.7 to 61.4 Leq dB (A) Night Time: 40.8 to 46.2 Leq dB (A)				
Ground water quality at 8 locations	PP submitted that pH varied from 6.45 to 7.21. Total hardness varied from 32 mg/l to 100 mg/l. Total Dissolved Solids varied from 63 mg/l to 175 mg/l. The water samples contain, chloride from 4.21 to 27.49 mg/l, Fluoride from 0.08 to 0.66 mg/l, SO4 varies from BDL (DL 1.0 mg/l) to 38.55 mg/l, Ca from 10.02 to 26.45 mg/l, Mg varies from 1.70 to 10.69 mg/l. The analysis revealed that ground water found potable. All the groundwater samples showed more or less similar and good quality of water.				
Surface water quality at 8 locations	PP submitted that pH varied from 6.66 to 7.02 indicating slightly acidic. The colour and turbidity found to be in the permissible limit and odour found agreeable at all the locations. BOD varied from 1.20 to 6.60 mg/l & COD varied from 4.0 to 20.0 mg/l indicating that water is clear.				
Soil quality at 9 locations	PP submitted that the soil samples exhibit brown and blackish which indicates good fertility and presence of organic matter in the soil samples. The organic matter (0.63% to 1.05%) and organic carbon (0.37% to 0.61%) present in the soil observed to be appropriate for the plant growth. The texture of the soil samples were loam, sandy loam and sandy clay loam. pH of the soil found to be slightly acidic ranging from 5.21 to 6.85. The analysis indicated that the soil quality within the study area is of a good quality and contains sufficient macronutrients which are vital for healthy plant life.				
Ground vibration	PP submitted that the report submitted by a group of experts from IIT Kharagpur shows that the ground vibration generated during blasting operation is well within the prescribed value as per DGMS guideline. Moreover, maximum precaution is taken in case of designing blast pattern and distribution of explosive charge. All the blast holes are fired with hole-to-hole delay pattern. PP also submitted that followings were some of the recommendations and conclusions of study as follows(i) The maximum value of blast induced ground vibration (PPV) monitored at 50-150 m from the blast site is 3.27 mm/s and there is no value recorded at the nearby locations, not belonging to the owner, (ii). The maximum projectile range of fly rock was observed as 10-15 m from the blast site and the air blast levels recorded were within the safe limits and (iii). It may be stated here that the vibration levels for the analysed blast vibrations for the study were within the stipulated limits and the damage to the nearby locations/structures and populace is minimum.				

Slope stability	PP submitted that regarding stability of slope the following precautions have been taken (i): At the bottom of the dump a high RCC wall has been constructed to arrest the solid waste passing outside the ML area, (ii). The height of each terrace are kept within the safety parameter as per IBM & DGMS Guideline, (iii). At the bottom of each terraces a channel is constructed which is attached with settling pond. The surface water of terraces is not flowing to another terrace during monsoon, (iv) Regular compacting after the end of mining operation is being done for better stability and (v) Coir matting as required area done.
Scenario of Pollution to be generated at the railway siding	PP submitted that about 10 Lakhs tonnes of material being transported through number of railway siding in which maximum 1.34 lakh tonnes of iron ore is being transported through Joroli railway siding. However, PP will maximize the dispatch subject to availability of rakes. PP also submitted the scenario of air pollution at sensitive receptors wherein the maximum resultant value was observed at mine site such as PM10: 91.618 µg/m ³ , NO ₂ : 27.06 µg/m ³ and SO ₂ : 13.32 µg/m ³ and at Town Kora PM _{2.5} found to be 53.61 µg/m ³ , Scenario of Noise level pollution at sensitive receptors wherein the maximum resultant value without EMP at mine site ranged between 47-74 dB (A). Further, PP submitted that Peak Particle Velocity Considering Charge per Hole 50 kg and 42 kg at sensitive receptors assuming that the blasting will be done at least 300 from the adjacent villages. Estimated PPV found to be 2.12 mm/s and 1.84 mm/s respectively which is well within the DGMS standards.
Baseline Test reports	PP submitted the analysis/testing reports of water sample collected on 11.01.2021, air quality monitored during the period Dec, 2020-Feb, 2021, soil sample collected on 11.01.2021 and noise level monitored during the period 04.01.2021 to 07.01.2021 accredited by the NABL approved laboratory "JM EnviroLab Pvt. Ltd." (Certificate no TC-6821).

19. Public Hearing (PH) Details:

Advertisement for PH with date	27.08.2021 The New Indian Express and Dharitri
Date of PH	29.09.2021 at 11:00 AM
Venue	Sidimba Community Center near Anganwadi Centre at Sidimba Village of Dengula G.P under Koira Block of Sundargarh District.
Chaired by	i. Chairperson: Shri Biswajit Mohapatra, Additional District Magistrate, Sundargarh, odisha. ii. Officers: Shri Vijay Kumar Bhoi, Asst. Env Engineer, State Pollution Control Board, Rourkela, Odisha
Main issues raised during PH	Educational facility, Medical/Health facility, Infrastructure development, skill development, livelihood opportunities etc.
Budget proposed for addressing issues raised during PH	Rs. 1.38 Crore

Additional information (if any)	PP submitted that Sarpanch of Dengula Village Panchayat requested the PP for construction of a hall of 500 sq.ft. to be used by the tribal dwellers for Gram Devi worshipping which was also submitted to Block Development Officer, Panchayat Samiti Office, Koira. Block Development Officer, Panchayat Samiti Office, Koira asked following information to submit vide their letter No – 953, dated 02.03.2022 (i) land schedule sketch map with NOC from Tehsildar, Koira and (ii) Plan and estimate of hall to be duly approved by the undersigned. The work for establishment of such hall is awaited for approval from Tahashildar, Koira. The process was delayed due to Panchayat & Zilla Parishad Election in Odisha. PP vide Lr No Ref: PM/BBL/BO/MoEF&CC /80/2022 dated 21.04.2022 informed that the construction of hall for community purpose will be increased from 500 sq.ft to 800 sq.ft (20 x 40).
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20. The Project Proponent submitted the EC Compliance report certified by Integrated Regional Office, Bhubaneshwar vide F.No. 101-844/EPE/595 dated 25.03.2021 and final closure report for the action taken by the PP vide F.No. 101-844/EPE/559 dated 17.05.2021. PP also submitted the certification of NEERI Compliance report issued by the Integrated Regional Office vide letter no 101- 691/EPE dated 25.02.2022. Further, PP submitted the Consent to Operate issued by the State Pollution Control Board, Odisha vide Order No. 3608/IND-I-CON-4691 dated 09.03.2021 for production of Iron Ore 2.0169 MTPA and Bauxite 0.13 MTPA and operation of crushing plant 2 x 200 TPH and operation of screening plant 3 x 200 TPH for the period up to 31.03.2026. PP has submitted the Compliance of the NEERI recommendation of carrying capacity for Odisha to the Regional Officer, Sate Pollution Control Board, Rourkela vide Letter Reference: PM/BBL/20-21/305 dated 16.10.2020.

20. The Project Proponent submitted that the mine is in operation since 1987. PP has submitted the past production data duly authenticated from the O/o of the Dy. Director of Mines, Koira vide Memo no 5130 dated 10.12.2020 for Iron ore and Bauxite from 1987 to 2020-2021 (upto November 2020) and it also mentioned that the production of Manganese ore is Nil since the inception of the mine. PP submitted that the Demand notice has been received from the O/o the Deputy Director of Mines, Koira Circle vide letter no 5134/Mines dated 02.09.2017 to pay the compensation of Rs. 79,19,97,665.73 (Rupees Seventy nine crore Nineteen lakh Ninety seven thousand Six hundred sixty five & Seventy three paise) for production without/in excess of the environmental clearance during 2000-01 to 2006-2007 in pursuance to the Judgment dated 02.08.2017 of Hon'ble Supreme Court in W.P.(C) No.114 of 2014 in the matter of common cause vs Union of India and Others. PP has paid the entire compensation in

the designated account and intimated the same to Deputy Director of Mines vide letter no PM/BBL/BO/DDM/1052/2017 dated 29.12.2017.

21. The Project Proponent submitted that the total mining lease area is 188.268ha of forest land. PP submitted that the surface right obtained from the office of the District Collector, Sundargarh vide Lr Ordre no: 155/(Mining) dated 08.02.2010 for the earlier retained area of 188.523 ha. No houses exist within the mine lease area and hence R&R is not applicable for this project.

22. The Project Proponent submitted that Hon'ble High Court Odisha vide- WP (CRL) No 1617 of 2013 has "STAYED" the hearing of Case No: 2 (C) CC No.32 of 2013 SDJM, Bonai, District -Sundargarh, Odisha.

23. Affidavit/Undertaking details

Affidavit in a Non-Judicial stamp paper of Rs 100 bearing L 191220 dated 03.12.2020 as per Ministry's OM dated 30.05.2018	I hereby undertake by affidavit that I have complied 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 vide Letter Reference: PM/BBL/BO/UG/249/2021 dated 29.11.2021	Jyoti Ranjan Rout, Vice President Authorized Signatory of Shri Prabodh Mohanty, give this undertaking to the effect that the conditions laid down in Terms of Reference prescribed by MoEF&CC, New Delhi vide letter no. J-11015/78/2020-IA.II(M) dated 05.02.2021 have been complied with, and the data submitted and the information presented in this report are factually correct.
Consultant submitted an Undertaking dated 29.11.2021	The Consultant submitted an undertaking to the effect that the conditions laid down in Terms of Reference prescribed by MoEF&CC, New Delhi vide letter no. J J-11015/78/2020-IA.II(M) dated 05.02.2021 have been complied as per data/details provided by Project Proponent & as per Review of Mining Plan approved by IBM, Bhubaneswar 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. 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.
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24. Details of the EMP:

Sl. No.	Activities	Existing Cost		Proposed Cost		Total Cost	
		Capital	Recurring	Capital	Recurring	Capital	Recurring
1.	Mitigative Measures	692.87	59.85	538.00	32.25	1230.87	92.10
2.	Monitoring	78.55	14.00	-	14.00	78.55	28.00
3.	Others - Digital mapping of the entire lease area once in five years	10.00	-	-	-	10.00	-
4.	EMP Budget for public hearing	-	-	138.00	29.00	138.00	29.00
	Total	781.42	73.85	676.00	75.25	1457.42	149.10

25. Details of project cost and employment:

Particulars	Budget (Rs. In Lakh)
Capital Cost for Environment Protection	Rs. 1320
Budget for addressing the Public Hearing issues	Rs. 138
Total Cost for EMP	Rs. 1458
Recurring Cost for EMP	Rs. 150
Project Cost	Rs. 7500
Employment	451 Persons

26. Observation and Recommendation of the Committee:

The proposal for Environmental Clearance was considered in the 49th EAC (Non Coal Mining) meeting held during 19th- 21st April, 2022. After detailed deliberations made by the Project Proponent and the Consultant, the Committee **recommended** the proposal for grant of Environmental Clearance for M/s Shri Prabodh Mohanty for KJST Iron Ore & Bauxite Mine with expansion in Iron Ore production capacity from 2.0169 to 2.80 MTPA ROM (2.41 MTPA Iron Ore + 0.39 MTPA mineral Reject), Iron Ore waste 1.50 MTPA, Top Soil 0.008 MTPA and Bauxite Production Capacity 0.13 MTPA (ROM),

Bauxite waste 0.10 MTPA (Total Excavation: 4.538 MTPA) along with 3 crushing unit (2 existing & 1 proposed) and 5 screening units (3 existing & 2 proposed within the mine lease area of 188.523 ha (Stage-II FC available) out of 188.268 ha, located at Villages Kalmanga, Jaldihi, Sidimba and Tantigram, Tehsil: Koira, District: Sundargarh, Odisha subject to the following specific conditions in addition to the standard EC conditions applicable for non-coal mining projects:

- i. The Environmental Clearance will be valid upto 19.01.2037 only.
- ii. The mining activity will be restricted to over an area of 188.523 ha for which Stage-II FC available out of 188.268 ha.
- iii. The Project Proponent shall ensure that at the time of felling of trees in the mine lease area due to expansion of production, marking list by the Forest Department should be countersigned by the PP. PP shall also the maintain the records of marking list.
- iv. The Project Proponent shall submit the action taken report to the Ministry's Integrated Regional Office on implementation of Scientific study carried out by Indian Institute of Technology, Kharagpur for slope stability and ground vibration annually or after the implementation which is earlier.
- v. 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.
- vi. The Project Proponent shall ensure that the afforestation should be only of native species namely Sal.
- vii. The budget of Rs 138.0 Lakhs to address the concerns raised by the public including in the public hearing to be completed within 3 years from the date of start of mining operations. PP shall comply with all action plans made for public hearing concerns and make regular maintenance and record the progressive activity outcomes.
- viii. The Project Proponent shall undertake the plantation by planting the seedling of 10 ft height with at least 90% survival rate and the entire peripheral plantation and the safety barrier plantation and gap plantation shall be completed within 6 months from the start of mining operations. The causalities of each year shallbe replaced every year with new saplings and such number of saplings shall notbe counted in the number of saplings proposed to plant in that year. The data for such saplings should be furnished during six monthly compliance report along

with the progressive plantation. PP shall undertake the progressive bench plantation up to HFL for eco restoration of water bodies.

- ix. The Project Proponent shall construct the community hall with the minimum size of 800 sq.ft of carpet size with the approval of Grama Sabha.
- x. The Project Proponent shall also organize employment-based apprenticeship/ internship training program every year with appropriate stipend for the youth and other programs to enhance the skill of the local people. The data should be maintained for the training imparted to the persons and the outcome of the training, for the assessment of the training program should be analyzed periodically and improved accordingly.
- xi. The Project Proponent should periodically monitor and maintain the health records of the mine workers digitally prior to mining operations, at the time of operation of mine and post mining operations.

2.7 Proposal for Environmental Clearance of M/s Ultra Tech Cement Ltd for Proposed Bela Cement Limestone Mine - 01 with Limestone Production Capacity of 1.5 Million TPA (ROM) and maximum 2.575 Lakh CuM (0.57 MTPA) Overburden per annum 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: JM EnviroNet Pvt Ltd]-Reconsideration of EC

EAC Meeting Details:

EAC meeting	49 th
Date of Meeting	19 th – 21 st April, 2022

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 Project Proponent 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 proposal was earlier considered in the 43rd EAC (Non Coal Mining) meeting held during 14th –16th December, 2021. After detailed deliberations made by the Project Proponent and the Consultant, the Committee 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 requisite information.

4. The Project Proponent vide Lr No Ref. No. UTCL/ENV/MUM/2022/46 dated 31.03.2022 submitted the information in PARIVESH portal and accordingly the proposal was reconsidered in the 49thEAC (Non Coal Mining) meeting held during 19th-21th April, 2022 wherein the PP submitted the following as mentioned below: -

Point (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.

Reply by PP: PP has submitted the detailed measures taken in point wise compliance of the MoEF&CC Office Memorandum No. Z11013/57/2014-IA.II(M), dated 29th October, 2014 as follows (a) The method of mining will be Open Cast Working with formation of benches by fully mechanized means by deploying Heavy Earth Moving Machineries. Wet-drilling with de-dusting arrangement will be deployed to prevent generation of dust during drilling operations. Controlled blasting technique will be adopted to minimize the ground vibration and flying fragments using NONEL. Rock breaker will be used to avoid secondary blasting. PP proposed to construct the following such as Garland drains (L*W*D = 590 m x 1 m x 1 m) and Retaining walls around the waste dump (L*W*D = 316 m x 0.5 m x 3 m) , Channelized Catch drains , 1 no. of Settling tank and 1 no. of sedimentation pond (L*W*D = 48 x 25 x 5), Construction of protective bunds along the nallah (L*H*W = 2020 x 2 x 8) and Construction of 2 Nos. of check dams in and around the area of mine boundary and its annual maintenance, (b) A seasonal nallah is passing adjacent to the Eastern part of the lease area which further joins the Kirari Nadi and which ultimately terminates into Satna River. No proposal to divert the nallah, Hence, 50 m safety barrier will be left all along the length of nallah.

Protective bunds of 8 m (bottom) & 2 m (Top) width and 2 m height along the entire length of nalla will be constructed and Plantation will be done for stabilization of bunds. Water quality analysis of nallah will be carried out. Surplus water will be given to farmers for agriculture purpose, (c) The Biological clock of the villagers will not be disturbed by orienting the floodlights/masks away from the villages and keeping the noise levels well within the prescribed limits for day/night hours, (d) There is no grazing land in the lease area, (e) PP reported that 57 nos of structures/houses of village Devra and Kothar fall inside the lease area which will be shifted. There is a school (village Kothar) within the lease area. Habitation of Village Devra, Narora and Kothar falls at adjacent to Boundary of lease area. As per the covenant by Licensee (Part II of FORM F under MCR 1960) provides that no mining operations shall be carried out within 50 meters of public works such as public roads and buildings or inhabited sites except with the prior permission from the Competent Authority. Hence company will leave 50 m safety barrier zone as No mining zone from the habitation/villages at the boundary and 100-300 m as No blasting zone and beyond controlled blasting will be adopted. Vibration Study has been carried out by JM EnviroNet Private Limited, (f) Haul road will be compacted with the help of Motor grader and Soil Compactor. Permanent water sprinklers will be installed for main haulage road (1.5 Km). Water sprinkling will be done through 1 water tanker (10 KL), at regular intervals on the dust prone areas such as haul roads and other possible dust generation area to suppress emission and distribution of dust particles. No crusher is proposed within the lease area. No Public Road will be used for Transportation. Haul roads of existing mines of 4 km to be used for transportation will be compacted and plantation will be carried out in an area of 13.67 Ha along the road with total 34175 Saplings, (g) PP submitted that they will ensure that the productivity of agricultural crops is not affected due to mining operations by constructing stone parapet wall along the ML boundary, adjoining agriculture fields to provide effective curtain between mining and agriculture fields. In case of any crop loss, PP will compensate through the Crop Liability Insurance Policy, if, available or on mutual agreement, (h) PP reported that there are 452 Project Affected Families, out of which total 395 families are having land within the Mining Lease Area. 57 houses exist in ML area, out of which 46 from Devra Village & 11 from Kothar village. PP proposes to relocate the habitation falling within the lease area and for the same PP has allocated Rs. 3.814 Crores as compensation in the following manner (i) Rs. 5 lakhs/PAFs as one time grant, (ii) Rs. 50000/PAFs as one time resettlement allowance (iii) Rs. 28.5 Lakhs as Transportation cost for displaced families (Rs. 50000/PAFs) and (iv). Rs. 20.52 Lakhs as Subsistence grant for displaced families for a period of one year. (Rs. 3000/PAFs). PP also proposed an alternative plan in case of non relocation as follows (i) PP submitted that they will leave 50 m safety barrier zone as no mining zone from the habitation/villages/school at the boundary and 50-300m as mining without drilling & Blasting zone and beyond 300 m controlled blasting will be adopted., (i) Total Limestone

Handling in the mine will be 5000 TPD. The blasted limestone loaded by excavators & then transported to Crusher with capacity of 900 TPH (located at Cement Plant) through well maintained haul road of 4 km passing through the existing leases (Mining Lease Area of 200.554 ha & 249.139 ha) of M/s UltraTech Cement Limited. No Public Road will be used for Transportation. Haul roads within existing mines of same lessee of 4 km to be used for transportation will be compacted and plantation will be carried out in an area of 13.67 Ha along the road with total 34175 Saplings. (j) PP submitted that there are two tar roads one is connecting village Devra to village Narora and other is connecting village Kothar to village Narora which will not be disturbed and a 50 m safety barrier zone will be left on either side of the road followed by plantation. There are two kaccha rasta within the lease which terminates within the lease area, hence after acquiring the land the said kaccha road will be taken under mining and (k) PP submitted that Bela Cement work has spent Rs. 352.64 Lac till date under CSR. The mine shall be contributing around Rs. 23.04 Crore every year to the State and Central Govt. exchequer by way of mining revenue (Royalty, DMF, NMET etc) after the lease is executed and the mine is operated with the proposed capacity. Company also allocated budget of Rs. 357 Lakhs under Socio Economic Development of the neighbourhood Habitats. PP earmarked a budget of Rs. 3.814 Crores as compensation for relocation of the habitation falls within the lease area.

Point (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 disturbed and should reach the river even after start of the mining activity.

Reply by PP: PP submitted that no nallah has been diverted due to mining in the mine lease area by M/s. UltraTech Cement Limited and no mining has been carried out by M/s. UltraTech Cement Limited. Letter regarding no mining carried out in the lease area has been obtained from Office of Collector (Department of Mines), Satna vide Lr No 1685/Mineral/2018, dated 11.06.2018. A Nallah is flowing at the eastern boundary of the mine lease area falling towards the Northern side. The nallah is seasonal in nature and originates outside of the eastern boundary of the lease area and terminates into kariari Nadi. In initial 10 years, there is no mining proposed in the middle section of the lease area and hence the catchment area of the nallah will not be disturbed for next 10 years. Till the time mining proposed in the said area, already excavated area in Northern direction will be backfilled & the rainwater/runoff will be channelized through drains along with sedimentation/siltation pond/check filters which will control the overflow, arrest silt and allow the clear water to merge in the natural flow of the nallah. After curtailing the 50 m safety barrier during the grant of lease; additionally, 42.5 m width will be left all along the sides of nallah in the final stages of mining by cutting and backfilling in such a way that the safety barrier of additional 42.5 m will always be maintained after

leaving 7.5 m of safety zone plantation. PP also proposes to backfill the waste in the pit (0.57 ha) of the illegal mining in the lease area to maintain the 50 m safety barrier all along the nallah. PP submitted that they will leave 50 m safety zone on the other side of the nallah in the final stages of mining by cutting and backfilling in the other adjacent leases of same lessee. PP also proposes to construct bunds of 8 m (bottom) & 2 m (Top) width and 2 m height along the entire length of the nallah followed by Plantation. This unmined statutory barrier will serve part catchment of the area and will provide regular flow to the nallah during monsoon times. Nallah will also continue to catch part of seepage coming from applied irrigation outside the ML area. PP submitted that total budget allocated for rainwater harvesting ponds and check dams is Rs. 17 Lakhs.

Point (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.

Reply by PP: PP submitted that they will leave 50 m safety barrier zone as no mining zone from the habitation/villages/school at the boundary and 50-100 as no blasting zone and in 100-300 m, controlled blasting will be adopted as per the DGMS norms. There is no provision of mining activity in next 15 years in and around that area, hence, the school will not be disturbed at this stage. PP reported that at 9 locations ground vibration were monitored during trial blast. PP also reported that at a different distance of blast from structures following maximum safe charge per delay recommended as follows 100-150m (26 kg), 151-200m (58 kg), 200-300m (103 kg) and > 300m (233 kg). The overall difference in the numerical simulation-based prediction and statistical prediction is in the range of 12 -34 %. PP also submitted the mathematical modeling for anticipated Ground Vibration due to Blasting carried out during February 2022 in Kothar (School included) and in Devra Village with a distance of 300 m from blasting, max. charge per delay of 26 kg with predicted Peak Particle Velocity (PPV) of 2.0 mm/s which is well within the safe level of DGMS norms. Based on the simulation result of Numerical Model and the experimental blasts conducted at the existing mine, the impacts of blasting in the form of ground vibration, flyrock and noise/air overpressure can be controlled and blasting operations can be carried out safely without affecting the nearby village houses/structures and their denizens.

Point (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.

Reply by PP: PP reported that there are 57 structures/houses falls within the lease area. PP proposes to relocate the habitation falling within the lease area and for the same PP has allocated Rs. 3.814 Crores as compensation in the following manner (i) Rs. 5 lakhs/PAFs as one time grant, (ii) Rs. 50000/PAFs as one time resettlement allowance (iii) Rs. 28.5 Lakhs as Transportation cost for displaced families (Rs. 50000/PAFs) and (iv). Rs. 20.52 Lakhs as Subsistence grant for displaced families for a period of one year. (Rs. 3000/PAFs). PP also proposed an alternative plan in case of non relocation as follows (i) PP submitted that they will leave 50 m safety barrier zone as no mining zone from the habitation/villages/school at the boundary and 50-100 m as no blasting zone and in 100-300 m controlled blasting will be adopted as per the DGMS norms, (ii) In case of non shifting of shops/infrastructures/Habitation along the road, proposed to install permanent continuous monitoring station at a distance of 100 m from the road (24°31'10.64"N, 81°8'43.42"E) in northern part of the lease area as mining is being proposed for first 15 years in the northern part of the lease area and also it is near to the habitation and will act as safety provision and for the same PP has allocated Rs. 65 lakhs for monitoring purpose and (iii) PP proposed to carry out the plantation in the safety zone of 50 m in consultation with Gram panchayat.

Point (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.

Reply by PP: PP reported that there are approximately 217 numbers of trees, shrubs and herbs such as Neem, Amaltas, Ashok etc., exist in the mining lease area which will be cut down during the mining operation. PP submitted that before cutting down the trees, they will approach the Forest Department to visit the site for demarcation of trees with their type. PP also submitted that they will cut down the trees and will provide the same to the land owners or will provide to patwari for the auction of trees. Further, PP submitted that they will also help the preferred bidder to obtain the transit permit from the Forest Department for selling and transportation of trees. PP also submitted that 10 times more than the trees cut will be planted in the same villages in consultation with Gram Panchayat. PP reported that total 198.668 ha area will be covered under green belt and plantation (6.5 ha on upper two worked out benches, 159.811 ha over backfilled area, 19.657 ha on 7.5 m lease periphery, 12.7 ha along safety zones of habitation, nallah, electric lines, roads etc). Apart from this, 39.95 ha of backfilled area will be covered under re-grassing. Sapling of local species like *Azadirachta indica*

(Neem), *Cassia fistula* (Amaltas), *Mangifera indica* (Mango), *Saraca asoca* (Sita Ashoka), *Terminalia arjuna* (Arjun), *Tamarindus indica* (Imli), *Syzygium cumini* (Jamun), etc. will be planted. PP submitted the year wise detailed greenbelt/plantation plan and reported that total of 4,96,670 saplings will be planted over an area of 198.668 ha till the life of the mine i.e., 2031-2035. PP also submitted the conceptual plan and section showing the greenbelt/plantation. PP earmarked a budget of Rs. 140.06 Lakhs (Capital) and Rs. 63 Lakh/annum (Recurring) for greenbelt and plantation for the entire life of mine.

Point (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.

Reply by PP: PP reported that at the conceptual stage, 100.479 ha will be converted into water reservoir, out of which 6.5 ha will be covered under plantation on upper two worked out benches. During 1st five year there will be no seepage. PP also reported that about 191.21 KLD rainwater will be accumulated in the mining pit area at 5th year stage. At the conceptual stage, about 1746 KLD water will be accumulated in the pit area of 100.479 ha. After 4th year of mining operations, rainwater accumulated in mine pits shall be sufficient to meet the overall water requirement after reduction of annual losses. PP submitted that surplus water (101.21 KLD during plan period and 1656 KLD at conceptual stage) will be provided to farmers of nearby villages for agriculture purpose through pipeline. PP also submitted that arrangement will be made for pumping out of stored water to provide for villagers so that it can be used for agriculture. Further, PP submitted that display of warning signs and display boards in local vernacular language will be in place to alert people about the danger. Strict access control will be maintained at active mining areas. Proper fencing will be done all around the water reservoir.

Point (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.

Reply by PP: PP submitted that as per the advice of the EAC (Non Coal Mining), budget allocated for “*permanent water sprinkling arrangements for main haulage road (1.5km) and one tanker mounted (10KL) water sprinkling system*” has been removed and the same budget has been considered for “*Restoration of Nallah, 2500 Plantation outside the lease area & laying of pipeline to transport surplus water to villagers*”.

Point (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.

Reply by PP: PP reported that the total mine lease area is 415.097 ha, out of which 14.338 ha is Government land and 400.759 ha is Private land. PP submitted that the area of 55.275 ha is under possession of M/s Ultra Tech Cement Ltd. PP also reported that the mine lease area of 415.097 ha involves of water body (8.82 ha), agriculture Land (143.612 ha), mine quarry (21.505 ha), open scrub (239.815 ha) and human settlement (1.345 ha). PP submitted that at the end of the conceptual plan excavation will be done over an area of 100.479 ha, reclamation (backfilled) will be covered over an area of 199.761 ha, plantation/greenbelt over an area of 19.567ha and Undisturbed area/ Balance land (Restricted area, non-mineralized area, nala barrier etc.) will be 95.20 ha. PP also submitted the Khasra Schedule of area sanctioned for mining lease in Village Deora over an area of 230.522 ha and Kothar over an area of 184.575 ha covering a total mine lease area of 415.097 ha. Further, PP also submitted the cadastral plan showing the khasra wise purchased land, Govt. land, land to be purchased and restricted area.

Point (ix). The Project Proponent needs to submit the timeline for land acquisition of 345.48 ha in the mine lease area.

Reply by PP: PP reported that the total mine lease area is 415.097 ha which falls in Village Devra, Tehsil Rampur Baghelan and Village Kothar, Tehsil Amarpatan of District Satna, Madhya Pradesh. PP submitted that 14.338 ha is Government land and 400.759 ha is Private land. Out of the total 400.759ha Private land, 55.275 ha land has been acquired and 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. PP also submitted that the area of 345.483 ha will be acquired in the phased manner and submitted the year wise timeline for land acquisition of 345.483 ha stating that an area of 10 ha will be acquired during the year 2021-22, 50 ha during the year 2022-23, 75 ha during the year 2023-24, 125 ha during the year 2024-25 and 85.48 ha during the year 2025-26.

Point (x). The Project Proponent needs to submit the timeline for stopping the crusher operation in the mine lease area.

Reply by PP: PP submitted that they are taking continuous actions with the help of District administration for deployment of SISF, Filing FIR/Complaints to stop the operation of stone crushers in the mine lease area. PP also submitted that they will try to stop the crusher’s operation within next 8 to 12 months.

Point (xi). The Project Proponent needs to submit the copy of FIR filed against Stone Crushers operating within the lease area in the PARIVESH portal.

Reply by PP: PP submitted that there are various stone crushers operating in the lease area by the villagers. PP submitted that to stop their operations, new establishments, FIR/Complaints have been lodged against the crusher installed in the proposed mining lease area. PP also submitted the copy of FIR/Complaints written to concerned authorities on 11.08.2018, 13.08.2018, 21.08.2018, 27.12.2018, 21.01.2019, 11.11.2019, 21.11.2019, 05.01.2020, 20.05.2020, 26.08.2020, 03.09.2020, 05.09.2020, 17.09.2020, 22.09.2020, 23.09.2020, 17.10.2020, 19.10.2020 & 30.12.2021 and also the copy of the newspaper cutting showing the actions done to stop the operations of the crushers in the lease area and the PP uploaded the same in PARIVESH portal.

Point (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.

Reply by PP: PP submitted the analysis/testing reports of water sample collected on 05.11.2018, air quality monitored during the period Oct-Dec, 2018, soil sample collected on 05.11.2018 and noise level monitored during the period 29.10.2018 to 05.11.2018 accredited by the NABL approved laboratory “JM EnviroLab Pvt. Ltd.” (Certificate no TC-6821).

5. 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 J-11015/ 4/2018- IA.II(M)	18-19 th Jan, 2018, 22-23 rd Mar, 2018, 19-20 th July, 2018, Site visit by sub- committee on 20- 21 Aug, 2018 and in EAC on 28-29 th Sep, 2018	Terms of Reference for production of 1.5 million TPA (ROM) Limestone in the mine lease area of 415.097ha	19.11.2018

6. 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.

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

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
Additional information (if any)	PP also submitted the Khasra Schedule of area sanctioned for mining lease in Village Deora over an area of 230.522 ha and Kothar over an area of 184.575 ha covering a total mine lease area of 415.097 ha. Further, PP also submitted the cadastral plan showing the khasra wise purchased land, Govt. land, land to be purchased and restricted area.

8. The Project Proponent submitted that the Mining Plan with Progressive Mine Closure Plan approved by Indian Bureau of Mines (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 Indian Bureau of Mines (IBM) vide Lr No. F.No 716/5/C/2017 dated 22.03.2018 stating that the approval accorded for Mining Plan in respect of Devra Limestone Mine Deposit over an area of 415.097ha in Village Devra & Kothar, District – Satna of Madhya Pradesh in favor of M/s Jai Prakash Associates Ltd. by this office stands transferred in favour of M/s UltraTech Cement Ltd due to transfer of lease and after satisfying the all conditions. All other conditions contained in the approval of Mining

Plan vide letter No MP/Satna/Limestone/MPLN/G-16/2016-17 dated 23.02.2017 shall remain unchanged and binding on you.

9. 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. PP submitted that at the end of the conceptual plan excavation will be done over an area of 100.479 ha, reclamation (backfilled) will be covered over an area of 199.761 ha, plantation/greenbelt over an area of 19.567ha and Undisturbed area/ Balance land (Restricted area, non-mineralized area, nala barrier etc.) will be 95.20 ha.

10. 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-Amarapatan 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.

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

Particulars	Particular's Name	Distance & Direction
Nearest village	Devra & Kothar	Habitation falls within the mine 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 Baghai Road Railway station	~3.0 km, NNW ~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

12. 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	i. NOC obtained vide CGWA/NOC/MIN/ORIG/2021/13856 dated 30.11.2021 for fresh water abstraction of 90m ³ /day and dewatering of 393.0 m ³ /day for the period up to 29.11.2023. ii. NOC for Ground Water withdrawal obtained for Cement Industry vide CGWA/NOC/IND/ORIG/2018/4220 dated 05.11.2018.		
Additional information (if any)	PP reported that at the conceptual stage, 100.479 ha will be converted into water reservoir, out of which 6.5 ha will be		

	<p>covered under plantation on upper two worked out benches. During 1st five year there will be no seepage. PP also reported that about 191.21 KLD rainwater will be accumulated in the mining pit area at 5th year stage. At the conceptual stage, about 1746 KLD water will be accumulated in the pit area of 100.479 ha. After 4th year of mining operations, rainwater accumulated in mine pits shall be sufficient to meet the overall water requirement after reduction of annual losses. PP submitted that surplus water (101.21 KLD during plan period and 1656 KLD at conceptual stage) will be provided to farmers of nearby villages for agriculture purpose through pipeline. PP also submitted that arrangement will be made for pumping out of stored water to provide for villagers so that it can be used for agriculture. Further, PP submitted that display of warning signs and display boards in local vernacular language will be in place to alert people about the danger. Strict access control will be maintained at active mining areas. Proper fencing will be done all around the water reservoir.</p>
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13. 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 submitted the letter obtained 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.

14. Green belt/plantation details:

Proposed area for green belt/plantation	PP reported that 198.668 ha under greenbelt/plantation and 39.95 ha of backfilled area will be covered under re-grassing.
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
50 m safety zone of nallah, roads, electric lines	12.70 ha
500 m safety zones of nearest habitation villages	
Backfilled area	159.811 ha
Upper two worked out benches	6.5 ha
Additional information (if any)	PP reported that there are approximately 217 numbers of trees, shrubs and herbs such as Neem, Amaltas, Ashok etc., exist in the mining lease area which will be cut down during the mining operation. PP submitted that before cutting down the trees, they will approach the Forest Department to visit the site for demarcation of trees with their type. PP also submitted that they will cut down the trees and will provide the same to the land owners or will provide to patwari for the auction of trees. Further, PP submitted that they will also help the preferred bidder to obtain the transit permit from the Forest Department for selling and transportation of trees. PP also submitted that 10 times more than the trees cut will be planted in the same villages in consultation with Gram Panchayat. PP reported that total 198.668 ha area will be covered under green belt and plantation (6.5 ha on upper two worked out benches, 159.811 ha over backfilled area, 19.657 ha on 7.5 m lease periphery, 12.7 ha along safety zones of habitation, nallah, electric lines, roads etc). Apart from this, 39.95 ha of backfilled area will be covered under re-grassing. Sapling of local species like <i>Azadirachta indica</i> (Neem), <i>Cassia fistula</i> (Amaltas), <i>Mangifera indica</i>

	(Mango), <i>Saraca asoca</i> (Sita Ashoka), <i>Terminalia arjuna</i> (Arjun), <i>Tamarindus indica</i> (Imli), <i>Syzygium cumini</i> (Jamun), etc. will be planted. PP submitted the yearwise detailed greenbelt/plantation plan and reported that total of 4,96,670 saplings will be planted over an area of 198.668 ha till the life of the mine i.e., 2031-2035. PP also submitted the conceptual plan and section showing the greenbelt/plantation. PP earmarked a budget of Rs. 140.06 Lakhs (Capital) and Rs. 63 Lakh/annum (Recurring) for greenbelt and plantation for the entire life of mine.
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15. 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 %ile, $\mu\text{g}/\text{m}^3$	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.
Ground Vibration	PP submitted the mathematical modeling for anticipated Ground Vibration due to Blasting carried out during February 2022 in Kothar (School included) and in Devra Village with a distance of 300 m from blasting, max. charge per delay of 26 kg with predicted Peak Particle Velocity (PPV) of 2.0 mm/s which is well within the safe level of DGMS norms.
Baseline Test reports	PP submitted the analysis/testing reports of water sample collected on 05.11.2018, air quality monitored during the period Oct-Dec, 2018, soil sample collected on 05.11.2018 and noise level monitored during the period 29.10.2018 to 05.11.2018 accredited by the NABL approved laboratory “JM EnviroLab Pvt. Ltd.” (Certificate no TC-6821).

16. 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

17. Court case details:

Court Case/litigations	No
Additional information (if any)	<p>PP submitted that there are various stone crushers operating in the lease area by the villagers. PP submitted that to stop their operations, new establishments, FIR/Complaints have been lodged against the crusher installed in the proposed mining lease area. PP also submitted the copy of FIR/Complaints written to concerned authorities on 11.08.2018, 13.08.2018, 21.08.2018, 27.12.2018, 21.01.2019, 11.11.2019, 21.11.2019, 05.01.2020, 20.05.2020, 26.08.2020, 03.09.2020, 05.09.2020, 17.09.2020, 22.09.2020, 23.09.2020, 17.10.2020, 19.10.2020 & 30.12.2021 and also the copy of the newspaper cutting showing the actions done to stop the operations of the crushers in the lease area. Following security precautions was adopted not to take material from the inside the mine lease area as mentioned below:</p> <ol 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

18. Rehabilitation & Resettlement (R&R):

R & R details	<ol 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. PP also submitted that the area of 345.483 ha will be acquired in the phased manner and submitted the year wise timeline for land acquisition of 345.483 ha stating that an area of
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	<p>10 ha will be acquired during the year 2021-22, 50 ha during the year 2022-23, 75 ha during the year 2023-24, 125 ha during the year 2024-25 and 85.48 ha during the year 2025-26.</p> <p>iii. There are 452 Project Affected Families, out of which total 395 families are having land within the mine lease area</p> <p>iv. 57 houses exist in ML area, out of which 46 from Devra Village & 11 from Kothar village.</p> <p>v. Budget proposed for the R&R Action plan is Rs. 142.643 Cr.</p>
Shops/infrastructures along the road	<p>PP reported that there are 57 structures/houses falls within the lease area. PP proposes to relocate the habitation falling within the lease area and for the same PP has allocated Rs. 3.814 Crores as compensation in the following manner (i) Rs. 5 lakhs/PAFs as one time grant, (ii) Rs. 50000/PAFs as one time resettlement allowance (iii) Rs. 28.5 Lakhs as Transportation cost for displaced families (Rs. 50000/PAFs) and (iv). Rs. 20.52 Lakhs as Subsistence grant for displaced families for a period of one year. (Rs. 3000/PAFs). PP also proposed an alternative plan in case of non relocation as follows (i) PP will leave 50 m safety barrier zone as no mining zone from the habitation/villages/school at the boundary and 50-100 as no blasting zone and in 100-300 m controlled blasting will be adopted as per the DGMS norms, (ii) In case of non shifting of shops/infrastructures/Habitation along the road, proposed to install permanent continuous monitoring station at a distance of 100 m from the road (24°31'10.64"N, 81°8'43.42"E) in northern part of the lease area as mining is being proposed for first 15 years in the northern part of the lease area and also it is near to the habitation and will act as safety provision and for the same PP has allocated Rs. 65 lakhs for monitoring purpose and (iii) PP proposed to carry out the plantation in the safety zone of 50 m in consultation with Gram panchayat.</p>

19. 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.

20. 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

21. 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

22. Observation and Recommendation of the Committee:

The proposal for Environmental Clearance was considered in the 49th EAC (Non Coal Mining) meeting held during 19th- 21st April, 2022. After detailed deliberations made by the Project Proponent and the Consultant, the Committee **recommended** the proposal for grant of Environmental Clearance for M/s Ultra Tech Cement Ltd 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 subject to the following specific conditions in addition to the standard EC conditions applicable for non-coal mining projects:

- i. The Project Proponent shall maintain the 42.5 m width will be left all along the sides of nallah in the final stages of mining by cutting and backfilling in such a way that the safety barrier of additional 42.5 m will always be maintained after leaving 7.5 m of safety zone plantation in addition to the statutory 50 meter safety barrier zone. No nallah should be diverted.
- ii. The Project Proponent shall monitor the air quality, noise level and ground vibration at all sensitive receptor such as school, villages, etc. PP shall also monitor air quality, noise level and ground vibration in the villages in buffer zone and also the other mines which is operated by M/s Ultra Tech Cement Ltd for generation of real time baseline information which can be later used on carrying capacity if contemplated.
- iii. The Project Proponent shall monitor the water quality in the impact zone such as water reservoir, river water with specific reference to the parameter Langelier Saturation Index which will denote the impact of calcium carbonates on water bodies and these parameters and determine the tendency of water to form calcium carbonate scaling.
- iv. 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.
- v. The Project Proponent shall strictly follow the mitigation measures provided in MoEF&CC Office Memorandum No. Z-11013/57/2014-IA.II(M), dated 29th October, 2014.
- vi. The budget of Rs 3.57 Cr to address the concerns raised by the public including in the public hearing to be completed within 3 years from the date of start of mining operations. PP shall comply with all action plans made for public hearing concerns and make regular maintenance and record the progressive activity outcomes.
- vii. The Project Proponent shall carryout the plantation by planting the seedling of 10 ft height with at least 90% survival rate and the entire peripheral plantation and

the safety barrier plantation shall be completed within 6 months from the start of mining operations. The causalities 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. The data for such saplings should be furnished during six monthly EC compliance report along with the progressive plantation. PP shall undertake the progressive bench plantation up to HFL for eco restoration of water bodies.

- viii. The Project Proponent shall also organize employment-based apprenticeship/ internship training program every year with appropriate stipend for the youth and other programs to enhance the skill of the local people. The data should be maintained for the training imparted to the persons and the outcome of the training, for the assessment of the training program should be analyzed periodically and improved accordingly.
- ix. The Project Proponent should implement the Rehabilitation of project affected families (PAFs) and payment of compensation to PAFs as per the policy and guidelines of the Central/State Government, as provided under the law.
- x. The Project Proponent should periodically monitor and maintain the health records of the mine workers digitally prior to mining operations, at the time of operation of mine and post mining operations. Regular surveillance on Silicosis shall be carried through regular occupational health check-up every year for mine workers.

2.8 Proposal for Environmental Clearance of M/s Tata Steel Limited 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 [Iron ore (ROM): 19.5 MTPA + OB waste: 2.64 MTPA + Re-handling of MR dump: 0.8 MTPA] and Beneficiation Plant throughput capacity increase from 12.0 MTPA to 17.6 MTPA in the mine lease area of 612.700 ha [567.087 ha (Stage II FC available) + 45.613 ha (Non Forest land)] out of 654.743 ha [671.093 ha (Joda East Iron Ore mine) – 16.35 ha (Manmora Manganese mine)], 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: Vimta Labs Limited] - Reconsideration of EC

EAC Meeting Details:

EAC meeting	49 th
Date of Meeting	19 th – 21 st April, 2022

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 [19.5 MTPA (ROM), OB Waste: 2.64 MTPA and Rehandling of MR dump: 0.8 MTPA] and Beneficiation Plant throughput capacity increase from 12.0 MTPA to 17.6 MTPA in the mine lease area of 612.700 ha [567.087 ha (Stage II FC available) + 45.613 ha (Non Forest land)] out of 654.743 ha [671.093 ha (Joda East Iron Ore mine) – 16.35 ha (Manmora Manganese mine)], 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 Project Proponent 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 proposal was earlier considered in the 43rd EAC (Non-Coal Mining) meeting held during 14th – 16th December, 2021. After detailed deliberations made by the Project Proponent and the Consultant, the Committee 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 requisite information.

4. The Project Proponent vide Lr No MD/ENV/74/100/2022 dated 28.02.2022 submitted the information sought by the EAC in its meeting held during 14th – 16th December, 2021 and accordingly the proposal was reconsidered in the 49th EAC (Non Coal Mining) meeting held during 19th – 21st April, 2022 wherein the PP submitted the following: -

Point (i): The Project Proponent needs to submit the breakup of total excavation of 22.94 MTPA.

Reply by PP: PP submitted that the entire excavation is proposed from the Joda East Iron Mine lease area only without any excavation from the Manmora Manganese lease area. The total excavation of 22.94 MTPA includes 19.5 MTPA (ROM), OB Waste: 2.64 MTPA and Rehandling of MR dump: 0.8 MTPA.

Point (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.

Reply by PP: PP submitted the compliance to the Approved Progressive Mine Closure Plan for the period 2015-16 to 2019-20 as mentioned below:

Year	Afforestation over dump area		Afforestation over embankment		Afforestation on worked-out benches		Afforestation on waste land within lease	
	Proposed	Actual	Proposed	Actual	Proposed	Actual	Proposed	Actual
2015-16	500	2000	1000	2947	500	1303	1000	4000
2016-17	500	880	1000	1370	500	4243	1000	1391
2017-18	500	2000	1000	1500	500	Nil	1000	Nil
2018-19	Nil	Nil	1000	400	500	Nil	1000	200
2019-20	Nil	Nil	1000	200	500	Nil	1000	100
Total	1500	4880	5000	6417	2500	5546	5000	5691

PP also submitted the copy of the approved scheme of mining including Progressive Mine Closure Plan of Manmora Manganese mine vide letter no. MS/OTFM/41-ORI/BHU/2014-15/138 dated 07.04.2015 for the period 2015-16 to 2019-20 over an area of 16.35 ha. Further, PP submitted that the MoEF&CC Regional Office Bhubaneswar, in its inspection report has also certified compliance to the approved Progressive Mine Closure Plan based on their site visit on 02.02.2022 and issued the Certified compliance report vide letter no. 109-41/21/EPE/364 dated 18.02.2022. PP submitted that since there are no extractable reserves of Manganese ore in Manmora Manganese Mine, proposal for review of mining plan was not approved by IBM and hence we have prepared a draft Final Mine Closure Plan (FMCP) which is ready for submission to IBM for approval. PP submitted that they are waiting for the issue of final

notification for submission of FMCP as per the new format which is likely to be published shortly.

Point (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.

Reply by PP: PP submitted that Joda East Iron ore mine is operated on a 24/7, 365 days operation on a three-shift basis. Impact assessment studies and EMP have been carried out considering the same for a peak excavation of 22.94 MTPA.

Point (iv): The Project Proponent needs to submit the data monitored for ground vibration as per the recommendation of CIMFR.

Reply by PP: PP submitted the data monitored for ground vibration for the period FY21 & FY22 (till Dec'21). PP reported that the maximum vibration recorded was 5.693 mm/s with dominant peak frequency of 7.2 Hz at near Weigh Bridge at 480 m from the blast conducted at Baspani (D-Block) bench face. In the same blast the vibration recorded towards Baspani Village at 670 m was below 0.5 mm/s. It indicates the fast attenuation of vibration magnitude. The maximum level of air over-pressure/noise recorded was 111.1 dB (L) at 480 m (near Weigh Bridge) from the blast conducted at Baspani (D-Block) face. The scattering test of Nonel delay detonators were conducted for detonators of M/s Indian Explosives Pvt. Ltd (Orica) were found satisfactory but the TLDs of M/s IDL Explosives have significant scattering. The acceptable scattering for TLDs is ± 5 ms and for DTHs is ± 10 ms. PP also reported that the statutory limit prescribed for ground vibration as per DGMS technical circular 7 of 1997, concerning to blast vibration standard is 5 mm/s (for domestic houses/ structures not belonging to owner) and it was observed that the ground vibration due to blasting activities at Joda East Iron Mine is well within the prescribed limits.

Point (v): The Project Proponent should explore the possibility of installing sensor-based water sprinklers.

Reply by PP: PP submitted that the fixed water sprinkling system has a solenoid-valve based system which enables release of water through the sprinkler cones at programmable time-relays. Based on the field conditions, the time-relays are reset. PP submitted that they shall get a study conducted to explore the feasibility of installation of sensor-based water sprinklers and based on the recommendations of the same it will be implemented.

Point (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.

Reply by PP: PP submitted that in EC letter dated 11.03.2013, the forest land is mentioned as 608.906 ha. As per the guideline no. F.No.8-78/1996-FC(pt.) dated 10.03.2015 of MoEF&CC, “...*in all such virgin/unbroken areas falling in the mining leases which were or are recorded as ‘forest’ in the Government record on or after 25th October 1980, but while processing and/or approving the proposals under the FC Act for use of forest land located in such mining leases for non-forest purpose, were treated as ‘non-forest’, is undertaken only if the prior approval of Central Government under the FC Act for use of such areas for mining purposes has been obtained or is obtained...*” PP submitted that the post this guideline, the Tehsildar vide Lr No. 2726/Date 04.06.2016 certified that land schedule of Sabik Forest land over 16.574 ha falls within the lease hold of Joda East Iron & Manmora Mn mines out of 671.093 ha of lease. This Sabik Forest land of 16.574 ha was categorized as forest land only after 10.03.2015. After 10.03.2015, the total forest area increased to 625.480 ha (608.906 ha + 16.574 ha). Therefore, the total lease area of 671.093 ha consists of 625.480 ha of forest land and 45.613 ha of non-forest land. A separate DRP proposal vide letter No. JCO/13/453/5-B dated 01.07.2016 has been applied for diversion of this 16.574 ha forest area.

Point (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.

Reply by PP: PP submitted the copy of the extension of validity period of mining lease for Manganese ore issued by Department of Steel & Mines, Govt. of Odisha vide Lr No. 3273/III(MN)SM(RML)-01/2008/S&M, Bhubaneswar dated 18.04.2015 from the date of expiry of the last valid period of lease i.e., 01.07.2005 up to 31.03.2030 over an area of 16.36 ha. PP also submitted the copy of supplementary lease deed made on 06.05.2015 and registered on 07.05.2015 between the Governor of Odisha and M/s Tata Steel Limited for the period up to 31.03.2030.

Point (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.

Reply by PP: PP submitted the copy of the certified EC compliance report issued by Integrated Regional Office, Bhubaneswar vide letter no. 109-41/21/EPE/364 dated

18.02.2022 for the EC dated 29.06.2011 for Manmora Manganese lease wherein the IRO mentioned that no non-compliances detected. PP also submitted the copy of Environmental Clearance issued by the SEIAA/329 dated 29.06.2011 for Manmora Manganese lease and EC was valid for a period of 5 years. Thereafter, PP obtained the extension of validity of Environmental Clearance vide Lr Ref No: SEIAA/1925 dated 31.08.2016 for the period upto 30 years or upto the lease period or the life of the mine whichever is less.

Point (ix): The Project Proponent needs to submit the past production details duly authenticated by DMG for Manmora Manganese lease and its lease details/documents.

Reply by PP: PP submitted the copy of the past production details duly authenticated by Joint Director Mines, Joda vide Lr Memo No. 741/Mines, dated 15.02.2022 for the period 1993-94 to 2020-21 for Manmora Manganese lease.

Point (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.

Reply by PP: PP submitted the copy of the No Objection Certificate (NOC) for Ground Water abstraction vide NOC no. CGWA/NOC/MIN/REN/1/2021/6428 for abstraction of 460 cu.m/day of fresh water which is valid from 10.10.2020 to 09.10.2022.

Point (xi): The Project Proponent needs to submit the compliance of NEERI conditions certified by Integrated Regional Office, MOEF&CC.

Reply by PP: PP submitted that the copy of the certified EC compliance report issued by the Integrated Regional Office (IRO), Bhubaneswar vide Lr no. 101-529/09/EPE/835 dated 04.05.2021 wherein IRO observed that the non-compliances detected. PP submitted the action taken report vide letter dated 13.05.2021. IRO vide Lr No. 101-529/09/EPE dated 03.06.2021 examined the reply of the PP w.r.t. non-compliances and observed that the project authorities have complied/are in the process of complying or assured to comply with the conditions stipulated by the Ministry. Accordingly, the action taken report may be considered for further necessary action. PP also submitted that the compliance of NEERI conditions has already been certified by IRO MoEFCC Bhubaneswar.

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

Date of	Proposal	Consideration	Details	Date of
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Minutes of 49th EAC Meeting (Non-Coal Mining) held during 19th to 21st April, 2022

application	No/File No			accord
26.09.2011	IA/OR/MIN/ 20472/2011 J-11015/ 215/2008- IA.II(M)	-	Environmental Clearance for 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 J-11015/ 215/2008- IA.II(M)	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 and EIA/EMP report submitted to the Ministry	07.09.2018
PP applied on 31.03.2019 for amendment in EC dated 11.03.2013	IA/OR/MIN/ 99283/2019 J-11015/ 215/2008- IA.II(M)	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	-	Environmental Clearance 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	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

6. 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

7. 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.

8. 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 submitted that the extension of validity period of mining lease for Manganese ore issued by Department of Steel & Mines, Govt. of Odisha vide Lr No. 3273/III(MN)SM(RML)-01/2008/S&M, Bhubaneswar dated 18.04.2015 from the date of expiry of the last valid period of lease i.e., 01.07.2005 up to 31.03.2030 over an area of 16.36 ha. PP also submitted that the supplementary lease deed made on 06.05.2015 and registered vide e-registration no. 11031500226 dated 07.05.2015 between the Governor of Odisha and M/s Tata Steel Limited for the period up to 31.03.2030. 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.

9. 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 per DLC Report	87.252	Agriculture Land	-
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	

10. 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 scheme of mining including Progressive Mine Closure Plan of Manmora Manganese mine approved by Indian Bureau of Mines (IBM) vide letter no. MS/OTFM/41-ORI/BHU/2014-15/138 dated 07.04.2015 for the period 2015-16 to 2019-20 over an area of 16.35 ha. Further, PP submitted that the MoEF&CC Regional Office Bhubaneswar, in its inspection report has also certified compliance to the approved Progressive Mine Closure Plan based on their site visit on 02.02.2022 and issued the Certified compliance report vide letter no. 109-41/21/EPE/364 dated 18.02.2022. PP submitted that since there are no extractable reserves of Manganese ore in Manmora Manganese Mine, proposal for review of mining plan was not approved by IBM and hence we have prepared a draft Final Mine Closure Plan (FMCP) which is ready for

submission to IBM for approval. PP submitted that they are waiting for the issue of final notification for submission of FMCP as per the new format which is likely to be published shortly.

11. 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 inpit 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.

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

Particulars	Details	Distance and Direction
Nearest Villages/Town	Joda Barbil	0.9 km, W 9.5 km, NW
Nearest Highway	NH-215	0.7 km, N

Nearest Railway station	Banspani Barbil	0.1 km, WSW 10.9 km NW
Streams/Rivers	Kundra Nala Baitarani River Mahadeba Nala	0.2 km, NW 1.3 km, E 4.0 km, NNE

13. 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 Industrial Promotion & Investment Corporation of Odisha(IPICOL), GoO and further grant of permission by WRD is in process.		

14. 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 in EC letter dated 11.03.2013, the forest land is mentioned as 608.906 ha. As per the guideline no. F.No.8-78/1996-FC(pt.) dated 10.03.2015 of MoEF&CC, “...in all such virgin/unbroken areas falling in the mining leases which were or are recorded as ‘forest’ in the Government record on or after 25th October 1980, but while processing and/or approving the proposals under the FC Act for use of forest land located in such mining leases for non-forest purpose, were treated as ‘non-forest’, is undertaken only if the prior approval of Central Government under the FC Act for use of such areas for mining purposes has been obtained or is obtained....” PP submitted that the post this guideline, the Tehsildar vide Lr No. 2726/Date 04.06.2016 certified that land schedule of Sabik Forest land over 16.574 ha falls within the lease hold of Joda East Iron & Manmora Mn

mines out of 671.093 ha of lease. This Sabik Forest land of 16.574 ha was categorized as forest land only after 10.03.2015. After 10.03.2015, the total forest area increased to 625.480 ha (608.906 ha + 16.574 ha). Therefore, the total lease area of 671.093 ha consists of 625.480 ha of forest land and 45.613 ha of 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.

15. 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.

16. 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.

17. 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

Minutes of 49th EAC Meeting (Non-Coal Mining) held during 19th to 21st April, 2022

Season (Summer / Pre-monsoon / Post-monsoon / Winter)	Summer season				
Period	Results of Baseline monitoring				
AAQ parameters at 10 locations	Pollutant	Min, µg/m ³	Max, µg/m ³	98 %ile, µg/m ³	Standard, µg/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, µg/m ³	Incremental Concentration, µg/m ³	Total GLC, µg/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 µS/cm to 442 µS/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 µS/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.				
Ground Vibration	PP submitted the data monitored for ground vibration for the period FY21 & FY22 (till Dec'21). PP reported that the maximum vibration recorded was 5.693 mm/s with dominant peak frequency of 7.2 Hz at near Weigh Bridge at 480 m from the blast conducted at Baspani (D-Block) bench face. In the same blast the vibration recorded towards Baspani Village at 670 m was below 0.5 mm/s. The maximum level of air over-pressure/noise recorded				

	was 111.1 dB (L) at 480 m (near Weigh Bridge) from the blast conducted at Baspani (D-Block) face. PP also reported that the statutory limit prescribed for ground vibration as per DGMS technical circular 7 of 1997, concerning to blast vibration standard is 5 mm/s (for domestic houses/ structures not belonging to owner) and it was observed that the ground vibration due to blasting activities at Joda East Iron Mine is well within the prescribed limits.
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18. 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

19. 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 Integrated Regional Office (IRO), Bhubaneswar vide Lr no. 101-529/09/EPE/835 dated 04.05.2021 wherein IRO observed that the non-compliances detected. PP submitted the action taken report vide letter dated 13.05.2021. IRO vide Lr No. 101-529/09/EPE dated 03.06.2021 examined the reply of the PP w.r.t. non-compliances and observed that the project authorities have complied/are in the process of complying or assured to comply with the conditions stipulated by the Ministry. Accordingly, the action taken report may be considered for further necessary action. PP also submitted that the compliance of NEERI conditions has already been certified by IRO MoEFCC Bhubaneswar. PP also submitted the certified EC compliance report issued by Integrated Regional Office, Bhubaneswar vide

letter no. 109-41/21/EPE/364 dated 18.02.2022 for the EC dated 29.06.2011 for Manmora Manganese lease wherein the IRO mentioned that no non-compliances detected.

20. The Project Proponents 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, dated 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 the past production details duly authenticated by Joint Director Mines, Joda vide Lr Memo No. 741/Mines, dated 15.02.2022 for the period 1993-94 to 2020-21 for Manmora Manganese lease. PP also submitted an undertaking by way of Affidavit in an non-judicial stamp vide certificate No, 46AA 814249 dated 26.01.2020 in pursuance to MoEF&CC OM vide 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.

21. 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-
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	ore in excess of EC permitted quantity.
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22. The Project Proponent submitted that the Rehabilitation & Resettlement issues are not involved for the proposed expansion project.

23. 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.

24. Observation and Recommendation of the Committee:

The proposal for Environmental Clearance was considered in the 49th EAC (Non Coal Mining) meeting held during 19th- 21st April, 2022. After detailed deliberations made by the Project Proponent and the Consultant, the Committee **recommended** the proposal for grant of Environmental Clearance for M/s Tata Steel Limited 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 [19.5 MTPA (ROM), OB Waste: 2.64 MTPA and Rehandling of MR dump: 0.8 MTPA] and Beneficiation Plant throughput capacity increase from 12.0 MTPA to 17.6 MTPA in the mine lease area of 612.700 ha [567.087 ha (Stage II FC available) + 45.613 ha (Non Forest land)] out of 654.743 ha [671.093 ha (Joda East Iron Ore mine) – 16.35 ha (Manmora Manganese mine)], located at Villages Joda, Kamarjoda, Banspani, Khuntpani & Baitarani Reserve Forest (R.F) in Barbil Taluka, Keonjhar District, Odisha subject to the following specific conditions in addition to the standard EC conditions applicable for non-coal mining projects:

- i. The Environmental Clearance will be valid upto 31st March, 2030.
- ii. This Environmental Clearance will be restricted only to Joda East Iron Ore mine in the mine lease area of 612.700 ha [567.087 ha (Stage II FC available) + 45.613 ha (Non Forest land)] out of 654.743 ha [671.093 ha (Joda East Iron Ore mine) – 16.35 ha (Manmora Manganese mine)]. Mining activity will be restricted to non-forest land and the area for which Stage-II Forest Clearance (FC) available.

- iii. The Project Proponent shall ensure that in any case total excavation should not be more than 22.94 MTPA.
- iv. The ground induced blasting vibrations shall be monitored regularly for every blast performed and the values of “Peak Particle Velocity” and “Air Over Pressure” shall be maintained below the permissible values prescribed by the DGMS, from time to time.
- v. 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.
- vi. The Project Proponent shall get a study conducted to explore the feasibility of installation of sensor-based water sprinklers and based on the recommendations, the same shall be implemented.
- vii. The budget of Rs 62.21 Cr to address the concerns raised by the public including in the public hearing to be completed within 3 years from the date of start of mining operations. PP shall comply with all action plans made for public hearing concerns and make regular maintenance and record the progressive activity outcomes.
- viii. The Project Proponent shall undertake the plantation by planting the seedling of 10 ft height with at least 90% survival rate and the entire peripheral plantation and the safety barrier plantation and gap plantation shall be completed within 6 months from the start of mining operations. The casualties of each year shall be replaced every year with new saplings and such number of saplings shall not be counted in the number of saplings proposed to plant in that year. The data for such saplings should be furnished during six monthly compliance report along with the progressive plantation. PP shall undertake the progressive bench plantation up to HFL for eco restoration of water bodies. PP shall ensure that the afforestation should be only of Sal which is a native species.
- ix. The Project Proponent shall also organize employment-based apprenticeship/ internship training program every year with appropriate stipend for the youth and other programs to enhance the skill of the local people. The data should be maintained for the training imparted to the persons and the outcome of the training, for the assessment of the training program should be analyzed periodically and improved accordingly.

- x. The Project Proponent should obtain permission for withdrawal of surface water before starting mining operations.
- xi. The Project Proponent should periodically monitor and maintain the health records of the mine workers digitally prior to mining operations, at the time of operation of mine and post mining operations.

DAY 3: 21st April, 2022 (Thursday)

3.1 Proposal for Re-Consideration of Environmental Clearance for River Sand (Bajri) Mining Project with production capacity of 16,50,000 TPA in the Mine Lease Area of 4365.64 Ha located at Villages (Agewa, AnandpurKalu-I, AnandpurKalull, Asarlai, Odawas, Kekindra, Kathmor, Kurki, Kesarpura, Kanecha, Kanawas, KanwaliyaKalan, Kotariya, KheraDeogarh, KheraMaharajpura, KheraMolawas, Kharadi, Khindawas, Ghorawar, Chawandiy, Jhujharda, Jhanjhanwas, Thakarwas, Digarna, Talkiya, Dayalpura, Devnagar, Deoriya, DeoriyaRajputan, Dagla, Dhaneriya, Ghatanagri, NimberaKhurd, Nimbol, Nimaj-I, Nimaj-II, Patan, Patus, Paliyawas, PeepaliyaKhurd, Phoolmaal, Phaalka, Bagatpura, BagtawarpuraManpura, Balunda, Ballupura, Balara, Banjakuri, Bikarlai, Birampuri, Birol, Bogasani, Bhiladeva, Bheenvgarh, Malpuriya, Mohangarh, Mohrai, Roop Nagar, Rajadand, Rabariyawas, Rampura, RamawasKalan, RamawasKhurd, Ras-I, Ras-II, Lithariya, Lototi, Vijaygarh, Samokhi and Sinla), TehsilJaitaran, DistrictPali, Rajasthan of M/s Neetu Singh – [File No. J-11015/03/2017-IA.II (M); Proposal No. IA/RJ/MIN/117185/2017] –Re-Consideration of Environmental Clearance

EAC Meeting Details:

EAC meeting	49th EAC meeting
Date of Meeting	19th – 21st April, 2022

2. Project details:

Name of the Proposal	Proposal for Re-Consideration of Environmental Clearance for River Sand (Bajri) Mining Project with production capacity of 16,50,000 TPA in the Mine Lease Area of 4365.64 Ha located at PaliRajasthan of M/s Neetu Singh	
Location	Village	(Agewa, AnandpurKalu-I, AnandpurKalull, Asarlai, Odawas, Kekindra, Kathmor, Kurki, Kesarpura, Kanecha, Kanawas, KanwaliyaKalan, Kotariya, KheraDeogarh, KheraMaharajpura, KheraMolawas, Kharadi, Khindawas, Ghorawar, Chawandiy, Jhujharda, Jhanjhanwas, Thakarwas, Digarna, Talkiya, Dayalpura,

	Devnagar, Deoriya, DeoriyaRajputan, Dagla, Dhaneriya, Ghatanagri, NimberaKhurd, Nimbol, Nimaj-I, Nimaj-II, Patan, Patus, Paliyawas, PeepaliyaKhurd, Phoolmaal, Phaalka, Bagatpura, BagtawarpuraManpura, Balunda, Ballupura, Balara, Banjakuri, Bikarlai, Birampuri, Birol, Bogasani, Bhiladeva, Bheenvgarh, Malpuriya, Mohangarh, Mohrai, Roop Nagar, Rajadand, Rabariyawas, Rampura, RamawasKalan, RamawasKhurd, Ras-I, Ras-II, Lithariya, Lototi, Vijaygarh, Samokhi and Sinla)	
	Tehsil/Taluka	Jaitaran
	District	Pali
	State / UT	Rajasthan
	Latitudes	26° 06' 30.01" N to 26° 27' 09.48" N
	Longitudes	73° 48' 43.88" E to 74°17' 34.52" E
	SolTopo sheet No.	45F/15, 45F/16, 45J/3, 45J/4 and 45J/7.
Company's Name	Neetu Singh	
Accredited Consultant and certificate no.	Overseas Min-Tech Consultants, NABET Certificate No.: NABET/EIA/1720/RA 0091	
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 (MLA)	4365.64 Ha

4. ToR/EC Details:

ToR Proposal No.	IA/RJ/MIN/62269/2017
ToR Letter No.	J-11015/03/2017-IA. II (M)
ToR grant Date	06.06.2016
Production capacity	16,50,000 TPA

5. Observation and Recommendation of the Committee:

The proposal for Environmental Clearance was considered in the 49th EAC meeting held during 19th – 21st April, 2022. The Member Secretary informed the Committee that the project proponent vide letter dated 14.04.2022 requested to defer the proposal due to unforeseen circumstances. Therefore, the Committee **deferred** the proposal.

3.2 Proposal for Amendment of Environmental Clearance of Sand Stone Mining Project (Net retained lease area 156.1625) located at Villages Mamchari&Mahu, Tehsil & District Karauli, Rajasthan of M/s Tiwari JhoomarlalSwaroopal[File No. J-11015/685/2007-IA.II (M); Proposal No. IA/RJ/MIN/65774/2010] Amendment of Environmental Clearance

EAC Meeting Details:

EAC meeting	49th EAC meeting
Date of Meeting	19th – 21st April, 2022

2. Project details:

Name of the Proposal	Proposal for Amendment of Environmental Clearance of Sand Stone Mining Project (Nett retained lease area 157.9234) located at Karauli, Rajasthan of M/s Tiwari JhoomarlalSwaroopal		
Location	Village	Mamchari&Mahu	
	Tehsil/Taluka	Karauli	
	District	Karauli	
	State / UT	Rajasthan	
Company's Name	Tiwari JhoomarlalSwaroopal		

3. Category details:

Category of the project	Category "A", Project or Activity 1(a) – 3 for Mining of Mineral
Provisions	As per EIA Notification S.O. 1533 (E), dated 14th September 2006 and subsequent amendment
Mining lease Area (MLA in ha.)	478.30 Ha

4. EC Details:

EC Letter No.	J-11015/685/2007-IA.II(M)
EC grant Date	29.12.2010
Production capacity	50,000 tonnes (0.05 million tonnes)
Reason for amendment	Reduction in mine lease area from 478.30 Ha to 156.1625 Ha

5. Observation and Recommendation of the Committee:

The proposal for Environmental Clearance was considered in the 49th EAC meeting held during 19th – 21st April, 2022. The Member Secretary informed the Committee that the project proponent had requested to defer the proposal through telephonic conversation due to some unavoidable circumstances. Therefore, the Committee **deferred** the proposal. During the EAC the committee noted that the Ministry (IA monitoring Division) had sent a letter dated 7th April, 2022 to the Project proponent due to non-compliance observed with respect to the EC on the basis of IRO's report, which as follows:

- i. The CTO has been revoked by the SPCB due to reduction in lease area by the PP and amendment in EC has been sought by the State Board (Specific Condition 01)
- ii. Detailed action plan submission has pending for rain water harvesting in and around lease area. (Specific Condition 18)
- iii. PP has not submitted digital processing report of the lease area. (Specific Condition 22)
- iv. Ambient Air Quality Monitoring reports by accredited laboratory has not submitted (General Condition: 3)
- v. Year wise itemized details of expenditure has not been presented/ provided (General Condition: 10)
- vi. The status of compliance and form V has not been available on the website of the unit (General Condition: 16)

In view of the above the Project proponent needs to submit the following information to the Ministry within the prescribed time frame as per Ministry's letter dated 07th April, 2022:

- i. Clarification for non-compliance observed during the site visit,
- ii. Action Taken Report (ATR) and
- iii. Action plan with respect to the above non-complied conditions within next 30 days from the date of issuance of this letter.

3.3 Proposal for Re-Consideration of Environmental clearance for Bajri Mine with production capacity of 63 Lakh TPA (ROM) in the mine lease area of 3150.07 Ha located at Revenue villages of TehsilNeem-Ka-Thana, DistrictSikar, Rajasthan by M/s MahendraSingh Ratnawat[File No. J-11015/382/2013-IA-II(M); Proposal No. IA/RJ/MIN/20344/2013] - Re-Consideration of Environmental clearance

EAC Meeting Details:

EAC meeting	49th EAC meeting
Date of Meeting	19th to 21st April, 2022

2. Project details:

Name of the Proposal	Environmental clearance for Bajri Mine with production capacity of 63 Lakh TPA (ROM) in the mine lease area of 3150.07 Ha located at Revenue villages of Tehsil - Neem-Ka-Thana, District-Sikar, Rajasthan by M/s Mahendra Singh Ratnawat	
Location	Village	Neem-Ka-Thana
	Tehsil/Taluka	Neem-Ka-Thana
	District	Sikar
	State / UT	Rajasthan
	Latitudes	27°41'25.4" N
	Longitudes	75°38'29.8" E
	SolTopo sheet No.	45 M/9, 45 M/13, 45 M/10, 45 M/14, 54A/1 and 54 A/2
Company's Name	Shri Mahender Singh Ratnawat	
Accredited Consultant and certificate no.	Change of Environment consultant as per the letter dated 09.04.2022 from Environment Consultant / Vardan Environet to Enkay EnviroServices Pvt. Ltd. Jaipur, Rajasthan	
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 (MLA) (in ha.)	3150.07 ha

4. ToR/EC Details:

ToR Letter No.	J-11015/382/2013-IA.II(M)
ToR grant Date	22.11.2013
Production capacity	63 Lakh TPA (ROM)

5. Observation and Recommendation of the Committee:

The proposal for Environmental Clearance was considered in the 49th EAC meeting held during 19th – 21st April, 2022. The Member Secretary informed the Committee that the project proponent vide letter dated 14.04.2022 requested to defer the proposal due to unforeseen circumstances. Therefore, the Committee **deferred** the proposal.

3.4 Proposal for Re-Consideration of Environmental clearance for River Sand Mining with Production Capacity of 14 Lakh TPA in the mine lease area of 1329.983 Ha located near 86 Revenue villages viz. Mandwara, Shriramganj, Nareda, Chhapri and others., Tehsil Phagi, District Jaipur Rajasthan by M/s Mahendra Singh Ratnawat [File No. J-11015/253/2013-IA.II (M); Proposal No. IA/RJ/MIN/53484/2013] Re-Consideration of Environmental clearance

EAC Meeting Details:

EAC meeting	49th EAC Meeting
Date of Meeting	19th to 21st April, 2022

2. Project details:

Name of the Proposal	Environmental clearance for River Sand Mining with Production Capacity of 14 Lakh TPA in the mine lease area of 1329.983 Ha located near 86 Revenue villages viz. Mandwara, Shriramganj, Nareda, Chhapri and others., Tehsil - Phagi, District-Jaipur Rajasthan by M/s Mahendra Singh Ratnawat	
Location	Village	Mandwara, Shriramganj, Nareda, Chhapri and others.
	Tehsil/Taluka	Phagi
	District	Jaipur
	State / UT	Rajasthan
	Latitudes	26 ^o 26'51.40" to 26 ^o 43'58.10" N
	Longitudes	75 ^o 12'55.20" to 75 ^o 46'5.7" E
	SolTopo sheet No.	45 N/6, N/7, N/10, N/11, N/14 and N/15
Company's Name	Mahendra Singh Ratnawat	
Accredited Consultant and certificate no.	Change of Environment consultant as per the letter dated 09.04.2022 from EQMS India Pvt Ltd. India to Enkay Enviro Services Pvt. Ltd. Jaipur (Rajasthan)	
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 (MLA) (in ha.)	1329.983 Ha

4. ToR/EC Details:

ToR Letter No.	J-11015/253/2013-IA.II (M)
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ToR grant Date	17.10.2013
Production capacity	14 Lakh TPA

5. Observation and Recommendation of the Committee:

The proposal for Environmental Clearance was considered in the 49th EAC meeting held during 19th – 21st April, 2022. The Member Secretary informed the Committee that the project proponent vide letter dated 14.04.2022 requested to defer the proposal due to unforeseen circumstances. Therefore, the Committee **deferred** the proposal.

3.5 Proposal for amendment of ToR vide letter no. 23-249/ 2018-IA.III (V) dated. 03.02.2021 for Sandstone &Khanda Mine (ML No, - 9/2000, Area 32.10 Ha) for proposed production capacity of 1,18,000 TPA of ROM located at Village Bhidyani&Sajjanwas, Tehsil Rupbas, District Bharatpur, Rajasthan of M/s Gopal Ram Kashyap – [File No. 23-249/2018-IA.III (V); Proposal No. IA/RJ/MIN/262226/2022] Amendment of Terms of Reference

EAC Meeting Details:

EAC meeting	49 th EAC Meeting
Date of Meeting	19 th to 21 st April, 2022

2. Project details:

Name of the Proposal	Proposal is for Amendment in ToR for Sandstone &Khanda Mine (ML No, - 9/2000, Area 32.10 Ha) for proposed production capacity of 1,18,000 TPA(Total Excavation) located at Village Bhidyani&Sajjanwas, Tehsil Rupbas, District Bharatpur, Rajasthan.	
Location	Village	Bhidyani&Sajjanwas
	Tehsil/Taluka	Rupbas
	District	Bharatpur
	State / UT	Rajasthan
	Latitudes	26°58'55.47"N to 26°59'22.44"N
	Longitudes	77°36'11.79"E to 77°37'54.96"E
	SoITopo sheet No.	54F/9
Company's Name	Goapl Ram Kashyap	
Accredited Consultant and certificate no.	Enkay Enviro Services Pvt. Ltd., Jaipur.	
KML file	Submitted	

Seismic zone	Zone II
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3. Category details:

Category of the project	Category “A”, Project or Activity 1(a) – 3 for Mining of Mineral
Provisions	As per EIA Notification S.O. 1533 (E), dated 14th September 2006 and subsequent amendment
Mining lease Area (MLA)	32.10 Ha

4. ToR/EC Details:

ToR Proposal No.	IA/RJ/MIN/74350/2018
ToR Letter No.	23-249/2018-IA.III (V)
ToR grant Date	03.02.2021
Production capacity	1,00,000 TPA (Mineral)
Waste	18,000 TPA
Total Excavation	1,18,000 TPA (Total Excavation)

5. Lease Details:

Granted Prospecting Licence	Area	32.10 ha
	Execution date	10.03.1966
	PL No.	ML No. 9/2000
Prospecting operation, Commence date	10.03.1966	
Application for the Mining lease area and Date	10.03.1966	
Validity of mine lease	31.03.2025	
Letter of Intent	Date	10.03.1966

6. Observation and Recommendation of the Committee:

The proposal for Amendment of Terms of Reference (TOR) was considered in the 49th EAC meeting held during 19th– 21st April, 2022. After the detailed deliberations, the Committee observed that the Terms of Reference was granted as per the provisions of the Ministry’s Notification vide S.O. 804 (E) dated 14.03.2017. In view of the above, the Committee was not agreed for the proposed Amendment of ToR with regards to exemption of Public Hearing and hence the committee **returned the proposal in present form**. Also, as per the Ministry’s Notification vide S.O. 1886(E) dated 20.04.2022 the proposal further to be considered at State level.

3.6 Proposal for Re-Consideration of Environmental clearance for Mining of Bajri (Minor Mineral) with production capacity of 5,60,000 TPA (ROM) in the mine lease area of 113.77 Ha, located at Revenue Village (s) of Tehsil Shahpura, District

Jaipur, Rajasthan by Lessee Shri Arjun Singh[File No. J-11015/353/2013-IA.II (M); Proposal No. IA/RJ/MIN/51896/2013]- Re-Consideration of Environmental clearance

EAC Meeting Details:

EAC meeting	49th EAC meeting
Date of Meeting	19th – 21st April, 2022

2. Project details:

Name of the Proposal	Environmental clearance for Mining of Bajri (Minor Mineral) with production capacity of 5,60,000 TPA (ROM) in the mine lease area of 113.77 Ha, located at Revenue Village (s) of Tehsil Shahpura, District - Jaipur, Rajasthan by Lessee Shri Arjun Singh					
Location	Village	Shahpura				
	Tehsil/Taluka	Shahpura				
	District	Jaipur				
	State / UT	Rajasthan				
		Kareri	Mamtori	Bari Jhori	Charasa	Manoharpura
	Latitudes	27 ⁰ 23' 27.06"N	27 ⁰ 16' 38.46"N	27 ⁰ 26' 45.60" N	27 ⁰ 16' 25.08"N	27 ⁰ 17' 39.78"N
	Longitudes	75 ⁰ 45' 27.02" E	75 ⁰ 56' 35.46" E	75 ⁰ 53' 59.58" E	76 ⁰ 00' 23.04" E	75 ⁰ 58' 23.58" E
Company's Name	Shri Arjun Singh Shahpura					
Accredited Consultant and certificate no.	Change of Environment consultant as per the letter dated 09.04.2022 from M/s UDAIPUR MIN-TECH PVT. LTD. to Enkay Enviro Services Pvt. Ltd. Jaipur (Rajasthan)					

3. Category details:

Category of the project	Category "A", Project or Activity 1(a) – 3 for Mining of Mineral
Provisions	As per EIA Notification S.O. 1533 (E), dated 14th September 2006 and subsequent amendment
Mining lease Area (MLA) (in ha.)	113.77 Ha

4. ToR/EC Details:

ToR Letter No.	J-11015/353/2013-IA.II(M)
ToR grant Date	22.11.2013
Production capacity	5,60,000 TPA
Total Excavation	5,60,000 TPA

5. Observation and Recommendation of the Committee:

The proposal for Environmental Clearance was considered in the 49th EAC meeting held during 19th – 21st April, 2022. The Member Secretary informed the Committee that the project proponent vide letter dated 14.04.2022 requested to defer the proposal due to unforeseen circumstances. Therefore, the Committee **deferred** the proposal.

3.7 Proposal for Reconsideration of Environmental clearance for Mining of Bajri (minor mineral) with production capacity of 44, 80,000 TPA (ROM) in the mine lease area of 766.53 Ha, located at Revenue Village (s) of Tehsil Kotputli, District Jaipur, Rajasthan by lessee Shri Satish Kumar S/o Shri Ramkaran[File No. J-11015/352/2013-IA.II (M); Proposal No. IA/RJ/MIN/51929/2013] - Re-Consideration of Environmental clearance

EAC Meeting Details:

EAC meeting	49th EAC meeting
Date of Meeting	19 th to 21 st EAC

2. Project details:

Name of the Proposal	Environmental clearance for Mining of Bajri (minor mineral) with production capacity of 44,80,000 TPA (ROM) in the mine lease area of 766.53 Ha, located at Revenue Village (s) of Tehsil – Kotputli, District – Jaipur, Rajasthan by lessee Shri Satish Kumar S/o Shri Ramkaran	
Location	Village	Kotputli
	Tehsil/Taluka	Kotputli
	District	Jaipur
	State / UT	Rajasthan
	SolTopo sheet No.	54 A/1 & A/2
Company's Name	Shri Satish Kumar	
Accredited Consultant and certificate no.	Change of Environment consultant as per the letter dated 09.04.2022 from M/s UDAIPUR MIN-TECH PVT. LTD. to Enkay Enviro Services Pvt. Ltd. Jaipur (Rajasthan)	
KML file	Submitted	

3. Category details:

Category of the project	Category “A”, Project or Activity 1(a) – 3 for Mining of Mineral
Provisions	As per EIA Notification S.O. 1533 (E), dated 14th September 2006 and subsequent amendment
Mining lease Area (MLA) (in ha.)	766.53 Ha

4. ToR/EC Details:

ToR Letter No.	J-11015/352/2013-IA.II(M)
ToR grant Date	09.12.2013
Production capacity	44,80,000 TPA (ROM)

5. Observation and Recommendation of the Committee:

The proposal for Environmental Clearance was considered in the 49th EAC meeting held during 19th – 21st April, 2022. The Member Secretary informed the Committee that the project proponent vide letter dated 14.04.2022 requested to defer the proposal due to unforeseen circumstances. Therefore, the Committee **deferred** the proposal.

3.8 Proposal for Re-consideration of Environmental clearance Mining of Bajri (Minor Mineral) with proposed production capacity 5.60 MTPA (ROM) in the mine lease area of 19011.89 Ha, located at Villages Annapurna, Arjiyana, Indrana, Kundal, Kumpawas, Kalyaan Singh Ki Dhani, Kuseep, Kankhi, Kathadi, Kotadi, KhedaKhindawada, Khetasar, Kharantiya, Khakharlai, Gungrot, Gudanaal, GodoKa Bara, Goliya, CharnoKaBada, Jinpur, JunakheraMotisara, Jethantari, Teekampura, Thakarkhera, Tandabera, Telwada, ThanmataHinglaaj, Thapan, Dantla, Devandi, Devliyali, Dharna, Dhira, NayiKhakharlai, Naal, Nimbeshwar, Pariharon Ki Dhani, Paton Ka Bara, Padardi Kalan, Piploon, Baamsin, Baalu, Bijliya, BhallaronKaBada, Bhakharpura, Bhagwa, Bhatikhera, Bhanawas, Bheemgoda, Bhilon Ki Dhani, Majal, Mawdi, Mahilawas, Mangla, Mangi, Mubari, Meli, Mokalsar, Ramaniya, Railon Ki Dhani, Lalana, Ludarada, Valiyana, Harmalpura, Hemawas, Samdadi, Sariyadevi Nagar, Samuja, Siner, Siwana, Suily, Sela, and Ramdev Nagar of Tehsil Siwana, District Barmer, Rajasthan by M/s Ridhi Siddhi Associates [File No. J-11015/427/2013-IA.II (M); Proposal No. IA/RJ/MIN/20595/2013] -Re-Consideration of Environmental clearance

EAC Meeting Details:

EAC meeting	49th EAC Meeting
Date of Meeting	21.04.2022

2. Project details:

Minutes of 49th EAC Meeting (Non-Coal Mining) held during 19th to 21st April, 2022

Name of the Proposal	Environmental Clearance Mining of Bajri (Minor Mineral) with proposed production capacity 5.60 million TPA (ROM) in the mine lease area of 19011.89 Ha, located at Villages of Tehsil - Siwana, District – Barmer, Rajasthan by M/s RidhiSidhi Associates	
Location	Village	Annapurna, Arjiyana, Indrana, Kundal, Kumpawas, Kalyaan Singh Ki Dhani, Kuseep, Kankhi, Kathadi, Kotadi, KhedaKhindawada, Khetasar, Kharantiya, Khakharlai, Gungrot, Gudanaal, GodoKa Bara, Goliya, CharnoKaBada, Jinpur, JunakheraMotisara, Jethantari, Teekampura, Thakarkhera, Tandabera, Telwada, ThanmataHinglaaj, Thapan, Dantla, Devandi, Devliyal, Dharna, Dhira, NayiKhakharlai, Naal, Nimbeshwar, Pariharon Ki Dhani, Paton Ka Bara, Padardi Kalan, Piploon, Baamsin, Baalu, Bijliya, BhallaronKaBada, Bhakharpura, Bhagwa, Bhatikhera, Bhanawas, Bheemgoda, Bhilon Ki Dhani, Majal, Mawdi, Mahilawas, Mangla, Mangi, Mubari, Meli, Mokalsar, Ramaniya, Railon Ki Dhani, Lalana, Ludarada, Valiyana, Harmalpura, Hemawas, Samdadi, Sariyadevi Nagar, Samuja, Siner, Siwana, Suily, Sela, and Ramdev Nagar
	Tehsil/Taluka	Siwana
	District	Barmer
	State / UT	Rajasthan
	Latitudes	25°27'06.84"N to 25°51'39.72"N
	Longitudes	72°15'14.89"E to 72°46'27.61"E
	SolTopo sheet No.	45C/1, 45C/2, 45C/3, 45C/5, 45C/6, 45C/7, 45C/9, 45C/10, 45C/13, 45C/14 and 45C/15
Company's Name	M/s Riddhi Siddhi	
Accredited Consultant and certificate no.	EnkayEnviro Services Pvt. Ltd., Jaipur. Certificate No. : NABET/EIA/2023/RA 0183 Valid till 12.12.2023	
KML file	Submitted	
Seismic zone	Zone – II & III as per IS – 1893 (part-1) - 2002	

3. Category details:

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

Mining lease Area (MLA)	19011.89 Ha
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4. ToR/EC Details:

ToR Letter No.	J-11015/427/2013-IA.II (M)
ToR grant Date	09.12.2013
Production capacity	5.6 Million TPA (ROM)

5. Lease Details:

Granted Prospecting Licence	Area	19011.89 ha
Application for the Mining lease area and Date	The Letter of Intent (LOI) w.r.t. grant of mining lease for minor mineral Bajri over an area of 19011.89 ha issued by the Joint Secretary Administration, Govt. of Rajasthan vide letter no. P.8(23) Khan/ Gr. – 2/ 2013, Jaipur dated 26.04.2013. Mining Plan & Progressive Mine Closure Plan has been approved by Government of Rajasthan, SME, Jodhpur Region, Jodhpur (Rajasthan) vide their letter no. 17566-17571/SME/JDR dated 08.01.2014. The same shall be applied as per norms.	
Validity of mine lease	5 years	
Letter of Intent	Letter No.	P.8(23) Khan/ Gr. – 2/ 2013
	Date	26.04.2013

6. Observation and Recommendation of the Committee:

The proposal for Environmental Clearance was considered in the 49th EAC meeting held during 19th – 21st April, 2022. After the detailed presentation made by the project proponent and the consultant, the Committee observed that the baseline data was more than seven years old and supporting documents were not submitted according to the Enforcement & Monitoring Guidelines of Sand Mining 2020. In view of the above, the committee **deferred** the proposal and sought the following information: -

- i. The project proponent needs to submit the Environmental status report of the project site after carrying out study of Air, Water (Ground water & Surface water) and Noise for 15 days period (non-monsoon season). The project proponent should submit the photographs of monitoring stations & sampling locations. The photographs should mention the date, time, latitude & longitude of the monitoring station/sampling location. In addition to this, the project proponent should submit the original test reports and certificates of the lab which will analyze the samples.

- ii. The project proponent needs to submit the action plan to carry out Scientific Replenishment Study as per the Methodology prepared by MoEF&CC along with CMPDI i.e. “Methodology for sand Replenishment Study in pursuance to Hon'ble Supreme Court of India's Order dated 11.11.2021 in S.L.P. (Civil) No. 10587 of 2019” to assess the available quantity of Bajri.
- iii. The project proponent needs to submit the action plan as per Enforcement & Monitoring guidelines of sand mining 2020.
- iv. The project proponent needs to compare the current study data with the previous study data. If any changes exist, then detailed mitigation measures needs to be submitted.
- v. The project proponent needs to submit the detailed plan in tabular format (year-wise) for afforestation and green belt development in and around the mining lease. The project proponent should submit the number of saplings to be planted, area to be covered under afforestation & green belt, location of plantation, target for survival rate and budget earmarked for the afforestation & green belt development.

3.9 Proposal for Re-Consideration of Environmental clearance for Bajri Mine (Minor Mineral) with proposed production capacity of 1.12 MTPA from the mine lease area 278.67 ha located at Revenue village of Tehsil ChauthKaBarwara, District SawaiMadhopur, State Rajasthan by M/s Mangal Singh Solanki [File No. J-11015/233/2013- IA.II (M); Proposal No IA/RJ/MIN/20304/2013] - Environmental Clearance

EAC Meeting Details:

EAC meeting	49th EAC Meeting
Date of Meeting	21.04.2022

2. Project details: The proposal of M/s Mangal Singh Solanki is for mining of Bajri Mine (Minor Mineral) with proposed production capacity of 1.12 MTPA from the mine lease area 278.67 ha located at Revenue village of Tehsil ChauthKaBarwara, District SawaiMadhopur, State Rajasthan. The mine lease area lies in Banas River bed. The Latitudes and Longitudes of the mine lease area lies between 26°08'11.75" N to 26°11'15.6" N and 76°05'33.78" E to 76°16'18.8" E on Survey of India Toposheet number 54B/3, 54B/4, 54B/7 & 54B/8. As per seismic zoning map of India IS: 1893 (Part-1):2002, the project is located in seismic zone-II.

3. Observation and Recommendation of the Committee:

The proposal for Environmental Clearance was considered in the 49th EAC (Non-Coal Mining) meeting held during 19th – 21st April, 2022. The Committee noted that the Environmental Clearance vide letter No. J-11015/233/2013-IA.II (M) dated 03.02.2022 was already granted to project proponent. The proposal was inadvertently considered in the 49th EAC meeting held during 19th to 21st April, 2022. Therefore the committee **returned** the instant proposal.

3.10 Proposal for Re-consideration of Environmental clearance for Mining of Bajri (Minor Mineral) with proposed production capacity of 2.8 MTPA (ROM) in the mine lease area 905.206 ha located at near revenue villages of Tehsil Pidawa, District Jhalawar, Rajasthan by Lessee Shri Mukesh Sharma – [File No. J-11015/113/2016-IA-II (M); Proposal No. IA/RJ/MIN/25369/2014] - Re-Consideration of Environmental Clearance

EAC Meeting Details:

EAC meeting	49th EAC Meeting (Non-Coal Mining)
Date of Meeting	19th – 21st April, 2022

2. Project details:

Name of the Proposal	Environmental Clearance for Mining of Bajri (Minor Mineral) with proposed production capacity of 2.8 MTPA (ROM) in the mine lease area of 905.206 ha located at village(s) of Tehsil – Pidawa, District- Jhalawar, Rajasthan by Shri Mukesh Sharma	
Location	Village	Motkhera, Tal, Chorkheri, Jhikariya, Mogra, Kalitalai, Nalwali, Sangdiyan, Nahargarh, Silegarh, Kochrikheri, Karavan, Payera, Devgarh, Aziz Pur, Aranya, Akeriya, Aasodiya, Aanyakheri, Ilahipur, Aadiyakheri, KaradiaAusav, KaradiyaSherpur, Kadodiya, Keetakheri, KotdaTejmal, KotdaPratap, Khejdiya, Kandalkheri, Khamandi, Gelana, GovindPura, GhataKheri, Chachlai, Chandrapura, Chawli, Dakhal, Dhabla Mod, TumdiyaKheri, TulkyaKheri, TeliyaKheri, Dilawra, Dhaturiya Kalan, DhaturiyaKhurj, Nagar, Narpura, Narana, Paukheri, Pidawa, Fatehpur, Banjari, Bamor, Borkheri, BoliyaBujurg, BhatkheraKhurd, Maathaniya, Rooppura, RamayDalpat, RajpooraBujurg, Rampuriya, Raipura, Rawal, Roshanbari, Lal Gaon, Sedkheri, Sunel, Sumari, SemliChouhan,

Minutes of 49th EAC Meeting (Non-Coal Mining) held during 19th to 21st April, 2022

	SemliJinnar, Sarwar, Saroniya, Suwans, Sangariya, Samariya, Harnawda Gaza, HimmatGarh
Tehsil/Taluka	Pidawa
District	Jhalawar
State / UT	Rajasthan
Latitudes	24°09'56.30"N to 24°10'03.30"N
Longitudes	76°02'25.06"E to 76° 02'41.01"E
SoITopo sheet No.	54D/ 3 and 54 D/4.
Company's Name	Mukesh Sharma
Accredited Consultant and certificate no.	Enkay Enviro Services Pvt. Ltd., Jaipur. Certificate No. : NABET/EIA/2023/RA 0183 Valid till 12.12.2023
KML file	Submitted
Seismic zone	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 (MLA) (in ha.)	905.206 ha

4. ToR/EC Details:

ToR Proposal No.	IA/RJ/MIN/25369/2014
ToR Letter No.	J-11015/113/2016-IA-II(M)
ToR grant Date	12.04.2016
Production capacity	2.8 MTPA

5. Lease Details:

Granted Prospecting License	Area	905.206 ha.
Application for the Mining lease area and Date	LOI issued by the state Govt. is valid vide letter no. P.9 (7)/ KHAN/GROUP-2/2013 dated 15.09.2013 issued by Department of Mines & Geology, Government of Rajasthan and extension of validity of the LOI vide letter no. AME/Jhala/Bajri/2021-22/6295,dated 21.12.2021 (valid up to 27.10.2023). Mining Plan along with Progressive Mine Closure Plan has been approved by SME, Kota vide letter no. SME/ Kota/ CC - I/ MP/ 13/ 6027, dated 31.10.2014.	

Validity of mine lease	5 years, 8 months.	
Letter of Intent/ Grant of ML & Area	Letter No.	AME/Jhala/Bajri/2021-22/6295
	Date	21.12.2021

6. Mining plan details:

Mining Plan (approved by Indian Bureau of Mines/DMG)	Letter No.	SME/ Kota/CC - I/ MP/ 13/ 6027
	Date	31.10.2014

7. Observation and Recommendation of the Committee:

The proposal for Environmental Clearance was considered in the 49th EAC (Non-Coal Mining) meeting held during 19th – 21st April, 2022. After the detailed presentation made by the project proponent and the consultant, the committee noted that the Consultant, Enkay Enviro Services Pvt. Ltd. wrongly informed to the committee that the this proposal was earlier considered in the 47th EAC meeting held in 7th to 9th March, 2022. The Committee warned the consultant for misleading the members of the Expert Appraisal Committee. The Committee also observed that the baseline data was more than six years old and supporting documents were not submitted according to the Enforcement & Monitoring Guidelines of Sand Mining 2020. In view of the above, the committee **deferred** the proposal and sought the following information: -

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

- iv. The project proponent needs to compare the current study data with the previous study data. If any changes exist, then detailed mitigation measures needs to be submitted.
- v. The project proponent needs to submit the detailed plan in tabular format (year-wise) for afforestation and green belt development in and around the mining lease. The project proponent should submit the number of saplings to be planted, area to be covered under afforestation & green belt, location of plantation, target for survival rate and budget earmarked for the afforestation & green belt development.

3.11 Proposal for Re-consideration of Environmental clearance for Mining of Sand (Minor Mineral) with production capacity of 0.42 MTPA in the mine lease area 360.97 ha, located at Revenue Villages of Baran TehsilUlthi, Majrawta, KalyanpurGhata, Ghisri, Hanotiya, Koyla, Shahgarh, Revenue Villages of Kishanganj TehsilKaglaBamori,Mehrawata, Rani Badod District Baran, Rajasthan by M/s Mukesh Sharma [File No. J-11015/408/2015-IA.II (M); Proposal No. IA/RJ/MIN/32677/2015] Re-Consideration of Environmental Clearance

EAC Meeting Details:

EAC meeting	49th EAC
Date of Meeting	19th to 21st April, 2022

2. Project Details:

Name of the Proposal	Environmental Clearance for Mining of Sand (Minor Mineral) in the mine lease area of 360.97 Hectares located at village(s) of Tehsil – Baran&Kishanganj, District- Baran, and Rajasthan for an area of–by Mukesh Sharma	
Location	Villages	Revenue Villages of Baran Tehsil-Ulthi, Majrawta, KalyanpurGhata, Ghisri, Hanotiya, Koyla, Shahgarh. Revenue Villages of Kishanganj Tehsil-KaglaBamori, Mehrawata, Rani Badod
	Tehsil/Taluka	Baran&Kishanganj
	District	Baran
	State / UT	Rajasthan
	Latitudes	25°15'13.07" N to 25°03'47.68" N
	Longitudes	76°35'22.26" E to 76°37'58.58" E
	SoI Toposheet No.	54C/ 11 and 54C/12

Minutes of 49th EAC Meeting (Non-Coal Mining) held during 19th to 21st April, 2022

Company's Name	Mukesh Sharma
Accredited Consultant and certificate no.	Enkay Enviro Services Pvt. Ltd., Jaipur. Certificate No. : NABET/EIA/2023/RA 0183 Valid till 12.12.2023
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 (MLA)	360.97 Ha

4. ToR/EC Details:

ToR Proposal No.	IA/RJ/MIN/32677/2015
ToR Letter No.	J-11015/ 408/ 2015-IA.II (M)
ToR grant Date	08.01.2016
Production capacity	0.42 Million TPA

5. Lease Details:

Granted Prospecting Licence	Area	360.97 Hectares.
Application for the Mining lease area and Date	<p>LOI issued by the state Govt. is valid vide letter no. P.9 (10)/ Khan/Group-2/2013 dated 03.12.2014 issued by Department of Mines & Geology, Government of Rajasthan.</p> <p><u>As per Rajasthan Minor Mineral Concession (Fifth Amendment) Rules, 2021-</u> <i>"In sub-rule (4) of rule 5 of the Rajasthan Minor Mineral Concession Rules, 2017, for the existing expression "thirteen months", wherever occurring, the expression "sixty eight months" shall be substituted."</i> Revised issued by the state Govt. is valid vide letter no. AME/Baran/LOI/2021/2623 dated 21.12.2021. Mining Plan & Progressive Mine Closure Plan has been approved by Government of Rajasthan, SME, Kota vide their letter no. Kota vide letter no. SME/ Kota/ CC - I/ MP/ 15/ 4236 dated 12.10.2015.</p>	
Validity of mine lease	5 Years	
Letter of Intent/ Grant of ML & Area	Letter No.	AME/Baran/LOI/2021/2623
	Date	21.12.2021

6. Mining Plan Details:

Mining Plan(approved by Indian Bureau of Mines/DMG)	Letter No.	SME/ Kota/ CC - I/ MP/ 15/ 4236
	Date	12.10.2015

7. Observation and Recommendation of the Committee:

The proposal for Environmental Clearance was considered in the 49th EAC (Non-Coal Mining) meeting held during 19th – 21st April, 2022. After the detailed presentation made by the project proponent and the consultant, the committee observed that the baseline data was more than six years old and supporting documents were not submitted according to the Enforcement & Monitoring Guidelines of Sand Mining 2020. In view of the above, the committee **deferred** the proposal and sought the following information: -

- i. The project proponent needs to submit the Environmental status report of the project site after carrying out study of Air, Water (Ground water & Surface water) and Noise for 15 days period (non-monsoon season). The project proponent should submit the photographs of monitoring stations & sampling locations. The photographs should mention the date, time, latitude & longitude of the monitoring station/sampling location. In addition to this, the project proponent should submit the original test reports and certificates of the lab which will analyze the samples.
- ii. The project proponent needs to submit the action plan to carry out Scientific Replenishment Study as per the Methodology prepared by MoEF&CC along with CMPDI i.e. “Methodology for sand Replenishment Study in pursuance to Hon’ble Supreme Court of India’s Order dated 11.11.2021 in S.L.P. (Civil) No. 10587 of 2019” to assess the available quantity of Bajri.
- iii. The project proponent needs to submit the action plan as per Enforcement & Monitoring guidelines of sand mining 2020.
- iv. The project proponent needs to compare the current study data with the previous study data. If any changes exist, then detailed mitigation measures needs to be submitted.
- v. The project proponent needs to submit the detailed plan in tabular format (year-wise) for afforestation and green belt development in and around the mining lease. The project proponent should submit the number of saplings to be planted, area to be covered under afforestation & green belt, location of plantation, target for survival rate and budget earmarked for the afforestation & green belt development.

List of members of Expert Appraisal Committee participated through VC

S.No.	Member Name	Member Address	Designation	19 th April 2022	20 th April 2022	21 st April 2022
1	Dr. S.R. Wate	Add. 148/149, Nagar Vikas Society, Narendra Nagar, Nagpur-440015, Maharashtra	Chairman	Yes	Yes	Yes
2	Dr. Ajay Deshpande	Building A-26, Flat-403, Happy Valley Homes, Manpada, Ghodbunder Road, Thane (West) - 400610, Maharashtra	Member	No	No	No
3	Shri B Ramesh Kumar	H-No. 6-1-134/6, Balram Compound, Padmarao Nagar, Secundrabad-500025, Andhra Pradesh	Member	Yes	Yes	Yes
4	Prof. S. Ramakrishna Rao	50-120-9/1, Tulasi Mani Regency North Extension, Seethammadhara, Visakhapatnam - 530013 Andhra Pradesh.	Member	Yes	Yes	Yes
5	Shri Santosh Gupta	Flat No. 405, Block -B, Gaur Green Vista, NyayKhand - 1, Indrapuram, Ghaziabad- 201014	Member	No	Yes	Yes
6	Dr. Asha Rajvanshi	B-104/106 rockvalley Apartments, General Mahadev Singh Road, SewlaChowk, Majra, Dehradun - 248001	Member	Yes	No	No
7	Shri G.P. Kundargi	Plot No. 32, MOIL Vatika, Chicholi Road, Fetri, Nagpur	Member	No	No	No

Minutes of 49th EAC Meeting (Non-Coal Mining) held during 19th to 21st April, 2022

		441501, Maharashtra				
8	Dr. A.K.Malhotra	House no. 33, Sector – 11, Dwarka. (Near Gate No. – 1 of sector 11 metro Station), New Delhi – 110075.	Member	Yes	Yes	Yes
9	Dr. Gurdeep Singh	Centre of Mining Environment, Department of Environmental Science & Engg. Indian Institute of Technology (Indian School of Mines), Dhanbad-826004	Member	Yes	Yes	Yes
10	Dr. Parimal Chandra Bhattacharjee	A/3 Asiyana Housing Complex Maligaon, Guwahati-781011, Assam	Member	Yes	No	No
11	Prof. MukeshKhare	Department of Civil Engineering, IIT, Delhi	Member	No	No	No
12	Shri V. K. Soni	Government of India, Ministry of Earth Sciences, India Meteorological Department, MausamBhawan, Lodi Road, New Delhi – 110003	Member	No	No	No
13	Shri Pankaj Kulshrestha	Regional Controller of Mines, IBM Block D, Second Floor, Indira Bhavan, Civil Lines, Nagpur - 440001	Member	Yes	No	No
14	Shri Ram Avatar	Representative of DGMS	Member	No	No	No
15	Shri Gowrappan	No. 6, Ganesh Avenue II Street, Shakti Nagar, Porur, Chennai, Tamil Nadu - 600116	Special Invitee	No	Yes	No

Minutes of 49th EAC Meeting (Non-Coal Mining) held during 19th to 21st April, 2022

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