



सत्यमेव जयते

Government of India
Ministry of Environment, Forest and Climate Change
IA Division
(Non-Coal Mining)



Minutes of AGENDA FOR 33rd MEETING OF THE EXPERT APPRAISAL COMMITTEE (NON-COAL MINING SECTOR), SCHEDULED TO BE HELD DURING 9th, 10th & 11th SEPTEMBER, 2024 THROUGH VIDEO CONFERENCING (Virtual) meeting Non-Coal Mining held from 09/09/2024 to 11/09/2024 Date: 27/09/2024

MoM ID: EC/MOM/EAC/869493/9/2024
Agenda ID: EC/AGENDA/EAC/869493/9/2024
Meeting Venue: N/A
Meeting Mode: Virtual
Date & Time:

09/09/2024	10:00 AM	05:30 PM
10/09/2024	10:00 AM	05:30 PM
11/09/2024	10:00 AM	05:30 PM

1. Opening remarks

The 33rd meeting of the Re-Constituted Expert Appraisal Committee (EAC) for Environmental Appraisal of Mining Projects (Non-Coal) of the Ministry of Environment, Forest and Climate Change was held during 9-11th September 2024 through video conference. The list of participants is annexed here with. 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.

2. Confirmation of the minutes of previous meeting

(1.0) Deliberation & Circulation on the Minutes of 33rd EAC (Non-Coal Mining) meeting held during 9-11th September 2024.

1.1 3C2 Limestone Block (Auctioned Block) for Limestone mining with the Production Capacity of 2.50 MTPA, OB/IB/Waste 2.80 MTPA, Top Soil: 0.38 MTPA (Total Excavation 5.68 MTPA) along with Installation of Crusher 1600 TPH with Wobbler in the mine lease area of 386.0215 Ha by M/s. JSW Cement Ltd located at Villages Harima & Deh, Tehsil Nagaur & Deh, District Nagaur,

Rajasthan.

[Online Proposal No. IA/RJ/MIN/486473/2024; F.No. IA-J-11015/49/2023-IA-II(NCM), EIA Consultant J.M. EnviroNetPvt. Ltd] – Amendment of Terms of Reference dated 15.01.2024 reg.

Minutes of the meeting and agenda number	Corrigendum required in the minutes of the 32nd EAC meeting held during 12-13th August, 2024	Recommendation of EAC
32 nd EAC meeting held during 12-13 th August 2024 & Agenda number 2.5, Paragraph no. 2, 5 th Column of the mentioned table.	The proposed 3D1 Limestone Block is auctioned block.	The proposed 3C2 Limestone Block is auctioned block.

1.2 3C1 Limestone Block (Auctioned Block) for Limestone mining with Production Capacity: 1.45 MTPA, OB/IB/Waste: 0.52 MTPA, Top Soil: 0.07 Million TPA (Total Excavation: 2.04 Million TPA) along with installation of Crusher of 1600 TPH with Wobbler in the mine lease area of 300.7284 ha by M/s. JSW Cement Limited located at Villages: Harima, Bhadana&Deh, Tehsil: Nagaur&Deh, District: Nagaur, Rajasthan.

[Online Proposal No: IA/RJ/MIN/485456/2024; F.No. IA-J-11015/50/2023-IA-II(NCM), EIA Consultant: J.M. EnviroNet Pvt. Ltd] – Amendment of Terms of Reference dated 15.01.2024 reg.

Minutes of the meeting and agenda number	Corrigendum required in the minutes of the 32ndEAC meeting held during 12-13th August, 2024	Recommendation of EAC
32 nd EAC meeting held during 12-13 th August 2024 & Agenda number 2.6, Paragraph no.	The instant proposal is for Amendment of Terms of Reference issued on 15.01.2024 for 3C2 Limestone Block (Auctioned Block) for Limestone mining with the Production Capacity of 2.50 MTPA, OB/ IB/ Waste 2.80	The instant proposal is for Amendment of Terms of Reference issued on 15.01.2024 for 3C1 Limestone Block (Auctioned Block) for Limestone mining with Production Capacity: 1.45 MTPA, OB/ IB/ Waste: 0.52 MTPA, Top

1.	MTPA, Top Soil: 0.38 MTPA (Total Excavation 5.68 MTPA) along with Installation of Crusher 1600 TPH with Wobbler in the mine lease area of 386.0215 Ha by M/s JSW Cement Ltd located at Villages Harima & Deh, Tehsil Nagaur & Deh, District Nagaur, Rajasthan.	Soil: 0.07 Million TPA (Total Excavation: 2.04 Million TPA) along with installation of Crusher of 1600 TPH with Wobbler in the mine lease area of 300.7284 ha by M/s. JSW Cement Limited located at Villages Harima, Bhadana & Deh, Tehsil Nagaur & Deh, District Nagaur, Rajasthan.
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1.3 Padhiarka and Doliya Limestone mine of M/s Nirma Limited for mining of Limestone with production capacity of 1.5 MTPA in the mine lease area of 332.24 ha, located at Villages Padhiarka & Doliya, Tehsil Mahuva, District Bhavnagar, Gujarat.

[Online Proposal No. IA/GJ/MIN/443206/2023, F. No. J-11015/154/2016-IA. II(M), EIA Consultant: M/s Centre for Envotech and Management Consultancy Pvt. Ltd] – Environmental Clearance reg.

Minutes of the meeting and agenda number	Corrigendum required in the minutes of the 32nd EAC meeting held during 12-13th August, 2024	Recommendation of EAC
32 nd EAC meeting held during 12-13 th August, 2024 & Agenda number 1.4 Para 3 point iii.	iii. PP shall use only the surface miner- and ripper dozer for mining purposes and an implementation report to be submitted to Ministry's Regional Office within six months. As committed by the Project Proponent during the Presentation drilling/ blasting methods will not be followed.	iii. PP shall use only surface miner and ripper dozer <i>for rock breaking purposes</i> and an implementation report <i>regarding the same</i> to be submitted to Ministry's Regional Office within six months. As committed by the Project Proponent during the presentation in EAC, drilling and blasting will not be used.
32 nd EAC meeting held during 12-13 th August, 2024 & Agenda number	viii. The Project Proponent needs to install the permanent water sprinklers along the haul road and the approach road. Further, 10 nos. of fog canon/	viii. The Project Proponent needs to install the permanent water sprinklers along the haul

<p>1.4 Para 3 Point viii.</p>	<p>mist sprayer of atleast 40 m throw shall be installed at various locations in the mine area. Effective dust suppression system shall also be adopted at other parts of the mining lease to arrest the fugitive dust emission.</p>	<p>road and the approach road in addition to mobile water tankers. Further, 10 nos. of fog canon/mist sprayer of at least 40 m throw shall be installed at various locations in the mine area. Effective dust suppression system shall also be adopted at other parts of the mining lease to arrest the fugitive dust emission.</p>
<p>32nd EAC meeting held during 12-13th August, 2024 & Agenda number 1.4 Para 3 Point xiii.</p>	<p>xiii. The Project Proponent should adopt the proper mitigation measures as proposed under EMP with the budget of Rs. 0.3980 Crores (Capital cost) and 31.47 Lakhs/Annum (Recurring cost). 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 personnel. The implementation status of the same shall be submitted to the Ministry's Regional Office. The Project Proponent should establish in house (at project site) environment laboratory for measurement of environment parameters with respect to air quality and water (surface and ground). A dedicated team to oversee environment management shall be setup at site, which should comprise of Environment Engineers, Laboratory chemist and staff for monitoring of air, water quality parameters on routine basis instead of engaging environment monitoring laboratories/consultants. Any non-compliance or infringement should be reported to the concerned authority.</p>	<p>xiii. The Project Proponent should adopt the proper mitigation measures as proposed under EMP. 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 personnel. The implementation status of the same shall be submitted to the Ministry's Regional Office. The Project Proponent should establish in house (at project site) environment laboratory for measurement of environment parameters with respect to air quality and water (surface and ground). A dedicated team to oversee environment management shall be setup at site, which should comprise of Environment Engineers, Laboratory chemist and staff for monitoring of air, water quality parameters on</p>

		routine basis instead of engaging environment monitoring laboratories/consultants. Any non-compliance or infringement should be reported to the concerned authority.
32 nd EAC meeting held during 12-13 th August, 2024 & Agenda number 1.4 Para 3 Point xxv.	xxv. PP needs to comply the OM dated 27.07.2024, where it is categorically stated that the plantation of saplings shall be carried out in the earmarked 33% greenbelt area as part of the tree plantation campaign .	xxv. PP needs to comply the OM dated 24.07.2024 of MoEFCC, where it is stated that the plantation of saplings shall be carried out in the earmarked 33% greenbelt area as part of the tree plantation campaign “ EK Ped Ma ke Naam” () and the details of the same shall be uploaded in the MeriLife portal(https://merilife.nic.in).

1.4 Vangar & Madhiya Limestone Mine of M/s Nirma Limited for mining of Limestone with production capacity of 1.6 MTPA in the mine lease area of 612.1336 ha, located at Villages Vangar & Madhiya, Tehsil Mahuva, District Bhavnagar, Gujarat.

[Online Proposal No: IA/GJ/MIN/443498/2023; F.No: J-11015/152/2016-IA.II (M), EIA Consultant: M/s Centre for Envotech and Management Consultancy Pvt. Ltd] - Environmental Clearance reg.

Minutes of the meeting and agenda number	Corrigendum required in the minutes of the 32nd EAC meeting held during 12-13th August, 2024	Recommendation of EAC
32 nd EAC meeting held during 12-13 th August, 2024 & Agenda number 1.5 Para 3 point iii.	iii. PP shall use only the surface miner- and ripper dozer for mining purposes and an implementation report to be submitted to Ministry's Regional Office within six months. As	iii. PP shall use only surface miner and ripper dozer for rock breaking purposes and an implementation report regarding the same to be

	<p>committed by the Project Proponent during the Presentation drilling/ blasting methods will not be followed.</p>	<p>submitted to Ministry's Regional Office within six months. As committed by the Project Proponent during the presentation in EAC, drilling and blasting will not be used.</p>
<p>32nd EAC meeting held dring 12-13th August, 2024 & Agenda number 1.5 Para 3 Point viii.</p>	<p>viii. The Project Proponent needs to install the permanent water sprinklers along the haul road and the approach road. Further, 10 nos. of fog canon/ mist sprayer of atleast 40 m throw shall be installed at various locations in the mine area. Effective dust suppression system shall also be adopted at other parts of the mining lease to arrest the fugitive dust emission.</p>	<p>viii. The Project Proponent needs to install the permanent water sprinklers along the haul road and the approach road in addition to the mobile water tankers. Further, 10 nos. of fog canon/ mist sprayer of atleast 40 m throw shall be installed at various locations in the mine area. Effective dust suppression system shall also be adopted at other parts of the mining lease to arrest the fugitive dust emission.</p>
<p>32nd EAC meeting held dring 12-13th August, 2024 & Agenda number 1.5 Para 3 Point xiii.</p>	<p>Xiii. The Project Proponent should adopt the proper mitigation measures as proposed under EMP with the budget of Rs. 0.3980 Crores (Capital cost) and 31.47 Lakhs/Annum (Recurring cost). 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 personnel. The implementation status of the same shall be submitted to the Ministry's Regional Office. The Project Proponent should establish in house (at project site) environment laboratory for measurement of environment parameters with respect to air quality and water (surface and ground). A dedicated team to oversee</p>	<p>xiii. The Project Proponent should adopt the proper mitigation measures as proposed under EMP. 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 personnel. The implementation status of the same shall be submitted to the Ministry's Regional Office.</p>

	environment management shall be setup at site, which should comprise of Environment Engineers, Laboratory chemist and staff for monitoring of air, water quality parameters on routine basis instead of engaging environment monitoring laboratories/consultants. Any non-compliance or infringement should be reported to the concerned authority.	
32 nd EAC meeting held during 12-13 th August, 2024 & Agenda number 1.5 Para 3 Point xxv.	xxv. PP needs to comply the OM dated 27.07.2024, where it is categorically stated that the plantation of saplings shall be carried out in the earmarked 33% greenbelt area as part of the tree plantation campaign .	xxv. PP needs to comply the OM dated 24.07.2024 of MoEFCC, where it is stated that the plantation of saplings shall be carried out in the earmarked 33% greenbelt area as part of the tree plantation campaign “EK Ped Ma ke Naam” () and the details of the same shall be uploaded in the MeriLife portal (https://merilife.nic.in).

1.4 Gujarda, Dudheri&Dudhala Limestone Mine of M/s Nirma Limited for mining of Limestone with production capacity of 2.7 MTPA in the mine lease area of 681.62 ha, located at Villages Gujarda, Dudheri&Dudhala, Tehsil Mahuva, District Bhavnagar, Gujarat.

[Online Proposal No: IA/GJ/MIN/443968/2023, F. No. J-11015/153/2016-IA. II(M), EIA Consultant- M/s Centre for Envotech and Management Consultancy Pvt. Ltd] - Environmental Clearance (EC) reg.

Minutes of the meeting and agenda number	Corrigendum required in the minutes of the 32nd EAC meeting held during 12-13th August, 2024	Recommendation of EAC
32 nd EAC meeting	iii. PP shall use only the surface	iii. PP shall use only surface miner and ripper dozer for rock

<p>held during 12-13th August 2024 & Agenda number 1.6 Para 3 point iii.</p>	<p>miner- and ripper dozer for mining purposes and an implementation report to be submitted to Ministry's Regional Office within six months. As committed by the Project Proponent during the Presentation drilling/ blasting methods will not be followed.</p>	<p>breaking purposes and an implementation report regarding the same to be submitted to Ministry's Regional Office within six months. As committed by the Project Proponent during the presentation in EAC, drilling and blasting will not be used</p>
<p>32nd EAC meeting held during 12-13th August, 2024 & Agenda number 1.6 Para 3 Point viii.</p>	<p>viii. The Project Proponent needs to install the permanent water sprinklers along the haul road and the approach road. Further, 10 nos. of fog canon/ mist sprayer of atleast 40 m throw shall be installed at various locations in the mine area. Effective dust suppression system shall also be adopted at other parts of the mining lease to arrest the fugitive dust emission.</p>	<p>viii. The Project Proponent needs to install the permanent water sprinklers along the haul road and the approach road in addition to the mobile water tankers. Further, 10 nos. of fog canon/mist sprayer of atleast 40 m throw shall be installed at various locations in the mine area. Effective dust suppression system shall also be adopted at other parts of the mining lease to arrest the fugitive dust emission.</p>
<p>32nd EAC meeting held during 12-13th August, 2024 & Agenda number 1.6 Para 3 Point xiii.</p>	<p>Xiii. The Project Proponent should adopt the proper mitigation measures as proposed under EMP with the budget of Rs. 0.3980 Crores (Capital cost) and 31.47 Lakhs/Annum (Recurring cost). 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 personnel. The implementation status of the same shall be submitted to the Ministry's Regional Office. The Project Proponent should establish in house (at project site) environment laboratory for measurement of environment</p>	<p>xiii. The Project Proponent should adopt the proper mitigation measures as proposed under EMP. 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 personnel. The implementation status of the same shall be submitted to the Ministry's Regional Office. The Project Proponent should establish in house (at project site) environment laboratory for measurement of environment parameter with respect to air quality and water</p>

	parameter with respect to air quality and water (surface and ground). A dedicated team to oversee environment management shall be setup at site, which should comprise of Environment Engineers, Laboratory chemist and staff for monitoring of air, water quality parameters on routine basis instead of engaging environment monitoring laboratories/consultants. Any non-compliance or infringement should be reported to the concerned authority.	(surface and ground). A dedicated team to oversee environment management shall be setup at site, which should comprise of Environment Engineers, Laboratory chemist and staff for monitoring of air, water quality parameters on routine basis instead of engaging environment monitoring laboratories/consultants. Any non-compliance or infringement should be reported to the concerned authority.
32 nd EAC meeting held during 12-13 th August, 2024 & Agenda number 1.6 Para 3 Point xxv.	xxv. PP needs to comply the OM dated 27.07.2024, where it is categorically stated that the plantation of saplings shall be carried out in the earmarked 33% greenbelt area as part of the tree plantation campaign .	xxv. PP needs to comply the OM dated 24.07.2024 of MoEFCC, where it is stated that the plantation of saplings shall be carried out in the earmarked 33% greenbelt area as part of the tree plantation campaign “ EK Ped Ma ke Naam” () and the details of the same shall be uploaded in the MeriLife portal (https://merilife.nic.in) .

3. Details of proposals considered by the committee

Day 1 -09/09/2024

3.1. Agenda Item No 1:

3.1.1. Details of the proposal

Proposed Farhatabad Limestone Mine (ML Area: 1445.83 ha.) with Limestone Production Capacity - 6.0 Million TPA, Top Soil – 0.14 Million TPA, Overburden- 1.21 Million TPA (Total Excavation – 7.35 Million TPA) and Installation of 2 x 1200 TPH Crushers along with Wobbler at Villages: Balwad, Tilgul, Kirangi & B. Saradgi Taluka & District: Kalaburagi (Karnataka) by Shree Cement Limited. by Shree Cement Limited located at KALABURAGI, KARNATAKA			
Proposal For		Fresh EC	
Proposal No	File No	Submission Date	Activity (Schedule Item)

IA/KA/MIN/491393/2024	IA-J-11015/6/2021-IA-II(M)	07/08/2024	Mining of minerals (1(a))
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3.1.2. Project Salient Features

The instant proposal is for Environmental Clearance for Farhatabad Limestone Mine for mining of Limestone with production capacity of 6.0 MTPA, Top Soil 0.14 MTPA, Overburden 1.21 MTPA (Total Excavation 7.35 MTPA) in the ML area of 1445.83 ha and Installation of 2 x 1200 TPH Crushers along with Wobbler by Shree Cement Limited located at Villages Balwad, Tilgul, Kirangi & B. Saradgi Taluka & District Kalaburagi (Karnataka).

2. The details of the project as per the document submitted by the Project Proponent are given as under:

1. The mine lease area is located between Latitude 17°06'49.4" N to 17°09'59.9" N and Longitude 76°47'55.4" E to 76°49'55.4" E.
2. As per the EIA Notification dated 14th September, 2006 as amended thereof, the project falls under Category B.
3. Details of Mine Lease:

S.n	Prospecting License/ Letter of Intent (LoI)/ Grant of Mine lease and Lr No	Date of the grant	Name of the Mineral & (Major/Minor)	Period of Grant	Granted by	Mine lease area in Ha
1.	Grant of prospecting license in favor of Shree Cement Limited	31.08.2007	Limestone	2 years	Government of Karnataka	1750
2.	Grant of Mining Lease in favor of Shree Cement Limited	03.12.2019	Limestone	50 years	Government of Karnataka	1445.83

S. No.	Details of grant of Mine Lease deed execution	Period of Grant		Name of the Mineral	Mine lease area in Ha
		From	To		

1.	<ul style="list-style-type: none"> · Government of Karnataka sanctioned the prospecting license over an area of 17.5 sq. kms. (1750 ha.) through grant order No. DMG/MLS/75/APL/200708/7030 dated 31.08.2007. The Prospecting License No. 3364 was executed on dated 20.11.2007 for the period of two years and the same was registered on 12.12.2007. · Mining lease over an area of 1445.83 Ha has been granted by Government of Karnataka vide order no CI 97 CMC 2018 Bengaluru, dated 03.12.2019 for a period of 50 years under section 10A (2)(b) of MMDR Act, 1957.

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

Private land	1416.903(Pvt. Land 1163.36 ha and 253.543 ha land is Industrial Land)
Government land	28.927
Forest Land	-
Total Mining lease area (MLA), Ha	1445.83
Private land for crusher, workshop & other infrastructure outside the MLA	No infrastructure is proposed outside the ML area
Additional information (if any)	-

5. Mining plan details:

Mining Plan including Progressive Mine Closure Plan (approved by Indian Bureau of Mines/DMG)	Letter No.	279/1107/2020/BNG/527
	Date	19.10.2020
	Mineral (Major/Minor)	Major

	Mine Lease Area, Ha	1445.83 ha
	Validity	5 years
Mining Parameters	Quantitative Description	
Method of Mining	Opencast Fully Mechanized Mining Method	
Drilling/Blasting	Drilling Parameter:	
	Bench height	12 meters.
	Depth of drill hole	12 meters.
	Drill hole dia	150-165 mm
	Burden	4 - 6 meters.
	Spacing	5 – 7 meters.
	Inclination with respect to horizontal	Vertical
	Subgrade drilling	Not required. (The use

ng	of bottom initiation blasting system and bottom air deck technology, there will be no need of sub grade drilling)
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Blasting Parameter:

Parameters	Details
Depth of hole	12 m
Diameter of hole	150 mm to 165 mm
Burden	4.0m – 5.0m
Spacing	6.0m – 7.0m
Sub grade drilling	Nil
Charge of explosive	80 Kg – 100 Kg

	per hole	
	Maximum No. of Hole Per Blast	120 Nos.
	Powder factor	9 tonne of rock per Kg of explosive
	Type of explosive to be used	Slurry explosives & ANFO
	Explosive requirement for rock handling of 1810100 tonnes per Annum	$1810100 \text{ tonnes} / 9 \text{ (Kg per Tonne Powder Factor)} = 201122 \text{ Kg of Explosive or } 201 \text{ tonnes of explosive per annum}$ Slurry Explosive (20%) = 40 tonnes ANFO (80%) = 161 tonnes
Initiation	Bottom initiation by the use of down line detonator in combination of noise less trunk line detonator on surface	
Geological Reserves	456 Million Tonnes	

Mineable Reserves	261 Million Tonnes
Breakup of Total Excavation (Topsoil/OB/SB/IB/Mineral Rejects/ Waste, MTPA)	Limestone Production Capacity 6.0 Million TPA, Inter Burden 1.21 Million TPA, Top Soil 0.14 Million TPA (Total Excavation 7.35 Million TPA)
Life of mine	~ 49 years
Mine Bench Height & Bench Width	Bench Height – 12 m Bench Width - 30 m (Working)
No. of Mine Benches	4
Existing Depth, m bgl	-
Ultimate Depth of Mining, m bgl	364 m RL (36 m bgl)
Ground Water Table, m bgl	Pre-Monsoon: 383-381 m RL (18-20 m bgl) Post monsoon: 386-383 m RL (15-18 m bgl)
Details of ground water inter section	Ultimate working depth of the mining operation will be up to 36 m and water table in the area is varies from 15 to 20 m. Ground water level will be intersected due to mining activities in the 10th Year. Necessary permission will be taken before intersection of ground water table
Individual bench slope	80°
Overall pit slope	45°
Details of existing/ proposed Crusher	Crusher of 2 X 1200 TPH capacity along with Wobbler proposed within the mining lease area.
Mineral Beneficiation	The ROM Limestone will be fed to Crusher Wobbler (Primary Screening method) where >90 mm (1.25 m) part

	<p>is fed into crusher, where it is crushed to <90 mm size. The <90 mm size from Crusher Wobbler is fed to Secondary screen (Double deck screen) from where (<6mm and <10mm) part is rejected, while + size material is added to Crushed <90 mm Limestone</p>		
RoM output size	<90mm		
Transportation details including capacity of dumper/tipper, mode of transport and distance	<p>Excavated limestone will be transported to the crusher via dumpers and crushed limestone will be transported to the proposed Cement Plant adjacent to mine site by covered conveyor belt. It will be a covered Conveyor belt of length 1.5 km and Conveyor corridor width of ~5 to 10 m.</p>		
Generation of Topsoil/OB & its Management during plan period & conceptual period	Particulars	Top Soil generation and management	OB generation and management
	Plan period:	<p>0.1032 million tonnes of soil will be generated during plan period which will be used for greenbelt and plantation</p>	<p>0.5805 million tonnes of OB will be generated during plan period which will be dumped in temporary dump storage</p>
	Conceptual stage:	<p>At conceptual stage, 5.12 Million Tonne Topsoil will be generated which will be used for greenbelt and plantation</p>	<p>47.2 Million Tonne will be generated which will be backfilled in 311.01 ha of the excavated area up to 12.5 m height that will be reclaimed by plantation</p>

Generation of Mineral Rejects/ Waste & its Management during plan period & conceptual period	-
Additional information (if any)	None

6. Water requirement

Total water requirement	250 KLD	Fresh Water	250
		Treated water	0
Source	Ground water, Bhima River and rain water collected in mine sump		
Permission for withdrawal/ intersection along with details of grant and its validity	<p>Ground Water withdrawal permission for 250 KLD was issued by Karnataka Ground Water Authority, Bengaluru (Karnataka) vide letter no. DE0011421056503, dated 22.12.2022 and valid up to 2 years i.e. 21.12.2024.</p> <p>Application for withdrawing 500 KLD water from Bhima River was submitted to Executed Engineer, Kalaburagi vide letter no SCL/KAR/PROJ/FTD/2015-16/222 dated 19.06.2015.</p>		

7. Nearest village/town/ highway/interstate boundary/railway station/water bodies/monument/ forest

Particulars	Particular's Name	Directions
Nearest village	<ul style="list-style-type: none"> · Habitation of Village- Balwad is exist in the excluded portion of surrounded by mining lease area; safety barrier of 300-meter periphery of the village habitation has been left. · Habitation of Village- Tilgul is about 300 m in NNE direction 	

Nearest Town	Farhatabad Town	~1.5 km in North direction
Nearest State/National Highway	· NH- 218 · SH - 125	· (~0.05 km in West direction) · (~2.0 km in SSE direction)
Interstate Boundary	None	None
Railway Station/Railway line	Martur	~9.5 km in NE direction
Water Bodies	Bhima River	~2.0 Km in West direction
	Dargahhalla	~2.5 Km in SSW direction
	Jevargihalla	~8.5 Km in SSW direction
	Nandanhalla	~9.5 Km in ENE direction
	Gade Karana halla	~9.5 Km in SSE direction
	Are halla	~9.5 Km in South direction
	Kattahalla	~10.0 Km in SSE direction
Forest	None within 10 km radius of the mining lease area.	

8. Presence of Environmentally Sensitive areas in the study area

Forest Land / Protected Area / Environmental Sensitivity Zone	Yes/No	Details of Certificate/letter issued by the concerned Department mentioning the Lr no, date of grant and remarks
Forest Land within the	No	No Forest land involved in mining lease area. Cert

mine lease area and (if yes) status of Forest Clearance		ificate for the same has been received from Principal Chief Conservator of Forests (Wildlife) & Chief Wildlife Warden, Karnataka vide letter no PCCF/WL/D/CR-29/2020-21 dated 31.07.2021.
National Park	No	No National Park, Wildlife Sanctuary, Elephant/Tiger Reserve, Eco-Sensitive Zone (ESZ) /Eco-Sensitive Area (ESA) exist within 10 km radius study area.
Wildlife Sanctuary	No	
Elephant/Tiger Reserve	No	
Eco-Sensitive Zone (ESZ) /Eco-Sensitive Area (ESA)	No	Certificate for the same has been received from Principal Chief Conservator of Forests (Wildlife) & Chief Wildlife Warden, Karnataka vide letter no PCCF/WL/D/CR-29/2020-21 dated 31.07.2021.
Coastal Regulation Zone (CRZ)	No	--
Schedule-I species (Nos and name of schedule-I species with authenticated letter)	Yes	11 schedule I Species found in the study area. Authenticated list along with Wildlife conservation plan for an amount of Rs. 116.40 Lakh has been approved by CWLW vide letter NoPCCF/WL/D/CR-60/2022-23 (797239) dated 29.06.2024
Wildlife Conservation Plan	Yes	

9. Green belt/Plantation details:

Proposed area for green belt/plantation and no. of saplings proposed	<ul style="list-style-type: none"> · <u>Greenbelt</u>: Total mining lease area is 1445.83 ha. Out of which, Greenbelt will be done on 16.24 Ha area on 7.5 m safety zone of lease boundary, which will be done in 1 year after initiating work at site. · Total greenbelt & plantation will be done on 477.12 ha area, in which greenbelt will be done on 16.24 ha area on 7.5 m safety zone of lease boundary and Plantation will be done on 149.87 ha area on safety barrier
Budget for green plant & plantation till the end of life of mine.	

Budget for nursery	<p>r along habitation and other mining constraints etc. and 311.01 Ha of backfilled will be reclaimed by plantation The trees will be planted @ 1200 saplings per ha of land. The backfilled area of 311.01 ha is proposed to be reclaimed by plantation</p> <p><u>Budget:</u> Rs. 4.0 crore</p>
Details of existing plantation and its survival rate	
No. of tree cuts in the mine lease area and compensatory afforestation	-
Particulars for Green belt/plantation	Area covered (in Ha)
7.5 m barrier & non-mineralized zone	<ul style="list-style-type: none"> · 16.24 ha on 7.5 m lease periphery · 149.87 ha on Safety Zones i.e. Village Abadi, Nallahs, Roads etc · 311.01 ha on Backfilled Area
50 m safety zone of nallah, roads, electric lines	
500 m safety zones of nearest habitation villages	
10. Baseline detail	
Baseline Data (Air / Water / Noise / Soil / Hydro geological study/ Traffic Study/ others)	
Period of baseline data collection	December., 2023 to February., 2024
Season (Summer / Pre-monsoon / Post-monsoon / Winter)	Winter Season

Predominant Wind direction (From)	Wind pattern for the study periods was from east direction that mean downwind direction is west. Habitation of village B. saradgi falls in downwind direction.
Ambient Air Quality (no. of locations) and results	11
Noise level (no. of locations) and results	11
Water Quality (no. of locations) and results	03 (Surface water) and 8 (Ground water)
Soil Quality (no. of locations) and results	8
Hydro geological study and results	Hydro-geological study has been done and submitted with Final EIA/EMP Report
Traffic study (no. of locations) and results	No public road will be used for transportation of Limestone. Therefore, traffic study is not required
11. Public Hearing (PH) Details	
Advertisement for PH with date	HosaDigantha, Deccan Herald & Sanje Vani on 14.06.2023
Date of PH	14.07.2023 at 02:30 PM
Venue	Sy. No. 10 of Project Site
Chaired by	Ms. Fouzia Taranum B, I.A.S, Deputy Commissioner, Kalaburagi District · Shri C.N. Manjappa, Environment Officer, Regional Office, KSPCB, Kalaburagi

Main issues raised during PH	Infrastructure development, Employment, health, education and sustainable development, electricity, Environment Management etc
Budget proposed for addressing issues raised during PH	Rs. 10.35 Crore

12. Rehabilitation & Resettlement:

R & R details	<ul style="list-style-type: none"> · The limestone mining activities will be carried out within the mining lease area of 1445.83 ha. Mining lease area falls in revenue villages Balwad, Tilgul, Kirangi & B. Saradgi. Out of the total mine lease area, 28.927 ha area is Government Land & 1416.903 ha is Private Patta land. Out of total private land, 701.526 ha private land is owned by SCL. · As per khasra details there are 498 project affected families, out of which 266 PAFs land has been acquired, and there are 232 PAFs whose land to be acquired and houses are falling within ML area. However, 232 PAFs having land only within ML area, and 11 houses are falling within ML area (at Balwad village on Govt. land), they falling on safety zone so they will not be displaced due to mining activities · R&R plan has been prepared and submitted with Final EIA/EMP Report
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13. Court case details:

Court Case	Supreme Court Order dated 10.07.2023 in the matter of SLP filed by State Govt. in case of similar matter of Dalmia Cement. It has been stated in the order that "Insofar as Dy. No. 15548/2023 (SLP filed by State Govt. in the matter of SCL), since it is stated that certain proceedings are pending before the Competent Authority, there would be no impediment for the proceedings to continue.
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14. Affidavit/Undertaking details:

Affidavit as per Ministry's OM dated 30.05.2018	Affidavit in accordance with the statutory requirement & judgment of Hon'ble Supreme Court dated 2 nd August 2017 in w.r.t. Petition (Civil) No. 114 of 2014 in the matter of common cause versus Union of India & Ores has been submitted.
Undertaking by Pro	The Project Proponent has submitted an undertaking vide letter d

ject Proponent in EIA/EMP report	ated 05.08.2024.
Undertaking by Consultant in EIA/EMP report	The Consultant has submitted an undertaking vide letter dated 03.08.2024
Plagiarism Certificate	Certificate of Plagiarism check has been submitted in the EIA-EMP report.

15. Details of the Environmental Management Plan (EMP)

S. No.	Activities	Capital Cost (In Lakhs)	Recurring Cost (In Lakhs)
I	EMP for Pollution Control & Monitoring		
A.	Air Quality Monitoring and Management		
Mitigative Measures			
1	Permanent water sprinkling arrangements for main haulage road	50	5
2	Four water tanker for water sprinkling in other roads and mining areas/activities.	50	5
3	Operation & Maintenance of Motor Grader & Soil Compactor for haul road maintenance	-	10

4	Pollution Control Device (Bag filter at Crusher) Equipment and its installation Cost, Operation & Maintenance	90	10
5	Plantation / Re-grassing in backfilled area of 311.01 ha with total 3,73,212 saplings from 6 th year onwards upto the life of mine	26 1.2 4	13
6	Plantation on safety zones around village Abadi, Nala& road area covering 149.87 ha with total 1,79,844 saplings from 6 th year onwards up to the life of mine	12 5.8 9	6.5
7	Green belt around 7.5 m periphery covering an area of 16.24 ha with total saplings of 19,488 from 1 st to 5 th year	13. 64	0.7
Monitoring			
1	4 Ambient Air Quality Monitoring Stations at Mine Site (one online and 3 manual) at Villages: Balwad, Tilgul, Kirangi& B. Saradgi and display board at Mines Main Gate	65	5
2	Fugitive dust emission monitoring (5 locations * monthly)	-	2.25
3	Personal Dust Monitoring (5 locations * Quarterly)	-	0.25
Sub Total A.		65 5.7 7	57.7
B.	Water Quality Monitoring and Management		
Mitigative Measures			
1	Garland Drain around waste dump (L*W*D = 370 m x 1 m x 1.5 m)	1.8	0.1
2	Retaining Wall around waste dump (L*W*D = 354 m x 1 m x 1 m)	11.	0.1

		43	
3	Channelized Catch Drains	20	0.5
4	5 nos. of Settling Tank / Sedimentation Pond (L*W*D = 4 m x 4 m x 5 m)	1.2 5	0.25
5	Construction of Protective Bunds along the water reservoir	20	0.5
6	Construction of 5 nos. of Check Dams (L*W*D = 6 m x 6 m x 3 m) (@ Rs. 4 lacs per Check Dam) and its annual maintenance	20	2.5
Monitoring			
1	Installation of 3 Piezometers along the periphery in the premises	4.7 5	0.4
2	Ground water quality analysis (4 locations * 4 times in a year)	-	0.4
3	Raw water analysis (PZ wells) (4 locations * 4 times in a year)	-	0.4
4	Surface Water Quality Analysis (Upstream and downstream of Bhima River & Mine Sump) - 4 samples * half yearly	-	0.25
5	Workshop Waste Water Quality Analysis (monthly) as well as maintenance of oil-water separators	-	1
Sub Total B.		79. 23	6.4
C.	Noise and Vibration Monitoring and Management		
Mitigative Measures			

1	Procurement of one Blast Vibration Measuring Instrument	5.0 0	-
Monitoring			
1	Peak Particle Velocity Monitoring for nearest habitation i.e., Balwad, Tilgul, Kirangi & B. Saradgi Village	-	1
2	Ambient Noise Monitoring (4 locations * monthly frequency)	-	0.5
3	Work Place Noise Level Monitoring (4 Locations * quarterly frequency)	-	0.2
4	Personal Noise Monitoring (4 Locations * quarterly)	-	0.2
5	Providing Ear muffs/plus to workers working in high noise area	-	0.5
Sub Total C.		5.0 0	2.4
D.	Miscellaneous		
1	Digital mapping of entire mine area once in three years (Rs. 1.5 Lacs once in 3 years)	-	1.5
2	Occupational Health Check-up of Mines Employees	10	2
3	Others, if any	-	5
Sub Total D.		10. 00	8.5
Grand Total (A+B+C+D)		75 0.0 0	75.00

16. Details of project cost and employment:

Particulars	Budget (Rs. in Crores)
Total Cost for EMP (Capital Cost of EMP + Capital cost of Public hearing)	Capital Cost: Rs. 19.01 Crores Recurring cost: Rs. 0.75 Crore
Project Cost	Rs. 654.47 Crores
Employment	237 persons

3.1.3. Deliberations by the committee in previous meetings

N/A

3.1.4. Deliberations by the EAC in current meetings

The Project Proponent/Consultant delivered a presentation and explained the key site features using a KML file, highlighting elements such as the existing villages located within the Mining Lease (ML) area and the highway passing adjacent to the ML area.

The Committee noted that the public hearing was conducted after the issuance of the ToR. It was further observed that four seasonal streams (Nallas) enter the Mining Lease (ML) area, with one stream flowing outside the ML area and merging into the Bhima River. Additionally, the village of Balwad is surrounded by the ML area, while Tilgul village is located 300 meters from the ML boundary. A connecting road between B. Saradgi village and Balwad village, with a length of 1.35 km, lies to the northwest of the ML area. Two schools, Government LPS Balwad and Government HPS Tilgul, are situated in close proximity to the ML area. Furthermore, National Highway-218 passes very near to the ML area, at a distance of approximately 50 meters from the ML boundary.

The Project Proponent (PP) informed the Committee about the judgment passed by the Hon'ble High Court of Karnataka on 27/05/2022, wherein the Court directed the Respondents to take necessary steps to execute the Mine Development and Production Agreement (MDPA) and Mining Lease (ML) in favor of the Petitioner (PP) and to carry out all required actions in accordance with the law, without reference to the proviso of Section 10A(2)(b) of the Mines and Minerals (Development and Regulation) Act, 1957, as inserted via the amendment dated 28/03/2021, within a period of six weeks.

Based on this judgment, the PP submitted letters dated 31/05/2022, to the Director of the Department of Mines and Geology (DMG), Bangalore, requesting confirmation of the amount of performance security and the draft MDPA, and (b) to execute the MDPA and ML Deed. Another letter was submitted on June 2, 2022, to the Regional Controller of Mines (RCM), Indian Bureau of Mines (IBM), Bangalore, informing him of the High Court's judgment dated 27/05/2022, wherein the writ was allowed and the order dated 01/06/ 2021, by the Regional Controller of Mines (RCOM), IBM, was quashed.

The State Authorities challenged the Hon'ble HC order dated 27/05/2022 before the Hon'ble Supreme Court. The Hon'ble Court vide its order dated 10/07/2023 stated that “.....that the status quo existing as on today be continued. Insofar as Dy. No. 15548/2023 since it is stated that certain proceedings are pending before the Competent Authority, there would be no impediment for the proceedings to continue. However, the effect of the said consideration would be taken note when this petition is ultimately heard.”

During the discussions, the Committee observed that Balwad village, comprising approx. 75 households, is situated within an area of approx. 5.83 hectares, located within the ML area. The Committee emphasized the need to implement preventive measures to ensure the protection and safety of the households. It was also noted that two crushers, along with a wobbler, are planned for installation within the ML area. The Committee requested the submission of a detailed plan for the installation of the crushers and wobblers, including their connecting routes, i.e. whether the transportation of crusher ore will be by road or conveyor belt.

In view of the above discussion, Committee **deferred** the proposal for the want of following information:

- i. The Project Proponent (PP) must submit a detail protection plan to meet the basic needs of households within a portion of the ML area, including provisions for drinking water, electricity, roads, schools, and hospitals.
- ii. The PP must submit a plan to safeguard the connecting village road and the National Highway that passes in close proximity to the Mine Lease (ML) area.
- iii. The PP is required to conduct a study from a reputed government organization to develop measures for protecting the nallah passing through the ML area. Additionally, the PP must submit a certificate from the state government confirming that no other nallahs or streams traverse the ML area.
- iv. The Project Proponent must submit the Mine Lease documents, indicating the lease is in the name of M/s Shree Cement Limited.
- v. The PP must obtain and submit a Resettlement and Rehabilitation (R&R) plan approved by the District Collector.
- vi. PP must submit land acquisition plan for their project.
- vii. The PP is required to explore the feasibility of implementing surface miners for conducting mining activities near the habitation.

- viii. A detailed plan must be submitted for the installation of a permanent water sprinkler system at as many locations as possible within the ML area (DGMS member can add up)
- ix. The Project Proponent needs to submit the detailed hydro geological study for intersection of ground water table for assessing its impacts and the action plan for withdrawal and storage of water when mining intersects the groundwater table.
- x. The PP must submit a detailed Standard Operating Procedure (SoP) approved by the Directorate General of Mines Safety (DGMS) for operations in the lower benches of the ML area after the 10th year i.e after intersection of groundwater.
- xi. The PP may also explore ways so that the use of groundwater or surface water is reduced and submit report accordingly.
- xii. The PP must provide the response of their letter dated 31/05/2022, submitted to the Director, DMG, Bangalore, requesting confirmation of the performance security amount and the draft MDPA, and to execute the MDPA and ML Deed.
- xiii. The PP must provide the response to their letter dated 02/06/2022, submitted to the Regional Controller of Mines (RCM), IBM, Bangalore, informing them of the High Court judgment dated 27/05/2022, in which the writ was allowed, and the order dated 01/06/2021, by the Regional Controller of Mines (RCOM), IBM, was quashed.
- xiv. PP needs to submit an action plan for installation of ETP in the project and STP in the residential area
- xv. The Project Proponent shall provide the details of Special Pollution Control/ Abatement devices that have been installed/ proposed to be installed within the ML area and how does the technology compare with the best available technology in the field.
- xvi. PP has not submitted whether they would like to install Mist spraying/fogging arrangement and windscreen around the crusher unit.
- xvii. PP is required to submit plan for Waste Dump Handling Management along measures to protect runoff water from the dumps
- xviii. Site visit by EAC subcommittee may be conducted to see the anticipated adverse effects of mine blasting on villagers/inhabitants in the lease area.
- xix. PP is required to submit plan for generation power through solar power plan.
- xx. PP is required to install Continuous Ambient Air Quality Monitoring System (CAAQMS)

3.1.5. Recommendation of EAC

Deferred for ADS

3.2. Agenda Item No 2:

3.2.1. Details of the proposal

Fresh Environmental Clearance for the Gold Ore Processing Plant (0.3 MTPA) component out of the existing Environmental Clearance for Mining and Processing of Gold Ore (ROM 0.4 MTPA and Ore Processing Plant of 0.3 MTPA) of Jonnagiri Gold Mine Project (ML Area: 597.82 Ha) of M/s Geomysore Services (India) Limited by GEOMYSORE SERVICES (INDIA) PRIVATE LIMITED located at KURNOOL,ANDHRA PRADESH			
Proposal For		Fresh ToR	
Proposal No	File No	Submission Date	Activity (Schedule Item)
IA/AP/MIN/492801/2024	J-11015-393-2008-IA-II-(M)	16/08/2024	Mining of minerals (1(a))

3.2.2. Project Salient Features

The instant proposal is for Terms of Reference for Jonnagiri Gold Mine Project for mining and processing of Gold Ore ROM 0.4 MTPA and Ore Processing Plant of 0.3 MTPA in the ML area of 597.82 ha by M/s Geomysore Services (India) Limited located at village Jonnagiri, Pagadrayi and Erragudi, Tehsil Tuggali Mandal, District Kurnool, Andhra Pradesh.

2. The details of the project as per the document submitted by the Project Proponent are given as under:

- i. The mine lease area is located between Latitude 15°13'57.67" N to 15°15'14.90" N and Longitude 77°34'46.7" E to 77°36'27.2" E.
- ii. The mine lease area falls under the Survey of India Toposheet No. 57 E/11 & E/12 and falls in Seismic Zone II.
- iii. The proposed project activity is listed at Schedule no. 1(a) Mining of Minerals & 2(b) for Mineral beneficiation, category "A" as the mining lease area is greater than 250 ha, and therefore project is being considered at central level.
- iv. PP had obtained the EC vide letter no. J-11015/393/2008-IA.II (M) dated 02.08.2010 for Jonnagiri Gold Ore Mine and Processing Plant.
- v. Details of Mine Lease:

S.no	Prospecting License/ Letter of Intent (LoI)/ Grant of Mine lease and Lr No	Date of the grant	Name of the Mineral & (Major/ Minor)	Period of Grant	Granted by	Mine lease area in Ha
1	Memo No. 9609/ M.I (1)2005-1	23.01.2008	Gold Ore	30 years The lease is	Govt. of Andhra Pradesh	597.82

				valid up to 20.10.2043.		
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S. No	Details of grant of Mine Lease deed execution	Period of Grant		Name of the Mineral	Mine lease area in Ha
		From	To		
1	Mining Lease was executed by Asst. Director of Mines & Geology, Kurnool	21.10.2013	20.10.2043	Gold Ore	597.82

vi. Land use/Land cover of the Mine Lease Area:

Private land	Patta Land – 525.66ha. (86.4owned by GMSI)
Government land	Govt. Land – 72.16 ha.
Forest land	0
Total Mining lease area (MLA)	597.82
Private land for crusher, workshop & other infrastructure outside the MLA	-

vii. Mining plan details:

Mining Plan including Progressive Mine Closure Plan (approved by Indian Bureau of Mines/DMG)	Letter No.	Lr.No. AP/KNL/MP/GOLD-1/Hyd
	Date	12.05.2023
	Mineral & (Major/Minor)	Gold Ore - Major Mineral

	Mine Lease Area, Ha	597.82
	Validity	2022 - 2023 to 2027 -2028.
Mining Parameters	Quantitative Description	
Method of Mining	Open cast and underground mechanized method using Heavy earth moving machinery, deep hole drilling, blasting and deploying hydraulic excavators and tippers combination.	
Drilling/Blasting	Deep hole drilling and blasting, loading the broken material by heavy machinery like hydraulic excavators and dumpers for transporting the gold ore to Processing Plant.	
Geological Reserves	10043513 tonnes	
Mineable Reserves	10043513 tonnes	
Breakup of Total Excavation (Topsoil/OB/SB/IB/Mineral Rejects/ Waste, MTPA)	GMSI proposes to produce 0.30 million TPA gold ore production Total Excavation :4.077 MTPA (ROM: 0.4 MTPA + OB: 3.45 MTPA + Top soil: 0.227 MTPA) & 0.30 Million TPA Gold Ore Processing Plant	
Life of mine	25 years	
Mine Bench Height & Bench Width	Mine Bench Height - 7.5 m & Bench Width (working bench) - 6m	
No. of Mine Benches	More than 6	
Existing Depth, m bgl	8m	

Ultimate Depth of Mining, m bgl	Opencast – 180m bgl (250 m RL) in eastern block, and Underground 350m bgl in western block
Ground Water Table, m bgl	The water table occurs at 14.3 m below the ground level and ground water will be encountered during 2nd year of mining.
Details of ground water intersection	Yes
Individual bench slope	70°
Overall pit slope	35°
Details of existing/ proposed Crusher	The crusher plant is designed to operate with a throughput of 200tph for 15 hours per day
Mineral Beneficiation	Gold Ore Processing Plant (1000 TPD)
RoM output size	1m ³
Transportation details including capacity of dumper/tipper, mode of transport and distance	The ore produced from the mine is transported to the stock yard from where it will be transported to ore processing plant
Generation of Topsoil/OB & its Management during plan period & conceptual period	<p>The soil is reddish and at places black. The total top soil generation is estimated to be about 0.52 million tonnes. This top soil will be used for afforestation and blanketing of the overburden dump and tailing dump area.</p> <p>Overburden 30.0 million tonnes waste is generated from the mine and it is disposed to the identified dump site.</p>
Generation of Mineral Rejects/ Waste	-

ste & its Management during plan p
eriod & conceptual period

viii. Water requirement

Total water requirement	1640m ³ /day. However, 1040m ³ /day is recycled from process and 600 m ³ /day of makeup water	Fresh water	600 m ³ /day
		Treated water	1040m ³ /day
Source	Source: HNSS Canal		
Permission for withdrawal/ intersection along with details of grant and its validity	GMSI had obtained permission from the HNSS canal for pumping to the tune of 5,88000m ³ /Annum.		

ix. Nearest village/ town/ highway/ interstate boundary/ railway station/ water bodies/ monument/ forest

Particulars	Particular's Name	Distance & Directions
Village	Bollavanipalli	- Adjacent-E
	Pagidirai	- 0.65 km - N
	Upparalla Palli	- 1.43 km - SE
	Jonnagiri	- 0.71 km - SW
Town	Kurnool	- 78.66 km - NE.
Highway	SH-33- Pattikonda - Gooty	- 1.37 km - W
Interstate Boundary	Andhra Pradesh - Karnataka	- 44.81 km - W

Railway Station/Railway line	Railway Station: Nearest Railway Station - Pagidirai RS Railway line: Pendekallu Junction – Gooty Junction of South-Central Railway line.	- 2.24 km – N. Railway Line is passing inside the mine site in the Eastern part
Water bodies	YT Cheruvu Ura Vanka Lingala Vanka	– 9.21 km – SW – Adjacent to the Mine Site – W – 4.12 km – NW
Forest	Tuggali RF Erragudi RF	– 4.86 km – N – 1.12 km – ENE

x. Presence of Environmentally Sensitive areas in the study area

Forest Land/ Protected Area/ Environmental Sensitivity Zone	Yes/ No	Details of Certificate/ Letter issued by the concerned Department mentioning the Lr no., date of grant and remarks
Forest Land within the mine lease area and (if yes) status of Forest Clearance	No	-
National park	No	-
Wildlife Sanctuary	No	-
Elephant/Tiger Reserve	No	-
Eco-Sensitive Zone (ESZ) /Eco-Sensitive Area (ESA)	No	-

Coastal Regulation Zone (CRZ)	No	-
Schedule-I species (No.s and name of schedule-I species with authenticated letter)	Yes	The reported/ observed list of fauna and their conservation status as per Wild Life Act 2022) in study area. Jackal, Indian Porcupine, Grey Mongoose, Bengal Fox, Indian Chameleon, Indian Cobra, Shikra, Common Pochard, Peafowl, Brahminy Kite and Barn Owl Schedule-I species reported in Study area. As per Wildlife (Protection) Act, 2022 list of Schedule - I species recorded in the study area
Wildlife Conservation Plan	Yes	Draft Wild Life Conservation Plan submitted to Chief Wild Life Warden, Govt. of Andhra Pradesh for approval vide letter dated 02.02.2024.

xi. Green belt/ plantation details:

Proposed area for green belt/plantation and no. of saplings proposed	Existing: 6.6 Ha with 10,000 saplings @1500 saplings per Ha. Proposed: 68.4 Ha totalling to 75 Ha during the lease period i.e 2043. Another 102600 saplings will be planted
Budget for green plant & plantation till the end of life of mine.	An amount of Rs.40 Lakhs has been spent. Additional amount of Rs.3.0crores is earmarked.

Budget for nursery	None
Details of existing plantation and its survival rate	<ul style="list-style-type: none"> · Existing Greenbelt: 6.6 Ha · Number of saplings: 10,000 · Amount spent Rs Lakhs: 40 · Survival rate:80%
No. of tree cuts in the mine lease area and compensatory afforestation	0
Particulars for Green belt/plantation	Area covered (in Ha)
7.5 m barrier & non-mineralized zone	During the life of the mine, GMSI will develop an area of 75.0ha under greenbelt along the roads.
50 m safety zone of nallah, roads, electric lines	-
300 m safety zones of nearest habitation villages	-

xii. Baseline detail

Baseline Data (Air/ Water/ Noise/ Soil/ Hydro geological study/ Traffic Study/ others)	
Period of baseline data collection	01.10.2023 to 31.12.2024
Season (Summer / Pre-monsoon / Post-monsoon / Winter)	Post Monsoon Season
Predominant Wind direction (From)	ESE-SE-SSE direction
Ambient Air Quality (no. of	AAQ Parameters at 08Locations

<p>locations) and results</p>	<p>PM10 = 40.2 to 65.6 $\mu\text{g}/\text{m}^3$</p> <p>PM2.5 = 25.3 to 35.4 $\mu\text{g}/\text{m}^3$</p> <p>SO2 = 9.5 to 16.8 $\mu\text{g}/\text{m}^3$</p> <p>NO2 = 10.5 to 18.3 $\mu\text{g}/\text{m}^3$</p> <p>CO: less than 1 ppm</p>
<p>Noise level (no. of locations) and results</p>	<p>Noise Levels at 10 Locations</p> <ul style="list-style-type: none"> · Day time: Core zone: 63.2 dB (A); Buffer Zone: 58.5 dB (A) · Night time: Core zone 51.8 – 54.7 dB (A); Buffer Zone: 42.4 – 44.6 dB (A)
<p>Water Quality (no. of locations) and results</p>	<p>Ground Water Quality At 08 Locations</p> <ul style="list-style-type: none"> · pH = 7.28 – 7.48 · Total Hardness = 270 - 580 mg/l. · Chlorides = 75 - 285 mg/l. · Fluoride = 0.90 – 1.4 mg/l. · Heavy Metals (Zinc) = <0.02 <p>Surface Water Quality at 06 Locations</p> <p>pH: 8.26 – 8.40;</p> <p>DO: 5.1– 5.6 mg/l</p> <p>BOD: 2 - 3 mg/l;</p> <p>COD: 10 – 20mg/l</p>
<p>Soil Quality (no. of locations) and results</p>	<p>Soil Quality 8 Locations</p> <p>Moderate fertility</p> <ul style="list-style-type: none"> · pH Value of 1:2 aqueous extract Solution - 7.55 - 7.81 · E.C, mS/cm of 1:2 aqueous extract Solution - 0.334 - 0.562 · Mineralized Nitrogen (Available Nitrogen), kg/ha - 259 – 339

	<ul style="list-style-type: none"> · Available Phosphorous as P₂O₅, kg/Ha: 21 – 46 · Available Potassium as K₂O, Kg/Ha - 194 - 292 · Organic Carbon, % - 0.29 - 0.61
<p>Hydro geological study and results</p>	<p>The site falls within a semi-arid region, and receives most rainfall during both the South-West Monsoon (June – September) and also some rainfall during the North-East Monsoon (October – January). The region experiences negligible rainfall outside of these monsoon seasons.</p> <p>The Jonnagiri site falls within the catchment of the Pennar river which flows from west to east approximately 33km south of the site. The Pennar river basin totals 55 000km², accounting for 1.8% of the total area of India.</p> <p>A catchment divide between the Pennar and Krishna catchments runs approximately 14 km north of the site. The Krishna River flows from west to east approximately 50km north of the site and is one of the main river systems in India, with a total basin area of approximately 255 000km², accounting for 8.5% of the total area of India.</p> <p>The ground water development computation at present is 46.1 % only and since, it is well below the 70 % hence, categorized as safe.</p>
<p>Traffic study (no. of locations) and results</p>	<p>The excavated ore will be utilised in ore processing plant existing within the mining lease area. The overburden waste will be transported to the identified dump yards within the mining lease area. The only product, which comes out, is the gold dore bar/Bullion gold.</p> <p>The impact of the project on the road network in terms of congestion to the traffic or vehicular emissions is not anticipated, as the traffic of dump</p>

pers is within the lease and less movement outside. Hence the impact due to transportation is marginal and confined to the mining lease area.

xiii. Public Hearing (PH) Details

Advertisement for PH with date (name of major national daily and one regional vernacular daily newspaper)	<p>The Subject proposal is for Terms of reference. However this can be exempted from public hearing as per MOEFCC Gazette Notification S.O. 1247 (E) dated 18.03.2021 since more than 60% of establishment/ construction of the Gold Ore Processing Plant has already been completed in terms of project investment and as well as more than 50 % physical activities on the ground</p>
Date of PH	
Venue	
Chaired by	
Main issues raised during PH	
Budget proposed for addressing issues raised during PH over 3 years	
Additional information (if any)	

xiv. Details of CTE/CTO, Certified Compliance Report, Certified Production Details from the inception of the mine:

Particulars	Details of Letter along with date of grant and validity
Consent to Establish	Order No. 163/PCB/CFE/RO-KNL/HO/2010-40 dated 30.03.2011
Consent to Operate	Order No.449765/APPCB/KNL/CTO/HO/2023 dated 17.07.2023 valid upto 30.06.2024

Certified Compliance Report and Inspection date	File No: SO/VIJ/EPA/EC-A/101/06-41/2024 Dated 30.05.2024
Certified Production Details from the inception of the mine (in tabular form against the EC capacity)	Project Proponent has submitted dated 18.01.2024

xv. Rehabilitation & Resettlement:

R & R details	Not Applicable
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xvi. Court case details:

Court Case, No and its present Status	PP submitted that no case is pending against the instant project.
Undertaking by Project Proponent w.r.t court case	No Litigation case is pending against the proponent.

xvii. Project Proponent has submitted the detail reply to MoEF&CC:

S.No	Particulars	Reply by project proponent
1	Latest CCR not older than one year from date of inspection	<p>The latest Certified Compliance Statement of earlier EC issued by Regional Office, Vijayawada, Ministry of Environment, Forest & Climate Change vide File No. SO/VIJ/EPA/EC-A/101/06-41/2024 Dated 30.05.2024.</p> <p>There are 4 observations and all of them complied with and action taken report was submitted to IRO and the Action Taken report along with Acknowledgement</p>

		t is submitted.																					
2	Details construction status (activity-wise) ore processing plant, which include civil, electrical and machinery along with latest photographs.	<p>The construction of the Gold Ore Processing Plant is more than 65% complete in terms of project investment. The status of the construction of the processing plant is as follows:</p> <table border="1"> <thead> <tr> <th></th> <th>Overall Progress - Department</th> <th>ACTUAL</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>Engineering</td> <td>85%</td> </tr> <tr> <td>B</td> <td>Supply (Includes Bought outs and Manufacturing)</td> <td>70%</td> </tr> <tr> <td>C</td> <td>Civil Work</td> <td>65%</td> </tr> <tr> <td>D</td> <td>Structural Work</td> <td>55%</td> </tr> <tr> <td>E</td> <td>Others (Electrical, Instrumentation, Automation, Utilities, Support Infrastructure, Plant Erection & Commissioning)</td> <td>40%</td> </tr> <tr> <td></td> <td></td> <td>65.25%</td> </tr> </tbody> </table>		Overall Progress - Department	ACTUAL	A	Engineering	85%	B	Supply (Includes Bought outs and Manufacturing)	70%	C	Civil Work	65%	D	Structural Work	55%	E	Others (Electrical, Instrumentation, Automation, Utilities, Support Infrastructure, Plant Erection & Commissioning)	40%			65.25%
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		65.25%																					

xviii. Details of the Environmental Management Plan (EMP)

S.No.		Capital Cost Rs. Lakhs	Recurring cost/ annum Rs. Lakhs
1.0	Air Environment		
	2 Nos of 8 KL Water Tankers	30.00	5.00
	Additional 1 No of 20 KL Water Tankers	20.00	5.00
	Dry fog system (mist canon)	10.00	2.00
2.0	Noise Environment		

	Enclosure for processing plants	2.00	0.5
	Personal Protection Equipment for Workers	25.00	5.00
3.0	Water Environment		
	Check dams	3.0	1.0
	Sewage treatment plant of 100 kld	20.00	3.00
	ETP	15.00	3.00
4.0	Waste Dump Management		
	Retaining walls	10	0.45
a.	Safety Bunds	5.0	0.55
	Garland Drains	5.0	0.50
5.0	Afforestation Plan		
	Afforestation on mined-out area Reclamation, Safe zone for canal, railway line and for village, Tailing dump Waste dump (for Life of Mine)	300.00	50.00
	Site Specific Wild Life Conservation Plan	13.25	0
6.0	Occupational Health – Pre and post medical Examination	35.00	5.00
7.0	Environmental Monitoring		

	Meteorological station	3	0.25
	Continuous Monitoring Stations	30 (1 Nos)	2.0
	Ambient Air Quality Monitoring	-	3.0
	Fugitive Emission	-	2.0
	Soil Quality	-	3.0
	Water Quality (Both Ground & Surface)	-	6.0
	Noise	-	1.0
	Ground vibrations		3.0
	Ground Water Level	-	0.5
	Total	526.25	101.75

xix. Details of project cost and employment:

Particulars	(Rs. In Lakhs)
Total cost of EMP (Capital Cost of EMP + capital cost of Public hearing)	Capital Cost of EMP: Rs. 526.25 Lakhs
Project Cost	Rs. 32,000 Lakhs
Employment (No.s)	350 persons

3.2.3. Deliberations by the committee in previous meetings

3.2.4. Deliberations by the EAC in current meetings

The Project Proponent/ Consultant presented the proposal for Terms of Reference through Kml file and explained the key site features showing water body, National Highway, Forest area, nearest villages namely Pagidirai located at 0.65 km in North direction & Jonnagiri located at 0.71 km in South-west direction from the mine lease area.

The Committee noted the request of the Project Proponent to consider the proposal as per the Notification S.O.1247 (E) dated 18.03.2021 for getting exemption from Public hearing. To avail the exemption from the public hearing the project proponent submitted the status report dated 06.09.2024 entitled “*PROGRESS UPDATE REPORT ON PLANT CONSTRUCTION OF GOLD MINING PROJECT AT JONNAGIRI, KURNOOL DISTRICT, AP*” prepared with respect to the progress made in the construction of Processing Plant. As per the report, the Project has been evaluated under the heads namely Civil, Structural, Mechanical including Material handling, De-dusting systems, dust suppression system, Water systems, compressed air systems & Air conditioning & Ventilation systems and EIA (Electrical & Instrumentation). The progress made under each head as given in the project is detailed below: -

Civil	63.94%
Structural	70.30%
Mechanical	64.48%
EIA	59.91%

In view of the above, committee opined that this report in itself cannot be considered to avail the exemption in accordance with the Ministry’s notification S.O.1247 (E) dated 18.03.2021. Additionally, EAC also raised its concern regarding the handling, storage and mitigation of anticipated pollution caused by Cyanide. The EAC was of the opinion that PP must undertake all precautionary measures while handling the cyanide, it may also engage domain experts to prevent its percolation to ground.

In view of the above, the Committee **deferred** the proposal and asked to submit the following requisite information:

- i. PP should submit an undertaking in the form of an affidavit stating that
 - a) Confirm that there was no construction done in the project after the expiry of EC and there is no violation of EIA notification 2006 (as amended),

b) The project does not fall in the violation category and
 c) percentage of construction completed within the EC validity. In addition to this PP shall also provide the year wise progress report (in terms of physical construction) from inception of the project to till date.

ii. The Project Proponent needs to submit the copy of Draft Wild Life Conservation Plan submitted to Chief Wild Life Warden, Govt. of Andhra Pradesh for approval vide their letter dated 02.02.2024.

iii. The Project Proponent needs to submit the conceptual plan having detail of dumpsites, processing plant site and transportation route to be used within the ML area.

iv. PP should specify mitigation measures that will be taken to avoid any contamination of water (surface /underground) and soil due to handling of cyanide)

v. The Project Proponent shall provide the details of Special Pollution Control/ Abatement devices that have been installed/ proposed to be installed within the ML area and how does the technology compare with the best available technology in the field.

3.2.5. Recommendation of EAC

Deferred for ADS

3.3. Agenda Item No 3:

3.3.1. Details of the proposal

Proposed Ramai Limestone Mine (Area: 334.21 Ha.) for Limestone production of 1.80 Million Tons Per Annum (MTPA) by M/s. Renuka Cement Limited at Ramai Village, Adilabad Mandal, Adilabad District, Telangana State. by RENUKA CEMENT LIMITED located at ADILABAD,TELANGANA

Proposal For		Fresh ToR	
Proposal No	File No	Submission Date	Activity (Schedule Item)
IA/TG/MIN/492985/2024	IA-J-11015/62/2024-IA-II(N CM)	16/08/2024	Mining of minerals (1(a))

3.3.2. Project Salient Features

This proposal is for Terms of Reference for Ramai Limestone Mine for mining of limestone with production capacity of 1.8 MTPA in the ML area of 334.21 ha by M/s Renuka Cement Limited located at Village Ramai, Mandal Adilabad, District Adilabad, Telangana.

2. The details of the project as per the document submitted by the Project Proponent are given as under:

i. The mine lease area is located between Latitude 19°37'58.50"N - 19°39'21.40"N and Longitude 78°37'30.10"E - 78°39'7.48"E.

ii. The mine lease area falls under the Survey of India Toposheet No. 56 I/10 and falls in Seismic Zone II.

iii. The proposed project activity is listed at Schedule no. 1(a) Mining of Minerals, Category “A” as the mining lease area is greater than 250 ha, therefore project is being considered at central level.

iv. Lease Details:

Granted Prospecting License	Area	334.21 Ha.	
	Execution date	14.06.2018	
	Proceedings No.	. 790/ML/2017	
Prospecting operation, Commence date	-		
Application for the Mining lease area and Date	-		
Validity of mine lease	28.01.2046		
Letter of Intent	Letter No.	G.O.Ms.No.40	
	Date	10.07.2017	

v. Mining plan details:

Mining Plan(approved by Indian Bureau of Mines/DMG)	Letter No.	AP/ADB/MP/Lst-3/Hyd
	Date	19.07.2024
	Validity	2025-26
Mining Parameters	Quantitative Description	

Bench Height	7 m
Bench Width	15m
Method of Mining	Fully mechanized opencast mining method.
Individual bench slope	60°
Overall pit slope	45°
Drilling/Blasting	Deep- hole drilling & blasting and use of HEMM with Excavator & dumper combination.
RoM output size	output size is -75mm
Life of mine	Lease period : 37.8 years
Transportation details	The limestone mined from this mine will be transported to a crusher located at 1.5km from the pit head. Tippers of 40 tonne capacity will be used for transport of limestone from pit to crusher
Tippers capacity	40 tonnes
Additional information(if any)	--

vi. Land Area Breakup:

Private land	[39.98 Ha Patta Lands + 184.39 Ha Ceiling Pattas+96.55 Ha Assigned Pattas
Government land	13.29 Ha
Total Mining lease area (MLA)	334.21 Ha

Private land for crusher, workshop & other infrastructure outside the MLA	Nil
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vii. Nearest village / town/ highway/railway station / water bodies

Particulars	Villages	Directions
Nearest Village	Addagutta- within ML Area	--
	Sonerao gutta- within ML Area	--
	Jamuldhari – 0.8 km	SW
	Ramai – 1.0 km	NNE
Nearest town	Adilabad-10.5km	WNW
Nearest Highway	(NH-353B)- Adilabad - Rajura – 8.36km	N
Nearest Railway station	Adilabad– 9.7 km	WNW
Nearest water bodies	Sat Nala– 0.5 km	NE
	Nallantiya Vagu-2.4km	NE

viii. Water requirement

Total water requirement	125m ³ /day	Fresh water	-
		Treated water	-
Source	Initially the water requirement will be met from Cement Plant. Later on the water requirement will be met through mine pits		
Permission	Not Applicable		

ix. 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	<ul style="list-style-type: none"> · Satnala RF – Adjacent – S · Yapalguda RF – 0.5km – S W · Yapal Guda RF – 3.3 km – WNW
National park	No	-
Wildlife Sanctuary & Forest	No	-

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

Schedule-1 species	Yes/No	Details of Certificate/letter/Remarks
Schedule-I species	No	None

xi. Green belt/plantation details:

Proposed area for green belt/plantation	<p>Greenbelt Development (7.5m barrier zone):7.39 Ha</p> <p>Greenbelt along the 50m safety barrier zone of canal and Power transmission lines Public roads: 62.48 Ha</p> <p>Thus the total area under greenbelt will be 69.87 Ha</p>
Budget for green plant& plantation till the end of life of mine.	The details will be provided in EIA/EMP report
Budget for nursery	The details will be provided in EIA/EMP report

Particulars for Green belt/plantation	Area covered (in Ha)
---------------------------------------	----------------------

7.5 m barrier & non-mineralized zone	7.39 Ha
50 m safety zone of nallah, roads, electric lines	62.48 Ha
500 m safety zones of nearest habitation villages	

xii. Baseline detail

Baseline Data (Air/ Water/ Noise/ Soil/ Ground water table/ others)	
Period of baseline data collection	Post monsoon Season 2024 i.e. October 2024 to December 2024
Season (Summer / Pre-monsoon / Post-monsoon / Winter)	Postmonsoon Season 2024

xiii. Court case details:

Court Case	There is no litigation/ court case pending against the project
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xiv. Rehabilitation & Resettlement:

R & R details	<p>There are Two Habitations present in the proposed mine lease area. Three such habitations consist of pakka houses, cement structures and huts:</p> <ul style="list-style-type: none"> · Sonerao Gutta- Around 18 houses/huts · Addagutta – Around 30 houses/huts <p>The 300m safety zone has been left around the Habitation area and there will not be any displacement of human settlement taking place. Controlled Blasting will take place by following DGM rules and regulations.</p> <p>The mining operations will not disturb/relocate any village. No public places, monuments etc., exist within the lease area or in the vicinity</p>
---------------	--

N/A

3.3.4. Deliberations by the EAC in current meetings

The Project Proponent/ Consultant has presented the proposal for Terms of Reference through Kml file and explained the key site features showing villages Jamuldhari located at 0.8 km in the south-west direction, Addagutta & Sonerao gutta located within ML Area and major Road Adilabad – Kanpa.

The Project Proponent/Consultant presented the chronology of the mining lease and its transfer. The Committee noted the mine lease was initially issued in the name of M/s. Zenith Steel Pipes and Industries Limited on 02.12.1995, which was valid upto 28.01.2016. The mine lease was transferred in the name of M/s. Birla Cement & Industries Limited on 30.07.1998. Further the change of name from M/s. Birla Cement & Industries Limited to M/s. Renuka Cement Limited and mine lease extension for 50 years as per section 8A (3) of MMDR Amendment Act 2016 was given on 10.07.2017.

The Committee noted the presence of habitation in and around the ML area and accordingly advised Project Proponent to propose adequate safety measures for protection of the inhabitants. EAC also advised PP to explore the options for relocating the inhabitants located outside the mine lease area the mine lease area. PP informed that they will not undertake mining activities near the existing habitation. Further, EAC asked the PP to prepare a report on the presence of tiger around the mine lease area and submit the same at the along with EIA-EMP report. A Satnala Left Bank Canal is passing through the ML area for which the permission/certificate required from Irrigation department. Committee also suggested PP to conduct study regarding the impact of blasting on the habitations within the lease area and its close vicinity.

Based on aforesaid discussions and presentation made by the Project Proponent and the Consultant, the EAC in its meeting held during 9-11th September, 2024 under the provisions of EIA Notification, 2006 and its subsequent amendments therein, recommended the proposal for grant of Terms of Reference (ToR) for Ramai Limestone Mine for mining of limestone with production capacity of 1.8 MTPA in the ML area of 334.21 ha by M/s Renuka Cement Limited located at Village Ramai, Mandal Adilabad, District Adilabad, Telangana for undertaking detailed EIA/EMP study subject to the following specific conditions in addition to the standard ToR conditions applicable for Non-coal mining projects:-

3.3.5. Recommendation of EAC

Recommended

3.3.6. Details of Terms of Reference

3.3.6.1. Specific

Specific Condition	
1.	The Project Proponent needs to explore all options for relocating the habitation lying within the ML area. Report regarding the same should be submitted.

2.	The Project Proponent needs to prepare a report on the presence of tiger within the study area, and submit an action plan for its conservation in EIA/EMP report.
3.	PP needs to obtain the NoC for mining with regard to the Sathnala Left Bank Canal Passing through the ML area from Irrigation department/water resources department.
4.	The Project Proponent needs to conduct a study regarding the impact of blasting on the existing habitation and also upon the sensitive location lying near to the ML area such as nallahs/dams etc.
5.	The Project Proponent needs to engage a national institute of repute to explore the feasibility of using surface miners.
6.	The Project Proponent needs to submit the detailed scientific study on flora and fauna and also to highlight on the endangered species. The Project Proponent needs to verify the list as per the latest Wildlife Protection Amendment Act, 2022.
7.	The Project Proponent needs to monitor the ambient air quality and noise level at the mine lease boundary, nearest village, crusher, predominant downwind direction and at other sensitive receptors. Accordingly, Project Proponent shall propose to install Continuous Ambient Air Quality Monitoring Station within certain timeline.
8.	The Project Proponent should prepare the EMP considering the scenario of pollution to be generated for normative and peak total excavation for assessing air pollution, noise level and ground vibration.
9.	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.
10.	The Project Proponent needs to carry out the Public Hearing as per provisions of EIA Notification, 2006. PP should also submit the time bound action plan on concerns of the public through a separate budget with capital expenditure with a timeline of 3 years. The Project proponent shall ensure that the activities proposed under the public hearing shall be different from the CSR activities.
11.	The Project Proponent needs to undertake the enumeration of the species within the mine lease area before cutting. The Project Proponent also needs to submit the compensatory afforestation plan for the number of trees to be cut in the mine lease area and also to explore the possibility of tree transplantation.
12.	The Project Proponent needs to submit the action plan for undertaking the plantation along the 7.5m barrier, safety zone of tar road/cart tracks, electric line etc., PP should also submit the details of number of saplings to be planted, type of saplings proposed and the area to be covered under greenbelt/plantation along with the timeline and budget. The greenbelt/plantation plan shall be prepared in such a way that the ecology of the area shall be restored.
13.	The Project Proponent shall carry out the assessment of impact due to the proposed project as per the guidelines issued by the Central Ground Water Authority from time to time and submit the same as a part of the EIA/EMP.
14.	The project proponent shall conduct hydrological study for projects involving intersection of ground water table as per the guidelines issued by the Central Ground Water Authority from time to time and submit the same as a part of the EIA/EMP.

1 5.	The Project Proponent shall explore the possibility of reduction of specific water requirement by optimization / technology up gradation, etc. The efforts shall be delineated in the EIA/EMP.
1 6.	The Project Proponent shall prepare the scheme for mandatory recycle/re-use of water as specified by the Central Ground Water Authority for different category areas seeking NoC for ground water withdrawal and the shall submit as part of EIA/EMP report.
1 7.	The Project Proponent needs to submit the detailed R&R plan covering all the components viz. number of Project Affected Families (PAF) 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.
1 8.	The Project Proponent needs to submit the plan for Socio economic development of the neighborhood habitats based on the need based survey along with the time bound action plan in consultation with the local people. Further, PP needs to submit the possession certificate and timeline for acquiring the land at the time of submission of EC proposal.
1 9.	The Project Proponent shall conduct drone survey of the mine lease area and buffer area and submit during the appraisal for EC.
2 0.	The Project Proponent shall submit an action plan in accordance with the Ministry's OM dated 24.07.2024.
2 1.	The Project Proponent shall provide the details of Special Pollution Control/ Abatement devices that have been installed/ proposed to be installed within the ML area and how does the technology compare with the best available technology in the field.
2 2.	Project proponent needs to carry out EIA/EMP keeping in mind the location of the School and to incorporate appropriate safeguards in the EIA/EMP report.

3.4. Agenda Item No 4:

3.4.1. Details of the proposal

Sarasani Harima Somna Limestone Block HPB 20 (ML Area: 547.5512 ha) with Proposed Limestone Production Capacity 3.0 Million TPA at Villages: Harima, Sarasani and Somna, Tehsil - Deh & Nagaur, District - Nagaur, Rajasthan by Ambuja Cements Limited located at NAGAUR, RAJASTHAN			
Proposal For		Fresh ToR	
Proposal No	File No	Submission Date	Activity (Schedule Item)
IA/RJ/MIN/493694/2024	IA-J-11015/68/2024-IA-II(N CM)	24/08/2024	Mining of minerals (1(a))

3.4.2. Project Salient Features

The instant proposal is for Sarasani Harima Somna Limestone for mining of Limestone with production capacity of 3.0 MTPA in the ML area of 547.5512 ha by M/s Ambuja Cements Limited located at

Villages Harima, Sarasani and Somna, Tehsil Deh & Nagaur, District Nagaur, Rajasthan.

2. The details of the project as ascertained from the document submitted by the Project Proponent are given as under:

I. The mine lease area is located between Latitude 27°14'35.6300" to 27°15'16.8258"N and Longitude 73°51'

II. The mine lease area falls under the Survey of India Toposheet No. Core Zone: G43B15 (45 E/15), G43B16

III. The proposed project activity is listed at Schedule no. 1(a) Mining of Minerals, Category "A" as the mining

IV. Details of Mine Lease:

S. No	Prospecting License/ Letter of Intent (LoI)/ Grant of Mine lease and Lr No	Date of the grant	Name of the Mineral & (Major/Minor)	Period of Grant	Granted by	Mine lease area in Ha
1.	Letter of Intent (LoI) was issued through e-auction process conducted by the Govt. of Rajasthan.	17.05.2024	Limestone	3 years	Govt. of Rajasthan	547.5512 ha

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

Private land	420.2462 ha
Government land	127.305 ha (Grazing land: 71.3498 ha)
Forest Land	-
Total Mining lease area (MLA), Ha	547.5512 ha
Private land for crusher, workshop & other infrastructure outside the MLA	No infrastructure is proposed outside the ML area.

VI. Mining plan details:

Mining Plan including Progressive Mine Closure Plan (approved by Indian Bureau of Mines/DMG)	Letter No.	Mining Plan with Progressive Mine Closure Plan for proposed capacity has been submitted to IBM, Ajmer.				
	Date					
	Mineral & (Major/ Minor)					
	Mine Lease Area, Ha					
	Validity					
Additional information (if any)	Mining Plan with Progressive Mine Closure Plan for proposed capacity has been submitted to IBM, Ajmer.					
Mining Parameters	Quantitative Description					
Method of Mining	Fully Mechanized Opencast Mining Method.					
Drilling/ Blasting	<p>Drilling: Drilling operations will be done mechanically by using hydraulic drill for deep hole drilling equipped with wet drilling/ dust extractor.</p> <p>Blasting: Blasting will be done by PETN Booster/ slurry explosives and ANFO/ Slurry using NONEL. No Secondary blasting will be undertaken and boulders will be reduced in size by deployment of Rock Breaker.</p> <p>Blasting operations will be proposed to be carried out in a controlled manner to minimize fly rock generation for safety of civil structures, machines and nearby habitation and agricultural fields.</p> <p style="text-align: center;">Drilling & Blasting Parameters</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">S. No.</th> <th>Drilling & Blasting Parameters</th> </tr> </thead> <tbody> <tr> <td style="height: 40px;"></td> <td></td> </tr> </tbody> </table>		S. No.	Drilling & Blasting Parameters		
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5.	Yield /Mtr	34.09																	
6.	Initiation system	NONEL																	
Geological Reserves	166.94 Million TPA (as on 01.07.2024)																		
Mineable Reserves	103.89 Million TPA (as on 01.07.2024)																		
Breakup of Total Excavation (Topsoil/OB/SB/IB/Mineral Rejects/ Waste, MTPA)	<p>Total Excavation: 5.50 MTPA</p> <p><u>Breakup of Total Excavation:</u></p> <p>1. Limestone: 3.0 MTPA</p> <p>2. Top Soil: 0.35 MTPA</p> <p>3. Over Burden: 2.15 MTPA</p>																		
Life of mine	38 years																		
Mine Bench Height & Bench Width	<p>Bench height: 10 m (Maximum)</p> <p>Bench Width: 10 m (Ultimate)</p>																		

No. of Mine Benches	4 benches at conceptual stage
Existing Depth, m bgl	It's a greenfield project.
Ultimate Depth of Mining, m bgl	276 m AMSL (34 m bgl)
Ground Water Table, m bgl	83 - 119 m bgl
Details of ground water intersection	Water table during Pre-Monsoon is 218 to 254 m AMSL (83 m to 119 m bgl) and during Post Monsoon is 218 to 256 m AMSL (81 m to 119 m bgl). Ultimate working depth of the mining operation will be 276 m AMSL (34 m bgl). The water table will not be intersected during mining.
Individual bench slope	85°
Overall pit slope	45°
Details of existing/ proposed Crusher	There is no crusher proposed inside the Mining Lease Area, as a primary crusher of 2000 t/hr rated capacity will be established in adjacent lease (3D2 Limestone Block).
Mineral Beneficiation	Not Applicable
RoM output size	Not Applicable
Transportation details including capacity of dumper/tipper, mode of transport and distance	3.0 Million TPA of Limestone will be crushed in crusher (2000 TPH) proposed in adjacent 3D2 Limestone Block. All the crushed limestone from proposed crusher will directly dispatched to the existing cement plant via overland belt conveyor of length ~ 24 km and by road till commissioning of conveyor belt
Generation of Topsoil/OB & its Management during plan period & conceptual period.	<u>Top Soil:</u> At the conceptual period, 9.17 million tonnes of Top soil will be generated which will be utilized for plantation/greenbelt. <u>Over Burden:</u> At the conceptual period, 39.66 Million Tonnes of waste will be generated which will be backfilled in the 290.92 Ha

	area and same will be used for agriculture/plantation/Re-grassing.
Generation of Mineral Rejects/ Waste & its Management during plan period & conceptual period	-

VII. Water requirement

Total water requirement	150 KLD	Fresh Water	150 KLD
		Treated water	-
Source	Matasukh lignite Mine/ Proposed STP plant (at village Harima)/ Ground water and rain water collected in mine sump as and when developed.		
Permission for withdrawal/ intercession along with details of grant and its validity	To be obtained		

VIII. Nearest village/ town/ highway/ interstate boundary/ railway station/ water bodies/ monument/ forest

Particulars	Particular's Name	Directions (Approx.)
Nearest Village	Harima	1.0 km in NW direction
Nearest Town	Jayal	29.0 km in ESE Direction
Nearest State/ National Highway	NH - 58	1.5 Km in NW direction
	SH - 19	7.5 km in SW Direction
Interstate Boundary	NA	NA
Railway Station/Railway line	Nagaur Railway Statio	15.0 km in NW Directio

	n	n
Water Bodies	Chapar Naadi	1.0 km in SE direction
	Jakhali Naadi	7.0 km in NNW direction
	Bamanda Nada	5.0 km in SE direction
	Pinsariya Naadi	6.0 km in SE direction
	Janjolai Naadi	9.5 km in North direction
	Bohra Naada	8.5 km in WNW direction
Forest	NA	NA

IX. Presence of Environmentally Sensitive areas in the study area

Forest Land/ Protected Area/ Environmental Sensitivity Zone	Yes/ No	Details of Certificate/letter issued by the concerned Department mentioning the Lr no, date of grant and remarks
Forest Land within the mine lease area and (if yes) status of Forest Clearance	No	Certificate/ letter from the concerned Department with be obtained during EIA study.
National Park	No	Certificate/letter from the concerned Department with be obtained during EIA study.
Wildlife Sanctuary	No	
Elephant/Tiger Reserve	No	

Eco-Sensitive Zone (ESZ) /Eco-Sensitive Area (ESA)	No	
Coastal Regulation Zone (CRZ)	No	-
Schedule - I species (No.s and name of schedule - I species with authenticated letter)	-	This proposal is for ToR, Detailed Biological Study will be carried out after grant of ToR and if schedule - I species are present in the study area, Wildlife Conservation Plan will be duly approved by Chief Wildlife Warden.
Wildlife Conservation Plan	-	

X. Green belt/Plantation details:

Proposed area for green belt/plantation and no. of saplings proposed	Total area to be covered under greenbelt/plantation will be 316.46 ha (Greenbelt on 7.5 m lease periphery, unworked area and backfilled area).
Budget for green plant & plantation till the end of life of mine.	Rs. 80 Lakhs
Budget for nursery	N/A
Details of existing plantation and its survival rate	Greenfield project.
No. of tree cuts in the mine lease area and compensatory afforestation	1200
Particulars for Green belt/plantation	Area covered (in Ha)
7.5 m barrier & non-minerali	Total area to be covered under greenbelt/plantation will

zed zone	be 316.46 ha (Greenbelt on 7.5 m lease periphery, unworked area and backfilled area).
On virgin land (towards habitation and others)	
50 m safety zone of roads & electric lines	
Backfilled area on non-grazing land	
on top benches	

XI. Baseline detail

Baseline Data (Air/ Water/ Noise/ Soil/ Hydro geological study/ Traffic Study/ others)	
Period of baseline data collection	March to May, 2024
Season (Summer / Pre-monsoon / Post-monsoon / Winter)	Summer Season
Predominant Wind direction (From)	Seasonal: SW Annual: SW

XII. Rehabilitation & Resettlement:

R & R details	<ul style="list-style-type: none"> · Total mining lease area is 547.5512 ha out of which 420.2462 ha is private land. · Land will be purchased with negotiation and R&R provisions will be followed as per Central and State Government Rules & Notifications.
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XIII. Court case details:

Court Case, No and its present status	No Court Case or Litigation is pending
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Undertaking by Project Proponent w.r.t court case	Submitted
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XIV. Details of project cost and employment:

Particulars	Budget (Rs. in Crores)
Total Project Cost	Rs. 469 Crores
Employment	79 persons

3.4.3. Deliberations by the committee in previous meetings

N/A

3.4.4. Deliberations by the EAC in current meetings

The Project Proponent/Consultant presented the proposal for Terms of Reference through a KML file and explained the key site features, including Harima Village located 1.0 km away, the Govt. Primary School, Kripa Ki Dhani, Harima (30 m in the north direction), and the Nala and Nadi lying within their study area.

The Committee observed that the Project Proponent has a valid letter of intent issued by the Government of Rajasthan, and the Mining Plan along with the Progressive Mine Closure Plan is at the approval stage. The Committee also noted that Harima village is situated within 1.0 km in the northern direction, and the nearest school, Govt. Primary School, Kripa Ki Dhani, Harima, is 30 m to the north.

The Project Proponent committed to adopting Controlled Blasting with the optimum use of explosive material to minimize impact. Additionally, water sprinklers will be used on haul roads, loading, unloading, and transfer points to arrest dust emissions. Regular maintenance of roads will be carried out by deploying a motor grader and soil compactor. To control noise levels, regular maintenance of vehicles, adequate silencers and AC cabins will be provided in Heavy Earth Moving Machines (HEMM).

The Project Proponent has committed to several important environmental measures. A tree planting campaign titled " " as per Ministry's OM dated 24.07.2024 will be initiated, and 33% of the mining

lease area will be developed into a greenbelt to enhance local biodiversity and ecological balance. To manage water runoff and prevent soil erosion, garland drains with siltation pits will be installed at the base of the dumps, ensuring that runoff water is directed into the water reservoirs formed by the mined-out pits. Additionally, regular monitoring of ground water quality and water levels will be conducted to ensure environmental compliance and sustainability.

The Committee observed that the proposal under consideration is for a green field project focused on the mining of limestone. Notably, a school is located very close to the mining lease (ML) area. The Committee emphasized that measures must be taken to protect the school from potential impacts of mining activities. It was recommended that the school be relocated to a safe distance in consultation with local authorities /district administration before the commencement of mining operations to ensure the safety and well-being of the students and staff.

Subsequently, the Committee requested the project proponent to conduct a detailed study on the implementation of a conveyor belt and surface miner. This study should focus on evaluating the potential benefits of these measures in reducing the environmental pollution load associated with the mining activities. The goal is to ensure that effective pollution control strategies are in place to minimize the environmental impact of the project.

Based on aforesaid discussions and presentation made by the Project Proponent and the Consultant, the Expert Appraisal Committee (EAC), in its meeting held from 9th to 11th September 2024, under the provisions of the EIA Notification, 2006 and its subsequent amendments, has recommended the proposal for the grant of Terms of Reference (ToR) for the Sarasani Harima Somna Limestone mining project by M/s Ambuja Cements Limited, with a production capacity of 3.0 MTPA in the ML area of 547.5512 ha, located in the villages of Harima, Sarasani, and Somna, Tehsil Deh & Nagaur, District Nagaur, Rajasthan. The recommendation is for undertaking a detailed EIA/EMP study and is subject to the following specific conditions, in addition to the standard ToR conditions applicable to non-coal mining projects:

3.4.5. Recommendation of EAC

Recommended

3.4.6. Details of Terms of Reference

3.4.6.1. Specific

Specific Condition	
1.	The Project Proponent needs to submit the action plan for shifting the school outside the mine lease area.
2.	The Project Proponent needs to provide the action plan with a definite timeline for the installation of

	the proposed OLBC. PP shall also undertake scientific study to explore the possibility of using surface miner through an institute of national repute.
3.	The Project Proponent needs to submit the detailed scientific study on flora and fauna and also to highlight on the endangered species. The Project Proponent needs to verify the list as per the latest Wildlife Protection Amendment Act, 2022.
4.	The Project Proponent needs to submit the letter from the State Forest Department regarding whether the instant mine leases fall under Aravalli region or not.
5.	The Project Proponent needs to monitor the ambient air quality and noise level at the mine lease boundary, nearest village, crusher, predominant downwind direction and at other sensitive receptors. Accordingly, Project Proponent shall propose to install Continuous Ambient Air Quality Monitoring Station within certain timeline.
6.	The Project Proponent should prepare the EMP considering the scenario of pollution to be generated for normative and peak total excavation for assessing air pollution, noise level and ground vibration.
7.	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.
8.	The Project Proponent needs to carry out the Public Hearing as per provisions of EIA Notification, 2006. PP should also submit the time bound action plan on concerns of the public through a separate budget with capital expenditure with a timeline of 3 years. The Project proponent shall ensure that the activities proposed under the public hearing shall be different from the CSR activities.
9.	The Project Proponent needs to undertake the enumeration of the species within the mine lease area before cutting. The Project Proponent also needs to submit the compensatory afforestation plan for the no. of trees to be cut in the mine lease area and also to explore the possibility of tree transplantation.
10.	The Project Proponent needs to submit the action plan for undertaking the plantation along the 7.5m barrier, safety zone of tar road/cart tracks, electric line etc., PP should also submit the details no of saplings to be planted, type of saplings proposed and the area to be covered under greenbelt/plantation along with the timeline and budget. The greenbelt/plantation plan shall be prepared in such a way that the ecology of the area shall be restored.
11.	The Project Proponent shall carry out the assessment of impact due to the proposed project as per the guidelines issued by the Central Ground Water Authority from time to time and submit the same as a part of the EIA/EMP.
12.	The project proponent shall conduct hydrological study for projects involving intersection of ground water table as per the guidelines issued by the Central Ground Water Authority from time to time and submit the same as a part of the EIA/EMP.
13.	The Project Proponent shall explore the possibility of reduction of specific water requirement by optimization / technology up gradation, etc. The efforts shall be delineated in the EIA/EMP.
14.	The Project Proponent shall prepare the scheme for mandatory recycle/re-use of water as specified by the Central Ground Water Authority for different category areas seeking NoC for ground water

	withdrawal and the shall submit as part of EIA/EMP report.
1 5.	The Project Proponent needs to submit the detailed R&R plan covering all the components viz. number of Project Affected Families (PAF) 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.
1 6.	The Project Proponent 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 in consultation with the local people. Further, PP needs to submit the possession certificate and timeline for acquiring the land at the time of submission of EC proposal.
1 7.	The Project Proponent shall conduct drone survey of the mine lease area and buffer area and submit during the appraisal for EC.
1 8.	The Project Proponent needs to consider the Nala and Nadi existing within the study area of instant project and their protection plan shall also be prepared with the EIA-EMP report.
1 9.	The Project Proponent shall provide the details of Special Pollution Control/ Abatement devices that have been installed/ proposed to be installed within the ML area and how does the technology compare with the best available technology in the field.

Day 2 -10/09/2024

3.1. Agenda Item No 1:

3.1.1. Details of the proposal

Mudhvay Sub-Block 'B' Limestone Mine with Limestone production capacity of 4.38 Million TPA, Over-burden: 8.5 Million TPA & Top Soil: 0.44 Million TPA [Total Excavation: 13.32 Million TPA including Top soil/ 12.88 excluding Top Soil] and installation of 1200 TPH capacity Crusher within a Mining Lease Area of 228.2694 ha at Mudhvay Village, Lakhpat Tehsil, Kachchh District, Gujarat of Shree Cement Limited. by Shree Cement Limited located at KACHCHH,GUJARAT			
Proposal For		Amendment in EC	
Proposal No	File No	Submission Date	Activity (Schedule Item)
IA/GJ/MIN/458723/2024	IA-J-11015/23/2018-IA-II(M)	15/01/2024	Mining of minerals (1(a))

3.1.2. Project Salient Features

<p>The instant proposal is for amendment in Environmental Clearance (EC) issued on 04th April, 2022 for Mudhvay Limestone Mine with production capacity of 4.38 MTPA, Over-burden 8.5 MTPA & Top Soil 0.44 MTPA comprising total excavation 13.32 MTPA including Top soil] along with the installation of 1200 TPH capacity Crusher in ML Area of 228.2694 ha by M/s Shree Cement Limited located at Mudhvay Village, Lakhpat Tehsil, Kachchh District, Gujarat.</p>

2. The details of the project as ascertained from the document submitted by the Project Proponent are given as under:

i. The mine lease area is located between Latitude 23°42'41.36" to 23°43'59.93" and Longitude 68°41'11.94" to 68°41'53.21". The mine lease area falls under the Survey of India Toposheet No. Core Zone: F42C10 (41A/10), Buffer Zone: F42C9 (41A/9), F42C10 (41A/10), F42C13 (41A/13) & F42C14 (41A/14) and falls in Seismic Zone-V.

ii. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals. The instant proposal attracts the general conditions as the Narayan Sarovar Wildlife Sanctuary is located at a distance of 3.3 km, South and Eco-Sensitive Zone is located at a distance of 2.4 km, South from mine lease area and falls under Category "A" and accordingly appraised at the Central level.

iii. Details of previous Environmental Clearance (EC): -

a. The Project Proponent obtained Environmental Clearance (EC) on 04.04.2022 for Mudhvay Sub-Block 'B' Limestone Mine with Total excavation of 12.18 MTPA [Limestone: 4.38 Million TPA, Over-burden: 8.14 Million TPA & Inter Burden: 0.36 Million TPA excluding Top Soil] and installation of 1200 TPH capacity Crusher in the mine lease area of 233.5 ha, located at Mudhvay Village, Lakhpat Tehsil, Kachchh District, Gujarat.

b. Then, the Project Proponent obtained Corrigendum in EC on 27.06.2022 w.r.t total excavation as 12.88 MTPA instead of 12.18 MTPA.

c. The Project Proponent has requested for amendment in EC dated 04.04.2022 w.r.t change in mine lease area from 233.5 ha to 228.2694 ha. The Project Proponent submitted that due to change in mine lease area the following amendment is sought as given below in table: -

S. No.	Particulars	Details as per EC dated 04.04.2022	Amendment sought by the Project Proponent	Remarks given by the Project Proponent
1	ML Area (in ha)	233.50 ha Govt. land: 143.0 ha Pvt. land: 90.50 ha	228.2694 ha Govt. land: 137.7694 ha Pvt. land: 90.50 ha	An area of 5.2306 ha was restricted and deleted from Letter of Intent (LoI) of 233.50 ha as per the order dated 20.12.2022.
2	Geographical Coordinates	23° 42' 39.2377" N to 23° 43' 59.9313" N 68° 41' 11.9388" E to	23°42'41.36" N to 23°43'59.93" N 68°41'11.94" E to 68°41'53.21" E	Southern coordinates shifted northwards

		68° 41' 53.2506" E		
3	EMP Capital Cost (Rs. in Cr.)	2.93	3.68	0.75 Cr. Increased due to Greenbelt increased
4	EMP Recurring Cost (Rs. in Cr.)	0.276	0.346	0.084 Cr. Increased due to Greenbelt increased
5	Power Requirement MW)	2 MW	2.3 MW	Slightly increase due to Power Factor Consumption
6	Total Geological Reserves (in Million Tonnes)	301.5 Million Tonnes	294.867 Million Tonnes	Reduction of reserves due to reduction of ML Area
7	Minable Reserves (in Million Tonnes)	262.94 Million Tonnes	241.390 Million Tonnes	Reduction of reserves due to reduction of ML Area
8	Total Waste Generation	121.79 Million Tonnes	110.4 Million Tonnes (Not provided in Modified Mining Plan as per the standard format)	Reduction of Waste generation due to reduction of ML Area
9	Life of the Mine	64 Years	59 Years as mineable reserves have been reduced	Life of Mine reduced due to reduction of Reserves
10	Distance to Narayan Sarovar WLS & ESZ	3.3 km 2.4 km	3.4 km 2.5 km	Distance increase due to reduction of ML Area & shifting of ML boundary

11	Land Use	Excavated area: 221.70 ha (Voids: 66.70 and Backfilled area: 155.0 ha)	Excavated area: 209.4694 ha (Voids: 54.47 ha and Backfilled area: 155.0 ha)	Reduction in void area by 12.23 ha
12	Greenbelt	11.80 ha	18.80 ha	Increase on south side of ML

iv. The proposal was considered in the 26th EAC (Non-Coal Mining) meeting held during 31 January & 1 February 2024 wherein the Committee has deferred the proposal and requested to submit the desired information. The PP vide letter dated 17.05.2024 submitted the point-wise reply, thereafter Committee considered the proposal and deferred in the 30th EAC meeting held during 12th, 13th and 14th June, 2024. Wherein the Committee asked to submit the requisite information, further the project proponent submitted their reply vide dated 07.08.2024 are as follows:

S. No.	Observation of EAC	Reply by Project Proponent
ADS dated 26.06.2024, reply dated 07.08.2024 :		
1.	Project Proponent needs to submit a letter from the Department of Geology and Mining, Government of Gujarat clarifying whether any mining within the Forest Land of 5.23.06 ha has been carried out or not and whether the same has been carried out by M/s. Shree Cement Limited or not?	As required by EAC (Non- Coal Mining) of MoE F&CC, Project Proponent submitted a request letter to Geologist, Geology & Mining Department, Bhuj- Kachchh, Govt. of Gujarat vide our letter reference no. SCL/Guj.-Mudhvay Mine/CGM/2024-25/127, dated 12.07.2024 for issuance of a certified information. Subsequently, the Geologist, Geology & Mining Department, Bhuj- Kachchh, Govt. of Gujarat has issued a letter vide reference no. JKK/Limestone/Sub Block-B/5735, dated 01.08.2024.
2.	PP needs to submit the boundary coordinates of the revised ML area certified by DM G.	It was clarified that: 1. No Mining activity was carried out by Shree Cement Limited within the Forest Land of 5.23.06 ha. (which has been deleted from LOI Area i.e. 233.5 ha. while grant of ML with 228.2694 ha area of Mudhvay Sub Block-B Limestone Mine).

2. Certified Boundary Coordinates of Revised Mining Lease (ML) Area i.e. 228.2694 ha. of Mudhvay Sub Block-B Limestone Mine are as follows:

Point	Latitude	Longitude
1.	23°42'46.45" N	68°41'53.21" E
2.	23°42'59.91" N	68°41'52.90" E
3.	23°43'16.17" N	68°41'52.58" E
4.	23°43'32.42" N	68°41'52.22" E
5.	23°43'48.68" N	68°41'51.90" E
6.	23°43'59.93" N	68°41'51.66" E
7.	23°43'57.15" N	68°41'41.99" E
8.	23°43'48.66" N	68°41'21.98" E
9.	23°43'53.93" N	68°41'11.94" E
10.	23°43'35.27" N	68°41'11.98" E
11.	23°43'16.61" N	68°41'12.06" E
12.	23°42'57.94" N	68°41'12.11" E
13.	23°42'57.55" N	68°41'26.34" E
14.	23°42'41.36" N	68°41'28.90" E

3. Certified Boundary Coordinates of Deleted Forest Area of 5.23.06 ha from LOI area of Mudhvay Sub Block- B Limestone Mine are as follows:

Point	Latitude	Longitude
1 (A1)	23°42'43.64" N	68°41'53.25" E
2 (A2)	23°42'39.23" N	68°41'29.21" E
3 (1)	23°42'46.45" N	68°41'53.21" E

3. PP needs to submit the DM G certified coordinates of the deleted forest area of 5.23.06 ha.

		4 (14)	23°42'41.36" N	68°41'28.90" E
4.	Project Proponent needs to submit the undertaking that no mining has been done on 5.23.06 ha. land.	<p>A Notarized Undertaking duly signed by Authorized Signatory of Shree Cement Limited (Project Proponent) confirming/stating that; “There is no construction or mining activity initiated/ started at mine site including deleted overlapping forest area i.e. 5.23.06 ha. It is a virgin mine and mining activities will be initiated/carried out only after grant of amendment in the EC from MoEF&CC for mining lease area of 228.2694 ha. and subsequent applicable Consents from Gujarat State Pollution Control Board.”</p> <p>The Project Proponent has submitted a Notarized Undertaking.</p>		

v. Lease Details:

S. No	Details of grant of Mine Lease deed execution	Period of Grant		Name of the Mineral	Mine lease area in Ha
		From	To		
1	<ul style="list-style-type: none"> Lease deed has been executed for an area of 228.2694 ha. on 19.12.2022 Lease Registration has been done for an area of 228.2694 ha. on 20.12.2022. 	19.12.2022	18.12.2072	Limestone	228.2694

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

Private land	90.50 ha
Government land	137.7694 ha is Govt. Land.
Forest land	0

Total Mining lease area (MLA), ha	228.2694
Private land for crusher, workshop & other infrastructure outside the MLA	Crusher will be installed within the mine lease area with other infrastructures.

vii. Mining Plan details:

Mining Plan (approved by Indian Bureau of Mines/ DMG)	Letter No.	MCDR-MPCP0CaFI/22/2023-GNR-IBM_RO_GNR MP-482 Mine Code: 38GUJ449002
	Date	08.09.2023
	Mineral & (Major/Minor)	Major
	Mine Lease Area, Ha	228.2694
	Validity	07.09.2028
Mining Parameters	Quantitative Description	
Method of Mining	Fully Mechanized Opencast Method	
Drilling/Blasting	<p>No drilling will be conducted for limestone Mining. Over burden will also be excavated by Hydraulic excavator without use of drilling & blasting. However, if required, drilling will be conducted for doing further blasting if compact & hard over burden is encountered which cannot be excavated without blasting. The 3 no. of Crawler mounted DTH hammer drill machine (100 mm dia Magic Drill, Non electric HP-100, CFM- 450) will be made available to meet the requirement.</p> <p>No blasting is required for Limestone Production. Over burden will also be excavated by Hydraulic excavator without use of drilling & blasting. However, if required, Controlled blasting will b</p>	

	e conducted if compact & hard over burden is encountered which cannot be excavated without blasting. Every effort will be made to achieve minimum ground vibrations and fly rocks.
Geological Reserves	294.867 Million Tonnes
Mineable Reserves	241.390 million Tonnes
Breakup of Total Excavation (Topsoil/ OB/ SB/ IB/ Mineral Rejects/ Waste, MT PA)	Total Excavation: 12.88 Million TPA excluding Top soil (13.32 Million TPA including Top Soil)
Life of mine	59 Years
Mine Bench Height & Bench Width	10 m & >30 m, respectively
No. of Mine Benches	
Existing Depth, m bgl	0 m since the mine is not in operation;
Ultimate Depth of Mining, m bgl	104.5 m bgl
Ground Water Table, m bgl	Depth to Water level in the buffer area ranges from 13.4 to 54.6 mbgl in pre-monsoon season & 10.3 to 52.8 m bgl in post-monsoon season and in the core area from 4.23 to 2.30 m bgl in pre-monsoon season & 19.66 to 14.20 m bgl in post-monsoon season
Details of ground water intersection	The mining operation intersects water table in the 4 th and 5 th year of the mining plan period. Ground Water withdrawal NOC along with Dewatering Permission was issued by CGWA vide NO

	C No. CGWA/NOC/MIN/ORIG/2022/15938, dated 05.07.2022 and valid up to 04.07.2024
Individual bench slope	85°
Overall pit slope	45°
Details of existing/ proposed Crusher	1200 TPH Capacity Crusher proposed within Mining Lease Area
Mineral Beneficiation	Nil
ROM Output size	<90mm
Transportation details including capacity of dumper/tipper, mode of transport and distance	Crushed limestone from crusher will be transported to Cement Plant through Covered Conveyor Belt, 50 T dumpers and distance 3.5 km
Generation of Topsoil/OB & its Management during plan period & conceptual period	<ul style="list-style-type: none"> 1 Over-burden: 8.5 Million TPA & Top Soil: 0.44 Million TPA 2 5.32 MT of Top Soil will be generated at the end of life of mine, which will be temporarily stacked and used for greenbelt & plantation on backfilling and peripheral plantation 3 OB will be used for backfilling mine void. Backfilled area 15 5.00 Ha, will be reclaimed by plantation along with re-grassing.
Generation of Mineral Rejects/ Waste & its Management during plan period & conceptual period	Waste in form of OB will be generated as explained above.

viii. Water requirement

Total water requirement	150 KLD	Fresh water	150 KLD
		Treated water	-
Source	Ground Water and Mine Pit		
Permission	Ground Water withdrawal NOC along with Dewatering Permission was issued by CGWA vide NOC No. CGWA/NOC/MIN/ORIG/2022/ 15938, dated 05.07.2022 and valid up to 04.07.2024. Application for extension of existing ground water NOC has been online submitted to CGWA vide file no. 21-4/7457/GJ/MIN/2021, dated 12.06.2024 and same is under process.		

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

Particulars	Particular's Name	Distance & Directions
Village	Mudhvay	~0.5 km in SSW direction from mine lease area
Town	Town is SK Verma Nagar & City is Bhuj City	SK Verma Nagar (~3.6 km in SSE direction) Bhuj City (~112 km in SW direction)
Highway	NH- 8A, SH- 42 & SH- 6	· NH- 8A (Naliya- Narayan Sarovar Road) (~14.3 km in SW) · SH- 42 (Lakhpat- Bhachau) (~11.3 Km in East direction) · SH- 6 (Lakhpat- Tithal) (~2.3 Km in West direction)
Interstate boundary		· Nil
Railway Station/Railway line	Naliya Railway Station	~54 Km in South direction

Water Bodies	<ul style="list-style-type: none"> · Koriyani Dam · Mudhvay Nala · Kali Nadi · Kapurasi Nadi · Kori Creek · Godhatad Dam · Arabian sea 	<ul style="list-style-type: none"> · ~1.2 km, SW direction · ~2.0 km, SW direction · ~4.1 km, NE direction · ~4.3 km, W direction · ~4.7 km, NW direction · ~5.0 km, SSW direction · ~28.0 km, SW direction
Forest	<ul style="list-style-type: none"> · Kaiyari R.F. · Naredi R.F. · Mudhvay R.F. · Godhatad R.F. · Pranpar R.F. · Mudia R.F. 	<ul style="list-style-type: none"> · ~3.7 km, SW direction · ~3.0 km, S direction · ~0.1 km, S direction · ~7.4 km, SW direction · ~9.4 km, E direction · ~9.7 km, S direction

x. Presence of Environmentally Sensitive areas in the study area

Forest Land/ Protected Area/ Environmental Sensitivity Zone	Yes/ No	Details of Certificate/ letter issued by the concerned Department mentioning the Letter No., Date of Grant and Remarks												
Forest Land within the mine lease area and (if yes) status of Forest Clearance	No	<p>There is no Forest Land falls within the lease area. Letter from the Deputy Conservator of Forest (DCF – Bhuj), State Forest Dept. has been obtained vide letter no. C/JMN/Te.11/03/23-24, dated 12.04.2024.</p> <p>However, following forest areas located within the 10 km study area:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>· Kaiyari R.F.</td> <td>· ~3.7 km, SW direction</td> </tr> <tr> <td>· Naredi R.F.</td> <td>· ~3.0 km, S direction</td> </tr> <tr> <td>· Mudhvay R.F.</td> <td>· ~0.1 km, S direction</td> </tr> <tr> <td>· Godhatad R.F.</td> <td>· ~7.4 km, SW direction</td> </tr> <tr> <td>· Pranpar R.F.</td> <td>· ~9.4 km, E direction</td> </tr> <tr> <td>· Mudia R.F.</td> <td>· ~9.7 km, S direction</td> </tr> </table>	· Kaiyari R.F.	· ~3.7 km, SW direction	· Naredi R.F.	· ~3.0 km, S direction	· Mudhvay R.F.	· ~0.1 km, S direction	· Godhatad R.F.	· ~7.4 km, SW direction	· Pranpar R.F.	· ~9.4 km, E direction	· Mudia R.F.	· ~9.7 km, S direction
· Kaiyari R.F.	· ~3.7 km, SW direction													
· Naredi R.F.	· ~3.0 km, S direction													
· Mudhvay R.F.	· ~0.1 km, S direction													
· Godhatad R.F.	· ~7.4 km, SW direction													
· Pranpar R.F.	· ~9.4 km, E direction													
· Mudia R.F.	· ~9.7 km, S direction													

National Park	No	-
Wildlife Sanctuary	Yes	Narayan Sarovar Wildlife Sanctuary located at distance of ~3.4 km and Eco-Sensitive Zone of Narayan Sarovar Wildlife Sanctuary located at distance of ~2.5 km from mine lease boundary.
Elephant/Tiger Reserve	No	None within Study Area.
Eco-Sensitive Zone(ESZ) /Eco-Sensitive Area (ESA)	Yes	Eco-Sensitive Zone of Narayan Sarovar Wildlife Sanctuary located at distance of ~2.5 km from mine lease boundary.
Coastal Regulation Zone (CRZ)	No	-
Schedule-I species (No.s and name of schedule-I species with authenticated letter)	Yes	Monitor Lizard (<i>Varanus bengalensis</i>), Indian Peafowl (<i>Pavo cristatus</i>), Eurasian Spoonbill (<i>Platalea leucorodia</i>) and Chinkara (<i>Gazella gazelle benettii</i>) found in the study area.
Wildlife Conservation Plan	Yes	Wildlife Conservation Plan was approved by Chief Wildlife Warden, Gujarat vide Letter no. : WLP/32/C/298-99/2021-22, dated 16.09.2021 and Supplementary Conservation Plan for Nocturnal Animals was also approved by Chief Wildlife Warden, Gujarat vide letter no. WLP/T.32/C/873-74/2021-22, dated 28.01.2022

xi. Greenbelt & Plantation details:

Proposed area for green belt/plantation and no. of saplings proposed	173.8 Ha & no. of samplings 260700
Budget for green plant & plantation until the end	Rs. 117.32 Lacs

End of life of mine.	
Budget for nursery	Nil
Details of existing plantation and its survival rate	Nil since mine is yet to become operational
No. of tree cuts in the mine lease area and compensatory afforestation	Nil
Particulars for Green belt/plantation	Area covered (in Ha)
7.5 m barrier & non-mineralized zone	4.8 ha
50 m safety zone of nallah, roads, electric lines	14.0 ha. (200 meter safety zone in southern part of mine lease will be developed as Greenbelt & Plantation)
500 m safety zones of nearest habitation villages	Nil

xii. Baseline detail: Proposal is for Amendment in EC for reduction of Mining Lease Area:

Baseline Data (Air / Water / Noise / Soil / Hydro geological study/ Traffic Study/ others)	
Period of baseline data collection	Dec 2019 - Feb 2020
Season (Summer / Pre-monsoon / Post-monsoon / Winter)	Winter
Predominant Wind direction (From)	NE
Ambient Air Quality	12 locations.

<p>Study (no. of locations) and results</p>	<p>PM10 : 34.5 µg/m³ to 57.7 µg/m³. PM2.5 : 14.9 µg/m³ to 29.5 µg/m³. SO₂ : 12.5 µg/m³ and 20.7 µg/m³. NO₂ : 16.5 µg/m³ and 30.2 µg/m³. CO : 146 µg/m³ and 344 µg/m³.</p>
<p>Noise level (no. of locations) and results</p>	<p>12 locations day time 41.9 dB (A) to 52.8 dB (A) night time 38.8 dB (A) to 48.5 dB (A).</p>
<p>Water Quality (no. of locations) and results</p>	<p>3 Ground Water samples, 3 Public supplied Drinking water and 6 Surface water. All of the parameters in Ground water & Drinking water fairly meet the desirable and/or permissible standard limits of IS: 10500:2012. Surface water : pH 7.08-7.81, Total hardness 293.4 – 6015.6 mg/l, TDS 711 - 51246 mg/l, Chloride 191.3 mg/l - 20978.6 mg/l and Sulphate 53.7 mg/l to 4625.4 mg/l.</p>
<p>Soil Quality (no. of locations) and results</p>	<p>8 locations. pH 7.3 to 8.3, electrical conductivity 110 µmhos/cm to 534 µmhos/ cm, nitrogen 40.7 to 127.6 kg/ha, phosphorus 46.4 to 290.8 kg/ha and potassium 42.1 – 162.8 kg/ha.</p>
<p>Hydro geological study and results</p>	<p>A detailed hydrological and hydrogeological study has been carried out by National Environmental Engineering Research Institute (NEERI), Nagpur. Based on Hydrogeological studies, it has been assessed that the mining activity within the Mudhvay Sub-Block 'B', will lead to intersection of groundwater at 13 m bgl which will be at 4th or 5th year of plan period. Majority of the sources are having shallow water table (<10 m-bgl).</p>
<p>Traffic study (no. of locations) and results</p>	<p>-</p>

xiii. Public Hearing (PH) Details: Proposal is for Amendment in EC for reduction of Mining Lease

Area:

Advertisement for PH with date (name of major national daily and one regional vernacular daily newspaper)	Kutch Mitra on 25.07.2021 Indian Express on 25.07.2021
Date of PH	01.09.2021
Venue	Moti Mudhvay, Common Plot, Besides Primary School, Village Moti Mudhvay, Post Koriyani, Taluka: Lakhpat, Dist. Kachchh
Chaired by	Additional District Magistrate Kachchh District
Main issues raised during PH	The Project Proponent has submitted the information in EIA-EMP report.
Budget proposed for addressing issues raised during PH over 3 years	Rs. 502.97 lakhs

xiv. Details of the Project Cost and Employment:

Activities	Capital Cost (Crores)	Recurring Cost (Lakhs/annum)
Environment Management Plan	Rs. 3.684 Crore	Rs. 0.346 Crore
Project Cost	Rs. 247.5 Crore	
Employment (Nos.)	43	

3.1.3. Deliberations by the committee in previous meetings

Date of EAC 1 :01/02/2024

Deliberations of EAC 1 :

The Project Proponent/EIA Consultant informed the EAC that the instant proposal is for amendment in EC dated 04.04.2022 w.r.t change in mine lease area from 233.5 ha to 228.2694 ha. The Environment Clearance (EC) obtained on 04.04.2022 based on the Letter of Intent (LoI) dated 21.06.2017, extension of validity of LoI dated 18.06.2020 and approved mining plan dated 21.03.2018 for an area of 233.5 ha. After the grant of EC dated 04.04.2022, the Govt. of Gujarat order dated 16.12.2022 granted the mine lease area for an area of 228.2694 ha by deleting an area of 5.2306 ha. The EAC asked the Project Proponent regarding the reason for deleting an area of 5.2306 ha. The Project Proponent/EIA Consultant informed the EAC that since the said area of 5.2306 ha is a forest land, the State Govt. while granting the mine lease deleted the area of 5.2306 ha. The EAC asked the Project Proponent to show the deleted area. The Project Proponent presented the Google Image of the mine lease area and informed the EAC that the area of 5.2306 ha was deleted from the southern part of the mine lease area. The Commissioner of Geology and Mining, Gandhinagar on 01.07.2022 requested for SCL measurement of block area through Office of District Inspector Land Record (DILR). Then, Geologist, Bhuj requested the DILR to provide revised DILR map after excluding forest area and then DILR map was issued for an area of 228.2694 ha. Mine lease deed was executed on 19.12.2022. Also, Mining plan was modified and approved by Indian Bureau of Mines (IBM) vide letter dated 08.09.2023 over an area of 228.2694 ha. The Project Proponent also informed the EAC at the time of grant of EC, the area was non-forest land.

The EAC asked the Project Proponent that how the non-forest land has now become a forest land. The Project Proponent informed the EAC that instant mine lease was granted under auction in pursuant to Rule 10 (2) of the Mineral Auction Rules and there was no mention of forest land while granting the Letter of Intent (LoI). The EAC observed that in Letter of Intent (LoI) dated 21.06.2017 and in extension of validity of LoI dated 18.06.2020 there was no mention of land use classification. The EAC also observed that in approved mining plan dated 21.03.2018 submitted at the time of grant of EC, the Project Proponent at Page. No: 5 (Chapter 2) of mining plan mentioned that no forest area involved in mine lease area. In Form-2 (Application for EC-Proposal no: IA/GJ/MIN/73109/2018), at S.No: 20 under land ownership pattern, the Project Proponent mentioned that no forest land involved in the mine lease area of 233.50 ha and in S.No: 23.2 under details of environmental sensitivity, the Project Proponent mentioned that Mudhvay Reserve Forest located at a distance of 0.1 km on Southern direction. Further in EIA report at Page no: ES-7, ToR compliance at point no: 15, 16, 17 and in table 2.1 under land use break up (Pg.No: C2-2), the Project Proponent mentioned that no forest land involved in the mine lease area. Further, the EAC observed that in table 1.1 under environmental settings at s.no: 13, the Project Proponent mentioned that Mudhvay R.F located at a distance of 0.1 km on Southern direction.

The EAC observed that the forest area is very close to mine lease area (0.1 km, S) at the time of grant of EC. The EAC was of the view that they are not able to evaluate the instant proposal with limited information and lack of clarity. The EAC noted that information and data available as per the EIA report and as per instant proposal w.r.t forest land is contradictory. The EAC also observed that in grant of mine lease order dated 16.12.2022, there is no specific mention of forest land and reason for deletion of area of 5.2306 ha. There is no further supporting document provided by the Project Proponent. The EAC noted that the Project Proponent has not submitted the letters regarding SCL measurement by DILR and their correspondence vide letters dated 01.07.2022, 10.08.2022, 12.08.2022, 12.10.2022, 18.11.2022 and approved DILR map for the revised area of 228.2694 ha and also the copy of mine lease deed executed on 19.12.2022 for the revised area of 228.2694 ha. Thus the EAC opined that the Project Proponent needs to submit the land use classification certificate from the concerned State Dept. clearly mentioning the type of land before the grant of EC dated 04.04.2022 and at present. The EAC asked the Project Proponent to submit the letter from the State Forest Dept. clearly mentioning the involvement of forest land in the mine lease area before the grant of EC dated 04.04.2022 and at present. The EAC also asked the Project Proponent to submit the tender document issued by the State Govt for the purpose of auction for this instant mine lease. Based on the discussions held, the EAC **deferred** the proposal for want of following additional information:-

- i. The Project Proponent needs to submit the land use classification certificate from the concerned State Dept. clearly mentioning the type of land before the grant of EC dated 04.04.2022 and at present.
- ii. The Project Proponent needs to submit the letter from the State Forest Dept. clearly mentioning the involvement of forest land in the mine lease area before the grant of EC dated 04.04.2022 and at present.
- iii. The Project Proponent needs to submit the letters regarding SCL measurement by DILR and their correspondence letters dated 01.07.2022, 10.08.2022, 12.08.2022, 12.10.2022, 18.11.2022 and approved DILR map for the revised area of 228.2694 ha.
- iv. The Project Proponent needs to submit the copy of mine lease deed executed on 19.12.2022 for the revised area of 228.2694 ha.
- v. The Project Proponent needs to submit the tender document issued by the State Govt. for the purpose of auction for this instant mine lease.

Date of EAC 2 :13/06/2024

Deliberations of EAC 2 :

The Project Proponent and the consultant present the point wise reply of the ADS raised vide minutes of the 26th EAC (Non-Coal Mining) meeting held during 31st January & 1st February, 2024. The EAC noted that PP has obtained a letter no. Jaman/ Vashi/ 811/484/2024 dated 15.05.2024 from Mamlatdar and Executive Magistrate Office, Lakhpat, at Dayapar-Kutch. It was mentioned in the letter that the total land area allocated for the said project was 233.5 ha as per letter of intent (LoI) issued by Industry and Mines Department, Gujarat Government No. MCR-102016-21-46-CHH on dated 26.06.2017 where 143 ha area was government land and 90.05 ha private land. It has been further mentioned in the letter that as per DLIR Bhuj measurement sheet No. 3/89/2021-22 dated 30.07.2022, 5.23.06 ha array area overlapped with forest department land. Therefore PP asked for the removal of this overlapped area of 5.23.06 ha forest area from the lease area, accordingly, DILR Bhuj removed overlapping land. Subsequently, PP was granted lease for 228.2694 ha wherein 137.7694 ha is government land and 90.05 ha is private land.

With regard to the above submission, EAC observed that due to overlapping of forest land in the south side of the lease, as per the request of the PP, State Govt has removed that entire stretch of the forest land from the ML area and has also reduced an equivalent area of 5.23.06 ha from the government land component of the ML area.

Further, PP presented the letter no. CGM/Lease/Auction/Major/Mudhvay-B/2022-23/1673, dated 17.05.2024. from Commissioner and Geology & Mining (CGM), Govt. of Gujarat, Gandhinagar wherein it was mentioned that even before issuance of EC not forest was present within the ML area and neither any forest land is present in the ML area after the issuance of EC. PP also submitted the letter no C/JMN/Te.11/03/23-24, dated 12.04.2024 from the forest department dated 12.04.2024 wherein following has been mentioned:-

“In the matter, it is clarified that there was no measurement of forest land located near to aforesaid mine area, thus there was no clarity on overlapping/inclusion of forest over the mining lease area, prior to EC dated 04.04.2022

Whereas as per the documented details of auction in 2017, there was no forest land involved in the project.....”

In view of the aforesaid submission of PP, EAC was of the opinion that the instant proposal was appraised and accorded EC as per the then available facts. The DILR survey has resulted in change of the scenario, EAC was of the opinion that before proceeding further, it becomes immense important to know whether PP has undertaken any mining activity upon grant of EC within the forest land or not. Accordingly, EAC **deferred** the proposal for want of following information:

i. Project Proponent needs to submit a letter from the Department of Geology and Mining, Government of Rajasthan clarifying whether any mining within the Forest Land of 5.23.06 ha has been carried out or not and whether the same has been carried out by M/s. Shree Cement Limited or not? ii. PP needs to submit the boundary coordinates of the revised ML area certified by DMG. iii. PP needs to submit the DMG certified coordinates of the deleted forest area of 5.23.06 ha. iv. Project proponent needs to submit the undertaking that no mining has been done on 5.23.06 ha land.

3.1.4. Deliberations by the EAC in current meetings

The Project Proponent/Consultant has presented the request for amendment in EC dated 04/04/2022 regarding the change in mine lease area from 233.5 ha to 228.2694 ha. Additionally, the Project Proponent/Consultant explained important site features through a KML file, including the Koriyani Dam located 1.2 km away, Mudhvay Nala at 2.0 km, Kori Creek at 4.7 km, and a forest area near the ML boundary.

The Committee reviewed pointwise responses to observations made by the Previous Expert Appraisal Committee (EAC) held on 12/06/2024 to 14/06/2024. The Project Proponent submitted the land use classification certificate from the concerned state department, confirming forestland involvement within the ML area, along with revised mine lease deed documents.

The Committee also noted information received from the Project Proponent via letter dated 10/09/2024. PP vide aforesaid letter stated that distance from the mine lease boundary to the seaboard frontier is more than 29 km in SW direction. PP mentioned that as per the approved wildlife conservation plan and supplementary conservation plan approved by PCCF, Wildlife (CWLW), Govt. of Gujarat, there is no presence of Caracal in the core zone and buffer zone of 10km. With regard to the groundwater intersection PP added that ground water intersection will start from the 4th year onwards of the Mining Plan Period (i.e. 2025-26) when the mine pit working will reach 57-meter depth. PP further mentioned that as per the “Hydrological and Hydro geological studies within 10 km radius of the proposed integrated cement plant and captive Mudhvay Sub Block ‘B’ Limestone mine “prepared by CSIR NEERI in May 2021, the estimated seepage quantity of water will be in tune of 730.67 cum/day. The Committee therefore requested the Project Proponent to submit the said report.

In view of the above, the Committee **deferred** the Proposal and asked to submit the following requisite information:

1. The Project Proponent must submit a distance certificate issued by the State Govt/ district administration, in
2. The Project Proponent needs to inform the Ministry of Defence about the proximity of the existing Kori Cr
3. The Project Proponent needs to submit the report prepared by CSIR-NEERI entitled “Hydrological and Hy
4. PP should submit a plan specifying how it will deal with ground water when mine pit intersect ground water

3.1.5. Recommendation of EAC

Deferred for ADS

3.2. Agenda Item No 2:

3.2.1. Details of the proposal

Proposed Dhaukan-Dhaurra-Urdaurra Iron Ore Block by M/s Pacific Iron Manufacturing Ltd. located at Niwari, MADHYA PRADESH			
Proposal For		Fresh ToR	
Proposal No	File No	Submission Date	Activity (Schedule Item)
IA/MP/MIN/469536/2024	J-11015/29/2024-IA.II(NCM)	17/04/2024	Mining of minerals (1(a))

3.2.2. Project Salient Features

The instant proposal is for Terms of Reference for Dhaukan-Dhaurra-Urdaurra Iron Ore Block by M/s Pacific Iron Manufacturing Ltd with total production capacity of proposed capacity 4.690 MTPA of ROM (Iron Ore: 2.057 MTPA & waste: 2.633 MTPA) along with installation of jaw crusher (500 TPH) ,cone crusher(250 TPH) & impact crusher (250 TPH) in the Mine Lease area of 153.031ha proposed at Village(s) Dhaukan, Dhaurra and Urdaurra, Taluka Prithvipur, District Niwari, State Madhya Pradesh.

2. The details of the project as per the document submitted by the Project Proponent are mentioned below:

- i. The mine lease area is located between Latitude 25°13'12.00"N to 25°13'42.58"N and Longitude 78°36'46.39"E to 78°38'28.49"E.
- ii. The mine lease area falls under the Survey of India Toposheet No. 54 K/12 and falls in Seismic Zone II.
- iii. The proposed project activity is listed at Schedule no. 1(a) Mining of Minerals, Category "B" as the mining lease area is less than 250 ha but due to applicability of General Condition because of the presence of Orchha Wildlife Sanctuary at a distance of 2.26 Km and its Eco Sensitive Zone (ESZ) at a distance of 0.11 km from the mine area. Uttar Pradesh-Madhya Pradesh Interstate Boundary is also at a distance of 4.26 Km, WSW direction from the mine site.

iv. Details of Mine Lease in chronological manner:

Prospecting License/ Letter of Intent (LoI)/ Grant of Mine lease and Lr No	Date of the grant	Name of the Mineral & (Major/ Minor)	Period of Grant	Granted by	Mine lease area in Ha

LOI	27.07.2022	Iron Ore (Major Mineral)	50 Years	Secretary, Govt. of Madhya Pradesh, Mineral Resource Department	153.031
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v. Land Use/ Land Cover of the Mine Lease Area:

Private land	:	73.282
Government land	:	79.749
Forest land	:	00
Total Mining lease area (MLA), ha	:	153.031 ha
Private land for crusher, workshop & other infrastructure outside the MLA	:	NA

vi. Mining plan details:

Mining Plan including Progressive Mine Closure Plan (approved by Indian Bureau of Mines/DMG)	:	Letter No.	No. E 10377 MCDR-MPC0FE/4/2024-JBP-IBM_RO_JBP
		Date	20.06.2024
		Mineral & (Major/ Minor)	Major
		Mine Lease Area, Ha	153.031 Ha.

		Validity of Mine plan	5 Years												
Mining Parameters	:	Quantitative Description													
Method of Mining	:	Opencast Mechanized Method													
Drilling/Blasting	:	Drilling: Self-Propelled Hydraulic Drill with Top Hammer Blasting: Controlled blasting will be done under the supervision of competent Mining Engineer following safety precautions as laid down in the Metalliferous Mines Regulation 1961													
Geological Reserves	:	42.70 MTPA (4,27,06,039.86 MT)													
Mineable Reserves	:	28.55 MTPA (2,85,50,437.93 MT)													
Breakup of Total Excavation (Topsoil/ OB/ SB/ IB/ Mineral Rejects/ Waste, MTPA)	:	<table border="1"> <thead> <tr> <th>S. No.</th> <th>Particulars</th> <th>MT PA</th> <th>TP A</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>RO M</td> <td>4.690</td> <td>46,90,419.50</td> </tr> <tr> <td>2</td> <td>Iron Ore</td> <td>2.057</td> <td>20,57,516.70</td> </tr> </tbody> </table>		S. No.	Particulars	MT PA	TP A	1	RO M	4.690	46,90,419.50	2	Iron Ore	2.057	20,57,516.70
S. No.	Particulars	MT PA	TP A												
1	RO M	4.690	46,90,419.50												
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3	Wa ste	2.6 33	26, 32, 90 2.8 0			
Life of mine	:	6 years				
Mine Bench Height & Bench Width	:	Bench height will be kept 6m and width of the bench 6m.				
No. of Mine Benches	:	New pit – 1=14 no's of benches, New pit - 2 =8 no's benches as per First five year working proposal and end of conceptual period about dhaukan block =22-25 no's benches and DhauraUrdaura blocks =18-23 no's benches will be developed.				
Existing Depth, m bgl	:	Fresh Lease Area				
Ultimate Depth of Mining, m bgl	:	150 Mrl				
Ground Water Table, m bgl	:	215 mRL				
Details of ground water intersection	:	At the end of mining Plan (fifth year), mine working will confined upto 222 mRL which is 36 m below the lowest elevation i.e. 258 mRL				
Individual bench slope	:	88°				

Overall pit slope	:	45°									
Details of existing/ proposed Crusher	:	Proposed Jaw Crusher (500 TPH), Cone Crusher (250 TPH) & Impact Crusher (250 TPH) along with Deck Screen (500 TPH)									
Mineral Beneficiation	:	NA									
RoM output size	:	Lumps & Fines									
Transportation details including capacity of dumper/ tipper, mode of transport and distance	:	<p>The material after blasting will be loaded by hydraulic excavators of about 3m³ bucket capacity into dumpers of 24 tonnes carrying capacity for its transportation to crusher and waste dump yards. The final material will be transported through existing road networks:</p> <table border="1"> <thead> <tr> <th>Particulars</th> <th>Distance (Km)</th> <th>Width (m)</th> </tr> </thead> <tbody> <tr> <td>From Mine site to NH-539</td> <td>6.2</td> <td>~ 10.0</td> </tr> <tr> <td>On NH-539 (Village Neguwan Khast)</td> <td>17.5</td> <td>Existing- 9.0 Proposed- 12.0</td> </tr> </tbody> </table>	Particulars	Distance (Km)	Width (m)	From Mine site to NH-539	6.2	~ 10.0	On NH-539 (Village Neguwan Khast)	17.5	Existing- 9.0 Proposed- 12.0
Particulars	Distance (Km)	Width (m)									
From Mine site to NH-539	6.2	~ 10.0									
On NH-539 (Village Neguwan Khast)	17.5	Existing- 9.0 Proposed- 12.0									

			Orch a Rai lway Stati on)						
			Total Dista nce	23.7		--			
Generation of Topsoil/ OB & its Management during plan period & conceptual period	:	No generation of top soil/OB during the plan period.							
Generation of Mineral Rejects/ Waste & its Management during plan period & conceptual period	:	During the initial five-year plan period approximately 38,59,429 m³ i.e (94,10,794.80 Tonnes) of waste will be generated and same will be stacked separately in the temporary dump. The entire waste will be used for the backfilling. Details of proposed waste dump along with their capacity in next five years are given below:							
S. N o.	Year	Dump ID	Area (Ha.)	Height (m)	Location		Quantity (m ³)	Location	
					Latitude (N)	Longitude (E)			
1.	First Year	MW - 1	5.0	4.50	25°13' 16.74"	78°38' 11.27"	2,17,700	SE	
2.	Second Year	SD - 1	0.8	11.70	25°13' 21.69"	78°38' 18.64"	93,730	SE	
3.	Second Year	MW - 1	5.0	17.60	25°13' 16.74"	78°38' 11.27"	8,82,400	SE	

4.	Third Year	MW – 1	5.0	16.40	25°13' 16.74"	78°38' 11.27"	8,22,150	SE
5.	Fourth Year	SD – 2	1.0	12.23	25°13' 13.73"	78°37' 44.55"	1,22,352	South Central Part
6.	Fourth Year	MW – 2	4.5	21.90	25°13' 16.66"	78°37' 47.66"	9,84,644	South Central Part
7.	Fifth Year	MW - 2	4.5	16.36	25°13' 16.66"	78°37' 47.66"	7,36,418	South Central Part
Total							38,59,429	

During the conceptual phase, approx. 2,31,47,062 tonnes of waste will be generated which will be dumped in an area of 33.39 Ha. The generated waste will be used for backfilling.

vii. Water Requirement

Total water requirement	:	780 KLD
Source	:	Ground water
Permission for withdrawal/ intersection along with details of grant and its validity	:	NOC from CGWA will be taken and submitted during the final EIA/ EMP report.

viii. Nearest village/ town/ highway/ interstate boundary/ railway station/ water bodies/monument/ forest

Particulars	Particular's Name	Distance & Direction
-------------	-------------------	----------------------

Village	Urdaura:- 100 m, S Dhaura:- 700 m, S	0.07 km , SW
Town	Prithvipur	9.63 km, E
Highway	NH-539 NH-44	4.0 km, NE 11.6 km, WNW
Interstate Boundary	Uttar Pradesh-Madhya Pradesh Interstate Boundary	4.26 km, WSW
Railway Station/Railway line	Orchha Railway Station	19.31 km, North
Water Bodies	2 No of Nallahs (Seasonal) BardaNala	Passing with in the lease area 2.0 km, N
Forest	TapariyanHararan P.F.	0.38 km , N

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

Forest Land/ Protected Area/ Environmental Sensitivity Zone	Yes/No	Details of Certificate/ letter is sued by the concerned Department mentioning the Lr no, date of grant and remarks
Forest Land within the mine lease area and (if yes) status of Forest CI	No forest land is involved within the Mining Lease area.	Certificate will be submitted at the time of final EC.

earance		
National Park	None within 15 Km radius	--
Wildlife Sanctuary	Orchha Wildlife Sanctuary - 2.26 Km, NNW	DCF certificate will be submitted at the time of final EC
Elephant/Tiger Reserve	None within 15 Km radius	--
Eco-Sensitive Zone (ESZ)/ Eco-Sensitive Area (ESA)	Eco Sensitive Zone (ESZ) of Orchha Wildlife Sanctuary - 0.11 km, WNW	DCF certificate will be submitted at the time of final EC
Coastal Regulation Zone (CRZ)	None within 15 Km radius	--
Schedule-I species (Nos and name of schedule-I species with authenticated letter)	The proposal is for obtaining Terms of Reference. The details will be submitted in the final EIA/ EMP Report and also presented during the final EC presentation.	--
Wildlife Conservation Plan	The proposal is for obtaining Terms of Reference. The details will be submitted in the final EIA/ EMP Report and also presented during the final EC presentation.	

x. Green belt/plantation details:

Proposed area for green belt/ plantation and no. of saplings proposed	:	Proposed area for green belt: 50.5 Ha. No. of saplings proposed: 1,26,225 saplings
Budget for green plant & plantation till the end of life of mine.	:	
Budget for nursery	:	The proposal is for obtaining Terms of Reference. The details will be submitted in the final EIA/ EMP Report and also presented during the final EC presentation.
Details of existing plantation and its survival rate	:	
No. of tree cuts in the mine lease area and compensatory afforestation	:	
Particulars for Green belt/ plantation	:	Area covered (in Ha)
7.5m barrier & non-mineralized zone	:	50.5
50 m safety zone of nallah, roads, electric lines	:	Safety Zone of Seasonal Nallah - 12.22 Ha.
500m safety zones of nearest habitation villages	:	--

xi. Baseline Detail- Baseline Data (Air / Water / Noise / Soil / Hydro geological study/ Traffic

Study/ others):

Period of baseline data collection	:	March to May' 2024
Season (Summer/ Pre-monsoon/ Post-monsoon / Winter)	:	Pre-monsoon
Predominant Wind direction (From)	:	NE to SW
Ambient Air Quality (no. of locations) and results	:	10 Nos.
Noise level (no. of locations) and results	:	10 Nos.
Water Quality (no. of locations) and results	:	Ground Water - 07 Nos. Surface Water- 06 Nos
Soil Quality (no. of locations) and results	:	07 Nos.

xii. Rehabilitation & Resettlement (R&R):

R & R details		<p>· According to the preliminary socio-economic survey, the mine lease area accommodates around 51 families, comprising a total population of 186 people.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Particulates</th> <th style="width: 30%;">Number</th> </tr> </thead> <tbody> <tr> <td style="height: 20px;"></td> <td></td> </tr> </tbody> </table>	Particulates	Number		
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Proposed Number of Project Affected Person (PAP)	186
Proposed Number of Person for Alternate Arrangement for Sustainable Livelihood	10
Proposed Number of Person for Skill Training	103
Proposed Number of Person Likely to Get Direct Employment	83
Proposed Number of Person Likely to get indirect Employment	20
Proposed Project Affected Families Skilled and Absorbed	47
Proposed Number of Project Affected Families (PAF)	51

· A detailed study, including the Resettlement and Rehabilitation (R&R) Plan adhering to regulatory standards, will be submitted along with the final EIA/EMP report.

xiii. Earlier, The proposal was considered in the 29thEAC (NCM) held during 9-10th May, 2024 wherein the Committee deferred the proposal and asked submit the requisite information. The Project Proponent has submitted their proposal vide letter dated 18.06.2024, based on the submission of information the committee considered the proposal in 31stEAC Meeting held during 4 to 5thJuly, 2024. The Committee deferred the proposal due to the submission of project proponent for not able to attend the EAC meeting. Thereafter, the proposal considered in this EAC based on the submission of Project proponent are as follows:

S. No.	Observation of EAC	Reply by Project Proponent

1.	PP shall submit a certificate from the State Government stating that the lease area is not a part of Ken – Betwa project.	<p>A certificate stating that the mining lease area is not a part of the Ken-Betwa project has been obtained from the Office of the Executive Engineer, Water Resources Division, Niwari vide letter no. Memo No. 530/W/2024-25 dated 16.07.2024.</p> <p>Certificate Regarding Project Is Not Part of Ken Betwa Project is enclosed as Annexure I.</p>												
2.	PP shall explore the possibility of implementation of Conveyor belt up to the nearest railway siding and submit the detailed plan with date of completion of project.	<p>The transportation route to Orchha Railway Station, approximately 23.70 km away, is not a straight path and includes many turns, undulations, and culverts. As a result, implementing conveyor belts is not feasible. Therefore, we propose to transport the mineral from the mine site to the Orchha Railway siding using the existing road networks. The mineral will be transported in trucks or dumpers that are fully covered with Tarpaulin sheets.</p> <table border="1"> <thead> <tr> <th>Particulates</th> <th>Distance (Km)</th> <th>Width (m)</th> </tr> </thead> <tbody> <tr> <td colspan="3" style="text-align: center;">A. Transportation Route Distance</td> </tr> <tr> <td>From Mine site to NH-539</td> <td>6.2</td> <td>~ 10.0</td> </tr> <tr> <td>On NH-539 (Village Neguwankhas to Orchha Railway Station)</td> <td>17.5</td> <td>~9.0</td> </tr> </tbody> </table> <p>Transportation Route Map is enclosed as Annexure II.</p>	Particulates	Distance (Km)	Width (m)	A. Transportation Route Distance			From Mine site to NH-539	6.2	~ 10.0	On NH-539 (Village Neguwankhas to Orchha Railway Station)	17.5	~9.0
Particulates	Distance (Km)	Width (m)												
A. Transportation Route Distance														
From Mine site to NH-539	6.2	~ 10.0												
On NH-539 (Village Neguwankhas to Orchha Railway Station)	17.5	~9.0												
3.	PP shall submit the detailed socio-economic study of the inhabitants present within the lease area.	<p>According to the preliminary socio-economic survey, the mine lease area accommodates around 51 families, comprising a total population of 186 people.</p> <table border="1"> <thead> <tr> <th>Particulates</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Proposed Number of Project Affected Person (PAP)</td> <td>186</td> </tr> </tbody> </table>	Particulates	Number	Proposed Number of Project Affected Person (PAP)	186								
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A detailed study, including the Resettlement and Rehabilitation (R&R) Plan adhering to regulatory standards, will be submitted along with the final EIA/EMP report.

4.

PP shall submit detail waste management plan.

In the initial five-year plan period approximately 38,59,394 m³i.e (94,10,794.80 Tonnes) of waste will be generated. Details is as given below:-

Map showing location of waste dump within the mining lease is enclosed as Annexure III.

Mineral Waste

S. No.	Year	Dump ID	Type of Dump	Proposed area (Ha.)	Height (m)	Location		Total Dump	Location
						Latitude (N)	Longitude (E)		
								Quantity (M ³)	

1.	Year 1	MW-1*	Was	5.0	4.50	25°13'16.74"	78°38'11.27"	2,17,700	SE
2.	Year 2	SD-1**	Was	0.8	11.70	25°13'21.69"	78°38'18.64"	93,730	SE
3.	Year 2	MW-	Was	5.0	17.60	25°13'16.74"	78°38'11.27"	8,82,400	SE
4.	Year 3	MW-	Was	5.0	16.40	25°13'16.74"	78°38'11.27"	8,22,150	SE
5.	Year 4	SD-2	Was	1.0	12.23	25°13'13.73"	78°37'44.55"	1,22,352	South Central Part
6.	Year 4	MW-	Was	4.5	21.90	25°13'16.66"	78°37'47.66"	9,84,644	South Central Part
7.	Year 5	MW-	Was	4.5	16.36	25°13'16.66"	78°37'47.66"	7,36,418	South Central Part
Total								38,59,429	
During the conceptual phase, approx. 2,31,47,062tonnes of waste will be generated which will be dumped in an area of 33.39 Ha. The generated waste will be used for backfilling.									

5.	PP shall install permanent water sprinklers instead of water tanker.	Instead of permanent water sprinkler system, we have proposed to install 5 nos. of fog canon/mist sprayer (portable) with a 30 m throw within the mining lease area for effective dust suppression. Additionally, water tankers will be used at various locations in the mine area for dust suppression and plantation.
6.	PP shall submit break up of project cost.	The project cost is ₹ 170.0 Crores. The bifurcation of the project cost is as below: -

S. N	Particulars	Amount (In Crores)
1.	Land cost including R & R cost, stamp duty, registration charges etc.	32.5
2.	Construction & Equipment/ Machineries like HEMM	25.00
3.	Machineries including crusher along with EMP cost	50.00
4.	Admin Building & Others	0.5
5.	Capital expenditure such as pre – production exploration, axillaries, Statutory clearances and Mine Execution	57.00
6.	Mine Closure Cost	5.0
	Total Amount (₹)	170.00

xiv. Details of project cost and employment:

Particulars	(₹ In Crore)
Project Cost	₹ 170 Crore
Employment (No's)	103

3.2.3. Deliberations by the committee in previous meetings

Date of EAC 1 :09/05/2024

Deliberations of EAC 1 :

The instant proposal is for Terms of Reference considered at central level owing to the applicability of general condition i.e. the presence of Orchha Wildlife Sanctuary at 2.26 Km and ESZ at 0.11 km along with Interstate Boundary of UttarPradesh & Madhya Pradesh which is located at a distance of 4.26 km from the project boundary.

The PP presented the KML file and explained the existing environmental sensitive's to the EAC. The EAC noted that presence of Ken-Betwa river at distance of 4.7 Km from the project boundary and enquired whether the lease area is part of Ken-Betwa Project. The PP informed that they are not aware, the EAC asked the PP to obtain a certificate from the State Govt. stating that proposed mine lease is not a part of Ken-Betwa project. The EAC also enquired about the transportation route, PP informed that they will use the existing national highway (NH-539) to transport the ore to their existing plant. The EAC asked the PP to submit the detailed transportation route. The EAC also asked the PP to explore the possibility of setting up a Conveyor belt system upto the Railway siding. Further PP informed that approximately 25 houses exist within the ML area. Accordingly, the EAC asked the PP to conduct a detail socio-economic study of the inhabitants within the lease area. The project proponent/Consultant has not presented their presentation satisfactorily and therefore cautioned the consultant/PP to improve their presentation skill in the next EAC meeting.

Based on the above observation, the EAC **deferred** the proposal and asked to submit the requisite information:

- i. PP shall submit a certificate from the State Government stating that the lease area is not a part of Ken –Betwa Project.
- ii. PP shall explore the possibility of implementation of Conveyor belt upto the nearest Railway siding and submit the detail plan with date of completion of project.
- iii. PP shall submit the detailed socio-economic study of the inhabitants present within the lease area.
- iv. PP shall submit detail waste management plan.
- v. PP shall install permanent water sprinklers instead of water tanker.
- vi. PP shall submit break up of project cost.

Date of EAC 2 :05/07/2024

Deliberations of EAC 2 :

The PP vide e-mail dated 01 July, 2024 informed the Ministry that due to unavoidable reasons, PP will be unable to attend the meeting for the presentation of for Terms of Reference in the 30th EAC meeting. EAC noted the submission of PP made via aforesaid email and accordingly, **deferred** the proposal.

3.2.4. Deliberations by the EAC in current meetings

The Project Proponent/Consultant presented the reply to the ADS sought vide minutes of the 29th EAC meeting held during 9-10 May 2024. The project proponent stated that the instant mining lease area is not a part of Ken-Betwa Project. PP also submitted a letter dated 16.07.2024 from the Office of the Executive Engineer Water Resources Division, Niwari wherein it has been mentioned that as per the proposed location, no mining area falls within the command area of the Ken-Betwa Link Project in the current scenario.

The EAC noted the submission of the PP and further asked about the possibility of installing the OLBC up to Orchha Railway Station. PP submitted that the transportation route of 23.70 km to the said railway siding is not a straight path and includes many turns, undulations and culverts as a result of which implementing the OLBC is not feasible. The EAC asked PP whether they have conducted any study to

arrive at this conclusion. PP stated that they have not conducted any study. The EAC told the consultant to not submit any details without undertaking any systematic and scientific study. The Committee thereafter enquired about the socio-economic study of the inhabitants present within the lease area. The PP and the consultant failed to answer the query of the EAC. In addition to above, EAC also enquired about the proposed dumps and the waste management plan. PP/Consultant again failed in answering the queries of the committee. The EAC opined that PP/Consultant should be prepared to answer the queries of the committee and should not come to the meeting unprepared.

Based on above discussion the EAC **deferred** the proposal for the want of following information: -.

- i. The PP needs to conduct a scientific study to explore the feasibility of installing OLBC from the mine lease area to the Orchha Railway station.
- ii. PP needs to submit the detailed conceptual plan indicating the proposed dump. Year wise dumping plan should also be submitted for plan period.
- iii. PP needs to submit a report regarding detailed socio-economic status of the inhabitants present within the lease area.
- iv. PP needs to explain the life of mine as 6 years when LOI is for 50 years' validity and mineable reserve is 28.55 MTPA
- v. PP should once again revise/relook bench width in terms of DGMS guidelines/Mines safety rules/regulations.
- vi. PP should clarify about Mine plan validity and correct it, if needed, in the form.
- vii. PP should explore to reduce dependency on groundwater. Construction of a water reservoir in the lease area can be explored.
- viii. The Project Proponent shall provide the details of Special Pollution Control/ Abatement devices that

have been installed/ proposed to be installed within the ML area and how does the technology compare with the best available technology in the field.

3.2.5. Recommendation of EAC

Deferred for ADS

3.3. Agenda Item No 3:

3.3.1. Details of the proposal

Mahulasukha Iron and Manganese Block over an area of 390.317 Ha in Village: Randa, Rantha and Bhutuda; Sub-Division : Bonai, Tahasil : Lahunipada, District: Sundargarh, Odisha by RUNGTA SONS PRIVATE LIMITED located at SUNDARGARH, ODISHA			
Proposal For		Fresh EC	
Proposal No	File No	Submission Date	Activity (Schedule Item)
IA/OR/MIN/488863/2024	J-11015/75/2020-IA-II(M)	29/07/2024	Mining of minerals (1(a))

3.3.2. Project Salient Features

The instant proposal is for Environmental Clearance for Mahulasukha Iron and Manganese Ore Block with total excavation of Iron ore 16,62,977 TPA (ROM 10,00,000 TPA) and total excavation of Manganese Ore 14,07,519 TPA (ROM 1,50,000 TPA) in the ML area of 390.317 ha by M/s Rungta Sons Private Limited (former lessee M/s Patnaik Minerals Private Ltd) located at villages Randa, Rantha and Bhutuda under Bonai Sub Division and Tehsil Lahunipada, District Sundargarh, Odisha.

2. The details of the project as per the documents submitted by the Project Proponent are given as under:
- The mine lease area is located between Latitude 21° 46' 52.12" to 21° 49' 04.55" N and Longitude 85° 07' 55.43" to 85° 09' 10.42" E.
 - The mine lease area falls under the Survey of India Toposheet No. 73/G1 and falls in Seismic Zone III.
 - The proposed project activity is listed at Schedule no. 1(a) Mining of Minerals, under Category "A" as the mining lease area is greater than 250 ha, and therefore project is being considered at central level.
 - Terms of Reference was accorded vide letter no. J-110105/75/2020-IA.II (M) dated 20.01.2021 for Mahulasukha Iron and Manganese Ore Block by M/s Patnaik Minerals Private Ltd.
 - Details of Mine Lease:

S.	Prospecting	Date of t	Name of th	Period of	Grant	Mine lease area in

No.	License/ Letter of Intent (LoI)/ Grant of Mine lease and Lr No	Date of grant	Type of Mineral & (Major/ Minor)	Term of Grant	Issued by	Area (Ha)
1		03.02.1945	Manganese	20 years	Steel & Mines Dept, Govt. of Odisha	
2		03.02.1985	Manganese	20 years		399.838
3	Letter No.III B) SM13/2012-3326/S&M, Bhubaneswar,	18.04.2015	Iron & manganese	20 years 3.02.2005 to 31.03.2020	Steel & Mines Dept, Govt. of Odisha	
4	5518/IV(B) SM-23/2020/SM dated	29.06.2020	Iron & Manganese	50 years		390.317 ha (as per DGPS)/399.838ha (as per ROR)
5	3013/S&M, 18.03.2020	29.06.2020	Iron & Manganese (Major)	50 years	Steel & Mines, Govt. of Odisha	390.317
6	12975/SN (Transfer of	28.12.2023	Iron and Manganese (28.06.2020	Steel & Mi	390.317

	Lease in favour of M/s Rungta Sons Pvt. Ltd.)		Major)		nes, Govt. of Odisha	
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vi. Land Use/Land Cover of the Mine Lease Area:

Private land	1.081
Government Non forest land	6.799
Forest land	382.437
Total Mining lease area (MLA), ha	390.317
Private land for crusher, workshop & other infrastructure outside the MLA	No

vii. Mining plan details:

Mining Plan including Progressive Mine Closure Plan (approved by Indian Bureau of Mines/DMG)	Letter No.	MCDR-MiFL0CR/05/2022-BBS-IBM_RO_BBS
	Date	22.05.2024
	Mineral & (Major/Minor)	Major
	Mine Lease Area, Ha	390.317 ha
	Validity	31.03.2025
Mining Parameters	Quantitative Description	
Method of Mining	As per the approved Mine plan dated 22.05.2024, method of mine mentioned as Mechanized.	
Drilling/Blasting	Drilling: Drilling to be done using 115 mm diameter drills with 10% sub grade drilling.	

	Blasting: Blasting will be done by adopting conventional explosives such as PGC, toe blast.												
Geological Reserves	Manganese Ore: 0.73 MT, Iron Ore: 32.81 MT												
Mineable Reserves	Manganese Ore: 0.67 MT Iron Ore: 26.78 MT												
Breakup of Total Excavation (Topsoil/OB/SB/IB/Mineral Rejects/ Waste, MTPA)	<table border="1"> <thead> <tr> <th>Particulars</th> <th>Manganese Ore</th> <th>Iron Ore</th> </tr> </thead> <tbody> <tr> <td>Total excavation</td> <td>1407519 TPA</td> <td>1662977 TPA</td> </tr> <tr> <td>RO M O re</td> <td>150000 TPA</td> <td>1000000 TPA</td> </tr> <tr> <td>Waste/O B</td> <td>1257519 TPA</td> <td>662977 TPA</td> </tr> </tbody> </table>	Particulars	Manganese Ore	Iron Ore	Total excavation	1407519 TPA	1662977 TPA	RO M O re	150000 TPA	1000000 TPA	Waste/O B	1257519 TPA	662977 TPA
Particulars	Manganese Ore	Iron Ore											
Total excavation	1407519 TPA	1662977 TPA											
RO M O re	150000 TPA	1000000 TPA											
Waste/O B	1257519 TPA	662977 TPA											
Life of mine	Manganese Ore :7 Years, Iron Ore:-: 29 Years												
Mine Bench Height& Bench Width	6m Height &9m Width (For Manganese Ore)&9m height &12m width (For Iron Ore)												
No. of Mine Benches	11nos (Iron ore) 12nos (Manganese Ore)												
Existing Depth, m bgl	Manganese ore – 536mRL&Iron Ore – 701mRL												

Ultimate Depth of Mining, m bgl	Manganese Ore : 468 m AMSL & Iron Ore: 510 m AMSL
Ground Water Table, m bgl	Pre-Monsoon: 465 m AMSL & Post monsoon: 460 m AMSL
Details of ground water intersection	Mining will not intersect the ground water table
Individual bench slope	70°
Overall pit slope	40°
Details of existing/ proposed Crusher	Mobile Screen Plant (1Nos.)-150TPH, Mobile Screen plant (2Nos.) 250 TPH, Mobile Screen plant in combination with crusher (2Nos.)250TPH
Mineral Beneficiation	No beneficiation proposed within the lease area
RoM output size	0-10, 10-75 mm(Mn. Ore) & 0-10, 10-30, 5-18mm (Iron ore)
Transportation details including capacity of dumper/tipper, mode of transport and distance	<p>Iron Ore: 3333 Tonnes per / day</p> <p>Effective Working Hour for transportation per day -16 hours</p> <p>No. of Trips (Filled and unfilled) per day- 190 trips</p> <p>Frequency of tippers deployed /hour – 11 nos</p> <p>Manganese Ore: 500 Tonnes per / day</p> <p>Effective Working Hour for transportation per day -16 hours</p> <p>No. of Trips (Filled and unfilled) per day- 50 trips</p> <p>Frequency of tippers deployed /hour – 3 nos</p>

Generation of Topsoil/OB & its Management during plan period & conceptual period

No top soil generated from the mines, Waste generation: Iron Ore:- 331482 cum /annum (max.), Manganese Ore :- 628752

Generation of Mineral Rejects/ Waste & its Management during plan period & conceptual period

At present out of the total lease area, only 28.791 Ha have been excavated for manganese ore production, OB dump is spread over an area of 17.938 Ha.

During the plan period the area of excavation will increase to 33.954 Ha, OB dump will increase to 22.870 Ha. It is anticipated that at 29018270 m³ wastes will be generated at conceptual stage. The entire waste will be disposed of at earmarked site. From 2020-21 to 2023-24 total 186528 m³ waste material is generated and disposed off at earmarked site. During this plan period 03nos. of dump D-1, D-3 & D-4 will be proposed for Manganese ore section and 01 dump D-2 will be developed in iron ore section. The details of waste generation during plan period are as follows:

Sl. No.	Year	Dump ID	Type of dump	Proposed Area (ha)	Height (m)	Total Dump Quantity (m ³)	Total Dump Quantity (MT)
1	2024-25	D-1	Waste	1.99	36.0	469162.50	938325
2	2024-25	D-2	Waste	1.39	24.0	331488.50	662977
3	2024-25	D-3	Waste	0.96	18.0	57875.50	115751
4	2024-25	D-4	Waste	0.61	20.0	101721.50	203443

viii. Water requirement:

Total water requirement		Surface Water	117 KLD
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		Ground water	84 KLD
Source	KuradihNalla& bore well		
Permission for withdrawal/ intersection along with details of grant and its validity	The application for surface water has been made to DoW R, Govt. of Odisha vide application No. 20240610410006 67 on 10.06.2024. Renewal of NOC for the ground water has also being applied.		

ix. Nearest village/town/ highway/interstate boundary/railway station/water bodies/monument/ forest

Particulars	Particular's Name	Distance &Directions
Village	Bhutuda	0.5 km
Town	Barsuan	10 km
Highway	NH 215	15 Km
Interstate Boundary	Nil	Within 10 Km
Railway Station/Railway line	Barsuan	12 km
Water Bodies	RajabasaNala	Within the lease area
Forest	Sarkunda RF	1 Km

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

Forest Land/Protected Area/Environmental Sensitivity Zone	Yes/No	Details of Certificate/letter issued by the concerned Department mentioning the Lr no, date of grant and remarks
Forest Land within the mine lease area	382.480 ha	The total mine lease area is 390.317

se area and (if yes) status of Forest Clearance		ha out of which 382.437 ha is forest land, private land is 1.081 ha and Govt. non forest land is 6.799 ha.
National Park	Nil	
Wildlife Sanctuary	Nil	Stage-II Forest clearance granted for diversion of 227.0 ha of forest land in favour of M/s Aryan Mining and Trading Corporation Ltd was transferred to M/s Patnaik Minerals Pvt. Ltd as per the provision of Mines and Minerals (Development and Regulation) Amendment Act, 2021 aligned with Forest Conservation Act, 1980.
Elephant/Tiger Reserve	Nil	
Eco-Sensitive Zone(ESZ) /Eco-Sensitive Area(ESA)	Nil	
Coastal Regulation Zone (CRZ)	Nil	
Schedule-I species (No.s and name of schedule-I species with authenticated letter)	4nos	Indian Elephant, Python , Sloth bear & Peacock
Wildlife Conservation Plan	Yes	Site Specific Wild life conservation plan is under preparation at division office , Bonai for approval from PC CF(Wildlife)
xi. Green belt/plantation details:		
Proposed area for green belt/plantation	103.726 Ha	
Budget for green plant & plantation	Rs. 58,00,000	

ill the end of life of mine.	
Budget for nursery	Saplings will be procured from forest department nursery
Additional information (if any)	Till date an area of 32.57 hectares has been covered under plantation including the safety zone along ML boundary. During plan period, 1.20 hectares area will be proposed for plantation. During the conceptual period 103.726 Ha is proposed for green belt safety zone will be covered under plantation. Further, 148.15 Ha of the reclaimed quarry area will be planted and 120.79 Ha area will be covered under bench plantation.
Particulars for Green belt/plantation	Area covered (in Ha)
7.5 m barrier & non-mineralized zone	9.73 Ha
Along nalla, Road and other vacant area	93.996 ha
xii. Baseline detail:	
Baseline Data (Air / Water / Noise / Soil / Hydro geological study/ Traffic Study/ others)	
Period of baseline data collection	December – 2020 to February - 2021
Season (Summer / Pre-monsoon / Post-monsoon / Winter)	Winter
Predominant Wind direction (From)	NE
Ambient Air Quality (no. of locations) and results	9 Locations PM2.5 – 16.7 to 32.5 g/cu.m

	<p>PM10 – 33.6 to 69.3 g/cu.m</p> <p>SO2 – 4.3 to 11.5 g/cu.m</p> <p>NO2 – 11.7 to 19.5 g/cu.m</p>
Noise level (no. of locations) and results	<p>9 Locations</p> <p>Day (dBALeq) 30.8 to 55.2</p> <p>Night (dBALeq) - 24.6 to 43.6</p>
Water Quality (no. of locations) and results	<p>8 locations</p> <p>pH – 7.0 - 7.45</p> <p>Dissolved Oxygen – 6.4 – 7.5 mg/l</p> <p>Biochemical Oxygen Demand – <2 mg/l</p> <p>Chemical Oxygen demand – <5 mg/l</p>
Soil Quality (no. of locations) and results	<p>8 locations</p> <p>pH – 6.1 to 6.6, Potassium – 202 to 430 Kg/ Ha, Phosphorous – 12.5 to 82 Kg/ Ha, Nitrogen – 151 – 339 Kg/Ha, Electrical Conductivity- 0.038 to 0.108 ms/Cm</p>
Hydro geological study and results	<p>Mining will not intersect the ground water level. So hydrogeological study was not carried out.</p>
Traffic study (no. of locations) and results	<p>The traffic density study was conducted in one traffic points on 12.02.2021 on Cross section of mines road and OMC mines – Barsuan Road</p> <p>V/ C= 0.36</p> <p>LoS - B</p>
xiii. Public Hearing (PH) Details:	
Advertisement for PH with date (name)	The “New Sunday Express “& Dharitri on 05.09.

e of major national daily and one regional vernacular daily newspaper)	2021
Date of PH	08.10.2021
Venue	Bhutuda Gram Panchayat Office
Chaired by	Add. District Magistrate, Regional Officer, State Pollution Control Board
Main issues raised during PH	Loss of agriculture, Dust pollution, Water pollution, plantation, employment, construction of village road, Medical facility, Electrification, Drinking water supply, transportation.
Budget proposed for addressing issues raised during PH	242.50 Lakhs

xiv. Details of CTE/CTO, Certified Compliance Report, Certified Production Details from the inception of the mine:

Particulars	Details of Letter along with date of grant and validity
Consent to Establish	Memo No. 11380/IND-II-NOC-4049, dated 19.05.2006
Consent to Operate	Memo No. 4940/IND-I-CON-2254, validity up to 31.03.2025
Certified Compliance Report and Inspection date	File No. 101-833/21/EPE/1435 dated 11.11.2021
Certified Production Details from the inception of the mine (in tabular form against the EC capacity)	Attached

xv. Rehabilitation & Resettlement (R&R):

R & R details	NA
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xvi. Court case details:

Court Case, No and its present status	No litigations/ court cases pending against the Project Proponent.
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xvii. Affidavit/Undertaking details:

Affidavit as per Ministry's OM dated 30.05.2018	The Project Proponent has submitted an affidavit bearing affidavit no. 67AA 339736 and reported that all documents such as EIA-EMP report, Public Hearing proceedings and existing CTE/CTO is related to the M/s Rungta Sons private limited.
Undertaking by Project Proponent in EIA/EMP report	Project Proponent has submitted an undertaking for owning the content and information provided in the EIA-EMP Report.
Undertaking by Consultant in EIA/EMP report	Consultant has submitted an undertaking for preparation of EIA-EMP report and data provided factually correct.
Plagiarism Certificate	The Project Proponent has submitted the Certificate of Plagiarism check using software and submitted in the EIA-EMP Report

Earlier, the proposal was considered in the 30thEAC (NCM) meeting held during 12th , 13th & 14th June, 2024 and return the proposal in present formsince, the application is currently in the name of M/s Patnaik Minerals Pvt Ltd. The EAC also opined that while submitting the fresh application for EC on the name of M/s Rungta Sons Pvt Ltd, PP shall submit an affidavit stating that they shall abide by the content and commitment submitted by the earlier PP vide EIA/EMP, Public Hearing proceedings, existing conditions of CTE/CTO etc. PP shall submit all the documents in the name of M/s Rungta Sons Pvt Ltd.

The Project Proponent has submitted their application on 29.07.2024 along with all the documents on the company name of M/s Rungta Sons Private Limited.

xviii. Details of the Environmental Management Plan (EMP):

Sl. N	Proposed EMP	Capital Cost (I	Recurring Cost Lak
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o		NR) Lakhs	hs (INR)/Annum
1.	Air Environment		
a.	Installation of Fixed water sprinklers a long the haul road (20m gap for 3 Km) 150 nos sprinklers	30.00	04.00
b.	Fixed Water sprinkler near the dump and quarry area (100 nos)	15.00	05.00
c.	Water pipeline with pumping system	05.00	01.00
d.	Mobile water tanker for water sprinkling on the transportation road	30.00	06.00
e.	Ambient air quality Monitoring at 4 stations	--	3.0
2.	Water Environment		
a.	Construction of Garland drain	10.00	1.00
b.	Construction of Retaining wall	12.00	1.00
c.	Construction of Settling Pond	08.00	1.00
d.	Rain water harvesting Pond	06.00	00.50
e.	STP	12.00	03.00
f.	Construction of two no of culverts on BhutudaNala	30.00	3.0

e.	Surface water quality Monitoring (4 locations)	--	2.8
f.	Ground water quality Monitoring (4 locations)	--	4.8
g.	Installation of Piezometer	5.0	1.0
3.	Noise Environment		
a.	Enclosure for DG set	1.50	0.60
b.	Noise Monitoring in Core and Buffer zone	1.50	1.5
4.	Environmental monitoring programme	10.00	5.00
5.	Green Belt development (Plantation)	58.0	10.0
6.	Occupational Health		
a.	Setup of dispensary within the lease area	10.0	2.0
b.	Occupational health checkup (IME & PME)	4.00	00.50
c.	Ambulance facility for the workers and local people	15.0	3.0
d.	PPE kits for Workers (150 sets)	3.0	1.00
Total		396	63.7

xix. Details of project cost and employment:

Particulars	(Rs. In Crore)
Total cost of EMP (Capital Cost of EMP + capital cost of Public hearing)	Capital Cost EMP Rs. 396.0 Lakhs + Public hearing commitment cost: Rs.250 lakhs
Project Cost	167 Crores
Employment (Nos)	341nos

3.3.3. Deliberations by the committee in previous meetings

N/A

3.3.4. Deliberations by the EAC in current meetings

In accordance with the recommendation of the 30th EAC Meeting held during 12-14 June 2024, the project proponent has applied for Environmental Clearance on Parivesh Portal in the name of M/s Rungta Sons Pvt Ltd. The EAC noted that the instant proposal is for reconsideration of Environmental Clearance (EC) for mining of Iron and Manganese Ore in Mahulsukha Iron and Manganese Ore Block in the mine lease area of 390.317 ha (as per DGPS)/399.838 ha (as per ROR).

The EAC reiterated that the instant proposal is an auctioned mine vested from M/s Aryan Mining Trading Corporation Ltd to M/s Patnaik Minerals Private Ltd. The EAC also noted that the vesting order issued by the Govt of Odisha vide Lr No.4246/IV(B)SM- 23/2020/SM dated 30.05.2020 stating that the without prejudice to the generality of the provisions of section 8B(2) of the MMDR Act, 1957, the details of the valid rights, approvals, clearances, licenses, and the like held by the previous lessee are vested in favour of M/s Patnaik Minerals Pvt. Ltd. and the vesting order is valid for a period of two years from the date of execution of lease deed or till the date of getting fresh approvals, clearances, licenses, permits, and the like, whichever is earlier. The mine lease was executed on 29.06.2020 for a period of 50 years. Accordingly, M/s Patnaik Minerals obtained ToR vide letter dated 20.01.2021. Upon preparation of EIA/EMP in accordance with the prescribed ToR, M/s Patnaik Minerals submitted the application for EC in parivesh portal on 15.05.2022. PP also informed that the instant proposal had been considered for EC by EAC during 52nd EAC held on 14-15 June 2022, 5th EAC held on 18-20 October 2022, 7th EAC held during 5-6 December 2022, 11th EAC held during 1-2 March 2023 and in 24th EAC held during 26-28 December 2023 and 30th EAC held during 12-14 June 2024. During the 30th EAC meeting, PP mentioned that on 28.12.2023 the instant lease of Mahulsukha Iron & Manganese Ore Block was transferred in the name of M/s Rungta Sons Pvt. Ltd vide proceedings no. 12975/SN dated 28.12.2023 of

Steel & Mines Department, Govt. of Odisha under the provision of Mines and Minerals (Development and Regulation) Amendment Act, 2021.

Thereafter Project Proponent/Consultant presented the KML file and explained the site features to the EAC members. PP also presented the reply with regard to the recommendation of the EAC - subcommittee site visit report circulated vide minutes of the 11th EAC meeting dated 1-2 March 2023. The EAC noted the submission of the PP and enquired about the status of Forest Clearance. PP informed that the total forest land is 382.437 ha and out of which Stage-II FC was obtained for diversion of 227.0 ha of forest land vide F.No.8-93/2004-FC dated 18.08.2008 in favour of M/s Aryan Mining & Trading Corporation Private Ltd. The remaining virgin forest land is 155.437 Ha. The ex-lessee (M/s Patnaik Minerals Pvt. Ltd) had applied for diversion of balance forest over 155.437 ha. on 27.04.2021 (Proposal no. 122038/2021).

EAC reiterated that previous lessee M/s Patnaik Minerals Pvt Ltd vide minutes of the 5th EAC held on 18-20 October 2022 has stated that the stage II FC transfer of 227 ha diverted forest land is under process and accordingly asked the Project Proponent to submit the details whether FC stage-II was transferred in the name of M/s Patnaik Minerals or not and whether PP has made any application in its own name for FC Stage –II transfer . The EAC also asked the project proponent to submit a copy of the application for obtaining Stage-I Forest Clearance for the virgin area of 155.437 ha in the name of the current lessee, M/s Rungta Sons Private Limited. The Committee further observed that a road passes through the mining lease (ML) area, cutting through dense forest land. Two dump locations have been identified along the boundary of the forestland. Regarding the vegetation within the ML area, the Committee emphasized that the survival rate of plants should be maintained between 85% and 90%. Groundwater quality, including parameters such as TDS, which was recorded above 500 mg/l, was also discussed and EAC advised the Project Proponent to provide treated water to nearby villages having TDS less than 500 mg/l.

The Committee also inquired about the status of the installation of an online monitoring system to collect environmental data and whether this data had been shared with the State Pollution Control Board (SPCB) or Central Pollution Control Board (CPCB). It was also noted that no terracing had been created on the existing dumps. Given the age of the mines, the status of progressive backfilling was requested for submission.

Based on above discussion, the Committee **deferred** the proposal and asked to submit the following requisite information:

- i. The Project Proponent needs to submit the status of obtaining Stage-I Forest Clearance for 155.437 hectares of forest land within the ML area in the name of the current lessee, M/s Rungta Sons Private Limited.

- ii. The project proponent needs to submit the details regarding the transfer of FC stage-II for the already diverted area of 227 ha in the name of current lessee M/s Rungta Sons Private Limited.
- iii. The Project Proponent needs to submit a report detailing the mitigation measures for the protection and conservation of fauna and flora.
- iv. The Project Proponent needs to provide the status of the implementation of the Continuous Air Quality Monitoring Station (CAAQMS) system to collect air quality data and confirm whether this data is being shared with the SPCB/CPCB.
- v. The Project Proponent needs to submit the quantity of water currently being utilized or planned to be utilized for various purposes within the ML area. PP should explore other sources (example construction of water reservoir in the lease area etc.) in order to minimize the withdrawal of groundwater.
- vi. The Project Proponent needs to submit a protection plan for the village and forest area located near the project boundary.
- vii. The Project Proponent needs to provide a protection plan for Rajabasa Nala, which passes through the ML area.
- viii. The Project Proponent needs to submit geotagged photographs and video footage of the dump and forest area within the ML area and identify the dump on the conceptual plan.
- ix. The Project Proponent needs to submit geotagged photographs of pollution control equipment/ mist sprayers etc. at crusher.
- x. The Project Proponent needs to submit geotagged photographs of oil & grease trap/ ETP in the project and copy of logbook/ register of oil & grease withdrawn from the trap.
- xi. PP is required to submit time for installation of automatic permanent dust suppression system.

3.3.5. Recommendation of EAC

Deferred for ADS

3.4. Agenda Item No 4:

3.4.1. Details of the proposal

Block IV – Kalay Mineral Block by FOMENTO RESOURCES PRIVATE LIMITED located at SOUTH GOA,G OA

Proposal For		Amendment in ToR	
Proposal No	File No	Submission Date	Activity (Schedule Item)
IA/GA/MIN/483891/2024	IA-J-11015/11/2023-IA-II(NCM)	02/08/2024	Mining of minerals (1(a))

3.4.2. Project Salient Features

The Instant proposal is for amendment in Terms of Reference dated 08.01.2024 for Kalay Mineral Block- Block IV (Auction Block) of M/s Fomento Resources Private Limited for mining of Iron Ore with proposed production capacity of 0.75 MTPA, Waste: 3.0 MTPA in the mine lease area of 152.5073 Ha, located at Village Santona, Sanguem Taluka, South Goa District, Goa.

2. The project Proponent has submitted their request to amend the Terms of Reference letter dated 08.01.2024 w.r.to the standard condition 2 which mandates the project proponent to submit a certificate from Forest Department regarding involvement of Forest Land if any. The condition is reproduced here in below for reference:

“PP shall submit a certificate from Chief Conservator of Forests regarding involvement of Forest Land in the mining lease area if any. In case forest land is involved i) PP should submit the proof of application made for obtaining forest clearance and ii) a map clearly showing the forest & non forest area”.

3. In compliance to ToR granted (standard condition no. 2 Forest at S. No 2.1, page no 08 of 13), the Project proponent vide letter dated 16.05.2024 requested Forest Department Govt. of Goa to confirm involvement of Forest Land, if any within Block-IV. Vide letter dated 20.05.2024 the office of Dy. Conservator of Forest, South Goa informed the project proponent the status of Forest land as below:

i. Survey No. 26 & 43 of Santona village, Sanguem taluka constitutes to be part of South Goa Working Plan Compartment No.20 & 21 of Santona Forest Block being Government unclassified forest.

ii. Survey No.27 (P) & 28 (P) Santona village, Sanguem taluka has been identified as prospective private forest by South Goa Forest Division Committee. (Araujo Committee).

4. The Project proponent accordingly applied for diversion of Forest land on Parivesh portal of MoEF& CC vide Proposal ID No. FP/GA/MIN/QRY/472990/2024.

5. Further, upon verification by field functionaries, vide letter dated 19/06/2024, the office of the Principal Chief Conservator of Forest, provided the Forest area w.r.t. 26/1(p), 43/1(p), 27(p) & 28(p) with details as tabulated below:

Sr. No.	Survey Nos.	Area in Ha.	Remarks
1	27 (p)	0.9959	Prospective Private Forest
2	28 (p)	1.9161	
3	26/1 (p)	13.4539	Unclassed Forest
4	43/1 (p)	4.7671	
	Total	21.133	

6. Accordingly, approved Mining Plan is modified for the involvement of Forest Land (in view of changes in land use pattern in respect of Survey nos. 27(p), 28(p), 26/1(p) & 43/1(p)) and approval from IBM has been obtained vide their letter dated 23/08/2024. Therefore, in view of involvement of forest land the present application is filed on 27/06/2024 for amendment of already granted TOR on 08/01/2024.

7. The details of the project as per the document submitted by the Project Proponent are mentioned below:

i. Project details:

Name of the Proposal	Block IV- Kalay Mineral Block	
Location	Village	Santona

Tehsil/Taluka

Sanguem

District

South Goa

State / UT

Goa

Latitudes & Longitudes

All the co-ordinates of the lease boundary corner points as per the approved DGPS Plan from Directorate of Mines and Geology, Govt. of Goa are given as below:

Pillar No.	Pillar Latitude (dd:mm:ss)	Pillar Longitude (dd:mm:ss)
BP 1	15° 17' 58.2803"N	74° 09' 31.3905"E
BP 2	15° 18' 02.6197"N	74° 09' 29.8008"E
BP 3	15° 18' 08.7974"N	74° 08' 55.2583"E
BP 4	15° 17' 40.1839"N	74° 09' 03.3467"E
BP 5	15° 17' 30.9847"N	74° 09' 08.5955"E
BP 6	15° 17' 01.6125"N	74° 09' 13.1548"E
BP 7	15° 17' 12.4794"N	74° 09' 41.2969"E
BP 8	15° 17' 13.0200"N	74° 09' 44.8333"E
BP	15° 17' 16.8	74° 09' 43.98

9	213"N	85"E
BP 10	15° 17' 19.1 419"N	74° 09' 40.80 72"E
BP 11	15° 17' 23.3 295"N	74° 09' 36.49 71"E
BP 12	15° 17' 26.7 696"N	74° 09' 33.43 31"E
BP 13	15° 17' 30.5 546"N	74° 09' 31.28 26"E
BP 14	15° 17' 36.0 551"N	74° 09' 29.03 48"E
BP 15	15° 17' 40.9 091"N	74° 09' 28.26 86"E
BP 16	15° 17' 44.5 813"N	74° 09' 28.25 99"E
BP 17	15° 17' 49.1 710"N	74° 09' 29.21 19"E
BP 18	15° 17' 54.4 169"N	74° 09' 30.58 70"E

Topo sheet No.

D43C3

Company's Name

Fomento Resources Private Limited

KML file

Submitted as a file named - Block IV - Kalay Mineral Block

Seismic zone

III

ii. Category details:

Category of the project	B1
Schedule No.	1(a) Mining of Minerals
Mining lease Area (MLA) (in ha.)	152.5073 Ha
General Conditions (if any)	Bhagwan Mahaveer Wildlife Sanctuary & National Park is within 5 KM from the boundary of the Block IV – Kalay Mineral Block

iii. ToR Details:

Date of application	Proposal No.	Consideration by EAC	Details of ToR	Date of accord
24/04/2023	IA/GA/MIN/422578/2023	05/12/2023	TO23B0000GA512236 5N	08/01/2024

iv. Details of Mine Lease in chronological manner:

S. no.	Prospecting License/ Letter of Intent (LoI)/ Grant of Mine lease and Lr No	Date of the grant	Name of the Mineral & (Major/Minor)	Period of Grant	Granted by	Mine lease area in Ha
1	Letter of Intent No. DMG/25/Auction cell/LOI-function/2023/2804, read with letter No.03/18/2023/Major/Mines/3286 dated 13/03/2023 for revising area by excluding the Eco-	13/01/2023 & 13/03/2023	Iron Ore (Major)	LOI valid for 3 years	Directorate of Mines and Geology	152.5073 Ha.

sensitive zone (ESZ) area of 26.6753Ha.						
---	--	--	--	--	--	--

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

Private land	72.9675 Ha.
Government land	58.4068 Ha.
Forest land	21.1330 Ha.
Total Mining lease area (MLA), ha	152.5073 Ha.
Private land for crusher, workshop & other infrastructure outside the MLA	Nil

vi. Water requirement:

Total water requirement	300KLD	Fresh water	246KLD
		Treated water	54KLD
Source	<p>1. Rain & Storm water accumulated in the Mine Pit – used for Dust suppression, Workshop, Wheel wash System and Green belt/plantation.</p> <p>2. Well water – used for Domestic purpose.</p>		
Permission for withdrawal/ intersection along with details of grant and its validity	<p>The Water Resources Department, Goa, has issued permission for drawl of water vide letter No. 3682 and is valid up to 05.06.2026.</p>		

vii. Presence of Environmentally Sensitive areas in the study area

Forest Land/Protected Area/Environmental Sensitivity Zone	Yes/No	Details of Certificate/letter issued by the concerned Department mentioning the Lr no, date of grant and remarks
Forest Land within the mine lease area and (if yes) status of Forest Clearance	Yes	An application for diversion of Forest land for an area of 21.1330 Ha. has been filed online on Parivesh portal. The application has been accepted and is under process.
National Park	Yes	Bhagwan Mahaveer Wildlife Sanctuary & National Park is at a distance of 1.04 Km from the boundary of Mineral Block.
Wildlife Sanctuary	Yes	Bhagwan Mahaveer Wildlife Sanctuary & National Park is at a distance of 1.04Km from the boundary of Mineral Block.
Elephant/Tiger Reserve	No	--
Eco-Sensitive Zone(ESZ) /Eco-Sensitive Area(ESA)	Yes	1. Bhagwan Mahaveer Wildlife Sanctuary is located at 1.04km from the boundary towards Eastern side of the Block. 2. The Mineral Block does not fall within the Eco-Sensitive Areas of Western Ghats
Coastal Regulation Zone (CRZ)	No	--

Schedule-I species (Nos and name of schedule-I species with authenticated letter)	Yes	Details regarding Schedule-I species will be provided in the EIA report.
Wildlife Conservation Plan	Yes	A Wildlife Conservation Plan has been prepared in consultation with Forest Department based on the Schedule - I species reported in the buffer zone of the project and the same has been submitted to the Chief Wildlife Warden, Goa.

viii. Court case details:

Court Case, No. and its present status	<ol style="list-style-type: none"> 1. Writ Petition 592 of 2022 in Hon'ble High Court of Bombay at Goa <ul style="list-style-type: none"> • The said petition seeks to challenge the constitutionality of the tender documents of Phase I auction of Goa mines. • The petitioner alleges that there is a non-disclosure of essential facts such as bore hole data, approved mining plan, production data of the previous five years and exploration data and has therefore prayed for quashing of auction notice to the extent, it fails to include the essential facts which is against the principle that level playing field should be provided to the petitioner for its participation in the auction. 2. As per the last order, Fomento Resources Private Limited is added as a party to the petition as it has acquired Block IV- Kalay Mineral Block in e-auction tendered vide NIT dated 30/09/2022. 3. Above said Writ Petition bearing no. 592 of 2022 in Hon'ble High Court of Bombay at Goa stands dismissed vide order dated 12/02/2024.
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ix. Details of project cost and employment:

Particulars	(Rs. In Crore)
Total cost of EMP (Capital Cost of EMP + capital cost of Public hearing)	Not Applicable.

Project Cost	Rs.3680 Lakhs
Employment (Nos.)	<p>Direct & indirect employment of 327 persons.</p> <p>Approximately 1500 peoples will benefit directly & in-directly by this project.</p>

3.4.3. Deliberations by the committee in previous meetings

N/A

3.4.4. Deliberations by the EAC in current meetings

<p>The instant proposal pertains to an amendment in the Terms of Reference (ToR) dated 08/01/2024, with reference to the standard condition No. 2.1. The Project Proponent presented their case for amending the Terms of Reference, highlighting the involvement of 21.133 hectares of forest land within the Mine Lease (ML) area. PP also mentioned that they have submitted an application for Stage-I Forest Clearance for the said 21.133 hectares of Forest Land on 15/05/2024 to obtain permission for the diversion of the forest area. The Committee reviewed the request from the Project Proponent and the letter dated 20/05/2024 and 19/06/2024 issued by the State Forest Department confirming the presence of 21.133 hectares of Forest land within the ML area.</p> <p>In view of the above, the EAC opined that FC stage-I shall be required at the time of EC application for 21.133 ha of Forest Land and the existing mining plan has to be amended accordingly.</p> <p>Based on above discussion, the Committee recommended the proposal for amendment in the Terms of Reference letter dated 08/01/2024 with following additional specific conditions: -</p>

3.4.5. Recommendation of EAC

Recommended

3.4.6. Details of Terms of Reference

3.4.6.1. Specific

Specific Conditions

1.	PP needs to submit the stage-1 Forest Clearance for the forest land of 21.133 ha lying within the ML area.
2.	The Project Proponent needs to submit the revised Mine Plan at the time of Environmental Clearance application, incorporating the newly identified forest area of 21.133 hectares.
3.	PP needs to explore whether fresh water requirement can be reduced for the project. Construction of water reservoir in the lease area should also be explored.
4.	The Project Proponent shall provide the details of Special Pollution Control/ Abatement devices that have been installed/ proposed to be installed within the ML area and how does the technology compare with the best available technology in the field.

3.5. Agenda Item No 5:

3.5.1. Details of the proposal

Expansion of Iron Ore production capacity from 10 MTPA to 26 MTPA Hematite, 45 MTPA BHQ (Banded Hematite Quartzite), 5 MTPA Waste (Total Excavation: 60.0 MTPA) along with crushing and screening plant at Surjagarh Iron Ore Mine lease area of 348.09 Ha., located near Village Surjagarh, Tehsil Etapali, District Gadchiroli, Maharashtra of M/s. Lloyds Metals & Energy Ltd. by LLOYDS METALS AND ENERGY LIMITED located at GADCHIROLI, MAHARASHTRA			
Proposal For		Fresh ToR	
Proposal No	File No	Submission Date	Activity (Schedule Item)
IA/MH/MIN/484521/2024	J-11015/348/2005-IA.II (M)	02/08/2024	Mining of minerals (1(a))

3.5.2. Project Salient Features

<p>The instant proposal is for Terms of Reference for expansion of Iron Ore production capacity from 10 MTPA to 26 MTPA Hematite, 45 MTPA BHQ (Banded Hematite Quartzite), 5 MTPA Waste (Total Excavation 60 MTPA) along with crushing and screening plant at Surjagarh Iron Ore Mine lease area of 348.09 Ha by M/s Lloyds Metals & Energy Ltd located near to Village Surjagarh, Tehsil Etapali, District Gadchiroli, Maharashtra.</p> <p>2. The details of the project as ascertained from the document submitted by the Project Proponent are mentioned below:</p> <p>i. Project details:</p> <table border="1"> <tr> <td>Name of the Proposal</td> <td>Expansion of Iron Ore production capacity from 10 MTPA to 26 MTPA Hematite, 45 MTPA BHQ (Ban</td> </tr> </table>		Name of the Proposal	Expansion of Iron Ore production capacity from 10 MTPA to 26 MTPA Hematite, 45 MTPA BHQ (Ban
Name of the Proposal	Expansion of Iron Ore production capacity from 10 MTPA to 26 MTPA Hematite, 45 MTPA BHQ (Ban		

	ded Hematite Quartzite), 5 MTPA Waste (Total Excavation: 60.0 MTPA) along with crushing and screening plants at Surjagarh Iron Ore Mine lease area of 348.09 Ha., located near village Surjagarh, Tehsil Etapali, District Gadchiroli, Maharashtra, of M/s. Lloyds Metals & Energy Ltd.	
Location	Village	Surjagarh
	Tehsil/Taluka	Etapalli
	District	Gadchiroli
	State / UT	Maharashtra
	Latitudes	19° 36' 58.96" N to 19° 38' 21.48" N
	Longitudes	80° 20' 57.12" E to 80° 22' 32.84" E
	SoI Toposheet No.	E44C6
Company's Name	M/s Lloyds Metals and Energy Limited	
Accredited Consultant and certificate no.	MECON Limited, Certificate No: NABET/EIA/2023/RA 0195 (Rev.02)	
Seismic zone	Seismic Zone II	
ii. Category details:		
Category of the project	'A' Category	

Provisions	As per the EIA Notification vide S.O. 1533 (E), dated 14.09.2006 and its amendments.
Mining lease Area (MLA) (in ha.)	348.09

iii. ToR/EC Details:

ToR application date for Form-I	29 th June 2024
Documents Submitted	CAF, Form 1 (Part A), Form 1 (Part B), PFR, kml file of the ML area, Baseline report, Lease Deed, Authorization of Applicant, Conceptual Plan, Mining Plan & drawings.
Production capacity in million tonnes per annum only	Expansion From 10 MTPA (ROM) to 26 MTPA Hematite, 45 MTPA BHQ (Banded Hematite Quartzite)
Soil	-
Waste	5 MTPA (Waste Rock)
Others	-
Total Excavation(with break-up) in million tonnes per annum only	60 MTPA
ROM in million tonnes per annum only	26 MTPA Hematite, 45 MTPA BHQ

Crusher	Crushing Plant: Primary crushing plants -3 x 3000 TPH Gyratory crusher, 1 x700 TPH Jaw crusher, 1 x 350 TPH Jaw crusher, 5 x 250 TPH Jaw crusher, Secondary crushing plants: 12 x 625 TPH Cone crusher, 1 x700 TPH Cone crusher, 1 x 350 TPH Cone crusher, 5 x 250 TPH cone crusher Screening plant: 1 2x 625 TPH Screen plant, 5 x 900 TPH Screen plant, 3 x 400 TPH Screen plant, 2X250 TPH screen plant
Previous EC details	Project Proponent has obtained EC vide letter No. J-11015/348/2005-IA.II (M) dated 24.02.2023 for Iron Ore production capacity 10.0 MTPA (ROM).

iv. Lease Details:

Application for the Mining lease area and Date	The Project Proponent has obtained mining lease vide Lr. No. MMN1104/C.R.683/Ind-9 dated 13.04.2007 and mining lease executed on 03.05.2007 for 348.09 ha.	
Validity of mine lease	02.05.2057	
Letter of Intent	Letter No.	MNN-1004/P.N./683/Industry-9
	Date	19.08.2004
Chronology of lease extension if any	The Mine lease was issued on 03.05.2007, which is valid till 02.05.2027, Further extended upto 02.05.2057.	
Additional information	Mining lease was granted for 20 years over an area of 348.09 ha vide Letter No. MMN1104/C.R.683/Ind-9 dated 13.04.2007 and executed	

if any)	on 03.05.2007. Further, as per MMDR Amendment Act, 2015, supplementary lease deed was executed on 03.12.2021, which is valid up to 02.05.2057.
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v. Mining plan details:

Mining Plan(approved by Indian Bureau of Mines/DMG)	Letter No.	MCDR-GAD0FE/8/2023-NR-IBM R O NR
	Date	14.06.2024
	Validity	31 st March 2027
Mining Parameters	Quantitative Description	
Bench Height	10m-20m	
Bench Width	15m-30m	
Method of Mining	A-Mechanized, Open Cast Mining	
Individual bench slope	80°	
Overall pit slope	37°	
Drilling/Blasting	Drilling using 115-250mm diameter drills with 10% sub grade drilling. Blasting is being done by SME and electronic initiation system	

RoM output size	Type of ore	Product size in mm
	Hematite	CLO (5-20 mm, 10-40 mm) & Fines (-10 mm)
	BHQ	-40 mm
Life of mine	32 years	
Transportation details	Dumpers/ Trucks/conveyor belt	
Dumpers capacity	30 - 240 T	

vi. Land Area Breakup (in hectares):

Private land	-
Government land	348.09 ha (Forest land)
Total Mining lease area (MLA)	348.09 ha
Private land for crusher, wor	All facilities within ML Area

kshop & other infrastructure
outside the MLA

vii. Nearest village/ town/ highway/ railway station/ water bodies/monument

Particulars	Particular's Name	Distance & Directions
Nearest Village	a. Hedri b. Bande c. Surjagarh d. Mallampahad e. Manger f. Moharli	2.7 km (SE) 2.1 km(S) 3.1 km (E) 2.2km (E) 3.6 km (SE) 2.9 km (NW)
Nearest highway	SH-363 NH-353 C	5 km (SE) 57 km (SW)
Nearest railway station	Balharshah Jn.	~157 km(W)
Water Bodies	a. Bande river b. Kappe Nadi c. Akeran Nadi d. Dumme Nadi	1.75 km (W) 2.95 km (N) 6.04 km (W) 6.07 km (SW)
Monument	None within 10km	

viii. Water requirement

Total water requirement	Present: 1200m ³ /day, Incremental: 1012 m ³ /day Total : 2212 m ³ /day	Fresh water	2032 m ³ /day
	Potable water :Present :70m ³ /day, Incremental: 403 m ³ /day, Total : 473 m ³ /day	Treated water	180 m ³ /day
Source	Surface and ground water		
Permission	<ul style="list-style-type: none"> · NOC to abstract 70 m³/day (present potable water consumption) of Ground Water has been obtained from CGWA, Govt. of India vide NOC No. CGWA/NOC/MIN/ORIG/2022/14843, dated 21.03.2022. The application for 473m³/day is being submitted. · Approval of withdrawal surface water for 13200 KLD from river Bande is obtained from Dept. of Water Resources, Govt. of Maharashtra vide letter no. 2022/(218/22)/..(-2) dated 13.01.2023 		

ix. 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	
National Park	No	FC received vide letter no. F. No. 8-31/2005-FC dated 23/03/2007
Wildlife Sanctuary	No	
Eco-Sensitive Zone(ESZ) /Eco-Sensitive Area(ESA)	No	

x. Availability of Schedule-I species in study area:

Schedule-1 species	Yes/No	Details of Certificate/letter/Remarks
Schedule-I species	Yes	There are some Schedule I Fauna like sloth bear, Indian porcupine, peafowl etc. in the study area.
Status of Wildlife Conservation Plan Additional information (if any)	Approved	Site Specific Wildlife Conservation Plan has been approved by PCCF (WL), Maharashtra vide letter dated 15.02.2023 with a total financial outlay of Rs.912.5 lacs for ML area and buffer zone.

xi. The status of Forest Clearance/Wildlife Clearance/CRZ/CGWA:

- Forest Clearance: Ministry of Environment Forests & Climate Change (FC Division), Govt. of India, New Delhi has accorded approval vide F. No. 8-31/2005-FC dated 23/03/2007 for diversion of 374.90 ha, including 348.09 ha for mine lease and the rest is for road and transmission line.
- Wildlife Management Plan: Site Specific Wildlife Conservation Plan has been approved by PCCF (WL), Maharashtra vide letter dated 15.02.2023
- CGWA Permission: GW NOC to abstract 70 m³/day (present potable water consumption) of Ground Water has been obtained from CGWA, Govt. of India vide NOC No. CGWA/NOC/MIN/ORIG/2022/14843, dated 21.03.2022

xii. Status of CTE/CTO:

- Consent to Establish (CTE) for 10 MTPA Iron ore production has been granted by Maharashtra Pollution Control Board, Maharashtra vide letter no: 0000147010/CE/2301001784 dated 20.01.2023.
- Consent to Operate (CTO) has been granted from the Maharashtra Pollution Control Board, Maharashtra vide letter no.0000188508/CR/2403003071-dated 28.03.2024 for 10 MTPA of Iron ore production and is valid up to 31.03.2029.

xiii. Green belt/plantation details:

Proposed area for green belt/plantation							
	Sl. No	Year	Green Belt Location (s)	Area Proposed to be Covered (Ha)	Number of Plants Proposed	Expected Survival Rate (%)	Estimated Expenditure (INR)

	1	2024-2025	Safety Zone	0.326	652	80	40000
	2	2025-2026	Safety Zone	0.423	846	80	50000
	3	2026-2027	Safety Zone	0.423	846	80	50000
Additional information (if any)	A total area of 6.17 ha earmarked for green belt.						

Particulars for Green belt/plantation	Area covered (in Ha)
7.5 m wide all along ML area	6.17
Additional information (if any).	The Project Proponent has completed the gap pl

antation.

xiv. Baseline detail

Baseline Data (Air/ Water/ Noise/ Soil/ Ground water table/ others)

Period of baseline data collection

December 2023 – Feb, 2024

Season (Summer / Pre-monsoon / Post-monsoon / Winter)

Winter season 2023-24

xv. Court case details:

C o u r t C a s e	CaseName	<i>Sam arjee t Chatterjee v s Union of India & Or s</i>	<i>Pra krut i fou ndat ion v/s Uni on o fInd ia a ndO rs</i>	<i>Bramhanand Ti wari vs. Collect or, Gadchirolia ndothers</i>
	Name of the court / tribunal (Supreme Court/ High Court / NGT/ Dist. C	High Court of Judicature at Bombay, Nagpur Bench	High Court of Judicature at Bombay, Nagpur Bench	National Green Tribunal(Western Zone)Pune

ourt / Others)			
Case category (CA/ SLP (Cr.) / SLP (Civil)/ WP (Cr.) / WP (civil) / OA / Appeal / Complaint case /others)	Public Interest Litigation	Public Interest Litigation	Original Application
Case Number	6 of 2023	19 of 2023	14 of 2024
Status of court case (disposed off/ reserved for judgment/)	Pending	Pending	Pending

xvi. Affidavit/Undertaking details:

Affidavit/Undertaking	LMEL has submitted an undertaking by way of Notarized Affidavit dated 25.06.2024 in compliance of the Ministry's OM no. 3-50/2017-IA.III(Pt.) dated 30.05.2018.
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xvii. Details of project cost and employment:

Particulars	(Rs. In Crore)
Project Cost	Total Cost Rs. 1713.58 Crores, [Existing Cost – 364.28 Crores; Expansion Cost – 1349.3 Crores]
Employment	6000 (Direct & Indirect)

3.5.3. Deliberations by the committee in previous meetings

N/A

3.5.4. Deliberations by the EAC in current meetings

The Project Proponent has presented their presentation for Terms of Reference and explained the important site features through kml file, such as the villages lying within the close proximity of 3km from the ML area namely Bande, Mallampardi and Hedri. The Committee observed that the instant proposal is for expansion of Iron ore mine for obtaining Terms of Reference.

Further, Committee noted that the infrastructural facility including roads available for 10 MTPA may not be sufficient to transport the expanded capacity; the existing road needs to be strengthened to transport the maximum capacity i.e. upto 55 MTPA of ore. The loading capacity of trucks and transportation frequency is to be properly assessed and synchronized with each other after conducting detailed traffic study from any national reputed institute. As per the kml file, the Committee noted that the mineral transportation route is passing through forest area wherein the Schedule-I species such as Sloth bear and Peafowl movement exist. Therefore, the Committee requested to engage any wildlife experts during the traffic study to avoid any mortality during the movement of trucks. The Committee also noted that the dumping activity has been initiated near to the boundary of the Forest area, wherein the retaining wall has to be established in order to protect the forest from the seepage/flow of dump water especially during the rainy season. A proper scientific plan needs to be submitted before the committee in order to save the forest area and wild animals from the seepage /flow of dump water. Committee also highlighted the tiger corridor passing near the area.

The Committee asked the project proponent to address the concerns of the locals living in villages w.r.to the air quality/noise pollution. PP was asked to submit the installation status of CAAQMS and the online data generated by it. PP also need to state whether the air quality data is being shared on a real time basis with State PCB/ CPCB.

Subsequently, the Committee highlighted the concerns w.r.to the proposed application for 473 KLD to fulfill the domestic water requirement. The Committee asked to submit the detailed justification for it. In addition to the above, Committee during the EAC meeting noted that total three nos. of court cases are pending against the project proponent as given under-:

- a) PIL Public Interest litigation) 6 of 2023 (Samarjeet Chatterjee vs Union of India & Ors) is pending before the Hon'ble High court of Judicature at Bombay, Nagpur Bench. The matter pertains to expansion of mining capacity permitted by the Ministry for undertaking mining of Iron Ore at village Surjagarh (Wooria Hill), Tah. Etapalli, District Gadchiroli by the PP. It is stated in the petition that the expansion exceeds 50% of the production capacity which is contrary to the Guidelines. Further, the public hearing in the matter has been conducted without following the prescribed procedure and hence the permission for expansion of mining capacity is vitiated.
- b) a PIL Public Interest litigation) 19 of 2023 (Prakruti foundation v/s Union of India and Ors) is pending before the Hon'ble High court of Judicature at Bombay, Nagpur Bench.
- c) Original Application No 14 of 2024 (Bramhanand Tiwari vs. Collector, Gadchiroli and others) is pending before the Hon'ble National Green Tribunal (Western Zone) Pune.

Committee therefore asked the project proponent to submit an undertaking stating that there is no stay or any adverse orders passed against the Project Proponent by the Hon'ble Courts till date.

Committee also asked the PP to furnish details of the court cases mentioned above and the replies filed therein by the PP in a tabular form.

Based on aforesaid discussions and presentation made by the Project Proponent and the Consultant, the EAC in its meeting held during 9-11th September, 2024 under the provisions of EIA Notification, 2006 and its subsequent amendments therein, recommended the proposal for grant of Terms of Reference (ToR) for expansion of Iron Ore production capacity from 10 MTPA to 26 MTPA Hematite, 45 MTPA BHQ (Banded Hematite Quartzite), 5 MTPA Waste (Total Excavation: 60.0 MTPA) along with crushing and screening plant at Surjagarh Iron Ore Mine lease area of 348.09 Ha by M/s Lloyds Metals & Energy Ltd located near Village Surjagarh, Tehsil Etapali, District Gadchiroli, Maharashtra 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:-

3.5.5. Recommendation of EAC

Recommended

3.5.6. Details of Terms of Reference

3.5.6.1. Specific

Specific Condition	
1.	The Project Proponent also needs to furnish details of the court cases mentioned above and the replies filed therein in a tabular form. The ToR shall be accorded only after the submission of an undertaking stating that, <i>“There is no stay or any adverse orders passed against the Project Proponent by the Hon’ble Courts till date”</i> .
2.	The Project Proponent needs to engage a national institute of repute to conduct a carrying capacity study of the existing road and submit the detailed traffic study w.r.t. the proposed capacity upto 55 MTPA (proposed ore transportation). The traffic study should synchronize the existing and proposed loading capacity of dumpers.
3.	The Project Proponent needs to engage any wildlife experts during the traffic study to avoid any mortality of wildlife from the movement of dumpers through the dense forest area.
4.	The Project proponent needs to submit the detailed scientific plan for constructing the retaining wall/other structures so that there is no flow of dump silt outside the lease area.
5.	PP needs to submit a colour coded map highlighting the tiger corridor present near the mine lease area.
6.	PP needs to submit the installation status of CAAQMS and the online data generated by it. PP also need to state whether the air quality data is being shared on a real time basis with State PCB/ CPCB.
7.	The Project proponent needs to submit the detail plan for reducing the consumption of diesel w.r.t. the instant proposal for expansion and comparative consumption should be submitted showing the existent and proposed use of diesel.
8.	The Project proponent needs to submit a detailed plan showing more use of renewable energy in the project.
9.	The Project proponent needs to submit the detail justification for using 473KLD water. PP should explore other sources (example water reservoir etc.) in order to minimize the withdrawal of groundwater.
10.	PP needs to submit a detailed plan for installation of OLBC system along with a definite timeline, till the proposed plant.
11.	PP should submit the layout of Slurry pipeline (complete route) alongwith its water consumption.
12.	The Project Proponent needs to submit the detailed scientific study on flora and fauna and also to highlight on the endangered species. The Project Proponent needs to verify the list as per the latest Wildlife Protection Amendment Act, 2022.
13.	The Project Proponent needs to monitor the ambient air quality and noise level at the mine lease boundary, nearest village, crusher, predominant downwind direction and at other sensitive receptors. Accordingly, Project Proponent shall propose to install Continuous Ambient Air Quality

	Monitoring Station within certain timeline.
1 4.	The Project Proponent should prepare the EMP considering the scenario of pollution to be generated for normative and peak total excavation for assessing air pollution, noise level and ground vibration.
1 5.	The Project Proponent needs to carry out the Public Hearing as per provisions of EIA Notification, 2006. PP should also submit the time bound action plan on concerns of the public through a separate budget with capital expenditure with a timeline of 3 years. The Project proponent shall ensure that the activities proposed under the public hearing shall be different from the CSR activities.
1 6.	The Project Proponent needs to undertake the enumeration of the species within the mine lease area before cutting. The Project Proponent also needs to submit the compensatory afforestation plan for the no. of trees to be cut in the mine lease area and also to explore the possibility of tree transplantation.
1 7.	The Project Proponent needs to submit the action plan for undertaking the plantation along the 7.5m barrier, safety zone of tar road/cart tracks, electric line etc., PP should also submit the details no of saplings to be planted, type of saplings proposed and the area to be covered under greenbelt/plantation along with the timeline and budget. The greenbelt/plantation plan shall be prepared in such a way that the ecology of the area shall be restored.
1 8.	The Project Proponent shall carry out the assessment of impact due to the proposed project as per the guidelines issued by the Central Ground Water Authority from time to time and submit the same as a part of the EIA/EMP.
1 9.	The project proponent shall conduct hydrological study for projects involving intersection of ground water table as per the guidelines issued by the Central Ground Water Authority from time to time and submit the same as a part of the EIA/EMP.
2 0.	The Project Proponent shall explore the possibility of reduction of specific water requirement by optimization / technology up gradation, etc. The efforts shall be delineated in the EIA/EMP.
2 1.	The Project Proponent shall prepare the scheme for mandatory recycle/re-use of water as specified by the Central Ground Water Authority for different category areas seeking NoC for ground water withdrawal and the shall submit as part of EIA/EMP report.
2 2.	The Project Proponent needs to submit the detailed R&R plan covering all the components viz. number of Project Affected Families (PAF) 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.
2 3.	The Project Proponent 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 in consultation with the local people. Further, PP needs to submit the possession certificate and timeline for acquiring the land at the time of submission of EC proposal.
2 4.	The Project Proponent shall conduct drone survey of the mine lease area and buffer area and submit during the appraisal for EC.
2 5.	The Project Proponent shall provide the details of Special Pollution Control/ Abatement devices that have been installed/ proposed to be installed within the ML area and how does the technology compare with the best available technology in the field September 2024.

3.6. Agenda Item No 6:

3.6.1. Details of the proposal

Amendment in Environmental Clearance of Noamundi Iron Mine of Tata Steel Limited for mining over 0.9113 ha of safety zone area without change in production capacity located at Villages Mahudi, Balijore, Korta, Noamundi, Sarbil and Barabalijori, Tehsil: Noamundi, District: West Singhbhum, Jharkhand by Tata Steel Limited located at WEST SINGHBHUM, JHARKHAND			
Proposal For		Amendment in EC	
Proposal No	File No	Submission Date	Activity (Schedule Item)
IA/JH/MIN/493953/2024	J-11015/104/2011-IA-II(M)	24/08/2024	Mining of minerals (1(a))

3.6.2. Project Salient Features

The instant proposal is for Amendment in Environmental Clearance 06.09.2021 for Noamundi Iron Mine of Tata Steel Limited for mining over 0.9113 ha of safety zone area without change in production capacity located at Villages Mahudi, Balijore, Korta, Noamundi, Sarbil and Barabalijori, Tehsil Noamundi, District West Singhbhum, Jharkhand.

2. The project proponent had obtained the amendment in EC dated 06.09.2021 w.r.t permission for transportation by road to other Railway Siding on 29.10.2021. Project proponent has submitted the proposal for amendment in Environment Clearance vide letter No. J-11015 /104 /2011-IA.II (M) dated 06.09.2021 for Mine lease area 1160.06 ha with the total Project Area: 1230.42 ha w.r.t Standard Condition No. viii (1).

“Mining is proposed over 0.9113 ha safety zone area of Noamundi Iron Mine over a length of ~1213 meters within 7.5 m periphery of safety zone of Noamundi Iron Mine along part ML boundary common with Katamati Iron Mine of Tata Steel Limited”.

3. Project proponent has obtained the following permissions:

- In order to incorporate the common boundary working in the Mining Plan, Review of Mining Plan has been duly approved by Indian Bureau of Mines, Ranchi dated 15.03.2022.
- Common boundary working Permission under Regulation 111 (3) of MMR 1961 has been obtained from DGMS dated 16.02.2023 for working along common mine boundary area of two mines.

4. Further, the Project proponent has submitted the following justification for the above-proposed amendment:

- The proposal is for mining in 7.5 m safety zone of mining lease along the Common Lease Boundary with Katamati Iron Mine of the same Company, Tata Steel Limited.
- No increase in the Mine lease area.
- No increase in the production capacity.
- No change in the mining methods/technologies.
- No change in project requirement such as water requirement, manpower requirement, power requirement etc.
- There is no National Park, Wildlife Sanctuary, Wildlife Corridor, Tiger Reserves etc. present within 10 Km radius of the study area.

5. Subsequently, the Project Proponent has submitted the following reason for amendment:

- Noamundi Iron Mine and Katamati Iron Mine share common boundary of which 1250m is in Mineralized Zone.
- In view of Mineral conservation and to utilize blocked reserves, Company has proposed mining in 7.5m safety zone along common boundary.
- Total 16 Million Tons Iron Ore are locked up in the 7.5 m periphery of safety zone of mine lease area along Noamundi Iron Mine and Katamati Iron Mine.
- 8.2 Million Tons will be mined out by Noamundi Iron Mine and balance by Katamati Iron Mine.
- The area covered under the safety zone along the 7.5m of common boundary mining zone is 0.9113 ha and same safety zone will be re-drawn by plantation over an equivalent area.

6. The details of the project as per the documents submitted by the Project Proponent are mentioned below:

i. Project details:

Name of the Proposal	Amendment in Environmental Clearance of Noamundi Iron Mine of Tata Steel Limited for mining over 0.9113 ha of Safety zone area without changes in production capacity located at Villages Mahudi, Balijore, Korta, Noamundi, Sarbil and Barabalijori, Tehsil: Noamundi, District: West Singhbhum, Jharkhand	
Location	Village	Mahudi, Balijore, Korta, Noamundi, Sarbil and Barabalijori
	Tehsil/Taluka	Noamundi
	District	West Singhbhum

	State / UT	Jharkhand
	Latitudes	85°27'53.34" E to 85°30'25.32" E
	Longitudes	22°07'13.84" N to 22°10'39.71" N
	SoIToposheet No.	73 F/8 & 73 F/12
Company's Name	Tata Steel Limited	
Accredited Consultant and certificate no. and Validity	JM Enviro Net Pvt. Ltd. Accredited EIA Consultant by NABET (QCI) Certificate No. NABET/EIA/2326/RA 0308 Valid till 07.08.2026.	
KML file	KML is uploaded on Parivesh 2.0 Web Portal & same is enclosed.	
Seismic zone	Zone – II as per IS: 1893 (Part-I): 2002	
ii. Category details:		
Category of the project	As per EIA Notification dated 14 th September, 2006 as amended from time to time, the project falls under Category "A".	
Schedule No.	Project or Activity 1 (a) – 3 for "Mining of Mineral" 2 (b) Mineral Beneficiation	
Mining lease Area (MLA) (In ha.)	1160.06 ha (762.43 ha Forest Area & 397.63 ha Non-Forest Area) Project Area: 1230.42 ha	
General Conditions (if any)	Jharkhand-Odisha Inter-state boundary (Adjacent to the mine lease area on the southern side.)	

iii. ToR/EC Details:

Date of application	Proposal No/ File No	Consideration by EAC	Details of ToR	Date of accord
24.08.2024	Proposal No.-IA/JH/MIN/493953/2024 File No.-J-11015/104/2011-IA-II(M)	33 rd EAC (Non-Coal Mining)	Not Applicable, as this Proposal is for amendment in EC w.r.t mining over 0.91 13 ha of safety zone area without change in production capacity located at Villages Mahudi, Balijore, Korta, Noamundi, Sarbil and Barabalijori, Tehsil: Noamundi, District: West Singhbhum, Jharkhand of Tata Steel Limited.	
24.08.2024	Proposal No.-IA/JH/MIN/493953/2024 File No.-J-11015/104/2011-IA-II(M)	33 rd EAC (Non-Coal Mining)	Proposal is for consideration of Amendment in EC	

iv. Details of Mine Lease in chronological manner:

S. No.	Prospecting License/Letter of Intent (LoI)/ Grant of Mine lease and Lr No	Date of the grant	Name of the Mineral & (Major/Minor)	Period of Grant	Granted by	Mine lease area in Ha
1.	Initial Lease	01.01.1922	Iron Ore	30 Years	Govt. of Bihar	1160.06
2.	1 st Renewal	01.01.1952	Iron Ore	30 Years	Govt. of Bihar	1160.06
3.	2 nd Renewal	01.09.1984	Iron Ore	30 Years	Govt. of Bihar	1160.06

4.	Acc. To MMDR Act	12.01.2015	Iron Ore	Upto 2030	Govt. of Jharkhand	768.55
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S. No.	Details of grant of Mine Lease deed execution	Period of Grant		Name of the Mineral	Mine lease area in Ha
		From	To		
1.	Mine Lease Executed on dated 09.08.1923	01.01.1922	31.12.1951	Iron Ore	1160.06
2.	Mine Lease Executed on dated 01.02.1967	01.01.1952	31.12.1981	Iron Ore	1160.06
3.	Mine Lease Executed on dated 20.10.1985	01.01.1982	31.12.2011	Iron Ore	1160.06
4.	Mining Lease is valid till 31.03.2030 as per MMDR Amendment Act 1957.				

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

Private land	41.85 ha
Government land	355.78 ha
Forest land	762.43 ha
Total Mining lease area (MLA), ha	1160.06 ha
Private land for crusher, workshop & other infrastructure outside the MLA	-

vi. Mining plan details:

Mining Plan including Progressive Mine Closure Plan (approved by)	Letter No.	RAN/WSB/Fe/MP-24/2021-22
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y Indian Bureau of Mines/DMG)	Date	15.03.2022
	Mineral & (Major/Minor)	Major
	Mine Lease Area, Ha	1160.06 Ha
	Validity	31.03.2027
Additional information (if any)	Above mentioned details are of Review of Mining Plan with Progressive Mine closure Plan	
Mining Parameters	Quantitative Description	
Method of Mining	Opencast Mechanized	
Drilling/Blasting	The blasting operation is carried out by system of deep hole blasting using Site Mixed Emulsion (SME) Explosive and Nonel/electronic detonators.	
Geological Reserves	294.89 million Tonnes	
Mineable Reserves	135.28 Million Tonnes	
Breakup of Total Excavation (To spoil/OB/SB/IB/Mineral Rejects/Waste, MTPA)	Iron Ore: 19 Million TPA (ROM) Total Excavation: 27.0 Million TPA	
Life of mine	~8 (8.37) Years	
Mine Bench Height&Bench Width	Bench Height: 12 m Bench Width: 20 m(12m at Ultimate Stage)	
No. of Mine Benches	10	

Existing Depth, m bgl	72 m bgl
Ultimate Depth of Mining, m bgl	480 mRL (In Hill 3 & 4 and Western Pit)(120mbgl)
Ground Water Table, m bgl	478 m AMSL(122mbgl)
Details of ground water intersection	No
Individual bench slope	80°
Overall pit slope	45°
Details of existing/ proposed Crusher	-
Mineral Beneficiation	The source of feed ore to Beneficiation plant is from Noamundi Mine as well as adjoining Katamati Mine.
RoM output size	1000mm
Transportation details including capacity of dumper/tipper, mode of transport and distance	Mineral is being transported by 100 tonner Dumper via haul road at a distance 3.0 KM.
Generation of Topsoil/OB & its Management during plan period & conceptual period	-
Generation of Mineral Rejects/ Waste & its Management during plan period & conceptual period	During plan period 18.06 Million tonnes waste will be generated which will be used for backfilling and balance will be dumped in external dump and 4.61 Million tonnes of Mineral reject will be generated part of which will be used for plant feeding after blending with suitable grade ore and balance will be stor

ed for future use. At conceptual stage 73.395 Million tonnes waste will be generated stored at earmarked location within the mining lease area and 22.631 Million tonnes Mineral Reject will be generated which will be stacked earmarked site.

vii. Water requirement:

Total water requirement	29000 KLD	Fresh water	29000 KLD
		Treated water	70 KLD
Source	Baitarani River		
Permission for withdrawal/ intersection along with details of grant and its validity	This Proposal is for Amendment in Environment Clearance.		
Additional information(if any)	Amendment in Environment Clearance of Noamundi Iron Mine of Tata Steel Limited for mining over 0.9113 ha of safety zone without Change in Production Capacity located at Villages: Mahudi, Balijore, Korta, Noamundi, Sarbil and Barabali, Tehsil: Noamundi, District: West Singhbhum, Jharkhand.		

viii. Nearest village/town/ highway/interstate boundary/railway station/water bodies/monument/ forest

Particulars	Particular's Name	Distance & Directions
Village	Noamundi	~0.1 km in NE Direction
	Barbil	~8.4 km in WSW Direction
	Chaibasa district HQ	~53 km in NE Direction
Highway	SH-4	Adjacent In North Direction

		on
Interstate Boundary	Jharkhand-Odisha	Adjacent to the mine lease area on the southern side.
Railway Station/Railway line	S.E. Railway Line	· ~0.5 km, NE Direction
	Noamundi Railway Station	· ~1.7 km, East Direction
Water Bodies	<ul style="list-style-type: none"> · Balijhorenala · BetlaraNallah · Mahadev Nallah · KumritaNallah · SonaRiver/ Kundra · Baitarani River · Karo River 	<ul style="list-style-type: none"> · Within the ML area · ~0.2 km, NW · ~2.0 km, SW · ~6.5 km, North · ~7.8 km, South · ~8.4 km, SE · ~8.5 km, West
Forest	<ul style="list-style-type: none"> · Thakurani RF · Kurta PF · Noamundi PF · Gundijora PF · Nuia PF · Pandrasali PF · Jampani PF · Kucchibera PF · Kurmrita PF · Uliiburu PF · Rengabera PF · Ghatkuri RF · Kolita PF · Barainuru PF · Gua PF 	<ul style="list-style-type: none"> · Adjacent SW · Within ML area · Within ML area · ~1.1 NNE · ~1.4 km, NW · ~1.5 km, West · ~3.0 km, East · ~3.4 km, NE · ~3.4 km, North · ~6.8 km, West · ~7.3 km, ESE · ~8.5 km, West · ~8.8 km, NNE · ~8.8 km, NNW · ~9.4 km, NW

ix. Presence of Environmentally Sensitive areas in the study area

Forest Land/ Protected Area/ Environmental Sensitivity Zone	Yes/No	Details of Certificate/letter issued by the concerned Department mentioning the Lr no, date of grant and remarks
Forest Land within the mine lease are	Yes	Total Forest Area is 762.43 ha. The F

<p>a and (if yes) status of Forest Clearance</p>		<p>orest Clearance for 370.92 ha was granted to the project vide letter no. F. No. 8-279/1985 FC (Pt) Dated 04.09.2014.</p> <p>For the remaining Forest Land of 391.51 ha (Including Safety Zone area 8.14 ha) Stage-I “in principle” approval was granted vide File No. 8-65/2018 FC Dated 08.12.2022.</p>
<p>National Park</p>	<p>No</p>	
<p>Wildlife Sanctuary</p>	<p>No</p>	
<p>Elephant/Tiger Reserve</p>	<p>No</p>	
<p>Eco-Sensitive Zone(ESZ)/Eco-Sensitive Area(ESA)</p>	<p>No</p>	
<p>Coastal Regulation Zone (CRZ)</p>	<p>No</p>	<p>-</p>
<p>Schedule-I species (No.s and name of schedule-I species with authenticated letter)</p>	<p>Yes</p>	<p>7 (Grey Wolf, Elephant, Sloth Bear, Leopard, Peacock, Python, Common Indian Monitor)</p>
<p>Wildlife Conservation Plan</p>	<p>Yes</p>	<p>The SSWLCP Approved by PCCF, Wild Chief Wildlife Warden & Jharkhand Ranchi on 15.05.2024</p> <p>Budget for SSWLCL is Rs.: 2526.13 Lakhs/-</p>
<p>x. Green belt/Plantation details:</p>		
<p>Proposed area for green belt/ plantation and no. of saplings proposed</p>	<p>Area:460.739 Ha</p> <p>No.- 11,51,848 Nos.</p>	

Budget for green plant& plantation till the end of life of mine.	2304 Lakhs
Budget for nursery	424 Lakhs
Details of existing plantation and its survival rate	761083 Nos. (85-90%)
No. of tree cuts in the mine lease area and compensatory afforestation	The 26 Trees will be cut from the existing vegetation 1000 trees shall be planted in redrawn safety zone area.
Particulars for Green belt/plantation	Area covered (In Ha)
7.5 m barrier & non-mineralized zone	8.14
50 m safety zone of nallah, roads, electric lines	4.35
500 m safety zones of nearest habitations villages	-

xi. Baseline detail:

Baseline Data (Air / Water / Noise / Soil / Hydro geological study/ Traffic Study/ others)	
Period of baseline data collection	Not applicable, as this proposal is for an amendment in EC. Regular compliance report of EC condition is being submitted to IRO, MoEF&CC.
Season (Summer/Pre-monsoon/Post-monsoon/Winter)	
Predominant Wind direction (From)	
Ambient Air Quality (no. of locations) and results	

Noise level (no. of locations) and results	
Water Quality (no. of locations) and results	
Soil Quality (no. of locations) and results	
Hydro geological study and results	
Traffic study (no. of locations) and results	This Proposal is for only Amendment in Environmental Clearance of Noamundi Iron Mine of Tata Steel Limited for mining over 0.9113 ha of safety zone area without change in production capacity located at Villages Mahudi, Balijore, Korta, Noamundi, Sarbil and Barabalijori, Tehsil: Noamundi, District: West Singhbhum, Jharkhand.

xii. Details of CTE/CTO, Certified Compliance Report, Certified Production Details from the inception of the mine:

Particulars	Details of Letter along with date of grant and validity
Consent to Establish	Existing CTE Ref No.: JSPCB/HO/RNC/CTE-10765772/2021/354 dated 17.12.2021
Consent to Operate	Existing CTO Vide Letter No. JSPCB/HO/RNC/CTO-13904751/2022/1713 Dated 06.12.2022 valid till 31.12.2026
Certified Compliance Report and Inspection date	Date of Inspection: 25.09.2020

xiii. Court case details:

Court Case, No and its present status	Name of the Court- High Court, Jharkhand Name of Bench- Principal Bench Jharkhand
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	<p>Case Category- WP (C)3768 OF 2015</p> <p>Status of court case- Court directed to State Govt. to decide representation of Tata Steel</p>
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xiv. Details of the Environmental Management Plan (EMP):

Activities	Capital cost (Crores)	Recurring cost(Lakhs/annum)
CAAQMS, Permanent Water Sprinklers, Covered Conveyor Belt, Plantation, Environmental Monitoring, Occupational Health	13.19	1.65

xv. Details of project cost and employment:

Particulars	(Rs. In Crore)
Total cost of EMP (Capital Cost of EMP + capital cost of Public Hearing)	45.46
Project Cost	3558 Crore
Employment (Nos)	3717 Persons

3.6.3. Deliberations by the committee in previous meetings

N/A

3.6.4. Deliberations by the EAC in current meetings

The Project Proponent/consultant presented the request for an amendment in the Environmental Clearance (EC) dated 06/09/2021 regarding mining over 0.9113 ha of the safety zone area of the Noamundi Iron Mine, spanning approximately 1213 meters within the 7.5-meter periphery of the safety zone along the boundary shared with the Katamati Iron Mine of Tata Steel Limited.

Upon reviewing the KML file, the Committee observed that mining activities will take place along the

common boundary shared with the Katamati Iron Ore Mine, which lies in the State of Orissa. The Project Proponent has already obtained permission from the Directorate-General of Mines Safety (DGMS) to work within the 7.5-meter common mine boundary. The Committee noted the submission of the Project Proponent and advised the Project Proponent to inform both the Jharkhand and Orissa state authorities about the mining activities on the common boundary. A No Objection Certificate (NoC) from both states will be required for operations along the shared boundary of the mining lease area.

In view of the above, the Committee **deferred** the proposal and asked the following requisite information:

- i. The Project Proponent needs to submit the No Objection Certificate (NoC) from both Jharkhand and Orissa states for conducting mining operations along the common boundary of the Mining Lease (ML) area. Similarly, from DGMS permission and IBM permissions check?
- ii. The Project Proponent needs to submit the latest action taken report on the site inspection/monitoring report issued by the Regional Office (RO), Ranchi along with proper proofs/documents (photographs, videos etc.) with respect to steps taken for compliances.
- iii. PP should submit about the sites where OB/Waste, ore/ sub grade ore excavated/generated after this proposed mining will be dumped/stacked with necessary precautions with respect to environmental safeguards (catch drains, siltation ponds, control against air pollution, etc.)
- iv. PP should explore to reduce the fresh water requirement for their project (i.e. from Baitarani river). Construction of water reservoir in the mine lease, utilization of mine sump water, reutilization of process water, control in water leakages, etc. should be taken in view for the above.
- v. PP should clarify the difference in the lease area that is granted to it in 2015 under MMDR act i.e. 768.55 ha and mine lease area in approved mine plan (1160.06 ha)???

3.6.5. Recommendation of EAC

Deferred for ADS

3.7. Agenda Item No 7:

3.7.1. Details of the proposal

Expansion in Limestone Production Capacity from 1.5 million TPA to 3.5 million TPA, Top Soil 0.13 million TPA, Waste/OB/IB 2.26 million TPA, Sub Grade 0.50 million TPA (Total Excavation 6.39 million TPA) and Proposed crusher of 1600 TPH in Maratha Limestone Mine, ML - I (ML Area – 579.90 ha) in Villages- Thutra and Lak

hmapur (Tehsil: Korpana) and Hirapur, Isapur and Sonapur (Tehsil: Rajura), District- Chandrapur, State: Maharashtra of Ambuja Cements Ltd by Ambuja Cements Limited located at CHANDRAPUR, MAHARASHTRA			
Proposal For		Fresh EC	
Proposal No	File No	Submission Date	Activity (Schedule Item)
IA/MH/MIN/453734/2023	J-11015/399/2006-IA.II (M)	26/08/2024	Mining of minerals (1(a))

3.7.2. Project Salient Features

The instant proposal is for Environmental Clearance for expansion in Limestone Production Capacity from 1.5 million TPA to 3.5 million TPA, Top Soil 0.13 million TPA, Waste/OB/IB 2.26 million TPA, Sub Grade 0.50 million TPA (Total Excavation 6.39 million TPA) and proposed crusher of 1600 TPH in Maratha Limestone Mine, ML - I (ML Area – 579.90 ha) by M/s Ambuja Cements Ltd located at Villages Thutra and Lakhmapur (Tehsil: Korpana) and Hirapur, Isapur and Sonapur (Tehsil Rajura), District Chandrapur, State Maharashtra.

3.7.3. Deliberations by the committee in previous meetings

N/A

3.7.4. Deliberations by the EAC in current meetings

The Project Proponent vide letter and email dated 03.09.2024 requested EAC to defer the instant proposal.
As requested by PP, EAC **deferred** the proposal.

3.7.5. Recommendation of EAC

Deferred for ADS

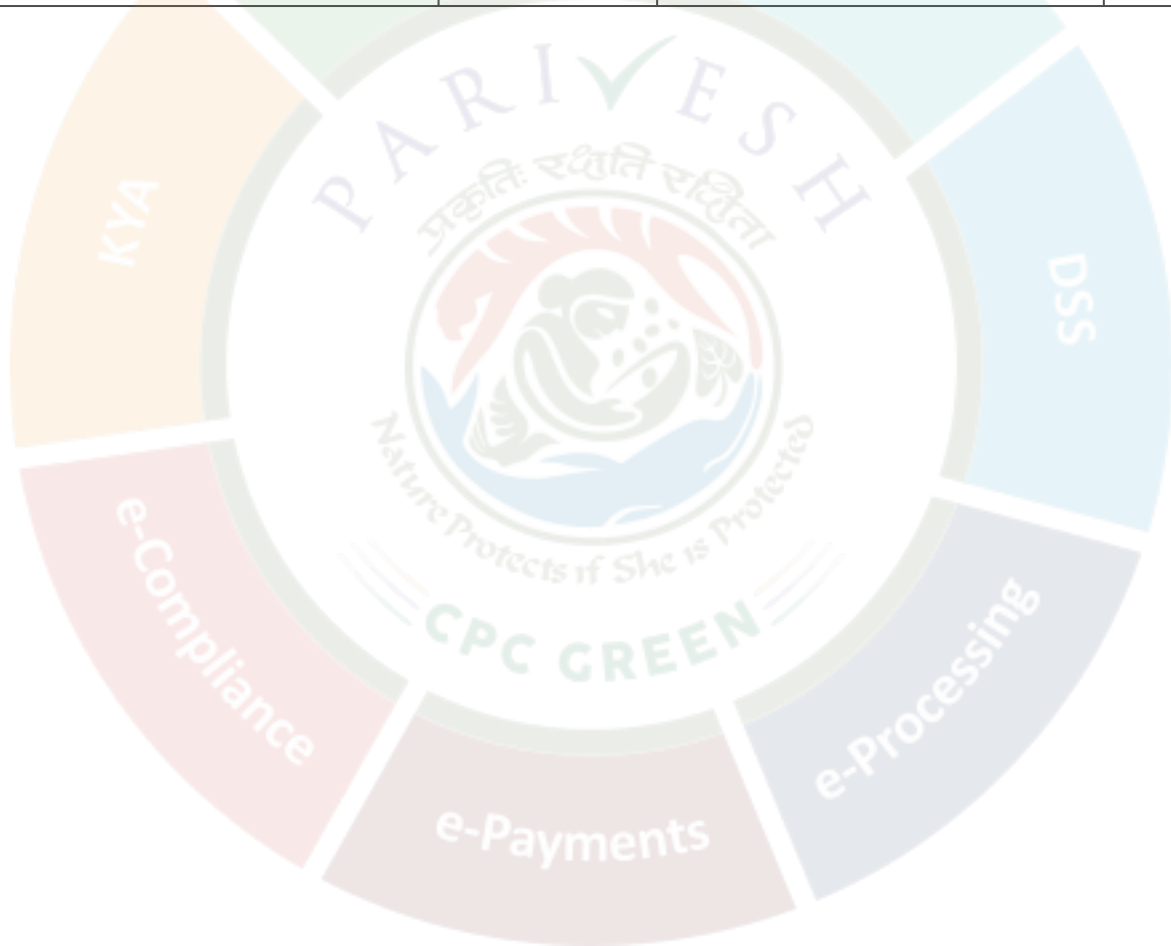
4. Any Other Item(s)

N/A

5. List of Attendees

Sr. No.	Name	Designation	Email ID	Remarks
1	Dr Dinesh Misra	IFS (Retired)	dmi*****@gmail.com	
2	Sh Niranjana Kumar Vasu	Member (EAC)	vas*****@gmail.com	
3	Dr Asha Rajvanshi	Member (EAC)	ash*****@gmail.com	
4	Shri Avijit Gosh	Member (EAC)	avj*****@gmail.com	
5	Shri Bandi Ramchandra Reddy	Member (EAC)	red*****@gmail.com	

6	Prof Pramod Kumar	Member (EAC)	nit*****@yahoo.com	
7	Prof Devesh Walia	Member (EAC)	dev*****@gmail.com	
8	Dr Suresh Tiwari	Member (EAC)	smb*****@gmail.com	
9	Dr K G Asha Manjari	Member (EAC)	kim*****@gmail.com	
10	Prof Dev Dutt Sharma	Member (EAC)	dds***@gmail.com	
11	Shri Mohammad Niyazi	Member (EAC)	dir*****@gmail.com	
12	Mr V K Soni Representative of IMD	Member (EAC)	vij*****@imd.gov.in	
13	Dr Y G Kale Representative of IBM	Member (EAC)	ygk***@ibm.gov.in	
14	Rajeev Ranjan	Scientist E	ran*****@nic.in	



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

SUMMARY RECORD OF 33rd MEETING OF THE COMMITTEE OF THE EXPERT APPRAISAL COMMITTEE FOR ENVIRONMENTAL APPRAISAL OF NON-COAL MINING PROJECTS CONSTITUTED UNDER THE EIA NOTIFICATION, 2006.

The 33rd meeting of the Re-Constituted Expert Appraisal Committee (EAC) for Environmental Appraisal of Mining Projects (Non-Coal) of the Ministry of Environment, Forest and Climate Change was held during 9-11th September 2024 through video conference. The list of participants is annexed here with. 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 33rd EAC (Non-Coal Mining) meeting held during 9-11th September 2024.

1.1 3C2 Limestone Block (Auctioned Block) for Limestone mining with the Production Capacity of 2.50 MTPA, OB/IB/Waste 2.80 MTPA, Top Soil: 0.38 MTPA (Total Excavation 5.68 MTPA) along with Installation of Crusher 1600 TPH with Wobbler in the mine lease area of 386.0215 Ha by M/s. JSW Cement Ltd located at Villages Harima & Deh, Tehsil Nagaur & Deh, District Nagaur, Rajasthan.

[Online Proposal No. IA/RJ/MIN/486473/2024; F.No. IA-J-11015/49/2023-IA-II(NCM), EIA Consultant J.M. EnviroNetPvt. Ltd] – Amendment of Terms of Reference dated 15.01.2024 reg.

Minutes of the meeting and agenda number	Corrigendum required in the minutes of the 32nd EAC meeting held during 12-13th August, 2024	Recommendation of EAC
32 nd EAC meeting held during 12-13 th August 2024 & Agenda number 2.5, Paragraph no. 2, 5 th Column of the mentioned table.	The proposed 3D1 Limestone Block is auctioned block.	The proposed 3C2 Limestone Block is auctioned block.

1.2 3C1 Limestone Block (Auctioned Block) for Limestone mining with Production Capacity: 1.45 MTPA, OB/IB/Waste: 0.52 MTPA, Top Soil: 0.07 Million TPA (Total Excavation: 2.04 Million TPA) along with installation of Crusher of 1600 TPH with Wobbler in the mine lease area of 300.7284 ha by M/s. JSW Cement Limited located at Villages: Harima, Bhadana&Deh, Tehsil: Nagaur&Deh, District: Nagaur, Rajasthan.

[Online Proposal No: IA/RJ/MIN/485456/2024; F.No. IA-J-11015/50/2023-IA-II(NCM), EIA Consultant: J.M. EnviroNet Pvt. Ltd] – Amendment of Terms of Reference dated 15.01.2024 reg.

Minutes of the meeting and agenda number	Corrigendum required in the minutes of the 32ndEAC meeting held during 12-13th August, 2024	Recommendation of EAC
32 nd EAC meeting held during 12-13 th August 2024 & Agenda number 2.6, Paragraph no. 1.	The instant proposal is for Amendment of Terms of Reference issued on 15.01.2024 for 3C2 Limestone Block (Auctioned Block) for Limestone mining with the Production Capacity of 2.50 MTPA, OB/ IB/ Waste 2.80 MTPA, Top Soil: 0.38 MTPA (Total Excavation 5.68 MTPA) along with Installation of Crusher 1600 TPH with Wobbler in the mine lease area of 386.0215 Ha by M/s JSW Cement Ltd located at Villages Harima & Deh, Tehsil Nagaur & Deh, District Nagaur, Rajasthan.	The instant proposal is for Amendment of Terms of Reference issued on 15.01.2024 for 3C1 Limestone Block (Auctioned Block) for Limestone mining with Production Capacity: 1.45 MTPA, OB/ IB/ Waste: 0.52 MTPA, Top Soil: 0.07 Million TPA (Total Excavation: 2.04 Million TPA) along with installation of Crusher of 1600 TPH with Wobbler in the mine lease area of 300.7284 ha by M/s. JSW Cement Limited located at Villages Harima, Bhadana & Deh, Tehsil Nagaur & Deh, District Nagaur, Rajasthan.

1.3 Padhiarka and Doliya Limestone mine of M/s Nirma Limited for mining of Limestone with production capacity of 1.5 MTPA in the mine lease area of 332.24 ha, located at Villages Padhiarka & Doliya, Tehsil Mahuva, District Bhavnagar, Gujarat.

[Online Proposal No. IA/GJ/MIN/443206/2023, F. No. J-11015/154/2016-IA. II(M), EIA Consultant: M/s Centre for Envotech and Management Consultancy Pvt. Ltd] – Environmental Clearance reg.

Minutes of the meeting and agenda number	Corrigendum required in the minutes of the 32 nd EAC meeting held during 12-13 th August, 2024	Recommendation of EAC
32 nd EAC meeting held during 12-13 th August, 2024 & Agenda number 1.4 Para 3 point iii.	iii. PP shall use only the surface miner- and ripper dozer for mining purposes and an implementation report to be submitted to Ministry's Regional Office within six months. As committed by the Project Proponent during the Presentation drilling/ blasting methods will not be followed.	iii. PP shall use only surface miner and ripper dozer <i>for rock breaking purposes</i> and an implementation report <i>regarding the same</i> to be submitted to Ministry's Regional Office within six months. As committed by the Project Proponent during the presentation in EAC, drilling and blasting will not be used.
32 nd EAC meeting held during 12-13 th August, 2024 & Agenda number 1.4 Para 3 Point viii.	viii. The Project Proponent needs to install the permanent water sprinklers along the haul road and the approach road. Further, 10 nos. of fog canon/ mist sprayer of atleast 40 m throw shall be installed at various locations in the mine area. Effective dust suppression system shall also be adopted at other parts of the mining lease to arrest the fugitive dust emission.	viii. The Project Proponent needs to install the permanent water sprinklers along the haul road and the approach road in addition to mobile water tankers. Further, 10 nos. of fog canon/mist sprayer of at least 40 m throw shall be installed at various locations in the mine area. Effective dust suppression system shall also be adopted at other parts of the mining lease to arrest the fugitive dust emission.
32 nd EAC meeting held during 12-13 th August, 2024 & Agenda number 1.4 Para 3 Point xiii.	xiii. The Project Proponent should adopt the proper mitigation measures as proposed under EMP with the budget of Rs. 0.3980 Crores (Capital cost) and 31.47 Lakhs/Annum (Recurring cost). 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 personnel. The implementation status of the same shall be submitted to the Ministry's Regional Office. The Project Proponent should establish in house (at project site) environment	xiii. The Project Proponent should adopt the proper mitigation measures as proposed under EMP. 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 personnel. The implementation status of the same shall be submitted to the Ministry's Regional Office. The Project Proponent should establish in house (at project site) environment laboratory for

	laboratory for measurement of environment parameters with respect to air quality and water (surface and ground). A dedicated team to oversee environment management shall be setup at site, which should comprise of Environment Engineers, Laboratory chemist and staff for monitoring of air, water quality parameters on routine basis instead of engaging environment monitoring laboratories/consultants. Any non-compliance or infringement should be reported to the concerned authority.	measurement of environment parameters with respect to air quality and water (surface and ground). A dedicated team to oversee environment management shall be setup at site, which should comprise of Environment Engineers, Laboratory chemist and staff for monitoring of air, water quality parameters on routine basis instead of engaging environment monitoring laboratories/consultants. Any non-compliance or infringement should be reported to the concerned authority.
32 nd EAC meeting held during 12-13 th August, 2024 & Agenda number 1.4 Para 3 Point xxv.	xxv. PP needs to comply the OM dated 27.07.2024, where it is categorically stated that the plantation of saplings shall be carried out in the earmarked 33% greenbelt area as part of the tree plantation campaign एक पेड़ माँ के नाम .	xxv. PP needs to comply the OM dated 24.07.2024 of MoEFCC, where it is stated that the plantation of saplings shall be carried out in the earmarked 33% greenbelt area as part of the tree plantation campaign “EK Ped Ma ke Naam” (एक पेड़ माँ के नाम) and the details of the same shall be uploaded in the MeriLife portal(https://merilife.nic.in).

1.4 Vangar & Madhiya Limestone Mine of M/s Nirma Limited for mining of Limestone with production capacity of 1.6 MTPA in the mine lease area of 612.1336 ha, located at Villages Vangar & Madhiya, Tehsil Mahuva, District Bhavnagar, Gujarat.

[Online Proposal No: IA/GJ/MIN/443498/2023; F.No: J-11015/152/2016-IA.II (M), EIA Consultant: M/s Centre for Envotech and Management Consultancy Pvt. Ltd] - Environmental Clearance reg.

Minutes of the meeting and agenda number	Corrigendum required in the minutes of the 32nd EAC meeting held during 12-13th August, 2024	Recommendation of EAC
32 nd EAC meeting held during 12-13 th August, 2024 & Agenda number 1.5 Para 3 point iii.	iii. PP shall use only the surface miner- and ripper dozer for mining purposes and an implementation report to be submitted to Ministry's Regional Office within six months. As committed by the Project Proponent during the Presentation drilling/ blasting methods will not be followed.	iii. PP shall use only surface miner and ripper dozer for rock breaking purposes and an implementation report regarding the same to be submitted to Ministry's Regional Office within six months. As committed by the Project Proponent during the presentation in EAC, drilling and blasting will not be used.
32 nd EAC meeting held during 12-13 th August, 2024 & Agenda number 1.5 Para 3 Point viii.	viii. The Project Proponent needs to install the permanent water sprinklers along the haul road and the approach road. Further, 10 nos. of fog canon/ mist sprayer of atleast 40 m throw shall be installed at various locations in the mine area. Effective dust suppression system shall also be adopted at other parts of the mining lease to arrest the fugitive dust emission.	viii. The Project Proponent needs to install the permanent water sprinklers along the haul road and the approach road in addition to the mobile water tankers. Further, 10 nos. of fog canon/ mist sprayer of atleast 40 m throw shall be installed at various locations in the mine area. Effective dust suppression system shall also be adopted at other parts of the mining lease to arrest the fugitive dust emission.
32 nd EAC meeting held during 12-13 th August, 2024 & Agenda number 1.5 Para 3 Point xiii.	Xiii. The Project Proponent should adopt the proper mitigation measures as proposed under EMP with the budget of Rs. 0.3980 Crores (Capital cost) and 31.47 Lakhs/Annum (Recurring cost). 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 personnel. The implementation status of the same shall be submitted to the Ministry's Regional Office. The Project Proponent should establish in house (at project site) environment	xiii. The Project Proponent should adopt the proper mitigation measures as proposed under EMP. 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 personnel. The implementation status of the same shall be submitted to the Ministry's Regional Office.

	laboratory for measurement of environment parameters with respect to air quality and water (surface and ground). A dedicated team to oversee environment management shall be setup at site, which should comprise of Environment Engineers, Laboratory chemist and staff for monitoring of air, water quality parameters on routine basis instead of engaging environment monitoring laboratories/consultants. Any non-compliance or infringement should be reported to the concerned authority.	
32 nd EAC meeting held during 12-13 th August, 2024 & Agenda number 1.5 Para 3 Point xxv.	xxv. PP needs to comply the OM dated 27.07.2024, where it is categorically stated that the plantation of saplings shall be carried out in the earmarked 33% greenbelt area as part of the tree plantation campaign एक पेड़ माँ के नाम .	xxv. PP needs to comply the OM dated 24.07.2024 of MoEFCC, where it is stated that the plantation of saplings shall be carried out in the earmarked 33% greenbelt area as part of the tree plantation campaign “EK Ped Ma ke Naam” (एक पेड़ माँ के नाम) and the details of the same shall be uploaded in the MeriLife portal (https://merilife.nic.in).

1.4 Gujarda, Dudheri&Dudhala Limestone Mine of M/s Nirma Limited for mining of Limestone with production capacity of 2.7 MTPA in the mine lease area of 681.62 ha, located at Villages Gujarda, Dudheri&Dudhala, Tehsil Mahuva, District Bhavnagar, Gujarat.

[Online Proposal No: IA/GJ/MIN/443968/2023, F. No. J-11015/153/2016-IA. II(M), EIA Consultant- M/s Centre for Envotech and Management Consultancy Pvt. Ltd] - Environmental Clearance (EC) reg.

Minutes of the meeting and agenda number	Corrigendum required in the minutes of the 32nd EAC meeting held during 12-13th August, 2024	Recommendation of EAC
32 nd EAC meeting held during 12-13 th August 2024 & Agenda number 1.6 Para 3 point iii.	iii. PP shall use only the surface miner- and ripper dozer for mining purposes and an implementation report to be submitted to Ministry's Regional Office within six months. As committed by the Project Proponent during the Presentation drilling/ blasting methods will not be followed.	iii. PP shall use only surface miner and ripper dozer for rock breaking purposes and an implementation report regarding the same to be submitted to Ministry's Regional Office within six months. As committed by the Project Proponent during the presentation in EAC, drilling and blasting will not be used
32 nd EAC meeting held during 12-13 th August, 2024 & Agenda number 1.6 Para 3 Point viii.	viii. The Project Proponent needs to install the permanent water sprinklers along the haul road and the approach road. Further, 10 nos. of fog canon/ mist sprayer of atleast 40 m throw shall be installed at various locations in the mine area. Effective dust suppression system shall also be adopted at other parts of the mining lease to arrest the fugitive dust emission.	viii. The Project Proponent needs to install the permanent water sprinklers along the haul road and the approach road in addition to the mobile water tankers. Further, 10 nos. of fog canon/mist sprayer of atleast 40 m throw shall be installed at various locations in the mine area. Effective dust suppression system shall also be adopted at other parts of the mining lease to arrest the fugitive dust emission.
32 nd EAC meeting held during 12-13 th August, 2024 & Agenda number 1.6 Para 3 Point xiii.	Xiii. The Project Proponent should adopt the proper mitigation measures as proposed under EMP with the budget of Rs. 0.3980 Crores (Capital cost) and 31.47 Lakhs/Annum (Recurring cost). 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 personnel. The implementation status of the same shall be submitted to the Ministry's Regional Office. The Project Proponent should establish in house (at project site) environment	xiii. The Project Proponent should adopt the proper mitigation measures as proposed under EMP. 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 personnel. The implementation status of the same shall be submitted to the Ministry's Regional Office. The Project Proponent should establish in house (at project site) environment laboratory for

	<p>laboratory for measurement of environment parameter with respect to air quality and water (surface and ground). A dedicated team to oversee environment management shall be setup at site, which should comprise of Environment Engineers, Laboratory chemist and staff for monitoring of air, water quality parameters on routine basis instead of engaging environment monitoring laboratories/consultants. Any non-compliance or infringement should be reported to the concerned authority.</p>	<p>measurement of environment parameter with respect to air quality and water (surface and ground). A dedicated team to oversee environment management shall be setup at site, which should comprise of Environment Engineers, Laboratory chemist and staff for monitoring of air, water quality parameters on routine basis instead of engaging environment monitoring laboratories/consultants. Any non-compliance or infringement should be reported to the concerned authority.</p>
<p>32nd EAC meeting held during 12-13th August, 2024 & Agenda number 1.6 Para 3 Point xxv.</p>	<p>xxv. PP needs to comply the OM dated 27.07.2024, where it is categorically stated that the plantation of saplings shall be carried out in the earmarked 33% greenbelt area as part of the tree plantation campaign एक पेड़ माँ के नाम .</p>	<p>xxv. PP needs to comply the OM dated 24.07.2024 of MoEFCC, where it is stated that the plantation of saplings shall be carried out in the earmarked 33% greenbelt area as part of the tree plantation campaign “EK Ped Make Naam” (एक पेड़ माँ के नाम) and the details of the same shall be uploaded in the MeriLife portal (https://merilife.nic.in) .</p>

Day 1: 9th September, 2024 (Monday)

1.1 Farhatabad Limestone Mine for mining of Limestone with production capacity of 6.0 MTPA, Top Soil 0.14 MTPA, Overburden 1.21 MTPA (Total Excavation 7.35 MTPA) in the ML area of 1445.83 ha and Installation of 2 x 1200 TPH Crushers along with Wobbler by Shree Cement Limited located at Villages Balwad, Tilgul, Kirangi & B. Saradgi Taluka & District Kalaburagi (Karnataka). - Environmental Clearance reg.

[Online Proposal No. IA/KA/MIN/491393/2024; File No. IA-J-11015/6/2021- IA-II (M), Consultant - J. M. Environet Pvt. Ltd.]

The instant proposal is for Environmental Clearance for Farhatabad Limestone Mine for mining of Limestone with production capacity of 6.0 MTPA, Top Soil 0.14 MTPA, Overburden 1.21 MTPA (Total Excavation 7.35 MTPA) in the ML area of 1445.83 ha and Installation of 2 x 1200 TPH Crushers along with Wobbler by Shree Cement Limited located at Villages Balwad, Tilgul, Kirangi & B. Saradgi Taluka & District Kalaburagi (Karnataka).

2. The details of the project as per the document submitted by the Project Proponent are given as under:

- i. The mine lease area is located between Latitude 17⁰06'49.4" N to 17⁰09'59.9" N and Longitude 76⁰47'55.4" E to 76⁰50'07.9" E. The mine lease area falls under the Survey of India Topo sheet No. 56 C/16 and falls in Seismic Zone III.
- ii. As per the EIA Notification dated 14th September, 2006 as amended thereof, the project falls under Category "A" as the mining lease area is greater than 250 ha, project or Activity 1(a) for "Mining of Mineral" and 2(b) "Mineral Beneficiation", and therefore project is being considered at central level.
- iii. Details of Mine Lease:

S.no	Prospecting License/ Letter of Intent (LoI)/ Grant of Mine lease and Lr No	Date of the grant	Name of the Mineral & (Major/ Minor)	Period of Grant	Granted by	Mine lease area in Ha
1.	Grant of prospecting license in favor of Shree Cement Limited	31.08.2007	Limestone	2 years	Government of Karnataka	1750
2.	Grant of Mining Lease in favor of Shree Cement Limited	03.12.2019	Limestone	50 years	Government of Karnataka	1445.83

S. No.	Details of grant of Mine Lease deed execution	Period of Grant		Name of the Mineral	Mine lease area in Ha
		From	To		
1.	<ul style="list-style-type: none"> Government of Karnataka sanctioned the prospecting license over an area of 17.5 sq. kms. (1750 ha.) through grant order No. DMG/MLS/75/APL/200708/7030 dated 31.08.2007. The Prospecting License No. 3364 was executed on dated 20.11.2007 for the period of two years and the same was registered on 12.12.2007. Mining lease over an area of 1445.83 Ha has been granted by Government of Karnataka vide order no CI 97 CMC 2018 Bengaluru, dated 03.12.2019 for a period of 50 years under section 10A (2)(b) of MMDR Act, 1957. 				

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

Private land	1416.903(Pvt. Land 1163.36 ha and 253.543 ha land is Industrial Land)
Government land	28.927
Forest Land	-
Total Mining lease area (MLA), Ha	1445.83
Private land for crusher, workshop & other infrastructure outside the MLA	No infrastructure is proposed outside the ML area
Additional information (if any)	-

v. Mining plan details:

Mining Plan including Progressive Mine Closure Plan (approved by Indian Bureau of Mines/DMG)	Letter No.	279/1107/2020/BNG/527
	Date	19.10.2020
	Mineral (Major/Minor)	Major
	Mine Lease Area, Ha	1445.83 ha
	Validity	5 years
Mining Parameters	Quantitative Description	
Method of Mining	Opencast Fully Mechanized Mining Method	
Drilling/Blasting	Drilling Parameter:	
	Bench height	12 meters.
	Depth of drill hole	12 meters.
	Drill hole dia	150-165 mm
	Burden	4 - 6 meters.
	Spacing	5 – 7 meters.
	Inclination with respect to horizontal	Vertical

	Sub grade drilling	Not required. (The use of bottom initiation blasting system and bottom air deck technology, there will be no need of sub grade drilling)
	Blasting Parameter:	
	Parameters	Details
	Depth of hole	12 m
	Diameter of hole	150 mm to 165 mm
	Burden	4.0m – 5.0m
	Spacing	6.0m – 7.0m
	Sub grade drilling	Nil
	Charge of explosive per hole	80 Kg – 100 Kg
	Maximum No. of Hole Per Blast	120 Nos.
	Powder factor	9 tonne of rock per Kg of explosive
	Type of explosive to be used	Slurry explosives & ANFO
	Explosive requirement for rock handling of 1810100 tonnes per Annum	1810100 tonnes / 9 (Kg per Tonne Powder Factor) = 201122 Kg of Explosive or 201 tonnes of explosive per annum Slurry Explosive (20%) = 40 tonnes ANFO (80%) = 161 tonnes
	Initiation	Bottom initiation by the use of down line detonator in combination of noise less trunk line detonator on surface
Geological Reserves	456 Million Tonnes	
Mineable Reserves	261 Million Tonnes	
Breakup of Total Excavation (Topsoil/OB/SB/IB/Mineral Rejects/ Waste, MTPA)	Limestone Production Capacity 6.0 Million TPA, Inter Burden 1.21 Million TPA, Top Soil 0.14 Million TPA (Total Excavation 7.35 Million TPA)	
Life of mine	~ 49 years	
Mine Bench Height & Bench Width	Bench Height – 12 m Bench Width - 30 m (Working)	
No. of Mine Benches	4	
Existing Depth, m bgl	-	

Ultimate Depth of Mining, m bgl	364 m RL (36 m bgl)		
Ground Water Table, m bgl	Pre-Monsoon: 383-381 m RL (18-20 m bgl) Post monsoon: 386-383 m RL (15-18 m bgl)		
Details of ground water intersection	Ultimate working depth of the mining operation will be up to 36 m and water table in the area is varies from 15 to 20 m. Ground water level will be intersected due to mining activities in the 10th Year. Necessary permission will be taken before intersection of ground water table		
Individual bench slope	80°		
Overall pit slope	45°		
Details of existing/ proposed Crusher	Crusher of 2 X 1200 TPH capacity along with Wobbler proposed within the mining lease area.		
Mineral Beneficiation	The ROM Limestone will be fed to Crusher Wobbler (Primary Screening method) where >90 mm (1.25 m) part is fed into crusher, where it is crushed to <90 mm size. The <90 mm size from Crusher Wobbler is fed to Secondary screen (Double deck screen) from where (<6mm and <10mm) part is rejected, while + size material is added to Crushed <90 mm Limestone		
RoM output size	<90mm		
Transportation details including capacity of dumper/tipper, mode of transport and distance	Excavated limestone will be transported to the crusher via dumpers and crushed limestone will be transported to the proposed Cement Plant adjacent to mine site by covered conveyor belt. It will be a covered Conveyor belt of length 1.5 km and Conveyor corridor width of ~5 to 10 m.		
Generation of Topsoil/OB & its Management during plan period & conceptual period	Particulars	Top Soil generation and management	OB generation and management
	Plan period:	0.1032 million tonnes of soil will be generated during plan period which will be used for greenbelt and plantation	0.5805 million tonnes of OB will be generated during plan period which will be dump in temporary dump storage

	Conceptual stage:	At conceptual stage, 5.12 Million Tonne Topsoil will be generated which will be used for greenbelt and plantation	47.2 Million Tonne will be generated which will be backfilled in 311.01 ha of the excavated area up to 12.5 m height that will be reclaimed by plantation
Generation of Mineral Rejects/ Waste & its Management during plan period & conceptual period	-		
Additional information (if any)	None		

vi. Water requirement

Total water requirement	250 KLD	Fresh Water	250
		Treated water	0
Source	Ground water, Bhima River and rain water collected in mine sump		
Permission for withdrawal/ intersection along with details of grant and its validity	<p>Ground Water withdrawal permission for 250 KLD was issued by Karnataka Ground Water Authority, Bengaluru (Karnataka) vide letter no. DE0011421056503, dated 22.12.2022 and valid up to 2 years i.e. 21.12.2024.</p> <p>Application for withdrawing 500 KLD water from Bhima River was submitted to Executed Engineer, Kalaburagi vide letter no SCL/KAR/PROJ/FTD/2015-16/222 dated 19.06.2015.</p>		

vii. Nearest village/town/ highway/interstate boundary/railway station/water bodies/monument/ forest

Particulars	Particular's Name	Directions
Nearest village	<ul style="list-style-type: none"> Habitation of Village- Balwad is exist in the excluded portion of surrounded by mining lease area; safety barrier of 300-meter periphery of the village habitation has been left. Habitation of Village- Tilgul is about 300 m in NNE direction 	
Nearest Town	Farhatabad Town	~1.5 km in North direction

Nearest State/National Highway	<ul style="list-style-type: none"> NH- 218 SH - 125 	<ul style="list-style-type: none"> (~0.05 km in West direction) (~2.0 km in SSE direction)
Interstate Boundary	None	None
Railway Station/Railway line	Martur	~9.5 km in NE direction
Water Bodies	Bhima River	~2.0 Km in West direction
	Dargahhalla	~2.5 Km in SSW direction
	Jevargihalla	~8.5 Km in SSW direction
	Nandanhalla	~9.5 Km in ENE direction
	Gade Karana halla	~9.5 Km in SSE direction
	Are halla	~9.5 Km in South direction
	Kattahalla	~10.0 Km in SSE direction
Forest	None within 10 km radius of the mining lease area.	

viii. Presence of Environmentally Sensitive areas in the study area

Forest Land / Protected Area / Environmental Sensitivity Zone	Yes/No	Details of Certificate/letter issued by the concerned Department mentioning the Lr no, date of grant and remarks
Forest Land within the mine lease area and (if yes) status of Forest Clearance	No	No Forest land involved in mining lease area. Certificate for the same has been received from Principal Chief Conservator of Forests (Wildlife) & Chief Wildlife Warden, Karnataka vide letter no PCCF/WL/D/CR-29/2020-21 dated 31.07.2021.
National Park	No	No National Park, Wildlife Sanctuary, Elephant/Tiger Reserve, Eco-Sensitive Zone (ESZ) /Eco-Sensitive Area (ESA) exist within 10 km radius study area. Certificate for the same has been received from Principal Chief Conservator of Forests (Wildlife) & Chief Wildlife Warden, Karnataka vide letter no PCCF/WL/D/CR-29/2020-21 dated 31.07.2021.
Wildlife Sanctuary	No	
Elephant/Tiger Reserve	No	
Eco-Sensitive Zone (ESZ) /Eco-Sensitive Area (ESA)	No	
Coastal Regulation Zone (CRZ)	No	--
Schedule-I species (Nos and name of schedule-I species with authenticated letter)	Yes	11 schedule I Species found in the study area. Authenticated list along with Wildlife conservation plan for an amount of Rs. 116.40 Lakh has been approved by CWLW vide letter NoPCCF/WL/D/CR-60/2022-23 (797239) dated 29.06.2024
Wildlife Conservation Plan	Yes	

ix. Green belt/Plantation details:

Proposed area for green belt/plantation and no. of saplings proposed	<ul style="list-style-type: none"> • <u>Greenbelt</u>: Total mining lease area is 1445.83 ha. Out of which, Greenbelt will be done on 16.24 Ha area on 7.5 m safety zone of lease boundary, which will be done in 1 year after initiating work at site. • Total greenbelt & plantation will be done on 477.12 ha area, in which greenbelt will be done on 16.24 ha area on 7.5 m safety zone of lease boundary and Plantation will be done on 149.87 ha area on safety barrier along habitation and other mining constraints etc. and 311.01 Ha of backfilled will be reclaimed by plantation The trees will be planted @ 1200 saplings per ha of land. The backfilled area of 311.01 ha is proposed to be reclaimed by plantation <p><u>Budget</u>: Rs. 4.0 crore</p>
Budget for green plant & plantation till the end of life of mine.	
Budget for nursery	
Details of existing plantation and its survival rate	
No. of tree cuts in the mine lease area and compensatory afforestation	-
Particulars for Green belt/plantation	Area covered (in Ha)
7.5m barrier & non-mineralized zone	<ul style="list-style-type: none"> • 16.24 ha on 7.5 m lease periphery • 149.87 ha on Safety Zones i.e. Village Abadi, Nallahs, Roads etc • 311.01 ha on Backfilled Area
50 m safety zone of nallah, roads, electric lines	
500 m safety zones of nearest habitation villages	

x. Baseline detail

Baseline Data (Air / Water / Noise / Soil / Hydro geological study/ Traffic Study/ others)	
Period of baseline data collection	December., 2023 to February., 2024
Season (Summer / Pre-monsoon / Post-monsoon / Winter)	Winter Season
Predominant Wind direction (From)	Wind pattern for the study periods was from east direction that mean downwind direction is west. Habitation of village B. saradgi falls in downwind direction.

Ambient Air Quality (no. of locations) and results	11
Noise level (no. of locations) and results	11
Water Quality (no. of locations) and results	03 (Surface water) and 8 (Ground water)
Soil Quality (no. of locations) and results	8
Hydro geological study and results	Hydro-geological study has been done and submitted with Final EIA/EMP Report
Traffic study (no. of locations) and results	No public road will be used for transportation of Limestone. Therefore, traffic study is not required

xi. Public Hearing (PH) Details

Advertisement for PH with date	HosaDigantha, Deccan Herald & Sanje Vani on 14.06.2023
Date of PH	14.07.2023 at 02:30 PM
Venue	Sy. No. 10 of Project Site
Chaired by	<ul style="list-style-type: none"> Ms. Fouzia Taranum B, I.A.S, Deputy Commissioner, Kalaburagi District Shri C.N. Manjappa, Environment Officer, Regional Office, KSPCB, Kalaburagi
Main issues raised during PH	Infrastructure development, Employment, health, education and sustainable development, electricity, Environment Management etc
Budget proposed for addressing issues raised during PH	Rs. 10.35 Crore

xii. Rehabilitation & Resettlement:

R & R details	<ul style="list-style-type: none"> The limestone mining activities will be carried out within the mining lease area of 1445.83 ha. Mining lease area falls in revenue villages Balwad, Tilgul, Kirangi & B. Saradgi. Out of the total mine lease area, 28.927 ha area is Government Land & 1416.903 ha is Private Patta land. Out of total private land, 701.526 ha private land is owned by SCL. As per khasra details there are 498 project affected families, out of which 266 PAFs land has been acquired, and there are 232 PAFs whose land to be acquired and houses are falling within ML area. However, 232 PAFs having land only within ML area, and 11 houses are falling within ML area (at Balwad village on Govt. land), they falling on safety zone so they will not to be displaced due to mining activities R&R plan has been prepared and submitted with Final EIA/EMP Report
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xiii. Court case details:

Court Case	Supreme Court Order dated 10.07.2023 in the matter of SLP filed by State Govt. in case of similar matter of Dalmia Cement. It has been stated in the order that "Insofar as Dy. No. 15548/2023 (SLP filed by State Govt. in the matter of SCL), since it is stated that certain proceedings are pending before the Competent Authority, there would be no impediment for the proceedings to continue.
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xiv. Affidavit/Undertaking details:

Affidavit as per Ministry's OM dated 30.05.2018	Affidavit in accordance with the statutory requirement & judgment of Hon'ble Supreme Court dated 2 nd August 2017 in w.r.t. Petition (Civil) No. 114 of 2014 in the matter of common cause versus Union of India & Ores has been submitted.
Undertaking by Project Proponent in EIA/EMP report	The Project Proponent has submitted an undertaking vide letter dated 05.08.2024.
Undertaking by Consultant in EIA/EMP report	The Consultant has submitted an undertaking vide letter dated 03.08.2024
Plagiarism Certificate	Certificate of Plagiarism check has been submitted in the EIA-EMP report.

xv. Details of the Environmental Management Plan (EMP)

S. No.	Activities	Capital Cost (In Lakhs)	Recurring Cost (In Lakhs)
I	EMP for Pollution Control & Monitoring		
A.	Air Quality Monitoring and Management		
Mitigative Measures			
1	Permanent water sprinkling arrangements for main haulage road	50	5
2	Four water tanker for water sprinkling in other roads and mining areas/activities.	50	5
3	Operation & Maintenance of Motor Grader & Soil Compactor for haul road maintenance	-	10
4	Pollution Control Device (Bag filter at Crusher) Equipment and its installation Cost, Operation & Maintenance	90	10
5	Plantation / Re-grassing in backfilled area of 311.01 ha with total 3,73,212 saplings from 6 th year onwards upto the life of mine	261.24	13
6	Plantation on safety zones around village Abadi, Nala& road area covering 149.87 ha with total 1,79,844 saplings from 6 th year onwards upto the life of mine	125.89	6.5

S. No.	Activities	Capital Cost (In Lakhs)	Recurring Cost (In Lakhs)
7	Green belt around 7.5 m periphery covering an area of 16.24 ha with total saplings of 19,488 from 1 st to 5 th year	13.64	0.7
Monitoring			
1	4 Ambient Air Quality Monitoring Stations at Mine Site (one online and 3 manual) at Villages: Balwad, Tilgul, Kirangi & B. Saradgi and display board at Mines Main Gate	65	5
2	Fugitive dust emission monitoring (5 locations * monthly)	-	2.25
3	Personal Dust Monitoring (5 locations * Quarterly)	-	0.25
Sub Total A.		655.77	57.7
B. Water Quality Monitoring and Management			
Mitigative Measures			
1	Garland Drain around waste dump (L*W*D = 370 m x 1 m x 1.5 m)	1.8	0.1
2	Retaining Wall around waste dump (L*W*D = 354 m x 1 m x 1 m)	11.43	0.1
3	Channelized Catch Drains	20	0.5
4	5 nos. of Settling Tank / Sedimentation Pond (L*W*D = 4 m x 4 m x 5 m)	1.25	0.25
5	Construction of Protective Bunds along the water reservoir	20	0.5
6	Construction of 5 nos. of Check Dams (L*W*D = 6 m x 6 m x 3 m) (@ Rs. 4 lacs per Check Dam) and its annual maintenance	20	2.5
Monitoring			
1	Installation of 3 Piezometers along the periphery in the premises	4.75	0.4
2	Ground water quality analysis (4 locations * 4 times in a year)	-	0.4
3	Raw water analysis (PZ wells) (4 locations * 4 times in a year)	-	0.4
4	Surface Water Quality Analysis (Upstream and downstream of Bhima River & Mine Sump) - 4 samples * half yearly	-	0.25
5	Workshop Waste Water Quality Analysis (monthly) as well as maintenance of oil-water separators	-	1
Sub Total B.		79.23	6.4
C. Noise and Vibration Monitoring and Management			
Mitigative Measures			
1	Procurement of one Blast Vibration Measuring Instrument	5.00	-
Monitoring			
1	Peak Particle Velocity Monitoring for nearest habitation i.e., Balwad, Tilgul, Kirangi & B. Saradgi Village	-	1

S. No.	Activities	Capital Cost (In Lakhs)	Recurring Cost (In Lakhs)
2	Ambient Noise Monitoring (4 locations * monthly frequency)	-	0.5
3	Work Place Noise Level Monitoring (4 Locations * quarterly frequency)	-	0.2
4	Personal Noise Monitoring (4 Locations * quarterly)	-	0.2
5	Providing Ear muffs/plus to workers working in high noise area	-	0.5
Sub Total C.		5.00	2.4
D.	Miscellaneous		
1	Digital mapping of entire mine area once in three years (Rs. 1.5 Lacs once in 3 years)	-	1.5
2	Occupational Health Check-up of Mines Employees	10	2
3	Others, if any	-	5
Sub Total D.		10.00	8.5
Grand Total (A+B+C+D)		750.00	75.00

xvi. Details of project cost and employment:

Particulars	Budget (Rs. in Crores)
Total Cost for EMP (Capital Cost of EMP + Capital cost of Public hearing)	Capital Cost: Rs. 19.01 Crores Recurring cost: Rs. 0.75 Crore
Project Cost	Rs. 654.47 Crores
Employment	237 persons

3. Observation and Recommendation of the Committee:

The Project Proponent/Consultant delivered a presentation and explained the key site features using a KML file, highlighting elements such as the existing villages located within the Mining Lease (ML) area and the highway passing adjacent to the ML area.

The Committee noted that the public hearing was conducted after the issuance of the ToR. It was further observed that four seasonal streams (Nallas) enter the Mining Lease (ML) area, with one stream flowing outside the ML area and merging into the Bhima River. Additionally, the village of Balwad is surrounded by the ML area, while Tilgul village is located 300 meters from the ML boundary. A connecting road between B. Saradgi village and Balwad village, with a length of 1.35 km, lies to the northwest of the ML area.

Two schools, Government LPS Balwad and Government HPS Tilgul, are situated in close proximity to the ML area. Furthermore, National Highway-218 passes very near to the ML area, at a distance of approximately 50 meters from the ML boundary.

The Project Proponent (PP) informed the Committee about the judgment passed by the Hon'ble High Court of Karnataka on 27/05/2022, wherein the Court directed the Respondents to take necessary steps to execute the Mine Development and Production Agreement (MDPA) and Mining Lease (ML) in favor of the Petitioner (PP) and to carry out all required actions in accordance with the law, without reference to the proviso of Section 10A(2)(b) of the Mines and Minerals (Development and Regulation) Act, 1957, as inserted via the amendment dated 28/03/2021, within a period of six weeks.

Based on this judgment, the PP submitted letters dated 31/05/2022, to the Director of the Department of Mines and Geology (DMG), Bangalore, requesting confirmation of the amount of performance security and the draft MDPA, and (b) to execute the MDPA and ML Deed. Another letter was submitted on June 2, 2022, to the Regional Controller of Mines (RCM), Indian Bureau of Mines (IBM), Bangalore, informing him of the High Court's judgment dated 27/05/2022, wherein the writ was allowed and the order dated 01/06/ 2021, by the Regional Controller of Mines (RCOM), IBM, was quashed.

The State Authorities challenged the Hon'ble HC order dated 27/05/2022 before the Hon'ble Supreme Court. The Hon'ble Court vide its order dated 10/07/2023 stated that *".....that the status quo existing as on today be continued. Insofar as Dy. No. 15548/2023 since it is stated that certain proceedings are pending before the Competent Authority, there would be no impediment for the proceedings to continue. However, the effect of the said consideration would be taken note when this petition is ultimately heard."*

During the discussions, the Committee observed that Balwad village, comprising approx. 75 households, is situated within an area of approx. 5.83 hectares, located within the ML area. The Committee emphasized the need to implement preventive measures to ensure the protection and safety of the households. It was also noted that two crushers, along with a wobbler, are planned for installation within the ML area. The Committee requested the submission of a detailed plan for the installation of the crushers and wobblers, including their connecting routes, i.e. whether the transportation of crusher ore will be by road or conveyor belt.

In view of the above discussion, Committee **deferred** the proposal for the want of following information:

- i. The Project Proponent (PP) must submit a detail protection plan to meet the basic needs of households within a portion of the ML area, including provisions for drinking water, electricity, roads, schools, and hospitals.
- ii. The PP must submit a plan to safeguard the connecting village road and the National Highway that passes in close proximity to the Mine Lease (ML) area.

- iii. The PP is required to conduct a study from a reputed government organization to develop measures for protecting the nallah passing through the ML area. Additionally, the PP must submit a certificate from the state government confirming that no other nallahs or streams traverse the ML area.
- iv. The Project Proponent must submit the Mine Lease documents, indicating the lease is in the name of M/s Shree Cement Limited.
- v. The PP must obtain and submit a Resettlement and Rehabilitation (R&R) plan approved by the District Collector.
- vi. PP must submit land acquisition plan for their project.
- vii. The PP is required to explore the feasibility of implementing surface miners for conducting mining activities near the habitation.
- viii. A detailed plan must be submitted for the installation of a permanent water sprinkler system at as many locations as possible within the ML area (DGMS member can add up)
- ix. The Project Proponent needs to submit the detailed hydro geological study for intersection of ground water table for assessing its impacts and the action plan for withdrawal and storage of water when mining intersects the groundwater table.
- x. The PP must submit a detailed Standard Operating Procedure (SoP) approved by the Directorate General of Mines Safety (DGMS) for operations in the lower benches of the ML area after the 10th year i.e after intersection of groundwater.
- xi. The PP may also explore ways so that the use of groundwater or surface water is reduced and submit report accordingly.
- xii. The PP must provide the response of their letter dated 31/05/2022, submitted to the Director, DMG, Bangalore, requesting confirmation of the performance security amount and the draft MDPA, and to execute the MDPA and ML Deed.
- xiii. The PP must provide the response to their letter dated 02/06/2022, submitted to the Regional Controller of Mines (RCM), IBM, Bangalore, informing them of the High Court judgment dated 27/05/2022, in which the writ was allowed, and the order dated 01/06/2021, by the Regional Controller of Mines (RCOM), IBM, was quashed.
- xiv. PP needs to submit an action plan for installation of ETP in the project and STP in the residential area

- xv. The Project Proponent shall provide the details of Special Pollution Control/ Abatement devices that have been installed/ proposed to be installed within the ML area and how does the technology compare with the best available technology in the field.
- xvi. PP has not submitted whether they would like to install Mist spraying/fogging arrangement and windscreen around the crusher unit.
- xvii. PP is required to submit plan for Waste Dump Handling Management along measures to protect runoff water from the dumps
- xviii. Site visit by EAC subcommittee may be conducted to see the anticipated adverse effects of mine blasting on villagers/inhabitants in the lease area.
- xix. PP is required to submit plan for generation power through solar power plan.
- xx. PP is required to install Continuous Ambient Air Quality Monitoring System (CAAQMS)

1.2 Expansion of Aniali Rana Bordi Limestone mine with the enhancement in production capacity of Limestone from 14,000 TPA to 1, 75,000 TPA in the mine lease area of 12.27 ha by M/s Tata Chemicals Limited located at Village Aniali, Tehsil Ranavav, District Porbandar, Gujarat— For Environmental Clearance reg.

[Online Proposal No. IA/GJ/MIN/213741/2017; File No. J-11015/304/2012-IA.II(M), Consultant –Min Mec Consultancy Pvt. Ltd.]

The instant proposal is for expansion of Aniali Rana Bordi Limestone mine with the enhancement in production capacity of Limestone from 14,000 TPA to 1, 75,000 TPA in the mine lease area of 12.27 ha by M/s Tata Chemicals Limited located at Village Aniali, Tehsil Ranavav, District Porbandar, Gujarat.

The mine lease area is located between Latitude 21°42'4.535"N to 21°42'24.163"N and Longitude: 69°49' 23.698"E to 69° 49' 31.769"E. The mine lease area falls under the Survey of India Toposheet No: 207/P and falls in Seismic zone-III.

2. The Project Proponent submitted an online application vide proposal no: IA/GJ/MIN/213741/2017 dated 03/06/2021, along with Form 2 and the EIA report, under the provisions of the EIA Notification, 2006. The proposed project activity is listed under Schedule no. 1(a) for Mining of Minerals and is subject to general conditions due to the proximity of Barda Wildlife Sanctuary, which is located 4.02 km northwest of the mine lease area and 112.21 meters from the Eco-Sensitive Zone (ESZ). The project falls under

Category "A" and is appraised at the central level. The details of the project as per the document submitted by the Project Proponent are mentioned below:

- i. The proposal was initially considered in the 32nd EAC Meeting held during 28th June and 1st July 2021 wherein the Project Proponent vide e-mail dated 26.06.2021 sought deferment of the proposal due to medical reasons. The annexures uploaded on PARIVESH portal with the EIA/EMP report was not legible due to which many important documents were unable to be examined. In addition, a sensitive matter of Barda Wildlife Sanctuary is involved. Therefore, the Committee deferred the proposal.
- ii. Again, the proposal was considered in the 34thEAC Meeting held during 27th to 30thJuly 2021 wherein the Committee deferred the proposal for want of requisite information. The Project Proponent submitted the information on 14.10.2021 in PARIVESH.
- iii. Accordingly, the proposal was reconsidered in the 41st EAC (Non-Coal Mining) Meeting held during 15th -16th November and 18November 2021 wherein the Committee noted that the project proponent submitted the certified compliance report dated 08.08.2019. The Committee was of the view that project proponent must submit the latest certified compliance report for appraisal for Environmental Clearance. Therefore, the Committee deferred the proposal due to want of additional information. The Project Proponent submitted the information on 30.03.2022 in PARIVESH.
- iv. Then, the proposal was reconsidered in the 49thEAC meeting held during 19th to 21stApril 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 equipment's, 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 requisite information. The Project Proponent submitted the information vide letter dated 27.07.2022 in PARIVESH on 03.08.2022 and accordingly the proposal was reconsidered in the 3rd EAC (Non-Coal Mining) Meeting held during 5th September,

2022, wherein the Committee deferred the proposal and asked to submit the requisite information. The project proponent vide letter dated 17.07.2024 the submitted information on Parivesh portal.

- v. The details of the previous Environmental Clearance (EC) are furnished as below:
 - a. Environmental Clearance for Aniali Limestone mine with production capacity of 0.014 MTPA (ROM) of Limestone in the ML area of 12.27ha by M/s Tata Chemicals Ltd. vide file no. J-11015/ 304/2012-IA. II (M) dated 27.07.2015.
 - b. Amendment in Environmental Clearance to remove the specific condition no. (ii) Mentioned in the EC letter no. J-11015/304/2012-IA. II(M) dated 27.07.2015 that "Environmental Clearance is subject to obtaining clearance under the wildlife (Protection)Act, 1972 from the competent authority as it is applicable to this project" obtained vide file no. J-11015/304/2012-IA. II (M) dated 27.07.2015.
- vi. The Project Proponent has obtained the Terms of Reference (ToR) for Aniali Rana Bordi Limestone mine with production capacity of 1,75,000 TPA by M/s Tata Chemicals Limited, located at Village: Aniali, Tehsil: Rananlv, District: Porbandar, State: Gujarat (MLA: 12.27 ha) vide file no. J-11015/100/2018-IA. II (M) dated 09.10.2018.
- vii. Details of Mine lease:
 - a. The Project Proponent submitted that the initially the mining lease for Limestone was granted in name of M/s TATA Chemicals Limited by Government of Gujarat, Industries, Mines & Power Department, Gandhinagar vide order noMCR-1565/13876/CHH dated 07.07.1966over an area of 12.27 hectares and the mine lease deed was executed on 23.12.1966 for a period of 20 years i.e., till 22.12.1986.
 - b. The Project Proponent has applied for first renewal of mine lease on 02.09.1985 and the State Govt. rejected the renewal application on 14.05.1987. Then, the Project Proponent filed court case in Hon'ble High Court of Gujarat against rejection of renewal application and the Hon'ble High Court of Gujarat gave its decision in favor of the company to State Government for renewal of lease.1strenewal of mine lease was granted vide order no. MCR-1585-(T-43)-4266-CHH, dated 22.11.2004 and the same was expired on 22.12.2006.
 - c. Then, the Project Proponent has applied for second renewal of mine lease vide letter no. AW/G/1409/2005 dated 17.11.2005.
 - d. The Government of Gujarat, Industries and Mines Department vide Lr no. MCR/1565/13876-CHH, New Sachivalaya, Gandhinagar dated 02.02.2018 have extended the lease period upto 31.03.2030.

viii. Land Use/Land Cover of the Mine Lease area:

Private land	--
Government Waste land	12.27 Ha
Total Mining lease area (MLA)	12.27 Ha
Private land for crusher, workshop & other infrastructure outside the MLA	--

ix. Mining plan details:

Mining Plan approved by Indian Bureau of Mines	Letter No.	682(4)(1)/MP/320/2020-21-GNR/297
	Date	18.02.2021
	Validity	2026
Mining Parameters	Quantitative Description	
Method of Mining	Open cast method (using drilling and blasting)	
Life of mine	5 years	
Bench Height	5 m	
Bench Width	>5 m	
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 Metalliferrous Mines Regulation, 1961. The slope of each bench will be kept around 80°	
Drilling/Blasting	Occasional adoption of drilling and blasting to give shattering effect to hard strata. Project Proponent submitted that necessary permission has been already obtained from the DGMS for use of drilling and blasting system.	
Transportation details	The Limestone will be transported from mine site to Soda Ash and Cement Plant located at Mithapur.	
Dumper's capacity	17 Tonne	

x. Water requirement:

Total water requirement	10.0 KLD	Drinking & Domestic	2.0 KLD	
	Fresh water	10.0 KLD	Plantation	4.0 KLD
	Treated water	-	Dust suppression	4.0 KLD
Source	Ground Water			
Permission	The Project Proponent submitted the Groundwater clearance obtained from the Central Ground Water Authority (CGWA) vide Lr No. 21-4(861)/WCR/CGWA/2011-947 dated 27th July 2011 stating that the project falls under semi-critical category as per the ground water assessment carried out by Central Ground Water Board. Since, the total requirement of ground water is 10 m ³ /day; NOC is not required for ground water withdrawal from Central Ground Water Authority. However, to neutralize the adverse impact of ground water withdrawal that may arise on a long-term basis, the industry/project is advised to undertake the following measures that the Groundwater withdrawal shall not exceed the proposed quantity of 10 m ³ /day.			

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

Particulars	Particular's Name	Distance & Directions
Village	Daulatgadh	~1.6 km, NE
Town	Ranavav	~8.0 km, SW
Highway	NH-8B	~4.89 km, S
	SH-27	~4.50 km, W

Railway Station	Jam Sakhpur Railway Station	~4.81 km, N
	Ranavav Railway Station	~10 km, W
Water bodies	DhangvaNadi	~2.19 km, N
	BileshwariNadi	~5.60 km, NE
	MinsarNadi	~5.25 km, E
	Khambhala reservoir	~7.33 km, NW
	Fodara reservoir	~9.75 km, NW

xii. Environmentally Sensitive areas falls in the study area:

Forest Land/Protected Area/Environmental Sensitivity Zone	Yes/No	Details of Certificate/letter/Remarks								
Forest Land	No	Project Proponent reported that the Forest land is not involved in the mine lease area as per approved mine plan and land use map of the project site. The map was duly authenticated by District Conservator of Forest, Porbandar Division showing distance of Barda WLS from the mine lease boundary. The project site is not present in the forest area.								
National Park	No	Project Proponent submitted that the Barda wildlife sanctuary is located at a distance of 4.02km, NW from the mine lease area and 112.21 meters from ESZ. PP also submitted the map duly authenticated by District Conservator of Forest, Porbandar Division showing the distance of Barda WLS from the mine lease boundary. Further, PP submitted that Mokarsagar Bird Sanctuary is located at a distance of approximately 13.45 km, SW from the mine lease area.								
Wildlife Sanctuary	Yes									
Additional information (if any)		<table border="1"> <thead> <tr> <th>Name of Forest</th> <th>Distance and Direction</th> </tr> </thead> <tbody> <tr> <td>Naliyadhar Reserve Forest</td> <td>~0.010 km, S</td> </tr> <tr> <td>Jambuda Reserve Forest</td> <td>~2.88 km, N</td> </tr> <tr> <td>Khageshri Reserve Forest</td> <td>~7.85 km, E</td> </tr> </tbody> </table>	Name of Forest	Distance and Direction	Naliyadhar Reserve Forest	~0.010 km, S	Jambuda Reserve Forest	~2.88 km, N	Khageshri Reserve Forest	~7.85 km, E
Name of Forest	Distance and Direction									
Naliyadhar Reserve Forest	~0.010 km, S									
Jambuda Reserve Forest	~2.88 km, N									
Khageshri Reserve Forest	~7.85 km, E									
Schedule-1 species	Yes/No	Details of Certificate/letter/Remarks								
Schedule-I species	Yes	Indian Peafowl and Leopard								
Wildlife conservation plan	Yes	The Project Proponent submitted the revised Wildlife conservation plan approved by Chief Wildlife Warden, Gandhinagar, Gujarat vide Lr no.: WLP/32/C/417-								

	420/2022-23 dated 11.07.2022 with a budget of Rs 35.0 Lakhs.
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xiii. Greenbelt/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	1.3 (till June 2022)

xiv. 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 Post Season i.e., December, 2018 to February, 2019. 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, 2018 to February, 2019				
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, $\mu\text{g}/\text{m}^3$
	PM10	68.8	81.4	77.3	100
	PM2.5	30.1	33.9	33.9	60
	SO2	9.5	11.9	11.9	80
	NOx	12.8	17.5	17.3	80
AAQ modeling	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	78.1	0.8	78.9	100
	PM2.5	37.6	0.5	38.1	60
	SO2	12.4	0.08	12.48	80
	NOx	16.8	0.2	17.0	80
Noise level at 9 locations	Day Time: 37.3 to 58.9 Leq dB (A), Night Time: 26.7 to 46.5 Leq dB (A)				
Ground water quality at 3 locations	Project Proponent reported that the pH value of ground water samples was found in the range from 7.2 to 7.6. Total Dissolved Solids (TDS) ranged between 259 to 296 mg/l, Total Hardness (TH) ranged between 156 to 197 mg/l, Chloride content of ground water samples was found in the range from 46 to 51 mg/l. The results of ground water were compared to Indian Standard Specification of Drinking water IS: 10500:2012 and found fit for drinking purpose.				
Surface water quality at 2 locations	Project Proponent reported that the pH value of the surface water ranged from 7.72-7.4, Electrical Conductivity (EC) ranged from 446-487 $\mu\text{S}/\text{cm}$, Total alkalinity 142 - 179 mg/l, Total Hardness 136-191				

	mg/l, Total Dissolved Solids 141-176 mg/l and Dissolved Oxygen 6.6-6.9 mg/l.
Soil quality at 5 locations	Project Proponent reported that the pH of the soil found to be slightly basic (7.1 to 7.6). Electrical conductivity (EC) ranged from 567-598 µmhos/cm. Bulk density of soil sample samples ranged from 1.38-1.42 gm/cc, Moisture Content was found between 12.1-15.8% and Organic matter was present in the range of 0.51-0.86 %.
Traffic Survey	Project Proponent reported that the traffic study was conducted for SH-27 and nearby intersection passes through the project site. After the proposed activity at LI-Near village intersection the PCU/day is 383 and V/C ratio is 0.06, the LOS is 'A' and at L2-- At SH-27, the PCU/day is 4280 and V/C ratio is 0.28, LOS is 'B'. The V/C ratio will change to 0.06 and 0.28 with LOS being "A" which is "Excellent" near village intersection and "B" which is "Very good" at State highway as per classification. So the additional load on the carrying capacity of the concerned roads is not likely getting affected.

xv. 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 was published in "Divya Bhaskar" dated 24/02/2021.
Date of PH	26 th 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 5.4 Lakhs (Capital) and Rs 3.45 Lakhs (Recurring) and for addressing the public concerns/issues as raised during PH.

xvi. Previous EC compliance, Past production, CTE/CTO details:

Particulars	Letter no. and date
Certified EC compliance report	The Project Proponent submitted the certified compliance report by Integrated Regional Office (IRO), Gandhinagar vide letter dated 14.03.2022. The Site visit was conducted by IRO on 29.12.2021.

Certified past production

The Project Proponent submitted the past production details certified by the District geologist, Porbandar from the year 1985-86 to 2017-18. PP submitted that this is an existing mine, where EC was obtained in year 2015 for the annual production of 14,000 Tons of limestone. PP had not started the mining operation till 2016-17. Mining Operation has started only after the declaration of Barda WLS ESZ and its subsequent notification dated 28.04.2017. After obtaining the EC, mine become operational in year 2017-2018. About 12.150 thousand Tonnes of mineral has been mined out in the year 2017-2018.

S. No	Year	Total Production (in 000 Tonnes)	EC capacity (million TPA)
1	1985-86	-	-
2	1986-87	23.025	-
3	1987-88	29.404	-
4	1988-89	18.232	-
5	1989-90	-	-
6	1990-91	-	-
7	1991-92	-	-
8	1992-93	-	-
9	1993-94	-	-
10	1994-95	-	-
11	1995-96	-	-
12	1996-97	-	-
13	1997-98	-	-
14	1998-99	-	-

	15	1999-2000	-	-
	16	2000-01	-	-
	17	2001-02	-	-
	18	2002-03	-	-
	19	2003-04	-	-
	20	2004-05	-	-
	21	2005-06	-	-
	22	2006-07	-	-
	23	2007-08	-	-
	24	2008-09	-	-
	25	2009-10	-	-
	26	2010-11	-	-
	27	2011-12	-	-
	28	2012-13	-	-
	29	2013-14	-	-
	30	2014-15	-	-
	31	2015-16	-	0.014
	32	2016-17	-	0.014
	33	2017-18	12.150	0.014
Consent to Operate	Project Proponent submitted the Consent to Operate issued by the Gujarat Pollution Control Board vide Consent Order No. AW-83086 dated 17.12.2016 for production of Limestone 14,000 MT/year and the consent was valid upto 30.10.2021. Thereafter, PP			

	obtained the CTO vide No. GPCB/CCA/PBR-168/ID 48801/600475 dated 15.09.2021.
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xvii. Rehabilitation & Resettlement:

R & R details	Project Proponent submitted that there are no project-affected persons due to this project. Hence, R&R plan is not applicable to this project.
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xviii. Court case details:

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

Affidavit as per Ministry's OM dated 30.05.2018	Project Proponent submitted an Affidavit in a non-judicial stamp paper of Rs 100 bearing no BT 681367 dated 16.01.2022 stating that the company will comply with all the statutory requirements & 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	Project Proponent submitted an undertaking mentioning that this EIA/EMP Report was prepared for obtaining Environment Clearance (EC) of Expansion of Aniali Rana Bordi Limestone Mining Project near village-Aniali, Tehsil- Ranavav, District Porbandar, Gujarat with a mine lease area of 12.27 Ha for mining of Limestone mineral and has been prepared as per the conditions laid down in Terms of Reference (ToR) prescribed by Ministry of Environment, Forest and Climate Change, with vide letter no- J-11015/100/2018-IA.II (M) dated 09.10.2018. The authorised signatory for M/s TATA Chemicals Limited, affirm that all the data submitted and the information presented in this report are factually correct to the best of my knowledge.
Consultant submitted an undertaking	The Consultant submitted a declaration stating the consultant organization shall be fully accountable for any misleading information. It is certified that no unethical practices, plagiarism involved in carrying out the work and external data / text has not been used without proper acknowledgement while preparing this EIA report.

xx. Details of the EMP

Activities	Capital cost (Lakhs/Annum)	Recurring cost (Lakhs/ Annum)
Air quality monitoring	-	0.5
Water quality control	-	0.5
Noise abatement	-	0.3
Green belt development	1.5	3.0
Mining activities including transportation (Covering of mineral in trucks, Wheel washing). Regular Dust Suppression on haul road.	7.0	3.30

xxi. Details of project cost and employment:

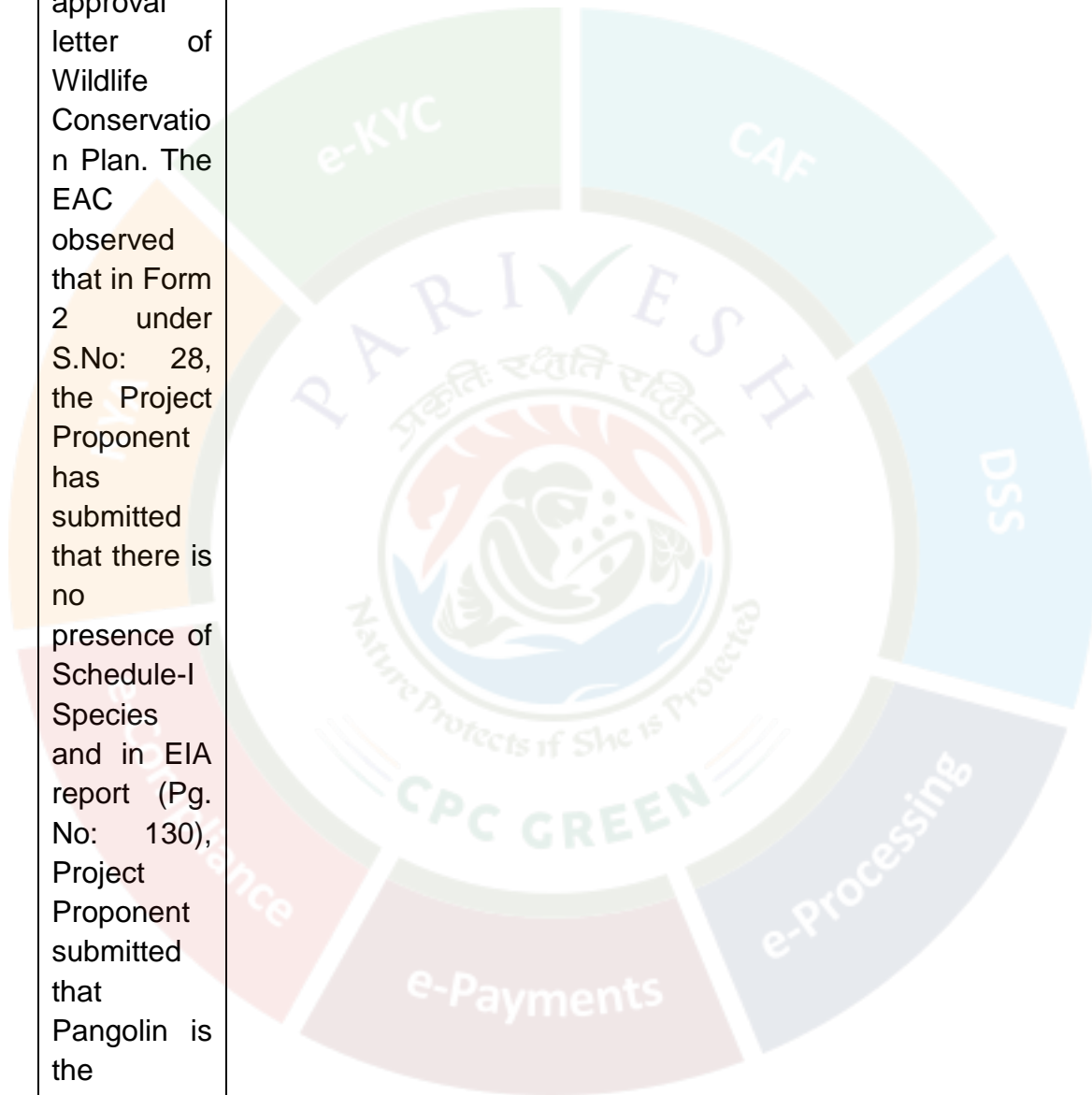
Particulars	(Rs. In Crore)
Total cost of EMP (Capital Cost of EMP + capital cost of Public hearing)	0.085+0.054 = Rs 0.139 Cr
Recurring Cost for EMP	Rs 0.055 Cr
Project Cost	Rs 0.75 Cr
Employment	46 persons

xxii. Earlier, the proposal was considered in the 3rd EAC (Non-Coal) Mining Meeting held on 05th September, 2022 wherein the Committee deferred the proposal and asked to submit the requisite information. The Project Proponent vide letter dated 17.07.2024 submitted the following point-wise information:

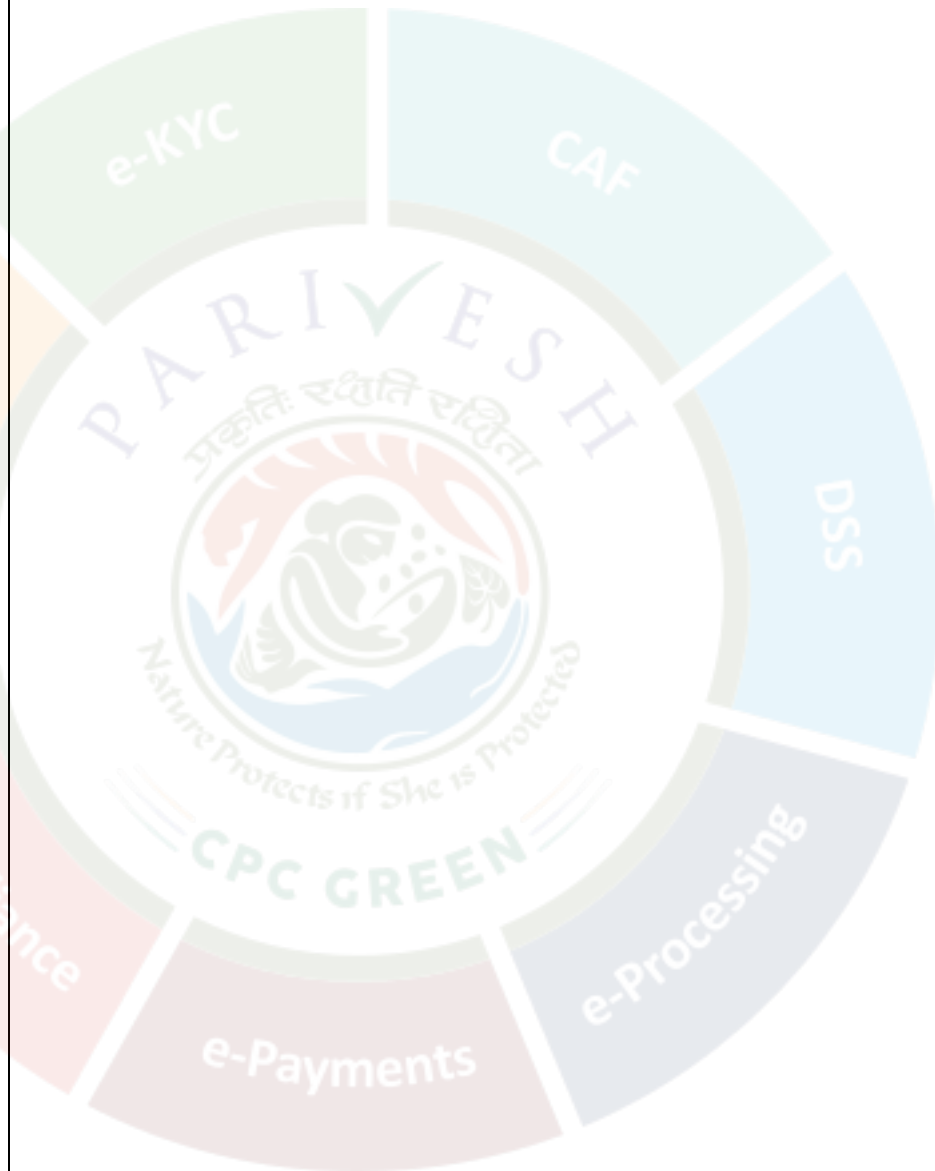
S. No.	Observation of EAC	Reply by Project Proponent
1	The EAC noted the Project Proponent has not submitted the certified production details from the year 2017-18 to 2021-22.	The Project Proponent has submitted the certified past production detail vide letter no. 3099 dated 22.09.2023 from the year 1985-1986 till 2023-24 (up to August).
2	The EAC also noted that the Project Proponent has not submitted	The Schedule-I species are Indian Peafowl and Leopard as per Wildlife protection act, 1972 and its amendment. Accordingly, the wildlife conservation plan was prepared by Gujarat Environment Management Institute (GEMI) (an autonomous institute of Government of Gujarat) and submitted. The Wildlife conservation plan has been approved by Office of the Principal Chief Conservator

the Wildlife Conservation Plan in PARIVESH and submitted only the approval letter of Wildlife Conservation Plan. The EAC observed that in Form 2 under S.No: 28, the Project Proponent has submitted that there is no presence of Schedule-I Species and in EIA report (Pg. No: 130), Project Proponent submitted that Pangolin is the Schedule-I Species found in the study area and in the brief submitted by the Project

of forests, Gandhinagar, Gujarat vide dated 11.07.2022.



Proponent it was mentioned that the Indian Peafowl and Leopard are the Schedule-I Species found in the study area and during the EAC meeting, the Project Proponent informed that the Indian Peafowl is the only Schedule-I species found in the study area. The EAC also observed that the Project Proponent has not submitted the authenticated list of flora and fauna in the study area. The EAC was of the view that



	there is a discrepancy in the information submitted by the Project Proponent.										
3	The EAC noted that the Project Proponent has mentioned that the mining plan was approved on 18.02.2021 but in PARVIESH the Project Proponent has submitted the mining plan which was approved on 14.09.2016.	The Project Proponent vide letter no. 684(4) (1) MP-320/ 2020-21-GNR/297 dated 18.02.2021 submitted approved mine plan.									
4	The EAC observed that the Integrated Regional Office (IRO), Gandhinagar vide letter dated	The Project Proponent vide letter dated 23.04.2022 submitted the action taken report in response to the letter received from MoEF&CC dated 07.04.2022 and w.r.t. the Certified Compliance dated 14.03.2022 as mentioned below: <table border="1"> <thead> <tr> <th>S.No</th> <th>Non compliance raised by IRO</th> <th>Compliance status by Tata Chemicals Ltd.</th> </tr> </thead> <tbody> <tr> <td>.</td> <td></td> <td></td> </tr> <tr> <td>In EC</td> <td></td> <td></td> </tr> </tbody> </table>	S.No	Non compliance raised by IRO	Compliance status by Tata Chemicals Ltd.	.			In EC		
S.No	Non compliance raised by IRO	Compliance status by Tata Chemicals Ltd.									
.											
In EC											

<p>14.03.2022 mentioned that the “out of total 50 conditions, it may be seen that 35 are complied, 4 are partly complied, 8 are agreed to comply and 3 are not applicable to the project proponent. These have been explained in the foregoing compliance report against each of the conditions, and the PP needs to take necessary and time bound action for early compliance in respect of relevant conditions. A time targeted action taken</p>	SC xix	Financial turnover– last three years	Financial turnover for year 2018-19, 2019-20 & 2020-21 has been submitted												
	GC iv	Piezometer not installed	Piezometer Installed at Site. Latitude: 21° 42' 27.19" N Longitude: 69° 49' 50.84" E Regular monitoring at piezometer and other wells carried out and submitted												
	GC ix	Greenbelt not developed as per stipulated EC condition	<p>Green status with action plan is as follows:</p> <table border="1"> <thead> <tr> <th>Location</th> <th>Area as per EC</th> <th>No. of trees as per EC</th> <th>Planted as on June 2024</th> <th>Balance</th> <th>Plan of implementation</th> </tr> </thead> <tbody> <tr> <td>7.5 m safety zone</td> <td>1.5</td> <td>250</td> <td>1700</td> <td>800</td> <td>800 plants in 0.31 ha in 2024-25</td> </tr> </tbody> </table>	Location	Area as per EC	No. of trees as per EC	Planted as on June 2024	Balance	Plan of implementation	7.5 m safety zone	1.5	250	1700	800	800 plants in 0.31 ha in 2024-25
	Location	Area as per EC	No. of trees as per EC	Planted as on June 2024	Balance	Plan of implementation									
7.5 m safety zone	1.5	250	1700	800	800 plants in 0.31 ha in 2024-25										
GC xiii	Ground water level and quality monitoring report	<p>Ground water level monitoring reports for Aniali were done 2023-24 (2 Quarters)</p> <table border="1"> <thead> <tr> <th>Month</th> <th>Water Level in meters (bgl)</th> </tr> </thead> <tbody> <tr> <td>May 23</td> <td>44.60 bgl</td> </tr> <tr> <td>Aug 23</td> <td>38.33 bgl</td> </tr> </tbody> </table>	Month	Water Level in meters (bgl)	May 23	44.60 bgl	Aug 23	38.33 bgl							
Month	Water Level in meters (bgl)														
May 23	44.60 bgl														
Aug 23	38.33 bgl														

Abbreviation: GC: General condition
SC : Specific Condition

	<p>report shall be furnished to MoEF&CC, IRO, Gandhinagar in this regard within 30 days of receipt of the said letter". The information is still awaited from the Project Proponent.</p>	
5	<p>The EAC noted that the validity of the NABET Accredited EIA Consultant, M/s In Situ Enviro Care has already expired on 08.08.2022 and is accredited for category B.</p>	<p>The Project Proponent has engaged Category 'A' Accredited EIA Consultant Namely M/s Min Mec Consultancy Pvt. Ltd and having validity till 29.03.2025.</p> <p>M/s Min Mec has vetted/ validated the existing EIA report prepared by In Situ Enviro Care Pvt. Ltd. and prepared the addendum EIA as per the procedure prescribed in Sl. No. 2 of "Annexure 1" Guidelines For Completing/ Validating EIA Reports in Clarifications to Version 3 of the Scheme October 3, 2017 issued by NABET, QCI.</p>

3. Observation and Recommendation of EAC:

The Project Proponent/Consultant presented their report and explained the key site features using a KML file, highlighting the village and seacoast areas located near the Mine Lease (ML) area. The EAC noted that the Barda Wildlife Sanctuary is situated

4.02 km northwest of the ML area and 112.21 meters from the Eco-Sensitive Zone (ESZ). Additionally, Mokarsagar Bird Sanctuary is approximately 13.45 km southwest of the ML area. The Committee reviewed the pointwise responses to the observations made by the 3rd Expert Appraisal Committee (EAC) meeting held on 05th September, 2022). The Project Proponent provided certified details of past production, a wildlife conservation plan prepared by the Gujarat Environment Management Institute (GEMI) that includes a list of Schedule-I species, the approved mine plan, and an action taken report in response to the Certified Compliance issued on 14/03/2022. Furthermore, the Project Proponent confirmed the change of accredited EIA consultant from In Situ Enviro Care to Min Mec Consultancy Pvt. Ltd.

The Committee asked about the inclusion of a man-wildlife conflict section in the supplementary wildlife conservation plan. The PP/consultant was not able to address the query of the Committee. The Project Proponent was also advised to address the variation in the number of trucks to be used for the transportation of minerals within and outside the ML area, along with the submission of an evacuation plan that avoids crossing any habitations, villages, or sensitive locations. The EAC also requested the PP to submit the status of Continuous Ambient Air Quality Monitoring System (CAAQMS) and the status of data sharing with the State Pollution Control Board (SPCB). Additionally, the provisions for the installation of PM10 analyzers should be done in areas where elevated air quality levels are anticipated. PP was also advised to submit a plan for installing oil and grease trap/ETP facilities. The Committee further asked PP to prepare a comprehensive water management plan in consultation with a government institute, with an emphasis on reducing dependency on groundwater. The EAC further enquired about the distance of the mine lease area from the sea board frontier. PP informed that the mine lease area is located beyond 20 km from seaboard frontier. The EAC was of the opinion that PP should submit a distance certificate from the State Govt/Local administration indicating the exact distance. With regard to the overburden (OB)/waste management, EAC asked the PP to submit the revised overburden (OB)/waste management plan

Based on above discussion, the Committee **deferred** the proposal and asked to submit the requisite information:

- i. The Project Proponent needs to submit a supplementary wildlife conservation plan addressing the man-wildlife conflict within the study area.
- ii. The Project Proponent is required to submit the status of the Continuous Ambient Air Quality Monitoring System (CAAQMS) and data sharing status with the State Pollution Control Board (SPCB) and Central Pollution Control Board (CPCB).
- iii. PP needs to submit a plan for installing oil and grease trap/ETP facilities.
- iv. The Project Proponent needs to prepare and submit a water management plan, developed in consultation with an institute of national repute, aimed at reducing dependency on groundwater.

- v. The Project Proponent must submit a distance certificate issued by the State Govt/ district administration, indicating the distance between the seaboard frontier and the project boundary. PP should also inform the Ministry of Defence if needed.
- vi. The Project Proponent needs to submit a revised, time-bound action plan for the Environmental Management Plan (EMP) after incorporating sub-activities and exploring whether cost needs to be increased for activities.
- vii. The Project Proponent is required to submit a revised Overburden (OB)/waste management plan aligned with the mine plan.
- viii. The Project Proponent shall provide the details of Special Pollution Control/ Abatement devices that have been installed/ proposed to be installed within the ML area and how does the technology compare with the best available technology in the field.

1.3 Revalidation of Environmental Clearance as per MoEF&CC Notification dated 06.04.2018 for Amtipani Bauxite Mine with production capacity of Bauxite 1,50,000 TPA (0.15 MTPA) in the ML area of 190.95 Ha of M/s Hindalco Industries Limited, located at Villages Amtipani, Chirodih&Gurdari, Taluka Bishunpur, District Gumla, Jharkhand.

[Online proposal No. IA/JH/MIN/409979/2022; File No. J-11015/241/2005-IA.II (M); Consultant - J.M. EnviroNetPvt. Ltd.] – Revalidation of EC (Reconsideration) reg.

The instant proposal is for revalidation of Environmental Clearance as per MoEF&CC Notification dated 06.04.2018 for Amtipani Bauxite Mine with production capacity of Bauxite 1,50,000 TPA (0.15 MTPA) in the ML area of 190.95 Ha of M/s Hindalco Industries Limited, located at Villages Amtipani, Chirodih&Gurdari, Taluka Bishunpur, District Gumla, Jharkhand.

2. The details of the project as ascertained from the document submitted by the Project Proponent are given as under:

- i. The mine lease area is located between Latitude 23°21'38.12" N to 23°19'8.99"N and Longitude 84°15'18.06" E to 84°15'59.66" E.
- ii. The mine lease area falls under the Survey of India Toposheet No. 73A/3, 73 A/4, 73A/7 & 73 A/8 and falls in Seismic Zone III.
- iii. The proposed project activity is listed at Schedule no. 1(a) Mining of Minerals, Category "B" as the mining lease area is less than 250 ha but due to applicability of General Condition because of the presence of Eco Sensitive Zone of Mahuadanar and Palamu wildlife Sanctuary ~1.04 km from the mine site, therefore project is being considered at central level.
- iv. Terms of Reference was accorded on 28.12.2020 for revalidation of existing EC for Amtipani Bauxite Mine (Area - 190.95 ha) with granted Production Capacity of

Bauxite 150000 TPA at Villages Amtipani, Chirodih, Gurdari, Taluka Bishunpur, District Gumla (Jharkhand).

v. Amendment in Terms of Reference obtained on 04.08.2021 for public consultation in place of fresh public hearing in reference to the Ministry's OM dated 16.02.2021.

vi. Mine Lease details:

S.no	Prospecting License/ Letter of Intent (LoI)/ Grant of Mine lease and Lr No	Date of the grant	Name of the Mineral & (Major/ Minor)	Period of Grant	Granted by	Mine lease area in Ha
1.	Mining lease granted in favor of M/s. Indian Aluminium Company Limited vide letter no. 3 B.M. II-4/97/1593/M, Ranchi	19.08.2005	Bauxite	20 years	State Government	190.95
2.	Transfer of Mining lease in favor of M/s. Hindalco Industries Limited	21.02.2006	Bauxite	20 years	State Government	190.95

S. No	Details of grant of Mine Lease deed execution	Period of Grant		Name of the Mineral	Mine lease area in Ha
		From	To		
1.	Execution of Mining lease deed over an area of 190.95 ha	13.03.2006	12.03.2026	Bauxite	190.95
2.	Execution of Supplementary mining Lease Deed was executed on 27.03.2017 for lease extension up to 12.03.2056 as per Section 8A (3) of Amended Mines & Minerals (Development & Regulation) Act, 2015.	13.03.2006	12.03.2056	Bauxite	190.95

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

Private land	190.62 ha (Raiyati Land)
Government land	0.33 ha (GM Land)
Forest Land	-
Total Mining lease area (MLA), Ha	190.95 ha

Private land for crusher, workshop & other infrastructure outside the MLA	No infrastructure is proposed outside the ML area
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viii. Mining plan

Mining Plan including Progressive Mine Closure Plan (approved by Indian Bureau of Mines/DMG)	Letter No.	E 6699 MCDR-MPC0LST/15/2023-JBP-IBM_RO_JBP																
	Date	21.10.2020																
	Mineral & (Major/Minor)	Major																
	Mine Lease Area, Ha	190.95																
	Validity	2025																
Mining Parameters	Quantitative Description																	
Method of Mining	Fully Mechanized Opencast Mining Method																	
Drilling/Blasting	<ul style="list-style-type: none"> The lessee obtained permission under Regulation 106(2) (b) of MMR, 1961 for forming benches using Heavy Earth Moving Machinery & system of deep hole blasting. Blasting will be done only in the harder patches, which cannot be cut by excavator. Holes of 100mm -115 mm diameter will be drilled by Crawler Mounted Drill to a depth of 5.5 M and charged with slurry explosives. Yield per kg of slurry explosive is expected to be 8.25 Tonnes in the case of ROM. However, the frequency of blasting will be very less and blasting is practiced only in case of harder rocks. About 10-20 deep holes will be blasted per blast to produce Bauxite at the rated capacity. <p>Blasting Parameters</p> <table border="1"> <tr> <td>Explosive</td> <td>ANFO with Detonating Fuse as Booster, Nonel& Ordinary detonator, Safety fuse</td> </tr> <tr> <td>Bench Height</td> <td>6 m</td> </tr> <tr> <td>Depth of Hole</td> <td>5.5 m</td> </tr> <tr> <td>Burden</td> <td>2.5 m</td> </tr> <tr> <td>Spacing</td> <td>3 m</td> </tr> <tr> <td>Volume</td> <td>2.5 m x 3 m x 6.0 m =45 cum</td> </tr> <tr> <td>Method of blasting</td> <td>1 row of 10-20 holes in one round</td> </tr> <tr> <td>Explosive charge</td> <td>12 Kg</td> </tr> </table>		Explosive	ANFO with Detonating Fuse as Booster, Nonel& Ordinary detonator, Safety fuse	Bench Height	6 m	Depth of Hole	5.5 m	Burden	2.5 m	Spacing	3 m	Volume	2.5 m x 3 m x 6.0 m =45 cum	Method of blasting	1 row of 10-20 holes in one round	Explosive charge	12 Kg
Explosive	ANFO with Detonating Fuse as Booster, Nonel& Ordinary detonator, Safety fuse																	
Bench Height	6 m																	
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Spacing	3 m																	
Volume	2.5 m x 3 m x 6.0 m =45 cum																	
Method of blasting	1 row of 10-20 holes in one round																	
Explosive charge	12 Kg																	
Geological Reserves	3.83 million Tonnes (as on 01/04/2023)																	

Mineable Reserves	3.13 million Tonnes (as on 01/04/2023)
Breakup of Total Excavation (Topsoil / OB / SB / IB / Mineral Rejects / Waste, MTPA)	Total Excavation 0.945 million; TPA (Bauxite 0.15 million TPA, Top Soil 0.064 million TPA, OB Waste (Morrum& Laterite): 0.694 million TPA &Quarry Waste: 0.037 million TPA
Life of mine	22 years (w.e.f. 01/04/2021)
Mine Bench Height & Bench Width	Bench height & width 6 m
No. of Mine Benches	2
Existing Depth, m bgl	10
Ultimate Depth of Mining, m bgl	12 - 18 m bgl
Ground Water Table, m bgl	>31 mbgl.
Details of ground water intersection	The existing working depth is up to 10 m bgl and at the conceptual stage; working will be until 12 - 18 m bgl. Water table is > 31 m bgl. Thus, water table will not be intersected during entire life of mine
Individual bench slope	45 ⁰
Overall pit slope	45°
Details of existing/ proposed Crusher	None
Mineral Beneficiation	None
RoM output size	4-350mm
Transportation details including capacity of dumper/tipper,	Bauxite produced from this mine meets the requirement/demand of alumina in their plant situated at Muri in Jharkhand. At present loading of bauxite to trucks (25 tonnes) is being done manually, however, in future mechanical loading will be done if required and

mode of transport and distance	sent to the railway siding for onward raiment to its captive plant at Muri.
Generation of Topsoil/OB & its Management during plan period & conceptual period	<ul style="list-style-type: none"> • During plan period, 0.22 million cum and during conceptual period 1.04 million cum of topsoil will be generated which will be used for spreading over backfilled area concurrently through biological reclamation • During plan period, 0.96 million cum of OB will be generated which will be backfilled over an area of 13.81 ha used for spreading over backfilled area concurrently through biological reclamation. During conceptual stage, 3.96 million cum of OB will be generated which will be backfilled over an area of 150.32 ha (73.22 ha area already backfilled)
Generation of Mineral Rejects/Waste & its Management during plan period & conceptual period	<p>During plan period, Total 67967 cum of quarry waste will be generated which will be backfilled over an area of 13.81 ha.</p> <p>During conceptual stage, 0.34 million cum of quarry waste will be generated which will be backfilled over an area of 150.32 ha along with the OB Waste (73.22 ha area already backfilled).</p>

ix. Water requirement

Total water requirement	23	Fresh water	23
		Treated water	-
Source	Ground water (drinking purpose only) and existing rainwater harvesting pond.		
Permission	The NOC has been obtained from CGWB regarding abstraction of groundwater vide letter no. CGWA/NOC/MIN/REN/1/2021/6563 dated 06.09.2021 valid up to 05.09.2023 and NOC NoCGWA/NOC/MIN/REN/2/2023/8044 dated 27.07.2023 (Valid up to 05.09.2025).		

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

Particulars	Villages	Directions
Nearest Village	Amtipani	North
Nearest Town/ City	Gumla	~42 km in SE direction
Nearest State/National Highway	SH- 9	~3.0 km in WNW direction
Interstate Boundary	None	-

Railway Station/Railway line	Lohardaga	~47 km in ENE direction
Water Bodies	AmbakonaNala	~1.0 km in NNE direction
	DharahariNala	~2.0 km in NNE direction
	ParasghariNala	~2.0 km in WSW direction
	ChappikonaNala	~6.5 km in West direction
	BeltarlaNala	~7.0 km in SSE direction
	NarnaNala	~7.0 km in NE direction
	North Koel River	~7.5 km in ESE direction
	SankhNala	~8.0 km in SSW direction
	BelwarNala	~8.0 km in NW direction
	Sankh River	~8.0 km in South direction
Forest	Chirodih PF (~1.0 km in SE), Kerakhar PF (~2.5 km in NW), Mail PF (~3.0 km in WNW), Chatamtoli PF (~3.5 km in ESE), Arahans PF (~3.5 km in NNW), Sohar PF (~4.0 km in WNW), Deoragani PF (~5.0 km in SE), Bahagara PF (~5.0 km in NE), Gasnidihir PF (~5.5 km in NNE), Husmu PF (~6.0 km in NW), Aigu PF (~6.5 km in NW), Belwar PF (~6.5 km in NW), Paharkapu PF (~7.0 km in NW), Sirsi PF (~7.5 km in North), Lgirpat PF (~7.5 km in SSE), Kewarki PF (~8.0 km in NW), Tender PF (~8.0 km in SSE), Pathiagani PF (~8.0 km in ESE), Horheng PF (~8.5 km in NNW), Dabna PF (~8.5 km in NE), Dumardih PF (~9.0 km in NW), Kubund PF (~9.0 km in WNW), Pirhapat PF (~9.0 km in SE), Husir PF (~9.5 km in ESE), Katabil RF (~ 2.5 km in WSW), Rajadera RF (~3.0 KM in SW), Narma RF (~5.5 km in NE), Udani RF (~ 7.0 km in SW), Angratanr RF (~7.5 km in NNE), Hotap RF (~8.0 km in WSW), Balatu RF (~8.5 km in NNE), Range RF (~8.5 km in North), Chatakpur RF (~9.5 km in NE)	

xi. 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 within the mine lease area and (if yes) status of Forest Clearance	No	Letter regarding no involvement of forest land has been obtained from CO, Bishunpur , Gumla dated 25.08.2022
National Park	No	None
Wildlife Sanctuary	No	None
Elephant/Tiger Reserve	No	None

Eco-Sensitive Zone (ESZ) /Eco-Sensitive Area (ESA)	Yes	Eco Sensitive Zone of Mahuadanar and Palamu wildlife Sanctuary ~1.04 km from the mine site. Distance verification certificate has been obtained from PCCF/Chief Wildlife Sanctuary, Ranchi, Govt of Jharkhand vide letter no. 2246 dated 04.12.2019
Coastal Regulation Zone (CRZ)	No	None
Schedule-I species (No.s and name of schedule-I species with authenticated letter)	Yes	8 number of Schedule I species found within study area i.e. Wild Dog (<i>Cuon alpinus</i>), Wolf (<i>Canis lupus</i>), Asian Elephant (<i>Elephas maximus</i>), Sloth Bear (<i>Melursus ursinus</i>), Indian Pangolin (<i>Manis crassicaudata</i>), Indian Python (<i>Python molurus</i>), Monitor lizard (<i>Varanus monitor</i>), Indian Pea Fowl (<i>Pavocristatus</i>). were found within 10 km radius of the Mining Lease area.
Wildlife Conservation Plan	yes	The Site-specific Plan for conservation of Flora & Fauna has been obtained from Office of the Principle Chief Conservator of Forests, Wildlife & Chief Wildlife Warden, Jharkhand dated 02.12.2021

xii. Green belt/Plantation details:

Proposed area for green belt/plantation and no. of saplings proposed	Total area under greenbelt/plantation is estimated as 12.49 ha (10.69 ha area on 7.5 m safety zone of lease boundary and 0.70 ha area on safety barrier along habitation road and other mining constraints etc and 1.1 ha on backfilled area)
Budget for green plant & plantation till the end of life of mine.	Rs. 1.10 Crores
Budget for nursery	None
Details of existing plantation and its survival rate	As on date 3.80 ha area has been covered with greenbelt and plantation (2.0 ha on 7.5 m lease periphery + 0.70 ha area on safety barrier along habitation road and other mining constraints etc and 1.10 ha on backfilled area)
No. of tree cuts in the mine lease area and compensatory afforestation	NIL
Particulars for Green belt/plantation	Area covered (in Ha)
7.5 m barrier & non-mineralized zone	10.69 ha

50 m safety zone of nallah, roads, electric lines	0.70 ha
500 m safety zones of nearest habitation villages	None

xiii. Baseline detail

Baseline Data (Air / Water / Noise / Soil / Hydro geological study/ Traffic Study/ others)			
Period of baseline data collection	March to May, 2022		
Season (Summer / Pre-monsoon / Post-monsoon / Winter)	Summer Season		
Predominant Wind direction (From)	NW direction		
Ambient Air Quality (no. of locations) and results	No. of Location	Parameters	Results
	09	PM10	53.7 to 85.4 $\mu\text{g}/\text{m}^3$
		PM2.5	29.5 to 50.2 $\mu\text{g}/\text{m}^3$
		SO2	7.05 to 12.54 $\mu\text{g}/\text{m}^3$
		NO2	12.6 to 24.9 $\mu\text{g}/\text{m}^3$
		CO	BDL to 0.62 mg/m^3
Noise level (no. of locations) and results	No. of Location	Parameters	Results
	09	During Day Time [Leq dB(A)]	51.7 to 59.3
		During Night Time [Leq dB(A)]	41.2 to 44.6
Water Quality (no. of locations) and results	Ground water quality		
	No. of Location	Parameters	Results
	08	pH	6.56 to 7.62
		TDS (mg/l)	88 to 198 mg/l
		Fluoride (mg/l)	0.15 to 0.30 mg/l
	Surface Water Quality		
	No. of Location	Parameters	Results
	02	pH	7.6 to 7.8
		Fluoride (mg/l)	0.12 to 0.14 mg/l
		TDS	60 to 198 mg/l

Soil Quality (no. of locations) and results	No. of Location		Parameters		Results		
	08		pH		7.12 to 7.65		
			Texture		Sandy Loam- Sandy Silt		
			Organic Matter (%)		0.43 to 0.68 %		
Hydro geological study and results	Ground Water Level (Phreatic Surface) - 8 Locations						
	Monitoring Location	Range of Water Table Pre-monsoon Season (in m below ground level)			Range of Water Table Post-Monsoon Season (in m below ground level)		
		From (Pre-monsoon)	To (Pre-monsoon)	From (Post-monsoon)	To (Post-monsoon)		
	Buffer Zone	31	33	30	31		
	Core Zone	32.14	32.85	32.11	32.19		
Traffic study (no. of locations) and results	There is no change in production capacity. Mine is already in operation. Proposal is for validation of Existing EC as per MoEFCC Notification dated 06.04.2018. Traffic study is not required						

xiv. Public Hearing (PH) Details

Advertisement for PH with date (name of major national daily and one regional vernacular daily newspaper)	Public Hearing for Amtipani Bauxite Mine (Area- 190.95 ha) Near Villages: Amtipani, Chirodih&Gurdari, Taluka: Bishunpur, District: Gumla (Jharkhand) of M/s. Hindalco Industries Limited was conducted in Gumla district on 21.06.2004 for 1.5 Lac TPA as per EIA Notification 1994 and on 11.07.2013 (3.0 Lac TPA) as per EIA Notification 2006. ToR Amendment for public consultation in place of public hearing as per MoEFCC OM dated 16.02.2021 has been obtained from MoEFCC on 04.08.2021. Now, public consultation was organized with villagers, rural representatives, Hindalco and the officials of N.K.C.P.L at Amtipani Bauxite Mines on 24.06.2022. Public Consultation as per EIA Notification, 2006 has been done on 12.08.2024. Advertisement published in News Paper for public consultation on 23.06.2024 (PrabhatKhabar& Hindustan Times) and Proceeding of public consultation received from SPCB on 12.08.2024.
Date of PH	
Venue	
Chaired by	
Main issues raised during PH/	Issues raised during public consultation were about employment, Drinking water, Education facilities, Health facilities, women empowerment etc.
Budget proposed for addressing issues raised during PH/ over 3 years	Rs. 95 Lakhs (Capital) and Rs. 3.5 Lakh/annum (Recurring)

xv. Details of CTE/CTO, Certified Compliance Report, Certified Production Details from the inception of the mine:

Particulars	Details of Letter along with date of grant and validity
Consent to Establish	CTE for 150000 TPA Bauxite Production Capacity has been obtained from JSPCB vide letter No. PC/NOC/RNC/140/14/G-4078 dated 07.11.2014.
Consent to Operate	Renewal of CTO under Water Act and Air Act has been obtained from JSPCB vide letter No JSPCB/HO/RNC/CTO-8761909/2020/2056 dated 31.12.2020 (Valid up to 31.12.2025).
Certified Compliance Report and Inspection date	F.No. 103-102/06/E.P.E/429 dated 25.07.2022 and Final closure report received from IRO Ranchi on 30.06.2023
Certified Production Details from the inception of the mine (in tabular form against the EC capacity)	Authenticated Past production details from State Mines Dept. on 30.11.2018 and 21.12.2022

xvi. Rehabilitation & Resettlement:

R & R details	Not applicable, as this proposal is for validation of existing EC as per MoEFCC Notification dated 06.04.2018
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xvii. Court case details:

Court Case, No and its present status	Pursuant to the Supreme Court Judgment W.P (C) 114/2014 dated 02-08-2017, office of the district mining officer issued a provisional demand notice for Amtipani Bauxite Mine amounting to Rs 97,85,066. As company never exceeded the production limits of any of the statutory clearances, therefore, Writ Petitions filed being WPC No. 7320 of 2017 before the Hon'ble Jharkhand High Court at Ranchi challenging this demand note. Stay in this matter has been granted in favour of company as an interim protection. The matter is awaited for further hearing before Division Bench of Jharkhand High Court.
Undertaking by Project Proponent w.r.t court case	

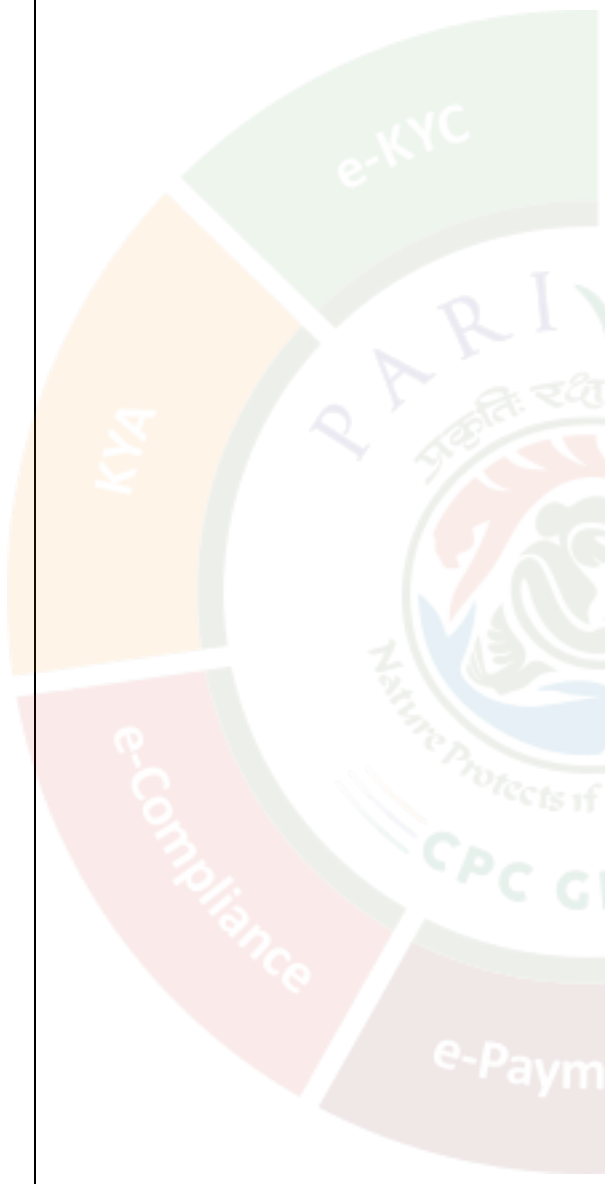
xviii. Affidavit/ Undertaking details:

Affidavit as per Ministry's OM dated 30.05.2018	The Project Proponent has submitted the Affidavit in a non-judicial stamp paper of Rs 100 bearing no. D 440 610 dated 13.01.2020 that they will comply with all 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.
Undertaking by Project Proponent in EIA/EMP report	The Project Proponent has submitted an undertaking vide letter dated 28.11.2022 stating that the conditions laid down in Terms of Reference (ToR) dated 28.12.2020 and amended ToR letter dated 04.08.2021 have been complied with and the data

	submitted and the information presented in this report are factually correct.
Undertaking by Consultant in EIA/EMP report	The Consultant has submitted an undertaking vide letter dated 09.12.2022 to the effect that the Terms of Reference (ToR) granted by MoEF&CC, New Delhi vide letter no. J-11015/241/2005-IA.II (M) on 28.12.2020 and amended on 04.08.2021 have been complied as per data/details provided by Project Proponent & as per Modification in Review of Mining Plan approved by IBM and the data submitted are factually correct.
Plagiarism Certificate	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 on 08.12.2022. The report produced has been analyzed by the system and based on that the EIA Report produced in accordance with good scientific practice.

xix. Earlier, the proposal was considered in the 18th EAC (Non-Coal Mining) meeting held during 31st July & 1st August, 2023 wherein the Committee deferred the proposal and asked to submit the requisite information. The PP has submitted the following information on Parivesh vide letter dated 19.08.2024 as mentioned below:

S. No	Observation of EAC	Reply by Project Proponent
1	The Ministry may seek comments from the ESZ Division in the Ministry clarifying whether the instant mine lease area falls outside the ESZ or not as the distance is 1.04 km from the mine lease area	Noted and will comply with the decision received from ESZ Division in the Ministry
2	The Project Proponent needs to carry out the Public Consultation as per EIA Notification, 2006 and also to explain why the component of public consultation has been missed out	Public Consultation as per EIA Notification, 2006 has been done. Advertisement published in News Paper for public consultation on 23.06.2024 (PrabhatKhabar& Hindustan Times). Proceeding of public consultation received from SPCB on 12.08.2024 submitted. Physical target has been prepared and submitted.
3	The Project Proponent needs to submit the reason for delay for approval of Wildlife Conservation Plan to the Ministry's Regional Office	Reason for delay in approval of Wildlife Conservation Plan is given below: <ul style="list-style-type: none"> Initially, there was no clarity on Guidelines from State Forest Department regarding the Wildlife Conservation Plan preparation and

		<p>its approval. Finally, State Govt. published a guideline in 2015 regarding the Wildlife Conservation Plan preparation and its approval by the competent authority.</p> <ul style="list-style-type: none"> • Post publishing the guideline for Wildlife Conservation Plan by State Govt, Project Proponent started to prepare the same as per guideline. Our team undertook extensive data collection and analysis to ensure the plan is grounded in the most accurate and up-to-date information. This process was more time-consuming than initially anticipated due to the need for thorough fieldwork and data verification. • Project Proponent prioritized engaging with local communities, conservation experts, and other stakeholders to incorporate their insights and recommendations into the plan. The participatory approach required additional time but was essential for the plan's comprehensiveness and effectiveness. • However, after incorporating all inputs from all stakeholders including State Forest Dept, Project Proponent submitted the Wildlife Conservation Plan on 26.10.2018 to DFO, Lohardaga, Jharkhand. Finally, the same was approved by PCCF, Wildlife Warden, Ranchi on 02.12.2021. • Till date we have deposited an amount of Rs. 350.90 lakhs in three years towards wildlife conservation and protection against Amtipani Bauxite mine as per sanctioned amount approved by PCCF, Wildlife, Ranchi.
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4	The Project Proponent needs to submit the proof of payment deposited to the State Forest Dept w.r.t. Wildlife Conservation Plan dated 02.12.2021	Copy of proof of payment deposited to the State Forest Department w.r.t. Wildlife Conservation Plan dated 16.07.2024 has been submitted.
5	The Project Proponent needs to submit the copy of the demand notice dated 12.11.2017 and the details of the court case and relevant court orders mentioning about the Amtipani Bauxite Mine	<ul style="list-style-type: none"> • Pursuant to the Supreme Court Judgment W.P (C) 114/2014 dated 02-08-2017, office of the district mining officer issued a provisional demand notice for Amtipani Bauxite Mine amounting to Rs 97,85,066. • As company never exceeded the production limits of the statutory clearances, therefore, Writ Petitions filed before the Hon'ble Jharkhand High Court at Ranchi challenging this demand note. • Stay in this matter has been granted in favour of company as an interim protection. • The matter is awaited for further hearing before chief justice of Jharkhand. • Affidavit in accordance with the statutory requirement & judgment of Hon'ble Supreme Court dated 2nd August 2017 in w.r.t. Petition (Civil) No. 114 of 2014 in the matter of common cause versus Union of India & Ores has been submitted. • Copy of all the supporting documents has been submitted.
6	The Project Proponent needs to submit the copy of the extension of the mine lease document granted for the period upto 12.03.2056.	Executed and registered copy of supplementary lease deed has been valid up to 12.03.2056.
7	The Project Proponent needs to submit the copy of the NOC obtained from CGWB vide letter no. CGWA/NOC/MIN/REN/1/2021/6563 dated 06.09.2021	NOC obtained from CGWB vide letter no. CGWA/NOC/MIN/REN/2/2023/8044 dated 27.07.2023 (Valid up to 05.09.2023) and NOC No. CGWA/NOC/MIN/REN/2/2023/8044 dated 27.07.2023 (Valid up to 05.09.2025) submitted.

xx. Details of the Environmental Management Plan (EMP)

Activities	Capital cost (Lakhs)	Recurring cost (Lakhs/annum)
Environment Management Protection	293.52	50.075
Cost for Issues raised during public consultation	95	3.5

xxi. Details of project cost and employment:

Particulars	Budget (Rs. in Crores)
Total Cost for EMP (Capital Cost of EMP + Capital cost of public hearing)	Rs. 2.18 Crore
Project Cost	Project cost Rs. 12 Crore, however no capital investment involved as this proposal for validation of existing EC as per MoEFCC Notification dated 06.04.2018.
Employment	About 204 Nos.

3. Observation and Recommendation of the Committee:

The Project Proponent/Consultant presented the ADS reply raised by the Committee during its 18th EAC meeting held on 31.07.2023. The Project Proponent submitted that the public consultation was carried out as per EIA Notification 2006. The EAC enquired about the comments and views raised by the public during consultation. PP informed that no comments were received from the public; however, they have prepared an action plan and have committed Rs 95 lakh as a capital cost and a recurring cost of **Rs 3.5 lakh towards** infrastructure development, education facility, drinking water, skill development and healthcare facilities.

With regard to the delay in approval of Wildlife conservation, PP informed that initially, there was no clarity on Guidelines from State Forest Department regarding the Wildlife Conservation Plan preparation and its approval. Finally, State Govt. published a guideline in 2015 regarding the Wildlife Conservation Plan preparation and its approval by the competent authority. PP mentioned that upon publishing of the guideline, they started preparing the wildlife conservation plan by undertaking extensive data collection and analysis to ensure that their plan is grounded in the most accurate and up-to-date information. This process took more time than initially anticipated due to the need for thorough fieldwork and data verification. EAC noted that PP has made a payment towards the wildlife conservation plan and has submitted several receipts. The EAC accordingly asked the PP to submit the specific amount that it submitted for this mining project.

EAC further enquired about the demand notice dated 12.11.2017 raised by State DMG. PP informed that Pursuant to the Supreme Court Judgment W.P (C) 114/2014 dated 02-08-2017, office of the district mining officer issued a provisional demand notice for Amtipani Bauxite Mine amounting to Rs 97,85,066. PP further added that they have

never exceeded the production limits of the statutory clearances, and accordingly have filed, Writ Petitions before the Hon'ble High Court at Ranchi challenging this demand note. PP also mentioned that the Stay in this matter has been granted in favour of company as an interim protection and the matter is awaited for further hearing before Hon'ble High Court of Jharkhand. EAC noted the submission of the PP and asked PP to submit the chronology of the demand notice raised by State DMG. The EAC also noted that the boundary plantation has not been adequate and accordingly asked PP to submit the details of the existing boundary plantation. The Committee observed that one of the main concerns regarding whether the Eco-Sensitive Zone (ESZ) falls outside the project area is still under review. Accordingly, committee asked to ascertain the same.

In view of the above discussion, the Committee **deferred** the proposal and asked to submit the following requisite information:

- i. The Project Proponent needs to submit the details about the amount that it submitted towards wildlife conservation plan specifically for Amtipani Bauxite Mine project.
- ii. The Project Proponent needs to submit the chronology of the communications leading to the demand notice raised by State DMG along with the details of court cases filed by PP against the said notice.
- iii. The Project Proponent needs to submit the details of the existing boundary plantation as well as green belt development within the ML area.
- iv. The Project Proponent also needs to submit photos/documents in support that steps have been taken so that silt from project does not flow towards low lying areas/forest areas outside the project.
- v. PP should submit the name of railway siding it is using for transportation of its ore to Muri plant and the environmental safeguards (with proper geotagged photos,videos,etc.) it has taken for control of air and water pollution there and in the route. Suggestions of Regional office in this regard should be followed.
- vi. The Project Proponent shall provide the details of Special Pollution Control/ Abatement devices that have been installed/ proposed to be installed within the ML area and how does the technology compare with the best available technology in the field.
- vii. PP is required to submit proper design, dimension of garland drains and retaining wall to control surface run off.

1.4 Garbham Manganese Ore Mine for dump access over an area of 10 Ha with manganese production of 18000 TPA (50 TPD) and to set-up screening plant with a

handling capacity of 40 MT/hour powered by Diesel Generator from manual to screening in the ML area of 264.540 Ha by M/s Rashtriyalspat Nigam Limited located at Village Garbham, Tehsil Merakamudldam in District Vizianagaram in Andhra Pradesh - Extension of validity of Environmental Clearance (EC) dated 11.06.2021–reg.

[Online proposal no. IA/AP/MIN/ 180932/2020; F.No. J-11015/60/2020-IA-II (M), Consultant - M/s SV Enviro Labs & Consultants]

The instant proposal is for Extension of validity of Environmental Clearance (EC) dated 11.06.2021 of Garbham Manganese Ore Mine for dump access over an area of 10 Ha with manganese production of 18000 TPA (50 TPD) and to set-up screening plant with a handling capacity of 40 MT/hour powered by Diesel Generator from manual to screening in the ML area of 264.540 Ha by M/s Rashtriyalspat Nigam Limited (RINL) located at Village Garbham, Tehsil Merakamudldam in District Vizianagaram in Andhra Pradesh.

2. The details of the project as per the documents submitted by the Project Proponent and as revealed from the discussions held during the meeting are given as under:

- i. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals and falls under Category “A” as the mine lease area is greater than 250 Ha and appraised at the Central level.
- ii. The Project Proponent obtained Environmental Clearance (EC) vide EC letter dated 11.06.2021 for dump access over an area of 10 Ha in Garbham Manganese Ore Mine (264.540 Ha, 50 TPD/18000 TPA) of M/s Rashtriyalspat Nigam Limited with Manganese production of 50 TPD and to setup screening plant with a handling capacity of 40 MT/hour powered by Diesel Generator from manual to screening located at Village Garbham, Tehsil Merakamudldam, District Vizianagaram, Andhra Pradesh. One of the specific conditions (iii) is that “*As the mine lease is valid upto 07.10.2022, Environmental Clearance (EC) shall be valid upto the lease period only*”.
- iii. Now, the Project Proponent has submitted the proposal for extension of validity of Environmental Clearance (EC) in Form-6 vide online proposal no: IA/AP/MIN/180932/2020 dated 30.11.2022 as the Environmental Clearance (EC) expired on 07.10.2022.
- iv. The Project Proponent has submitted that the Industries & Commerce Department, Govt. of A.P has issued letter vide G.O. Ms. No. 214 dated 08.08.2008 for a period of 20 years and the deemed extension lease period was valid up to 07.10.2022. PP also submitted that the mine lease is deemed to be renewed as per sub section (6) of Section 8A of MMDR Amendment Act, 2015 up to the year 07.10.2032. ADMG, Vizianagaram has recommended the extension of validity period to Director Mines and Geology, Ibrahimpatnam, Krishna District vide Letter. No. 3527/M/2001, Dt.17.04.2017 & 03.04.2021.

- v. Further, the Project Proponent also submitted the letter from the Govt. of Andhra Pradesh, Dept. of Mines and Geology, Ibrahipatnam vide Lr.No: 4471387/D2/2022 dated 18.11.2022 stating that in the present case, the original grant was from 08.10.1982. As per Section 8-A (3) of New M&M (D&R) Amendment Act, 2015 the lease period shall be considered and deemed to have been granted for a period of 50 years. Accordingly, the lease period shall be extended upto 07.10.2032. A proposal was submitted to the Government of A.P requested to extending the lease period upto 07.10.2032 which is under consideration. In view of the circumstances stated above, the Competent Authority/Chairman, MoEF&CC New Delhi is requested to consider the request of lease holder M/s. Rashtriyalspat Nigam Limited (RINIL) for extension of Environmental Clearance validity period upto 07.10.2032, since as per Section 8-A (3) of New M&M (D&R) Amendment Act, 2015 the lease period shall be extended to 07.10.2032.
- vi. The Project Proponent has submitted the Review of Mining Plan approved by Indian Bureau of Mines (IBM), Hyderabad vide Letter No. AP/VZNR/MP/Mn-81/Hyd., Dated: 17.05.2022 for the period upto 2022-2023 (08.10.2022 to 31.03.2023) to 2026-2027 with a life of mine for another 33 years.
- vii. The Project Proponent has submitted that in line with EC order validity period, M/s. Rashtriyalspat Nigam Limited (RINIL) had stopped the excavation of Manganese Ore from the old dumps since 08.10.2022. The Project Proponent has submitted the authenticated past production details issued by the Dept. of Mines and Geology vide Lr.No: 3527/M/2001 dated 29.11.2022 for the period 2021-22 to 2022-23 (upto 7th October, 2022).
- viii. The proposal was earlier considered in the 12th EAC meeting held during 21-22nd March 2023 wherein the Committee deferred the proposal and asked to submit the requisite information. However, the Project Proponent has submitted the information on Parivesh such as Mine lease documents vide letter dated 07.06.2023, 14.09.2023 and 13.08.2024:

S.No.	Observation of EAC	Reply of Project Proponent
1.	The Project Proponent needs to give detail justification that why there is a delay in submission of the proposal for extension of validity of Environmental Clearance.	PP has submitted their justification vide letter dated 07.06.2023. RINIL submitted the proposal for extension of validity of Environmental Clearance (EC) in form 6 vide online proposal no. ITA/AP/MIN/180932/2020 dated 30.11.2022 as the EC expired on 07.10.2022. EAC in 12 th meeting held on 22.03.2023 deferred the RINL's proposal and sought justification for delay in submission of the proposal for extension of

		<p>validity of Environmental Clearance. The delay is submission is due to following reasons:</p> <p>i) Since 11.01.2018, RINL is continuously following up for obtaining deemed Mining Lease extension.</p> <p>ii) RINL is continuously followed up and finally got letter from DMG addressed to Member Secretary, MoEFFCC stating that “the extension is under consideration of Govt. of AP and it is requested to consider the request of RINL for extension of EC validity period up to 07.10.2032”. Subsequently, we have uploaded on 30.11.2022 prior to that on 07.11.2022 a letter addressed to Member Secretary for consideration for delay and allow us to upload online to MoEFF portal.</p> <p>iii) Finally, RINL submitted the online proposal for extension of validity of Environmental Clearance (EC) on dated 30.11.2022.</p> <p>Project Proponent has submitted the above reasons, due to which EC extension validity application on MOEFCC portal submitted on 30.11.2022 and delayed by 53 days.</p>
2.	The Project Proponent needs to submit the extension of valid mine lease document for the period upto 07.10.2032 from the Govt. of Andhra Pradesh.	Project Proponent has submitted the extension of valid mine lease document for the period upto 07.10.2032 from the Govt. of Andhra Pradesh vide letter dated 13.08.2024.
3.	PP shall submit the Certified Compliance Report of previous ECs and amendments (if any) through Ministry’s IRO.	Project Proponent has submitted the CCR vide letter dated 02.02.2021 issued from Andhra Pradesh Pollution Control Board, wherein the inspection of the mine completed on 27.01.2021.
4.	The Project Proponent needs to submit dust and noise mitigation measures during screening.	<p>PP has submitted the following mitigation measures:</p> <ul style="list-style-type: none"> • Water sprinklers are at every point of dust generation in the drawing (mechanized screen) for dust suppression. • Selection of suitable machinery and equipment.

		<ul style="list-style-type: none"> • Proper mounting of equipment. • Providing noise insulation/ rubber padding for equipment wherever practicable. • Proper maintenance and periodic lubrication of noise generating parts of the machines. • Green belt will be developed around the screening plant.
5.	<p>Project Proponent needs to adopt dust suppression measures during loading from the dump.</p>	<p>Project Proponent has submitted the following measures:</p> <ol style="list-style-type: none"> 1. Effective watering at the time of mining operation i.e., excavation, screening and loading. 2. Development of green belt. 3. Material should be transported by truck, which will be covered by tarpaulin. 4. Sprinkling of water over unpaved roads. 5. Controlling fugitive dust <p>Apart from mining, the other source of dust generation is the transport of the material by tippers from mine to the concern site. Adequate control measures are therefore to be taken during transportation and loading operations. These control measures are discussed in the following paragraphs.</p> <p>Haul road and stock piles</p> <p>Dust suppression system (water sprinkling) will be adopted on the roads used for transportation.</p> <p>Other measures include.</p> <ul style="list-style-type: none"> • Transport vehicles will be maintained leak proof to conserve and minimize water loss. • Water sprinklers will be fitted at all loading/transfer points. <p>Preventing dispersal of air borne dust</p> <p>In addition to the control measures proposed during mining and transport operations, following</p>

		steps would be taken to prevent air pollution due to air born dust. Dense tree plantation will be done along the roads.
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3. Observation and Recommendations of the Committee:

The Project Proponent/Consultant presented their proposal for the extension of the validity of the Environmental Clearance (EC) dated 11/06/2021 for Garbham Manganese Ore Mine. The Project Proponent informed the EAC that the Environmental Clearance (EC) was obtained vide EC letter dated 11.06.2021 for dump access over an area of 10 Ha in Garbham Manganese Ore Mine (264.540 Ha, 50 TPD/18000 TPA) with Manganese production of 50 TPD and to setup screening plant with a handling capacity of 40 MT/hour powered by Diesel Generator from manual to screening and EC was valid upto 07.10.2022 as the mine lease was valid upto 07.10.2022. The EAC noted that the Project Proponent has submitted the proposal for extension of validity of EC on 30.11.2022 i.e., after the expiry of the EC on 07.10.2022.

The EAC reiterated the Ministry's Notification S.O 2944(E) dated 14.09.2016 wherein it has been mentioned that "(b) more than thirty days after the validity period of Environmental Clearance but less than ninety days after such validity period, then, based on the recommendations of the Expert Appraisal Committee or State Level Expert Appraisal Committee or District Level Expert Appraisal Committee, the delay shall be condoned with the approval of the Minister in charge of Environment, Forest and Climate Change or Chairman, as the case may be".

The Project Proponent and the consultant present the point wise reply to the ADS raised during the 12th Expert Appraisal Committee (EAC) meeting held on 21/03/2023 to 22/03/2023. The Project Proponent stated the since 11.01.2018, M/s RINL continuously followed up for obtaining deemed Mining Lease extension order from DMG, Andhra Pradesh and because of that there was a delay in filing the instant EC extension application. The EAC noted the submission of Project Proponent and observed that M/s RINL Limited has obtained an extension in mine lease, valid up to 07/10/2032, from the Government of Andhra Pradesh vide letter dated 13/08/2024.

In view of the above, the Committee **recommended** the proposal for the extension of validity of Environmental Clearance (EC) dated 11.06.2021 of Garbham Manganese Ore Mine for dump access over an area of 10 Ha with manganese production of 18000 TPA (50 TPD) and to set-up screening plant with a handling capacity of 40 MT/hour powered by Diesel Generator from manual to screening in the ML area of 264.540 Ha by M/s Rashtriyalspat Nigam Limited located at Village Garbham, Tehsil Merakamuddam in District Vizianagaram in Andhra Pradesh with following additional conditions:-

- i. Specific condition no. 3 of the EC letter dated 11/06/2021 shall be replaced and the same would now be read as: "Environmental Clearance shall be valid till 07/10/2032, i.e., up to the validity of the Mine Lease".

- ii. The Project Proponent should install the Continuous Ambient Air Quality Monitoring Stations (CAAQMS) as per the scientific study and in consultation with CPCB/SPCB. The real time data so generated should be displayed digitally at entry and exit gate of mine lease area for public display and shall be linked to server of CPCB/SPCB. Installation of wind screens at appropriate location should also be explored.
- iii. PP needs to comply the OM dated 24.07.2024 of MoEFCC, where it is stated that the plantation of saplings shall be carried out in the earmarked 33% greenbelt area as part of the tree plantation campaign “ EK Ped Ma ke Naam” (एक पेड़ माँ के नाम) and the details of the same shall be uploaded in the MeriLife portal (<https://merilife.nic.in>)
- iv. All other terms and conditions of the EC letter dated 11/06/2021 remains unchanged.

1.5 Sarasani Harima Somna Limestone for mining of Limestone with production capacity of 3.0 MTPA in the ML area of 547.5512 ha by M/s Ambuja Cements Limited located at Villages Harima, Sarasani and Somna, Tehsil Deh & Nagaur, District Nagaur, Rajasthan– Terms of Reference reg.

[Online Proposal No. IA/RJ/MIN/493694/2024, File No. IA-J-11015/68/2024-IA-II (NCM), EIA Consultant - J. M. Environet Pvt. Ltd.]

The instant proposal is for Sarasani Harima Somna Limestone for mining of Limestone with production capacity of 3.0 MTPA in the ML area of 547.5512 ha by M/s Ambuja Cements Limited located at Villages Harima, Sarasani and Somna, Tehsil Deh & Nagaur, District Nagaur, Rajasthan.

2. The details of the project as ascertained from the document submitted by the Project Proponent are given as under:

- i. The mine lease area is located between Latitude 27°14'35.6300" to 27°15'16.8258"N and Longitude 73°51'29.3851" to 73°55'04.0.500"E.
- ii. The mine lease area falls under the Survey of India Toposheet No. Core Zone: G43B15 (45 E/15), G43B16 (45E/16) Buffer Zone G43B15 (45E/15), G43B16 (45E/16) and falls in Seismic Zone II.
- iii. The proposed project activity is listed at Schedule no. 1(a) Mining of Minerals, Category “A” as the mining lease area is greater than 250 ha, and therefore project is being considered at central level.
- iv. Details of Mine Lease:

S. No	Prospecting License/ Letter of Intent (LoI)/ Grant	Date of the grant	Name of the Mineral &	Period of Grant	Granted by	Mine lease area in Ha

	of Mine lease and Lr No		(Major/ Minor)			
1.	Letter of Intent (LoI) was issued through e-auction process conducted by the Govt. of Rajasthan.	17.05.2024	Limestone	3 years	Govt. of Rajasthan	547.5512 ha

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

Private land	420.2462 ha
Government land	127.305 ha (Grazing land: 71.3498 ha)
Forest Land	-
Total Mining lease area (MLA), Ha	547.5512 ha
Private land for crusher, workshop & other infrastructure outside the MLA	No infrastructure is proposed outside the ML area.

vi. Mining plan details:

Mining Plan including Progressive Mine Closure Plan (approved by Indian Bureau of Mines/ DMG)	Letter No.	Mining Plan with Progressive Mine Closure Plan for proposed capacity has been submitted to IBM, Ajmer.
	Date	
	Mineral & (Major/ Minor)	
	Mine Lease Area, Ha	
	Validity	
Additional information (if any)	Mining Plan with Progressive Mine Closure Plan for proposed capacity has been submitted to IBM, Ajmer.	
Mining Parameters	Quantitative Description	
Method of Mining	Fully Mechanized Opencast Mining Method.	
Drilling/ Blasting	<p>Drilling: Drilling operations will be done mechanically by using hydraulic drill for deep hole drilling equipped with wet drilling/ dust extractor.</p> <p>Blasting: Blasting will be done by PETN Booster/ slurry explosives and ANFO/ Slurry using NONEL. No Secondary blasting will be undertaken and boulders will be reduced in size by deployment of Rock Breaker.</p> <p>Blasting operations will be proposed to be carried out in a controlled manner to minimize fly rock generation for safety of civil structures, machines and nearby habitation and agricultural fields.</p>	

	Drilling & Blasting Parameters		
	S. No.	Drilling & Blasting Parameters	
	1.	Dia of Hole	115 mm
	2.	Burden	3.0 m
	3.	Spacing	5.0 m
	4.	Depth of the Hole	11 m
	5.	Yield /Mtr	34.09
6.	Initiation system	NONEL	
Geological Reserves	166.94 Million TPA (as on 01.07.2024)		
Mineable Reserves	103.89 Million TPA (as on 01.07.2024)		
Breakup of Total Excavation (Topsoil/OB/SB/IB/Mineral Rejects/ Waste, MTPA)	Total Excavation: 5.50 MTPA <u>Breakup of Total Excavation:</u> 1. Limestone: 3.0 MTPA 2. Top Soil: 0.35 MTPA 3. Over Burden: 2.15 MTPA		
Life of mine	38 years		
Mine Bench Height & Bench Width	Bench height: 10 m (Maximum) Bench Width: 10 m (Ultimate)		
No. of Mine Benches	4 benches at conceptual stage		
Existing Depth, m bgl	It's a greenfield project.		
Ultimate Depth of Mining, m bgl	276 m AMSL (34 m bgl)		
Ground Water Table, m bgl	83 - 119 m bgl		
Details of ground water intersection	Water table during Pre-Monsoon is 218 to 254 m AMSL (83 m to 119 m bgl) and during Post Monsoon is 218 to 256 m AMSL (81 m to 119 m bgl). Ultimate working depth of the mining operation will be 276 m AMSL (34 m bgl). The water table will not be intersected during mining.		
Individual bench slope	85°		
Overall pit slope	45°		
Details of existing/ proposed Crusher	There is no crusher proposed inside the Mining Lease Area, as a primary crusher of 2000 t/hr rated capacity will be established in adjacent lease (3D2 Limestone Block).		
Mineral Beneficiation	Not Applicable		
RoM output size	Not Applicable		
Transportation details including capacity of dumper/tipper, mode of transport and distance	3.0 Million TPA of Limestone will be crushed in crusher (2000 TPH) proposed in adjacent 3D2 Limestone Block. All the crushed limestone from proposed crusher will directly dispatched to the existing cement plant via overland belt conveyor of		

	length ~ 24 km and by road till commissioning of conveyor belt
Generation of Topsoil/OB & its Management during plan period & conceptual period.	<u>Top Soil</u> : At the conceptual period, 9.17 million tonnes of Top soil will be generated which will be utilized for plantation/greenbelt. <u>Over Burden</u> : At the conceptual period, 39.66 Million Tonnes of waste will be generated which will be backfilled in the 290.92 Ha area and same will be used for agriculture/plantation/Re-grassing.
Generation of Mineral Rejects/ Waste & its Management during plan period & conceptual period	-

vii. Water requirement

Total water requirement	150 KLD	Fresh Water	150 KLD
		Treated water	-
Source	Matasukh lignite Mine/ Proposed STP plant (at village Harima)/ Ground water and rain water collected in mine sump as and when developed.		
Permission for withdrawal/ intersection along with details of grant and its validity	To be obtained		

viii. Nearest village/ town/ highway/ interstate boundary/ railway station/ water bodies/ monument/ forest

Particulars	Particular's Name	Directions (Approx.)
Nearest Village	Harima	1.0 km in NW direction
Nearest Town	Jayal	29.0 km in ESE Direction
Nearest State/ National Highway	NH - 58 SH - 19	1.5 Km in NW direction 7.5 km in SW Direction
Interstate Boundary	NA	NA
Railway Station/Railway line	Nagaur Railway Station	15.0 km in NW Direction
Water Bodies	Chapar Naadi	1.0 km in SE direction
	Jakhali Naadi	7.0 km in NNW direction
	Bamanda Nada	5.0 km in SE direction
	Pinsariya Naadi	6.0 km in SE direction
	Janjolai Naadi	9.5 km in North direction
	Bohra Naada	8.5 km in WNW direction
Forest	NA	NA

ix. Presence of Environmentally Sensitive areas in the study area

Forest Land/ Protected Area/ Environmental Sensitivity Zone	Yes/ No	Details of Certificate/letter issued by the concerned Department mentioning the Lr no, date of grant and remarks
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Forest Land within the mine lease area and (if yes) status of Forest Clearance	No	Certificate/ letter from the concerned Department with be obtained during EIA study.
National Park	No	Certificate/letter from the concerned Department with be obtained during EIA study.
Wildlife Sanctuary	No	
Elephant/Tiger Reserve	No	
Eco-Sensitive Zone (ESZ) /Eco-Sensitive Area (ESA)	No	
Coastal Regulation Zone (CRZ)	No	-
Schedule - I species (No.s and name of schedule - I species with authenticated letter)	-	This proposal is for ToR, Detailed Biological Study will be carried out after grant of ToR and if schedule - I species are present in the study area, Wildlife Conservation Plan will be duly approved by Chief Wildlife Warden.
Wildlife Conservation Plan	-	

x. Green belt/Plantation details:

Proposed area for green belt/plantation and no. of saplings proposed	Total area to be covered under greenbelt/plantation will be 316.46 ha (Greenbelt on 7.5 m lease periphery, unworked area and backfilled area).
Budget for green plant & plantation till the end of life of mine.	Rs. 80 Lakhs
Budget for nursery	N/A
Details of existing plantation and its survival rate	Greenfield project.
No. of tree cuts in the mine lease area and compensatory afforestation	1200
Particulars for Green belt/plantation	Area covered (in Ha)
7.5 m barrier & non-mineralized zone	Total area to be covered under greenbelt/plantation will be 316.46 ha (Greenbelt on 7.5 m lease periphery, unworked area and backfilled area).
On virgin land (towards habitation and others)	
50 m safety zone of roads & electric lines	
Backfilled area on non-grazing land	
on top benches	

xi. Baseline detail

Baseline Data (Air/ Water/ Noise/ Soil/ Hydro geological study/ Traffic Study/ others)
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Period of baseline data collection	March to May, 2024
Season (Summer / Pre-monsoon / Post-monsoon / Winter)	Summer Season
Predominant Wind direction (From)	Seasonal: SW Annual: SW

xii. Rehabilitation & Resettlement:

R & R details	<ul style="list-style-type: none"> Total mining lease area is 547.5512 ha out of which 420.2462 ha is private land. Land will be purchased with negotiation and R&R provisions will be followed as per Central and State Government Rules & Notifications.
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xiii. Court case details:

Court Case, No and its present status	No Court Case or Litigation is pending
Undertaking by Project Proponent w.r.t court case	Submitted

xiv. Details of project cost and employment:

Particulars	Budget (Rs. in Crores)
Total Project Cost	Rs. 469 Crores
Employment	79 persons

3. Observation and Recommendation of the Committee:

The Project Proponent/Consultant presented the proposal for Terms of Reference through a KML file and explained the key site features, including Harima Village located 1.0 km away, the Govt. Primary School, Kripa Ki Dhani, Harima (30 m in the north direction), and the Nala and Nadi lying within their study area.

The Committee observed that the Project Proponent has a valid letter of intent issued by the Government of Rajasthan, and the Mining Plan along with the Progressive Mine Closure Plan is at the approval stage. The Committee also noted that Harima village is situated within 1.0 km in the northern direction, and the nearest school, Govt. Primary School, Kripa Ki Dhani, Harima, is 30 m to the north.

The Project Proponent committed to adopting Controlled Blasting with the optimum use of explosive material to minimize impact. Additionally, water sprinklers will be used on haul roads, loading, unloading, and transfer points to arrest dust emissions. Regular maintenance of roads will be carried out by deploying a motor grader and soil compactor. To control noise levels, regular maintenance of vehicles, adequate silencers and AC cabins will be provided in Heavy Earth Moving Machines (HEMM).

The Project Proponent has committed to several important environmental measures. A tree planting campaign titled "एक पेड़ माँ के नाम" as per Ministry's OM dated 24.07.2024

will be initiated, and 33% of the mining lease area will be developed into a greenbelt to enhance local biodiversity and ecological balance. To manage water runoff and prevent soil erosion, garland drains with siltation pits will be installed at the base of the dumps, ensuring that runoff water is directed into the water reservoirs formed by the mined-out pits. Additionally, regular monitoring of ground water quality and water levels will be conducted to ensure environmental compliance and sustainability.

The Committee observed that the proposal under consideration is for a green field project focused on the mining of limestone. Notably, a school is located very close to the mining lease (ML) area. The Committee emphasized that measures must be taken to protect the school from potential impacts of mining activities. It was recommended that the school be relocated to a safe distance in consultation with local authorities /district administration before the commencement of mining operations to ensure the safety and well-being of the students and staff.

Subsequently, the Committee requested the project proponent to conduct a detailed study on the implementation of a conveyor belt and surface miner. This study should focus on evaluating the potential benefits of these measures in reducing the environmental pollution load associated with the mining activities. The goal is to ensure that effective pollution control strategies are in place to minimize the environmental impact of the project.

Based on aforesaid discussions and presentation made by the Project Proponent and the Consultant, the Expert Appraisal Committee (EAC), in its meeting held from 9th to 11th September 2024, under the provisions of the EIA Notification, 2006 and its subsequent amendments, has recommended the proposal for the grant of Terms of Reference (ToR) for the Sarasani Harima Somna Limestone mining project by M/s Ambuja Cements Limited, with a production capacity of 3.0 MTPA in the ML area of 547.5512 ha, located in the villages of Harima, Sarasani, and Somna, Tehsil Deh & Nagaur, District Nagaur, Rajasthan. The recommendation is for undertaking a detailed EIA/EMP study and is subject to the following specific conditions, in addition to the standard ToR conditions applicable to non-coal mining projects:

- i. The Project Proponent needs to submit the action plan for shifting the school outside the mine lease area.
- ii. The Project Proponent needs to provide the action plan with a definite timeline for the installation of the proposed OLBC. PP shall also undertake scientific study to explore the possibility of using surface miner through an institute of national repute.
- iii. The Project Proponent needs to submit the detailed scientific study on flora and fauna and also to highlight on the endangered species. The Project Proponent needs to verify the list as per the latest Wildlife Protection Amendment Act, 2022.

- iv. The Project Proponent needs to submit the letter from the State Forest Department regarding whether the instant mine leases fall under Aravalli region or not.
- v. The Project Proponent needs to monitor the ambient air quality and noise level at the mine lease boundary, nearest village, crusher, predominant downwind direction and at other sensitive receptors. Accordingly, Project Proponent shall propose to install Continuous Ambient Air Quality Monitoring Station within certain timeline.
- vi. The Project Proponent should prepare the EMP considering the scenario of pollution to be generated for normative and peak total excavation for assessing air pollution, noise level and ground vibration.
- vii. 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.
- viii. The Project Proponent needs to carry out the Public Hearing as per provisions of EIA Notification, 2006. PP should also submit the time bound action plan on concerns of the public through a separate budget with capital expenditure with a timeline of 3 years. The Project proponent shall ensure that the activities proposed under the public hearing shall be different from the CSR activities.
- ix. The Project Proponent needs to undertake the enumeration of the species within the mine lease area before cutting. The Project Proponent also needs to submit the compensatory afforestation plan for the no. of trees to be cut in the mine lease area and also to explore the possibility of tree transplantation.
- x. The Project Proponent needs to submit the action plan for undertaking the plantation along the 7.5m barrier, safety zone of tar road/cart tracks, electric line etc., PP should also submit the details no of saplings to be planted, type of saplings proposed and the area to be covered under greenbelt/plantation along with the timeline and budget. The greenbelt/plantation plan shall be prepared in such a way that the ecology of the area shall be restored.
- xi. The Project Proponent shall carry out the assessment of impact due to the proposed project as per the guidelines issued by the Central Ground Water Authority from time to time and submit the same as a part of the EIA/EMP.
- xii. The project proponent shall conduct hydrological study for projects involving intersection of ground water table as per the guidelines issued by the Central

Ground Water Authority from time to time and submit the same as a part of the EIA/EMP.

- xiii. The Project Proponent shall explore the possibility of reduction of specific water requirement by optimization / technology up gradation, etc. The efforts shall be delineated in the EIA/EMP.
- xiv. The Project Proponent shall prepare the scheme for mandatory recycle/re-use of water as specified by the Central Ground Water Authority for different category areas seeking NoC for ground water withdrawal and the shall submit as part of EIA/EMP report.
- xv. The Project Proponent needs to submit the detailed R&R plan covering all the components viz. number of Project Affected Families (PAF) 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.
- xvi. The Project Proponent 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 in consultation with the local people. Further, PP needs to submit the possession certificate and timeline for acquiring the land at the time of submission of EC proposal.
- xvii. The Project Proponent shall conduct drone survey of the mine lease area and buffer area and submit during the appraisal for EC.
- xviii. The Project Proponent needs to consider the Nala and Nadi existing within the study area of instant project and their protection plan shall also be prepared with the EIA-EMP report.
- xix. The Project Proponent shall provide the details of Special Pollution Control/ Abatement devices that have been installed/ proposed to be installed within the ML area and how does the technology compare with the best available technology in the field

1.6 Ramai Limestone Mine for mining of limestone with production capacity of 1.8 MTPA in the ML area of 334.21 ha by M/s Renuka Cement Limited located at Village Ramai, Mandal Adilabad, District Adilabad, Telangana— Terms of Reference reg.

[Online Proposal No. IA/TG/MIN/492985/2024, File No. IA-J-11015/62/2024-IA-II(NCM), EIA Consultant - B. S. Envi-Tech Pvt Ltd]

This proposal is for Terms of Reference for Ramai Limestone Mine for mining of limestone with production capacity of 1.8 MTPA in the ML area of 334.21 ha by M/s Renuka Cement Limited located at Village Ramai, Mandal Adilabad, District Adilabad, Telangana.

2. The details of the project as per the document submitted by the Project Proponent are given as under:

- i. The mine lease area is located between Latitude 19°37'58.50"N - 19°39'21.40"N and Longitude 78°37'30.10"E - 78°39'7.48"E.
- ii. The mine lease area falls under the Survey of India Toposheet No. 56 I/10 and falls in Seismic Zone II.
- iii. The proposed project activity is listed at Schedule no. 1(a) Mining of Minerals, Category "A" as the mining lease area is greater than 250 ha, therefore project is being considered at central level.

iv. Lease Details:

Granted Prospecting License	Area	334.21 Ha.
	Execution date	14.06.2018
	Proceedings No.	. 790/ML/2017
Prospecting operation, Commence date	-	
Application for the Mining lease area and Date	-	
Validity of mine lease	28.01.2046	
Letter of Intent	Letter No.	G.O.Ms.No.40
	Date	10.07.2017

v. Mining plan details:

Mining Plan(approved by Indian Bureau of Mines/DMG)	Letter No.	AP/ADB/MP/Lst-3/Hyd
	Date	19.07.2024
	Validity	2025-26
Mining Parameters	Quantitative Description	
Bench Height	7 m	
Bench Width	15m	
Method of Mining	Fully mechanized opencast mining method.	
Individual bench slope	60°	
Overall pit slope	45°	
Drilling/Blasting	Deep- hole drilling & blasting and use of HEMM with Excavator & dumper combination.	
RoM output size	output size is -75mm	
Life of mine	Lease period : 37.8 years	
Transportation details	The limestone mined from this mine will be transported to a crusher located at 1.5km from the pit head. Tippers of 40 tonne capacity will be used for transport of limestone from pit to crusher	

Tippers capacity	40 tonnes
Additional information(if any)	--

vi. Land Area Breakup:

Private land	[39.98 Ha Patta Lands + 184.39 Ha Ceiling Pattas+96.55 Ha Assigned Pattas
Government land	13.29 Ha
Total Mining lease area (MLA)	334.21 Ha
Private land for crusher, workshop & other infrastructure outside the MLA	Nil

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

Particulars	Villages	Directions
Nearest Village	Addagutta- within ML Area	--
	Sonerao gutta- within ML Area	--
	Jamuldhari – 0.8 km	SW
	Ramai – 1.0 km	NNE
Nearest town	Adilabad-10.5km	WNW
Nearest Highway	(NH-353B)- Adilabad - Rajura – 8.36km	N
Nearest Railway station	Adilabad– 9.7 km	WNW
Nearest water bodies	Sat Nala– 0.5 km	NE
	Nallantiya Vagu-2.4km	NE

viii. Water requirement

Total water requirement	125m ³ /day	Fresh water	-
		Treated water	-
Source	Initially the water requirement will be met from Cement Plant. Later on the water requirement will be met through mine pits		
Permission	Not Applicable		

ix. 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	<ul style="list-style-type: none"> Satnala RF – Adjacent – S Yapalguda RF – 0.5km – SW Yapal Guda RF – 3.3 km – WNW
National park	No	-
Wildlife Sanctuary & Forest	No	-

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

Schedule-1 species	Yes/No	Details of Certificate/letter/Remarks
Schedule-I species	No	None

xi. Green belt/plantation details:

Proposed area for green belt/plantation	Greenbelt Development (7.5m barrier zone):7.39 Ha Greenbelt along the 50m safety barrier zone of canal and Power transmission lines Public roads: 62.48 Ha Thus the total area under greenbelt will be 69.87 Ha
Budget for green plant& plantation till the end of life of mine.	The details will be provided in EIA/EMP report
Budget for nursery	The details will be provided in EIA/EMP report

Particulars for Green belt/plantation	Area covered (in Ha)
7.5 m barrier & non-mineralized zone	7.39 Ha
50 m safety zone of nallah, roads, electric lines	62.48 Ha
500 m safety zones of nearest habitation villages	

xii. Baseline detail

Baseline Data (Air/ Water/ Noise/ Soil/ Ground water table/ others)	
Period of baseline data collection	Post monsoon Season 2024 i.e. October 2024 to December 2024
Season (Summer / Pre-monsoon / Post-monsoon / Winter)	Postmonsoon Season 2024

xiii. Court case details:

Court Case	There is no litigation/ court case pending against the project
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xiv. Rehabilitation & Resettlement:

R & R details	<p>There are Two Habitations present in the proposed mine lease area. Three such habitations consist of pakka houses, cement structures and huts:</p> <ul style="list-style-type: none"> • Sonerao Gutta- Around 18 houses/huts • Addagutta – Around 30 houses/huts <p>The 300m safety zone has been left around the Habitation area and there will not be any displacement of human settlement taking place. Controlled Blasting will take place by following DGM rules and regulations.</p> <p>The mining operations will not disturb/relocate any village. No public places, monuments etc., exist within the lease area or in the vicinity</p>
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3. Observations and Recommendations of the Committee:

The Project Proponent/ Consultant has presented the proposal for Terms of Reference through Kml file and explained the key site features showing villages Jamuldhari located at 0.8 km in the south-west direction, Addagutta & Sonerao gutta located within ML Area and major Road Adilabad – Kanpa.

The Project Proponent/Consultant presented the chronology of the mining lease and its transfer. The Committee noted the mine lease was initially issued in the name of M/s. Zenith Steel Pipes and Industries Limited on 02.12.1995, which was valid upto 28.01.2016. The mine lease was transferred in the name of M/s. Birla Cement & Industries Limited on 30.07.1998. Further the change of name from M/s. Birla Cement & Industries Limited to M/s. Renuka Cement Limited and mine lease extension for 50 years as per section 8A (3) of MMDR Amendment Act 2016 was given on 10.07.2017.

The Committee noted the presence of habitation in and around the ML area and accordingly advised Project Proponent to propose adequate safety measures for protection of the inhabitants. EAC also advised PP to explore the options for relocating the inhabitants located outside the mine lease area the mine lease area. PP informed that they will not undertake mining activities near the existing habitation. Further, EAC asked the PP to prepare a report on the presence of tiger around the mine lease area and submit the same at the along with EIA-EMP report. A Satnala Left Bank Canal is passing through the ML area for which the permission/certificate required from Irrigation department. Committee also suggested PP to conduct study regarding the impact of blasting on the habitations within the lease area and its close vicinity.

Based on aforesaid discussions and presentation made by the Project Proponent and the Consultant, the EAC in its meeting held during 9-11th September, 2024 under the provisions of EIA Notification, 2006 and its subsequent amendments therein, recommended the proposal for grant of Terms of Reference (ToR) for Ramai Limestone Mine for mining of limestone with production capacity of 1.8 MTPA in the ML area of 334.21 ha by M/s Renuka Cement Limited located at Village Ramai, Mandal Adilabad, District Adilabad, Telangana for undertaking detailed EIA/EMP study subject to the following specific conditions in addition to the standard ToR conditions applicable for Non-coal mining projects:-

- i. The Project Proponent needs to explore all options for relocating the habitation lying within the ML area. Report regarding the same should be submitted.
- ii. The Project Proponent needs to prepare a report on the presence of tiger within the study area, and submit an action plan for its conservation in EIA/EMP report.
- iii. PP needs to obtain the NoC for mining with regard to the Sathnala Left Bank Canal Passing through the ML area from Irrigation department/water resources department.
- iv. The Project Proponent needs to conduct a study regarding the impact of blasting on the existing habitation and also upon the sensitive location lying near to the ML area such as nallahs/dams etc.

- v. The Project Proponent needs to engage a national institute of repute to explore the feasibility of using surface miners.
- vi. The Project Proponent needs to submit the detailed scientific study on flora and fauna and also to highlight on the endangered species. The Project Proponent needs to verify the list as per the latest Wildlife Protection Amendment Act, 2022.
- vii. The Project Proponent needs to monitor the ambient air quality and noise level at the mine lease boundary, nearest village, crusher, predominant downwind direction and at other sensitive receptors. Accordingly, Project Proponent shall propose to install Continuous Ambient Air Quality Monitoring Station within certain timeline.
- viii. The Project Proponent should prepare the EMP considering the scenario of pollution to be generated for normative and peak total excavation for assessing air pollution, noise level and ground vibration.
- ix. 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.
- 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 through a separate budget with capital expenditure with a timeline of 3 years. The Project proponent shall ensure that the activities proposed under the public hearing shall be different from the CSR activities.
- xi. The Project Proponent needs to undertake the enumeration of the species within the mine lease area before cutting. The Project Proponent also needs to submit the compensatory afforestation plan for the number of trees to be cut in the mine lease area and also to explore the possibility of tree transplantation.
- xii. The Project Proponent needs to submit the action plan for undertaking the plantation along the 7.5m barrier, safety zone of tar road/cart tracks, electric line etc., PP should also submit the details of number of saplings to be planted, type of saplings proposed and the area to be covered under greenbelt/plantation along with the timeline and budget. The greenbelt/plantation plan shall be prepared in such a way that the ecology of the area shall be restored.

- xiii. The Project Proponent shall carry out the assessment of impact due to the proposed project as per the guidelines issued by the Central Ground Water Authority from time to time and submit the same as a part of the EIA/EMP.
- xiv. The project proponent shall conduct hydrological study for projects involving intersection of ground water table as per the guidelines issued by the Central Ground Water Authority from time to time and submit the same as a part of the EIA/EMP.
- xv. The Project Proponent shall explore the possibility of reduction of specific water requirement by optimization / technology up gradation, etc. The efforts shall be delineated in the EIA/EMP.
- xvi. The Project Proponent shall prepare the scheme for mandatory recycle/re-use of water as specified by the Central Ground Water Authority for different category areas seeking NoC for ground water withdrawal and the shall submit as part of EIA/EMP report.
- xvii. The Project Proponent needs to submit the detailed R&R plan covering all the components viz. number of Project Affected Families (PAF) 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.
- xviii. The Project Proponent needs to submit the plan for Socio economic development of the neighborhood habitats based on the need based survey along with the time bound action plan in consultation with the local people. Further, PP needs to submit the possession certificate and timeline for acquiring the land at the time of submission of EC proposal.
- xix. The Project Proponent shall conduct drone survey of the mine lease area and buffer area and submit during the appraisal for EC.
- xx. The Project Proponent shall submit an action plan in accordance with the Ministry's OM dated 24.07.2024.
- xxi. The Project Proponent shall provide the details of Special Pollution Control/ Abatement devices that have been installed/ proposed to be installed within the ML area and how does the technology compare with the best available technology in the field.
- xxii. Project proponent needs to carry out EIA/EMP keeping in mind the location of the School and to incorporate appropriate safeguards in the EIA/EMP report.

1.7 Jonnagiri Gold Mine Project for mining and processing of Gold Ore ROM 0.4 MTPA and Ore Processing Plant of 0.3 MTPA in the ML area of 597.82 ha by M/s Geomysore Services (India) Limited located at village Jonnagiri, Pagadrayi and Erragudi, Tehsil Tuggali Mandal, District Kurnool, Andhra Pradesh.

[Online Proposal No. IA/AP/MIN/492801/2024; File No. J-11015-393-2008-IA-II-(M), EIA Consultant - B. S. Envi-Tech Pvt Ltd] – Terms of Reference reg.

The instant proposal is for Terms of Reference for Jonnagiri Gold Mine Project for mining and processing of Gold Ore ROM 0.4 MTPA and Ore Processing Plant of 0.3 MTPA in the ML area of 597.82 ha by M/s Geomysore Services (India) Limited located at village Jonnagiri, Pagadrayi and Erragudi, Tehsil Tuggali Mandal, District Kurnool, Andhra Pradesh.

2. The details of the project as per the document submitted by the Project Proponent are given as under:

- i. The mine lease area is located between Latitude 15°13'57.67" N to 15°15'14.90" N and Longitude 77°34'46.7" E to 77°36'27.2" E.
- ii. The mine lease area falls under the Survey of India Toposheet No. 57 E/11 & E/12 and falls in Seismic Zone II.
- iii. The proposed project activity is listed at Schedule no. 1(a) Mining of Minerals & 2(b) for Mineral beneficiation, category "A" as the mining lease area is greater than 250 ha, and therefore project is being considered at central level.
- iv. PP had obtained the EC vide letter no. J-11015/393/2008-IA.II (M) dated 02.08.2010 for Jonnagiri Gold Ore Mine and Processing Plant.
- v. Details of Mine Lease:

S.no	Prospecting License/ Letter of Intent (LoI)/ Grant of Mine lease and Lr No	Date of the grant	Name of the Mineral & (Major/ Minor)	Period of Grant	Granted by	Mine lease area in Ha
1	Memo No. 9609/M.I (1)2005-1	23.01.2008	Gold Ore	30 years The lease is valid up to 20.10.2043.	Govt. of Andhra Pradesh	597.82

S. No	Details of grant of Mine Lease deed execution	Period of Grant		Name of the Mineral	Mine lease area in Ha
		From	To		
1	Mining Lease was executed by Asst. Director of Mines & Geology, Kurnool	21.10.2013	20.10.2043	Gold Ore	597.82

vi. Land use/Land cover of the Mine Lease Area:

Private land	Patta Land – 525.66ha. (86.4owned by GMSI)
Government land	Govt. Land – 72.16 ha.
Forest land	0
Total Mining lease area (MLA)	597.82
Private land for crusher, workshop & other infrastructure outside the MLA	-

vii. Mining plan details:

Mining Plan including Progressive Mine Closure Plan (approved by Indian Bureau of Mines/DMG)	Letter No.	Lr.No. AP/KNL/MP/GOLD-1/Hyd
	Date	12.05.2023
	Mineral & (Major/Minor)	Gold Ore - Major Mineral
	Mine Lease Area, Ha	597.82
	Validity	2022 - 2023 to 2027 -2028.
Mining Parameters	Quantitative Description	
Method of Mining	Open cast and underground mechanized method using Heavy earth moving machinery, deep hole drilling, blasting and deploying hydraulic excavators and tippers combination.	
Drilling/Blasting	Deep hole drilling and blasting, loading the broken material by heavy machinery like hydraulic excavators and dumpers for transporting the gold ore to Processing Plant.	
Geological Reserves	10043513 tonnes	
Mineable Reserves	10043513 tonnes	
Breakup of Total Excavation (Topsoil/OB/SB/IB/Mineral Rejects/Waste, MTPA)	GMSI proposes to produce 0.30 million TPA gold ore production Total Excavation :4.077 MTPA (ROM: 0.4 MTPA + OB: 3.45 MTPA + Top soil: 0.227 MTPA) & 0.30 Million TPA Gold Ore Processing Plant	
Life of mine	25 years	
Mine Bench Height & Bench Width	Mine Bench Height - 7.5 m & Bench Width (working bench) - 6m	
No. of Mine Benches	More than 6	
Existing Depth, m bgl	8m	
Ultimate Depth of Mining, m bgl	Opencast – 180m bgl (250 m RL) in eastern block, and Underground 350m bgl in western block	

Ground Water Table, m bgl	The water table occurs at 14.3 m below the ground level and ground water will be encountered during 2nd year of mining.
Details of ground water intersection	Yes
Individual bench slope	70°
Overall pit slope	35°
Details of existing/ proposed Crusher	The crusher plant is designed to operate with a throughput of 200tph for 15 hours per day
Mineral Beneficiation	Gold Ore Processing Plant (1000 TPD)
RoM output size	1m ³
Transportation details including capacity of dumper/tipper, mode of transport and distance	The ore produced from the mine is transported to the stock yard from where it will be transported to ore processing plant
Generation of Topsoil/OB & its Management during plan period & conceptual period	The soil is reddish and at places black. The total top soil generation is estimated to be about 0.52 million tonnes. This top soil will be used for afforestation and blanketing of the overburden dump and tailing dump area. Overburden 30.0 million tonnes waste is generated from the mine and it is disposed to the identified dump site.
Generation of Mineral Rejects/ Waste & its Management during plan period & conceptual period	-

viii. Water requirement

Total water requirement	1640m ³ /day. However, 1040m ³ /day is recycled from process and 600 m ³ /day of makeup water	Fresh water	600 m ³ /day
		Treated water	1040m ³ /day
Source	Source: HNSS Canal		
Permission for withdrawal/ intersection along with details of grant and its validity	GMSI had obtained permission from the HNSS canal for pumping to the tune of 5,88000m ³ /Annum.		

ix. Nearest village/ town/ highway/ interstate boundary/ railway station/ water bodies/ monument/ forest

Particulars	Particular's Name	Distance & Directions
Village	Bollavanipalli	– Adjacent-E
	Pagidirai	– 0.65 km – N
	Upparalla Palli	– 1.43 km – SE
	Jonnagiri	– 0.71 km – SW

Town	Kurnool	- 78.66 km – NE.
Highway	SH-33- Pattikonda - Gooty	- 1.37 km – W
Interstate Boundary	Andhra Pradesh - Karnataka	- 44.81 km – W
Railway Station/Railway line	Railway Station: Nearest Railway Station - Pagidirai RS Railway line: Pendekallu Junction – Gooty Junction of South-Central Railway line.	- 2.24 km – N. Railway Line is passing inside the mine site in the Eastern part
Water bodies	YT Cheruvu Ura Vanka Lingala Vanka	– 9.21 km – SW – Adjacent to the Mine Site – W – 4.12 km – NW
Forest	Tuggali RF Erragudi RF	– 4.86 km – N – 1.12 km – ENE

x. Presence of Environmentally Sensitive areas in the study area

Forest Land/ Protected Area/ Environmental Sensitivity Zone	Yes/ No	Details of Certificate/ Letter issued by the concerned Department mentioning the Lr no., date of grant and remarks
Forest Land within the mine lease area and (if yes) status of Forest Clearance	No	-
National park	No	-
Wildlife Sanctuary	No	-
Elephant/Tiger Reserve	No	-
Eco-Sensitive Zone (ESZ) /Eco-Sensitive Area (ESA)	No	-
Coastal Regulation Zone (CRZ)	No	-
Schedule-I species (No.s and name of schedule-I species with authenticated letter)	Yes	The reported/ observed list of fauna and their conservation status as per Wild Life Act 2022) in study area. Jackal, Indian Porcupine, Grey Mongoose, Bengal Fox, Indian Chameleon, Indian Cobra, Shikra, Common Pochard, Peafowl, Brahminy Kite and Barn Owl Schedule-I species reported in Study area. As per Wildlife (Protection) Act, 2022 list of Schedule - I species recorded in the study area

Wildlife Conservation Plan	Yes	Draft Wild Life Conservation Plan submitted to Chief Wild Life Warden, Govt. of Andhra Pradesh for approval vide letter dated 02.02.2024.
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xi. Green belt/ plantation details:

Proposed area for green belt/plantation and no. of saplings proposed	Existing: 6.6 Ha with 10,000 saplings @ 1500 saplings per Ha. Proposed: 68.4 Ha totalling to 75 Ha during the lease period i.e 2043. Another 102600 saplings will be planted
Budget for green plant & plantation till the end of life of mine.	An amount of Rs.40 Lakhs has been spent. Additional amount of Rs.3.0crores is earmarked.
Budget for nursery	None
Details of existing plantation and its survival rate	<ul style="list-style-type: none"> Existing Greenbelt: 6.6 Ha Number of saplings: 10,000 Amount spent Rs Lakhs: 40 Survival rate:80%
No. of tree cuts in the mine lease area and compensatory afforestation	0
Particulars for Green belt/plantation	Area covered (in Ha)
7.5 m barrier & non-mineralized zone	During the life of the mine, GMSI will develop an area of 75.0ha under greenbelt along the roads.
50 m safety zone of nallah, roads, electric lines	-
300 m safety zones of nearest habitation villages	-

xii. Baseline detail

Baseline Data (Air/ Water/ Noise/ Soil/ Hydro geological study/ Traffic Study/ others)	
Period of baseline data collection	01.10.2023 to 31.12.2024
Season (Summer / Pre-monsoon / Post-monsoon / Winter)	Post Monsoon Season
Predominant Wind direction (From)	ESE-SE-SSE direction

Ambient Air Quality (no. of locations) and results	<p>AAQ Parameters at 08 Locations</p> <p>PM10 = 40.2 to 65.6 µg/m³ PM2.5 = 25.3 to 35.4 µg/m³ SO2 = 9.5 to 16.8 µg/m³ NO2 = 10.5 to 18.3 µg/m³ CO: less than 1 ppm</p>
Noise level (no. of locations) and results	<p>Noise Levels at 10 Locations</p> <ul style="list-style-type: none"> • Day time: Core zone: 63.2 dB (A); Buffer Zone: 58.5 dB (A) • Night time: Core zone 51.8 – 54.7 dB (A); Buffer Zone: 42.4 – 44.6 dB (A)
Water Quality (no. of locations) and results	<p>Ground Water Quality At 08 Locations</p> <ul style="list-style-type: none"> • pH = 7.28 – 7.48 • Total Hardness = 270 - 580 mg/l. • Chlorides = 75 - 285 mg/l. • Fluoride = 0.90 – 1.4 mg/l. • Heavy Metals (Zinc) = <0.02 <p>Surface Water Quality at 06 Locations</p> <p>pH: 8.26 – 8.40; DO: 5.1– 5.6 mg/l BOD: 2 - 3 mg/l; COD: 10 – 20mg/l</p>
Soil Quality (no. of locations) and results	<p>Soil Quality 8 Locations</p> <p>Moderate fertility</p> <ul style="list-style-type: none"> • pH Value of 1:2 aqueous extract Solution - 7.55 - 7.81 • E.C, mS/cm of 1:2 aqueous extract Solution - 0.334 - 0.562 • Mineralized Nitrogen (Available Nitrogen), kg/ha - 259 – 339 • Available Phosphorous as P2O5, kg/Ha: 21 – 46 • Available Potassium as K2O, Kg/Ha - 194 - 292 • Organic Carbon, % - 0.29 - 0.61
Hydro geological study and results	<p>The site falls within a semi-arid region, and receives most rainfall during both the South-West Monsoon (June – September) and also some rainfall during the North-East Monsoon (October – January). The region experiences negligible rainfall outside of these monsoon seasons.</p>

	<p>The Jonnagiri site falls within the catchment of the Pennar river which flows from west to east approximately 33km south of the site. The Pennar river basin totals 55 000km², accounting for 1.8% of the total area of India.</p> <p>A catchment divide between the Pennar and Krishna catchments runs approximately 14 km north of the site. The Krishna River flows from west to east approximately 50km north of the site and is one of the main river systems in India, with a total basin area of approximately 255 000km², accounting for 8.5% of the total area of India.</p> <p>The ground water development computation at present is 46.1 % only and since, it is well below the 70 % hence, categorized as safe.</p>
<p>Traffic study (no. of locations) and results</p>	<p>The excavated ore will be utilised in ore processing plant existing within the mining lease area. The overburden waste will be transported to the identified dump yards within the mining lease area. The only product, which comes out, is the gold dore bar/Bullion gold.</p> <p>The impact of the project on the road network in terms of congestion to the traffic or vehicular emissions is not anticipated, as the traffic of dumpers is within the lease and less movement outside. Hence the impact due to transportation is marginal and confined to the mining lease area.</p>

xiii. Public Hearing (PH) Details

<p>Advertisement for PH with date (name of major national daily and one regional vernacular daily newspaper)</p>	<p>The Subject proposal is for Terms of reference. However this can be exempted from public hearing as per MOEFCC Gazette Notification S.O.1247 (E) dated 18.03.2021 since more than 60% of establishment/ construction of the Gold Ore Processing Plant has already been completed in terms of project investment and as well as more than 50 % physical activities on the ground</p>
<p>Date of PH</p>	
<p>Venue</p>	
<p>Chaired by</p>	
<p>Main issues raised during PH</p>	
<p>Budget proposed for addressing issues raised during PH over 3 years</p>	
<p>Additional information (if any)</p>	

- xiv. Details of CTE/CTO, Certified Compliance Report, Certified Production Details from the inception of the mine:

Particulars	Details of Letter along with date of grant and validity
Consent to Establish	Order No. 163/PCB/CFE/RO-KNL/HO/2010-40 dated 30.03.2011
Consent to Operate	Order No.449765/APPCCB/KNL/CTO/HO/2023 dated 17.07.2023 valid upto 30.06.2024
Certified Compliance Report and Inspection date	File No: SO/VIJ/EPA/EC-A/101/06-41/2024 Dated 30.05.2024
Certified Production Details from the inception of the mine (in tabular form against the EC capacity)	Project Proponent has submitted dated 18.01.2024

- xv. Rehabilitation & Resettlement:

R & R details	Not Applicable
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- xvi. Court case details:

Court Case, No and its present Status	PP submitted that no case is pending against the instant project.
Undertaking by Project Proponent w.r.t court case	No Litigation case is pending against the proponent.

- xvii. Project Proponent has submitted the detail reply to MoEF&CC:

S.No	Particulars	Reply by project proponent
1	Latest CCR not older than one year from date of inspection	The latest Certified Compliance Statement of earlier EC issued by Regional Office, Vijayawada, Ministry of Environment, Forest & Climate Change vide File No. SO/VIJ/EPA/EC-A/101/06-41/2024 Dated 30.05.2024. There are 4 observations and all of them complied with and action taken report was submitted to IRO and the Action Taken report along with Acknowledgement is submitted.

2	Details construction status (activity-wise) ore processing plant, which include civil, electrical and machinery along with latest photographs.	The construction of the Gold Ore Processing Plant is more than 65% complete in terms of project investment. The status of the construction of the processing plant is as follows:		
			Overall Progress - Department	ACTUAL
		A	Engineering	85%
		B	Supply (Includes Bought outs and Manufacturing)	70%
		C	Civil Work	65%
		D	Structural Work	55%
		E	Others (Electrical, Instrumentation, Automation, Utilities, Support Infrastructure, Plant Erection & Commissioning)	40%
		65.25%		

xviii. Details of the Environmental Management Plan (EMP)

S.No.		Capital Cost Rs. Lakhs	Recurring cost/ annum Rs. Lakhs
1.0	Air Environment		
	2 Nos of 8 KL Water Tankers	30.00	5.00
	Additional 1 No of 20 KL Water Tankers	20.00	5.00
	Dry fog system (mist canon)	10.00	2.00
2.0	Noise Environment		
	Enclosure for processing plants	2.00	0.5
	Personal Protection Equipment for Workers	25.00	5.00
3.0	Water Environment		
	Check dams	3.0	1.0
	Sewage treatment plant of 100 kld	20.00	3.00
	ETP	15.00	3.00
4.0	Waste Dump Management		
	Retaining walls	10	0.45
	Safety Bunds	5.0	0.55
	Garland Drains	5.0	0.50
5.0	Afforestation Plan		
	Afforestation on mined-out area Reclamation, Safe zone for canal, railway line and for village, Tailing dump Waste dump (for Life of Mine)	300.00	50.00
	Site Specific Wild Life Conservation Plan	13.25	0
6.0	Occupational Health – Pre and post medical Examination	35.00	5.00
7.0	Environmental Monitoring		

S.No.		Capital Cost Rs. Lakhs	Recurring cost/ annum Rs. Lakhs
	Meteorological station	3	0.25
	Continuous Monitoring Stations	30 (1 Nos)	2.0
	Ambient Air Quality Monitoring	-	3.0
	Fugitive Emission	-	2.0
	Soil Quality	-	3.0
	Water Quality (Both Ground & Surface)	-	6.0
	Noise	-	1.0
	Ground vibrations		3.0
	Ground Water Level	-	0.5
	Total	526.25	101.75

xix. Details of project cost and employment:

Particulars	(Rs. In Lakhs)
Total cost of EMP (Capital Cost of EMP + capital cost of Public hearing)	Capital Cost of EMP: Rs. 526.25 Lakhs
Project Cost	Rs. 32,000 Lakhs
Employment (No.s)	350 persons

3. Observations and Recommendation of the EAC:

The Project Proponent/ Consultant presented the proposal for Terms of Reference through Kml file and explained the key site features showing water body, National Highway, Forest area, nearest villages namely Pagidirai located at 0.65 km in North direction & Jonnagiri located at 0.71 km in South-west direction from the mine lease area.

The Committee noted the request of the Project Proponent to consider the proposal as per the Notification S.O.1247 (E) dated 18.03.2021 for getting exemption from Public hearing. To avail the exemption from the public hearing the project proponent submitted the status report dated 06.09.2024 entitled "*PROGRESS UPDATE REPORT ON PLANT CONSTRUCTION OF GOLD MINING PROJECT AT JONNAGIRI, KURNOOL DISTRICT, AP*" prepared with respect to the progress made in the construction of Processing Plant. As per the report, the Project has been evaluated under the heads namely Civil, Structural, Mechanical including Material handling, De-dusting systems, dust suppression system, Water systems, compressed air systems & Air conditioning & Ventilation systems and EIA (Electrical & Instrumentation). The progress made under each head as given in the project is detailed below: -

Civil	63.94%
Structural	70.30%
Mechanical	64.48%
EIA	59.91%

In view of the above, committee opined that this report in itself cannot be considered to avail the exemption in accordance with the Ministry's notification S.O.1247 (E) dated 18.03.2021. Additionally, EAC also raised its concern regarding the handling, storage and mitigation of anticipated pollution caused by Cyanide. The EAC was of the opinion that PP must undertake all precautionary measures while handling the cyanide, it may also engage domain experts to prevent its percolation to ground.

In view of the above, the Committee **deferred** the proposal and asked to submit the following requisite information:

- i. PP should submit an undertaking in the form of an affidavit stating that
 - a) Confirm that there was no construction done in the project after the expiry of EC and there is no violation of EIA notification 2006 (as amended),
 - b) The project does not fall in the violation category and
 - c) percentage of construction completed within the EC validity. In addition to this PP shall also provide the year wise progress report (in terms of physical construction) from inception of the project to till date.
- ii. The Project Proponent needs to submit the copy of Draft Wild Life Conservation Plan submitted to Chief Wild Life Warden, Govt. of Andhra Pradesh for approval vide their letter dated 02.02.2024.
- iii. The Project Proponent needs to submit the conceptual plan having detail of dumpsites, processing plant site and transportation route to be used within the ML area.
- iv. PP should specify mitigation measures that will be taken to avoid any contamination of water (surface /underground) and soil due to handling of cyanide)
- v. The Project Proponent shall provide the details of Special Pollution Control/ Abatement devices that have been installed/ proposed to be installed within the ML area and how does the technology compare with the best available technology in the field.

2.1 Mahulsukha Iron and Manganese Ore Block with total excavation of Iron ore 16,62,977 TPA(ROM 10,00,000 TPA) and total excavation of Manganese Ore 14,07,519 TPA(ROM 1,50,000 TPA) in the ML area of 390.317 ha by M/s Rungta Sons Private Limited (former lessee M/s Patnaik Minerals Private Ltd) located at villages Randa, Rantha and Bhutuda under Bonai SubDivision and Tehsil Lahunipada, District Sundargarh, Odisha.

[Online Proposal No. IA/OR/MIN/488863/2024, File No. J-11015/75/2020- IA-II(M), EIA Consultant Kalyani Laboratories Private Limited] – Environmental Clearance (EC) Reg.

The instant proposal is for Environmental Clearance for Mahulsukha Iron and Manganese Ore Block with total excavation of Iron ore 16,62,977 TPA (ROM 10,00,000 TPA) and total excavation of Manganese Ore 14,07,519 TPA (ROM 1,50,000 TPA) in the ML area of 390.317 ha by M/s Rungta Sons Private Limited (former lessee M/s Patnaik Minerals Private Ltd) located at villages Randa, Rantha and Bhutuda under Bonai Sub Division and Tehsil Lahunipada, District Sundargarh, Odisha.

2. The details of the project as per the documents submitted by the Project Proponent are given as under:

- i. The mine lease area is located between Latitude 21° 46' 52.12" to 21° 49' 04.55" N and Longitude 85° 07' 55.43" to 85° 09' 10.42" E.
- ii. The mine lease area falls under the Survey of India Toposheet No. 73/G1 and falls in Seismic Zone III.
- iii. The proposed project activity is listed at Schedule no. 1(a) Mining of Minerals, under Category "A" as the mining lease area is greater than 250 ha, and therefore project is being considered at central level.
- iv. Terms of Reference was accorded vide letter no. J-110105/75/2020-IA.II (M) dated 20.01.2021 for Mahulsukha Iron and Manganese Ore Block by M/s Patnaik Minerals Private Ltd.
- v. Details of Mine Lease:

S. No.	Prospecting License/ Letter of Intent (LoI)/ Grant of Mine lease and Lr No	Date of the grant	Name of the Mineral&(Major/ Minor)	Period of Grant	Grant ed by	Mine lease area in Ha
1		03.02.1945	Manganese	20 years	Steel & Mines Dept, Govt. of Odisha	
2		03.02.1985	Manganese	20 years		399.838
3	Letter No.IIIB) SM13/2012 - 3326/S&M,	18.04.2015	Iron & manganese e	20 years 3.02.2005 to 31.03.2020	Steel & Mines Dept, Govt. of	

	Bhubaneswar,				Odisha	
4	5518/IV(B) SM-23/2020/S M dated	29.06.2020	Iron & Manganese	50 years		390.317 ha (as per DGPS)/399.838ha (as per ROR)
5	3013/S&M, 18.03.2020	29.06.2020	Iron & Manganese (Major)	50 years	Steel & Mines, Govt. of Odisha	390.317
6	12975/SN (Transfer of Lease in favour of M/s Rungta Sons Pvt. Ltd.)	28.12.2023	Iron and Manganese (Major)	28.06.2070	Steel & Mines, Govt. of Odisha	390.317

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

Private land	1.081
Government Non forest land	6.799
Forest land	382.437
Total Mining lease area (MLA), ha	390.317
Private land for crusher, workshop & other infrastructure outside the MLA	No

vii. Mining plan details:

Mining Plan including Progressive Mine Closure Plan (approved by Indian Bureau of Mines/DMG)	Letter No.	MCDR-MiFLOCR/05/2022-BBS-IBM_RO_BBS
	Date	22.05.2024
	Mineral & (Major/Minor)	Major
	Mine Lease Area, Ha	390.317 ha
	Validity	31.03.2025
Mining Parameters	Quantitative Description	
Method of Mining	As per the approved Mine plan dated 22.05.2024, method of mine mentioned as Mechanized.	
Drilling/Blasting	Drilling: Drilling to be done using 115 mm diameter drills with 10% sub grade drilling.	

	Blasting: Blasting will be done by adopting conventional explosives such as PGC, toe blast.		
Geological Reserves	Manganese Ore: 0.73 MT, Iron Ore: 32.81 MT		
Mineable Reserves	Manganese Ore: 0.67 MT Iron Ore: 26.78 MT		
Breakup of Total Excavation (Topsoil/OB/SB/IB/Mineral Rejects/Waste, MTPA)	Particulars	Manganese Ore	Iron Ore
	Total excavation	1407519 TPA	1662977 TPA
	ROM Ore	150000 TPA	1000000 TPA
	Waste/OB	1257519 TPA	662977 TPA
Life of mine	Manganese Ore :7 Years, Iron Ore:- 29 Years		
Mine Bench Height&Bench Width	6m Height &9m Width (For Manganese Ore)&9m height &12m width (For Iron Ore)		
No. of Mine Benches	11nos (Iron ore) 12nos (Manganese Ore)		
Existing Depth, m bgl	Manganese ore – 536mRL&Iron Ore – 701mRL		
Ultimate Depth of Mining, m bgl	Manganese Ore : 468 m AMSL&Iron Ore: 510 m AMSL		
Ground Water Table, m bgl	Pre-Monsoon: 465 m AMSL &Post monsoon: 460 m AMSL		
Details of ground water intersection	Mining will not intersect the ground water table		
Individual bench slope	70°		
Overall pit slope	40°		
Details of existing/proposed Crusher	Mobile Screen Plant (1Nos.)-150TPH, Mobile Screen plant (2No.) 250 TPH, Mobile Screen plant in combination with crusher (2No.)250TPH		
Mineral Beneficiation	No beneficiation proposed within the lease area		
RoM output size	0-10, 10-75 mm(Mn. Ore) & 0-10, 10-30, 5-18mm (Iron ore)		
Transportation details including capacity of dumper/tipper, mode of transport and distance	Iron Ore: 3333 Tonnes per / day Effective Working Hour for transportation per day -16 hours No. of Trips (Filled and unfilled) per day- 190 trips Frequency of tippers deployed /hour – 11 nos Manganese Ore: 500 Tonnes per / day Effective Working Hour for transportation per day -16 hours No. of Trips (Filled and unfilled) per day- 50 trips Frequency of tippers deployed /hour – 3 nos		
Generation of Topsoil/OB & its Management during plan period & conceptual period	No top soil generated from the mines, Waste generation: Iron Ore:- 331482 cum /annum (max.), Manganese Ore :- 628752		

<p>Generation of Mineral Rejects/Waste & its Management during plan period & conceptual period</p>	<p>At present out of the total lease area, only 28.791 Ha have been excavated for manganese ore production, OB dump is spread over an area of 17.938 Ha.</p> <p>During the plan period the area of excavation will increase to 33.954 Ha, OB dump will increase to 22.870 Ha. It is anticipated that 29018270 m³ wastes will be generated at conceptual stage. The entire waste will be disposed of at earmarked site. From 2020-21 to 2023-24 total 186528 m³ waste material is generated and disposed off at earmarked site. During this plan period 03nos. of dump D-1, D-3 & D-4 will be proposed for Manganese ore section and 01 dump D-2 will be developed in iron ore section. The details of waste generation during plan period are as follows:</p>																																								
	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Sl. No.</th> <th style="text-align: center;">Year</th> <th style="text-align: center;">Dump ID</th> <th style="text-align: center;">Type of dump</th> <th style="text-align: center;">Proposed Area (ha)</th> <th style="text-align: center;">Height (m)</th> <th style="text-align: center;">Total Dump Quantity (m³)</th> <th style="text-align: center;">Total Dump Quantity (MT)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td style="text-align: center;">2024-25</td> <td style="text-align: center;">D-1</td> <td style="text-align: center;">Waste</td> <td style="text-align: center;">1.99</td> <td style="text-align: center;">36.0</td> <td style="text-align: center;">469162.50</td> <td style="text-align: center;">938325</td> </tr> <tr> <td style="text-align: center;">2</td> <td style="text-align: center;">2024-25</td> <td style="text-align: center;">D-2</td> <td style="text-align: center;">Waste</td> <td style="text-align: center;">1.39</td> <td style="text-align: center;">24.0</td> <td style="text-align: center;">331488.50</td> <td style="text-align: center;">662977</td> </tr> <tr> <td style="text-align: center;">3</td> <td style="text-align: center;">2024-25</td> <td style="text-align: center;">D-3</td> <td style="text-align: center;">Waste</td> <td style="text-align: center;">0.96</td> <td style="text-align: center;">18.0</td> <td style="text-align: center;">57875.50</td> <td style="text-align: center;">115751</td> </tr> <tr> <td style="text-align: center;">4</td> <td style="text-align: center;">2024-25</td> <td style="text-align: center;">D-4</td> <td style="text-align: center;">Waste</td> <td style="text-align: center;">0.61</td> <td style="text-align: center;">20.0</td> <td style="text-align: center;">101721.50</td> <td style="text-align: center;">203443</td> </tr> </tbody> </table>	Sl. No.	Year	Dump ID	Type of dump	Proposed Area (ha)	Height (m)	Total Dump Quantity (m ³)	Total Dump Quantity (MT)	1	2024-25	D-1	Waste	1.99	36.0	469162.50	938325	2	2024-25	D-2	Waste	1.39	24.0	331488.50	662977	3	2024-25	D-3	Waste	0.96	18.0	57875.50	115751	4	2024-25	D-4	Waste	0.61	20.0	101721.50	203443
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viii. Water requirement:

<p>Total water requirement</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Surface Water</td> <td style="text-align: center;">117 KLD</td> </tr> <tr> <td>Ground water</td> <td style="text-align: center;">84 KLD</td> </tr> </table>	Surface Water	117 KLD	Ground water	84 KLD
Surface Water	117 KLD				
Ground water	84 KLD				
Source	KuradihNalla& bore well				
Permission for withdrawal/intersection along with details of grant and its validity	The application for surface water has been made to DoWR, Govt. of Odisha vide application No. 2024061041000667 on 10.06.2024. Renewal of NOC for the ground water has also being applied.				

ix. Nearest village/town/ highway/interstate boundary/railway station/water bodies/monument/ forest

Particulars	Particular's Name	Distance &Directions
Village	Bhutuda	0.5 km
Town	Barsuan	10 km
Highway	NH 215	15 Km
Interstate Boundary	Nil	Within 10 Km
Railway Station/Railway line	Barsuan	12 km

Water Bodies	RajabasaNala	Within the lease area
Forest	Sarkunda RF	1 Km

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

Forest Land/Protected Area/Environmental Sensitivity Zone	Yes/No	Details of Certificate/letter issued by the concerned Department mentioning the Lr no, date of grant and remarks
Forest Land within the mine lease area and (if yes) status of Forest Clearance	382.480 ha	The total mine lease area is 390.317 ha out of which 382.437 ha is forest land, private land is 1.081 ha and Govt. non forest land is 6.799 ha.
National Park	Nil	
Wildlife Sanctuary	Nil	Stage-II Forest clearance granted for diversion of 227.0 ha of forest land in favour of M/s Aryan Mining and Trading Corporation Ltd was transferred to M/s Patnaik Minerals Pvt. Ltd as per the provision of Mines and Minerals (Development and Regulation) Amendment Act, 2021 aligned with Forest Conservation Act, 1980.
Elephant/Tiger Reserve	Nil	
Eco-Sensitive Zone(ESZ) /Eco-Sensitive Area(ESA)	Nil	
Coastal Regulation Zone (CRZ)	Nil	
Schedule-I species (No.s and name of schedule-I species with authenticated letter)	4nos	Indian Elephant, Python , Sloth bear & Peacock
Wildlife Conservation Plan	Yes	Site Specific Wild life conservation plan is under preparation at division office , Bonai for approval from PCCF(Wildlife)

xi. Green belt/plantation details:

Proposed area for green belt/plantation	103.726 Ha
Budget for green plant & plantation till the end of life of mine.	Rs. 58,00,000
Budget for nursery	Saplings will be procured from forest department nursery
Additional information (if any)	Till date an area of 32.57 hectares has been covered under plantation including the safety zone along ML boundary. During plan period, 1.20 hectares area will be proposed for plantation. During the conceptual period 103.726 Ha is proposed for green belt safety

	zone will be covered under plantation. Further, 148.15 Ha of the reclaimed quarry area will be planted and 120.79 Ha area will be covered under bench plantation.
Particulars for Green belt/plantation	Area covered (in Ha)
7.5 m barrier & non-mineralized zone	9.73 Ha
Along nalla, Road and other vacant area	93.996 ha

xii. Baseline detail:

Baseline Data (Air / Water / Noise / Soil / Hydro geological study/ Traffic Study/ others)	
Period of baseline data collection	December – 2020 to February - 2021
Season (Summer / Pre-monsoon / Post-monsoon / Winter)	Winter
Predominant Wind direction (From)	NE
Ambient Air Quality (no. of locations) and results	9 Locations PM2.5 – 16.7 to 32.5 µg/cu.m PM10 – 33.6 to 69.3 µg/cu.m SO2 – 4.3 to 11.5 µg/cu.m NO2 – 11.7 to 19.5 µg/cu.m
Noise level (no. of locations) and results	9 Locations Day (dBA _{Leq}) 30.8 to 55.2 Night (dBA _{Leq}) - 24.6 to 43.6
Water Quality (no. of locations) and results	8 locations pH – 7.0 - 7.45 Dissolved Oxygen – 6.4 – 7.5 mg/l Biochemical Oxygen Demand – <2 mg/l Chemical Oxygen demand – <5 mg/l
Soil Quality (no. of locations) and results	8 locations pH – 6.1 to 6.6, Potassium – 202 to 430 Kg/ Ha, Phosphorous – 12.5 to 82 Kg/ Ha, Nitrogen – 151 – 339 Kg/Ha, Electrical Conductivity- 0.038 to 0.108 ms/Cm
Hydro geological study and results	Mining will not intersect the ground water level. So hydrogeological study was not carried out.
Traffic study (no. of locations) and results	The traffic density study was conducted in on one traffic points on 12.02.2021 on Cross section of mines road and OMC mines – Barsuan Road V/ C= 0.36 LoS - B

xiii. Public Hearing (PH) Details:

Advertisement for PH with date (name of major national daily and one regional vernacular daily newspaper)	The "New Sunday Express" & Dharitri 05.09.2021
Date of PH	08.10.2021
Venue	Bhutuda Gram Panchayat Office
Chaired by	Add. District Magistrate, Regional Officer, State Pollution Control Board
Main issues raised during PH	Loss of agriculture, Dust pollution, Water pollution, plantation, employment, construction of village road, Medical facility, Electrification, Drinking water supply, transportation.
Budget proposed for addressing issues raised during PH	242.50 Lakhs

xiv. Details of CTE/CTO, Certified Compliance Report, Certified Production Details from the inception of the mine:

Particulars	Details of Letter along with date of grant and validity
Consent to Establish	Memo No. 11380/IND-II-NOC-4049, dated 19.05.2006
Consent to Operate	Memo No. 4940/IND-I-CON-2254, validity up to 31.03.2025
Certified Compliance Report and Inspection date	File No. 101-833/21/EPE/1435 dated 11.11.2021
Certified Production Details from the inception of the mine (in tabular form against the EC capacity)	Attached

xv. Rehabilitation & Resettlement (R&R):

R & R details	NA
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xvi. Court case details:

Court Case, No and its present status	No litigations/ court cases pending against the Project Proponent.
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xvii. Affidavit/Undertaking details:

Affidavit as per Ministry's OM dated 30.05.2018	The Project Proponent has submitted an affidavit bearing affidavit no. 67AA 339736 and reported that all documents such as EIA-EMP report, Public Hearing proceedings and existing CTE/CTO is related to the M/s Rungta Sons private limited.
Undertaking by Project Proponent in EIA/EMP report	Project Proponent has submitted an undertaking for owning the content and information provided in the EIA-EMP Report.

Undertaking by Consultant in EIA/EMP report	Consultant has submitted an undertaking for preparation of EIA-EMP report and data provided factually correct.
Plagiarism Certificate	The Project Proponent has submitted the Certificate of Plagiarism check using software and submitted in the EIA-EMP Report

Earlier, the proposal was considered in the 30thEAC (NCM) meeting held during 12th , 13th & 14th June, 2024 and return the proposal in present formsince, the application is currently in the name of M/s Patnaik Minerals Pvt Ltd. The EAC also opined that while submitting the fresh application for EC on the name of M/s Rungta Sons Pvt Ltd, PP shall submit an affidavit stating that they shall abide by the content and commitment submitted by the earlier PP vide EIA/EMP, Public Hearing proceedings, existing conditions of CTE/CTO etc. PP shall submit all the documents in the name of M/s Rungta Sons Pvt Ltd.

The Project Proponent has submitted their application on 29.07.2024 along with all the documents on the company name of M/s Rungta Sons Private Limited.

xviii. Details of the Environmental Management Plan (EMP):

Sl. No	Proposed EMP	Capital Cost (INR) Lakhs	Recurring Cost Lakhs (INR)/Annum
1.	Air Environment		
a.	Installation of Fixed water sprinklers along the haul road (20m gap for 3 Km) 150 nos sprinklers	30.00	04.00
b.	Fixed Water sprinkler near the dump and quarry area (100 nos)	15.00	05.00
c.	Water pipeline with pumping system	05.00	01.00
d.	Mobile water tanker for water sprinkling on the transportation road	30.00	06.00
e.	Ambient air quality Monitoring at 4 stations	--	3.0
2.	Water Environment		
a.	Construction of Garland drain	10.00	1.00
b.	Construction of Retaining wall	12.00	1.00
c.	Construction of Settling Pond	08.00	1.00
d.	Rain water harvesting Pond	06.00	00.50
e.	STP	12.00	03.00
f.	Construction of two no of culverts on BhutudaNala	30.00	3.0
e.	Surface water quality Monitoring (4 locations)	--	2.8

f.	Ground water quality Monitoring (4 locations)	--	4.8
g.	Installation of Piezometer	5.0	1.0
3.	Noise Environment		
a.	Enclosure for DG set	1.50	0.60
b.	Noise Monitoring in Core and Buffer zone	1.50	1.5
4.	Environmental monitoring programme	10.00	5.00
5.	Green Belt development (Plantation)	58.0	10.0
6.	Occupational Health		
a.	Setup of dispensary within the lease area	10.0	2.0
b.	Occupational health checkup (IME & PME)	4.00	0.50
c.	Ambulance facility for the workers and local people	15.0	3.0
d.	PPE kits for Workers (150 sets)	3.0	1.00
Total		396	63.7

xix. Details of project cost and employment:

Particulars	(Rs. In Crore)
Total cost of EMP (Capital Cost of EMP + capital cost of Public hearing)	Capital Cost EMP Rs. 396.0 Lakhs + Public hearing commitment cost: Rs.250 lakhs
Project Cost	167 Crores
Employment (Nos)	341nos

3. Observations and Recommendations of the Committee:

In accordance with the recommendation of the 30th EAC Meeting held during 12-14 June 2024, the project proponent has applied for Environmental Clearance on Parivesh Portal in the name of M/s Rungta Sons Pvt Ltd. The EAC noted that the instant proposal is for reconsideration of Environmental Clearance (EC) for mining of Iron and Manganese Ore in Mahulsukha Iron and Manganese Ore Block in the mine lease area of 390.317 ha (as per DGPS)/399.838 ha (as per ROR).

The EAC reiterated that the instant proposal is an auctioned mine vested from M/s Aryan Mining Trading Corporation Ltd to M/s Patnaik Minerals Private Ltd. The EAC also noted that the vesting order issued by the Govt of Odisha vide Lr No.4246/IV(B)SM-23/2020/SM dated 30.05.2020 stating that the without prejudice to the generality of the provisions of section 8B(2) of the MMDR Act, 1957, the details of the valid rights, approvals, clearances, licenses, and the like held by the previous lessee are vested in favour of M/s Patnaik Minerals Pvt. Ltd. and the vesting order is valid for a period of two years from the date of execution of lease deed or till the date of getting fresh approvals, clearances, licenses, permits, and the like, whichever is earlier. The mine lease was

executed on 29.06.2020 for a period of 50 years. Accordingly, M/s Patnaik Minerals obtained ToR vide letter dated 20.01.2021. Upon preparation of EIA/EMP in accordance with the prescribed ToR, M/s Patnaik Minerals submitted the application for EC in parivesh portal on 15.05.2022. PP also informed that the instant proposal had been considered for EC by EAC during 52nd EAC held on 14-15 June 2022, 5th EAC held on 18-20 October 2022, 7th EAC held during 5-6 December 2022, 11th EAC held during 1-2 March 2023 and in 24th EAC held during 26-28 December 2023 and 30th EAC held during 12-14 June 2024. During the 30th EAC meeting, PP mentioned that on 28.12.2023 the instant lease of Mahulsukha Iron & Manganese Ore Block was transferred in the name of M/s Rungta Sons Pvt. Ltd vide proceedings no. 12975/SN dated 28.12.2023 of Steel & Mines Department, Govt. of Odisha under the provision of Mines and Minerals (Development and Regulation) Amendment Act, 2021.

Thereafter Project Proponent/Consultant presented the KML file and explained the site features to the EAC members. PP also presented the reply with regard to the recommendation of the EAC -subcommittee site visit report circulated vide minutes of the 11th EAC meeting dated 1-2 March 2023. The EAC noted the submission of the PP and enquired about the status of Forest Clearance. PP informed that the total forest land is 382.437 ha and out of which Stage-II FC was obtained for diversion of 227.0 ha of forest land vide F.No.8-93/2004-FC dated 18.08.2008 in favour of M/s Aryan Mining & Trading Corporation Private Ltd. The remaining virgin forest land is 155.437 Ha. The ex-lessee (M/s Patnaik Minerals Pvt. Ltd) had applied for diversion of balance forest over 155.437 ha. on 27.04.2021 (Proposal no. 122038/2021).

EAC reiterated that previous lessee M/s Patnaik Minerals Pvt Ltd vide minutes of the 5th EAC held on 18-20 October 2022 has stated that the stage II FC transfer of 227 ha diverted forest land is under process and accordingly asked the Project Proponent to submit the details whether FC stage-II was transferred in the name of M/s Patnaik Minerals or not and whether PP has made any application in its own name for FC Stage –II transfer . The EAC also asked the project proponent to submit a copy of the application for obtaining Stage-I Forest Clearance for the virgin area of 155.437 ha in the name of the current lessee, M/s Rungta Sons Private Limited. The Committee further observed that a road passes through the mining lease (ML) area, cutting through dense forest land. Two dump locations have been identified along the boundary of the forestland. Regarding the vegetation within the ML area, the Committee emphasized that the survival rate of plants should be maintained between 85% and 90%. Groundwater quality, including parameters such as TDS, which was recorded above 500 mg/l, was also discussed and EAC advised the Project Proponent to provide treated water to nearby villages having TDS less than 500 mg/l.

The Committee also inquired about the status of the installation of an online monitoring system to collect environmental data and whether this data had been shared with the State Pollution Control Board (SPCB) or Central Pollution Control Board (CPCB). It was

also noted that no terracing had been created on the existing dumps. Given the age of the mines, the status of progressive backfilling was requested for submission.

Based on above discussion, the Committee **deferred** the proposal and asked to submit the following requisite information:

- i. The Project Proponent needs to submit the status of obtaining Stage-I Forest Clearance for 155.437 hectares of forest land within the ML area in the name of the current lessee, M/s Rungta Sons Private Limited.
- ii. The project proponent needs to submit the details regarding the transfer of FC stage-II for the already diverted area of 227 ha in the name of current lessee M/s Rungta Sons Private Limited.
- iii. The Project Proponent needs to submit a report detailing the mitigation measures for the protection and conservation of fauna and flora.
- iv. The Project Proponent needs to provide the status of the implementation of the Continuous Air Quality Monitoring Station (CAAQMS) system to collect air quality data and confirm whether this data is being shared with the SPCB/CPCB.
- v. The Project Proponent needs to submit the quantity of water currently being utilized or planned to be utilized for various purposes within the ML area. PP should explore other sources (example construction of water reservoir in the lease area etc.) in order to minimize the withdrawal of groundwater.
- vi. The Project Proponent needs to submit a protection plan for the village and forest area located near the project boundary.
- vii. The Project Proponent needs to provide a protection plan for Rajabasa Nala, which passes through the ML area.
- viii. The Project Proponent needs to submit geotagged photographs and video footage of the dump and forest area within the ML area and identify the dump on the conceptual plan.
- ix. The Project Proponent needs to submit geotagged photographs of pollution control equipment/ mist sprayers etc. at crusher.
- x. The Project Proponent needs to submit geotagged photographs of oil & grease trap/ ETP in the project and copy of logbook/ register of oil & grease withdrawn from the trap.

- xi. PP is required to submit time for installation of automatic permanent dust suppression system,

2.2 Expansion in Limestone Production Capacity from 1.5 million TPA to 3.5 million TPA, Top Soil 0.13 million TPA, Waste/OB/IB 2.26 million TPA, Sub Grade 0.50 million TPA (Total Excavation 6.39 million TPA) and proposed crusher of 1600 TPH in Maratha Limestone Mine, ML - I (ML Area – 579.90 ha) by M/s Ambuja Cements Ltd located at Villages Thutra and Lakhmapur (Tehsil: Korpana) and Hirapur, Isapur and Sonapur (Tehsil Rajura), District Chandrapur, State Maharashtra – Environmental Clearance (EC) Reg.

[Online Proposal No. IA/MH/MIN/453734/2023, File No. J-11015/399/2006- IA.II (M), EIA Consultant - J. M. Environet Pvt. Ltd.] – Environmental Clearance (EC) Reg.

The instant proposal is for Environmental Clearance for expansion in Limestone Production Capacity from 1.5 million TPA to 3.5 million TPA, Top Soil 0.13 million TPA, Waste/OB/IB 2.26 million TPA, Sub Grade 0.50 million TPA (Total Excavation 6.39 million TPA) and proposed crusher of 1600 TPH in Maratha Limestone Mine, ML - I (ML Area – 579.90 ha) by M/s Ambuja Cements Ltd located at Villages Thutra and Lakhmapur (Tehsil: Korpana) and Hirapur, Isapur and Sonapur (Tehsil Rajura), District Chandrapur, State Maharashtra.

2. Observation and Recommendation of the Committee:

The Project Proponent vide letter and email dated 03.09.2024 requested EAC to defer the instant proposal.

As requested by PP, EAC **deferred** the proposal.

2.3 Amendment in EC granted on 04.04.2022 to Mudhvay Limestone Mine with production capacity of 4.38 MTPA, Over-burden 8.5 MTPA & Top Soil 0.44 MTPA comprising total excavation 13.32 MTPA including Top soil] along with the installation of 1200 TPH capacity Crusher in ML Area of 228.2694 ha by M/s Shree Cement Limited located at Mudhvay Village, Lakhpat Tehsil, Kachchh District, Gujarat. - Amendment in Environmental Clearance dated 04.04.2022 - reg.

[Online Proposal No. IA/GJ/MIN/458723/2024, File No. IA-J-11015/23/2018-IA-II (M); EIA Consultant J. M. Environet Pvt. Ltd.]

The instant proposal is for amendment in Environmental Clearance (EC) issued on 04th April, 2022 for Mudhvay Limestone Mine with production capacity of 4.38 MTPA, Over-burden 8.5 MTPA & Top Soil 0.44 MTPA comprising total excavation 13.32 MTPA

including Top soil] along with the installation of 1200 TPH capacity Crusher in ML Area of 228.2694 ha by M/s Shree Cement Limited located at Mudhvay Village, Lakhpat Tehsil, Kachchh District, Gujarat.

2. The details of the project as ascertained from the document submitted by the Project Proponent are given as under:

- i. The mine lease area is located between Latitude 23°42'41.36" to 23°43'59.93" and Longitude 68°41'11.94" to 68°41'53.21". The mine lease area falls under the Survey of India Toposheet No. Core Zone: F42C10 (41A/10), Buffer Zone: F42C9 (41A/9), F42C10 (41A/10), F42C13 (41A/13) & F42C14 (41A/14) and falls in Seismic Zone-V.
- ii. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals. The instant proposal attracts the general conditions as the Narayan Sarovar Wildlife Sanctuary is located at a distance of 3.3 km, South and Eco-Sensitive Zone is located at a distance of 2.4 km, South from mine lease area and falls under Category "A" and accordingly appraised at the Central level.
- iii. Details of previous Environmental Clearance (EC): -
 - a. The Project Proponent obtained Environmental Clearance (EC) on 04.04.2022 for Mudhvay Sub-Block 'B' Limestone Mine with Total excavation of 12.18 MTPA [Limestone: 4.38 Million TPA, Over-burden: 8.14 Million TPA & Inter Burden: 0.36 Million TPA excluding Top Soil] and installation of 1200 TPH capacity Crusher in the mine lease area of 233.5 ha, located at Mudhvay Village, Lakhpat Tehsil, Kachchh District, Gujarat.
 - b. Then, the Project Proponent obtained Corrigendum in EC on 27.06.2022 w.r.t total excavation as 12.88 MTPA instead of 12.18 MTPA.
 - c. The Project Proponent has requested for amendment in EC dated 04.04.2022 w.r.t change in mine lease area from 233.5 ha to 228.2694 ha. The Project Proponent submitted that due to change in mine lease area the following amendment is sought as given below in table: -

S. No.	Particulars	Details as per EC dated 04.04.2022	Amendment sought by the Project Proponent	Remarks given by the Project Proponent
1	ML Area (in ha)	233.50 ha Govt. land: 143.0 ha Pvt. land: 90.50 ha	228.2694 ha Govt. land: 137.7694 ha Pvt. land: 90.50 ha	An area of 5.2306 ha was restricted and deleted from Letter of Intent (LoI) of 233.50 ha as per the order dated 20.12.2022.

2	Geographical Coordinates	23° 42' 39.2377" N to 23° 43' 59.9313" N 68° 41' 11.9388" E to 68° 41' 53.2506" E	23°42'41.36" N to 23°43'59.93" N 68°41'11.94" E to 68°41'53.21" E	Southern coordinates shifted northwards
3	EMP Capital Cost (Rs. in Cr.)	2.93	3.68	0.75 Cr. Increased due to Greenbelt increased
4	EMP Recurring Cost (Rs. in Cr.)	0.276	0.346	0.084 Cr. Increased due to Greenbelt increased
5	Power Requirement (MW)	2 MW	2.3 MW	Slightly increase due to Power Factor Consumption
6	Total Geological Reserves (in Million Tonnes)	301.5 Million Tonnes	294.867 Million Tonnes	Reduction of reserves due to reduction of ML Area
7	Minable Reserves (in Million Tonnes)	262.94 Million Tonnes	241.390 Million Tonnes	Reduction of reserves due to reduction of ML Area
8	Total Waste Generation	121.79 Million Tonnes	110.4 Million Tonnes (Not provided in Modified Mining Plan as per the standard format)	Reduction of Waste generation due to reduction of ML Area
9	Life of the Mine	64 Years	59 Years as mineable reserves have been reduced	Life of Mine reduced due to reduction of Reserves
10	Distance to Narayan Sarovar WLS & ESZ	3.3 km 2.4 km	3.4 km 2.5 km	Distance increase due to reduction of ML Area & shifting of ML boundary
11	Land Use	Excavated area: 221.70 ha (Voids: 66.70 and Backfilled area: 155.0 ha)	Excavated area: 209.4694 ha (Voids: 54.47 ha and Backfilled area: 155.0 ha)	Reduction in void area by 12.23 ha
12	Greenbelt	11.80 ha	18.80 ha	Increase on south side of ML

- iv. The proposal was considered in the 26th EAC (Non-Coal Mining) meeting held during 31 January & 1 February 2024 wherein the Committee has deferred the proposal and requested to submit the desired information. The PP vide letter dated 17.05.2024 submitted the point-wise reply, thereafter Committee considered the

proposal and deferred in the 30th EAC meeting held during 12th, 13th and 14th June, 2024. Wherein the Committee asked to submit the requisite information, further the project proponent submitted their reply vide dated 07.08.2024 are as follows:

S. No.	Observation of EAC	Reply by Project Proponent																																	
ADS dated 26.06.2024, reply dated 07.08.2024 :																																			
1.	Project Proponent needs to submit a letter from the Department of Geology and Mining, Government of Gujarat clarifying whether any mining within the Forest Land of 5.23.06 ha has been carried out or not and whether the same has been carried out by M/s. Shree Cement Limited or not?	As required by EAC (Non- Coal Mining) of MoEF&CC, Project Proponent submitted a request letter to Geologist, Geology & Mining Department, Bhuj- Kachchh, Govt. of Gujarat vide our letter reference no. SCL/Guj.-Mudhvay Mine/CGM/2024-25/127, dated 12.07.2024 for issuance of a certified information. Subsequently, the Geologist, Geology & Mining Department, Bhuj- Kachchh, Govt. of Gujarat has issued a letter vide reference no. JKK/Limestone/Sub Block-B/5735, dated 01.08.2024.																																	
2.	PP needs to submit the boundary coordinates of the revised ML area certified by DMG.	It was clarified that: 1. No Mining activity was carried out by Shree Cement Limited within the Forest Land of 5.23.06 ha. (which has been deleted from LOI Area i.e. 233.5 ha. while grant of ML with 228.2694 ha area of Mudhvay Sub Block-B Limestone Mine).																																	
3.	PP needs to submit the DMG certified coordinates of the deleted forest area of 5.23.06 ha.	2. Certified Boundary Coordinates of Revised Mining Lease (ML) Area i.e. 228.2694 ha. of Mudhvay Sub Block-B Limestone Mine are as follows: <table border="1"> <thead> <tr> <th>Point</th> <th>Latitude</th> <th>Longitude</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>23°42'46.45" N</td> <td>68°41'53.21" E</td> </tr> <tr> <td>2.</td> <td>23°42'59.91" N</td> <td>68°41'52.90" E</td> </tr> <tr> <td>3.</td> <td>23°43'16.17" N</td> <td>68°41'52.58" E</td> </tr> <tr> <td>4.</td> <td>23°43'32.42" N</td> <td>68°41'52.22" E</td> </tr> <tr> <td>5.</td> <td>23°43'48.68" N</td> <td>68°41'51.90" E</td> </tr> <tr> <td>6.</td> <td>23°43'59.93" N</td> <td>68°41'51.66" E</td> </tr> <tr> <td>7.</td> <td>23°43'57.15" N</td> <td>68°41'41.99" E</td> </tr> <tr> <td>8.</td> <td>23°43'48.66" N</td> <td>68°41'21.98" E</td> </tr> <tr> <td>9.</td> <td>23°43'53.93" N</td> <td>68°41'11.94" E</td> </tr> <tr> <td>10.</td> <td>23°43'35.27" N</td> <td>68°41'11.98" E</td> </tr> </tbody> </table>	Point	Latitude	Longitude	1.	23°42'46.45" N	68°41'53.21" E	2.	23°42'59.91" N	68°41'52.90" E	3.	23°43'16.17" N	68°41'52.58" E	4.	23°43'32.42" N	68°41'52.22" E	5.	23°43'48.68" N	68°41'51.90" E	6.	23°43'59.93" N	68°41'51.66" E	7.	23°43'57.15" N	68°41'41.99" E	8.	23°43'48.66" N	68°41'21.98" E	9.	23°43'53.93" N	68°41'11.94" E	10.	23°43'35.27" N	68°41'11.98" E
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		12.	23°42'57.94" N	68°41'12.11" E
		13.	23°42'57.55" N	68°41'26.34" E
		14.	23°42'41.36" N	68°41'28.90" E
		3. Certified Boundary Coordinates of Deleted Forest Area of 5.23.06 ha from LOI area of Mudhvay Sub Block- B Limestone Mine are as follows:		
		Point	Latitude	Longitude
		1 (A1)	23°42'43.64" N	68°41'53.25" E
		2 (A2)	23°42'39.23" N	68°41'29.21" E
		3 (1)	23°42'46.45" N	68°41'53.21" E
		4 (14)	23°42'41.36" N	68°41'28.90" E
4.	Project Proponent needs to submit the undertaking that no mining has been done on 5.23.06 ha. land.	<p>A Notarized Undertaking duly signed by Authorized Signatory of Shree Cement Limited (Project Proponent) confirming/stating that; "There is no construction or mining activity initiated/ started at mine site including deleted overlapping forest area i.e. 5.23.06 ha. It is a virgin mine and mining activities will be initiated/carried out only after grant of amendment in the EC from MoEF&CC for mining lease area of 228.2694 ha. and subsequent applicable Consents from Gujarat State Pollution Control Board."</p> <p>The Project Proponent has submitted a Notarized Undertaking.</p>		

v. Lease Details:

S. No	Details of grant of Mine Lease deed execution	Period of Grant		Name of the Mineral	Mine lease area in Ha
		From	To		
1	<ul style="list-style-type: none"> Lease deed has been executed for an area of 228.2694 ha. on 19.12.2022 Lease Registration has been done for an area of 228.2694 ha. on 20.12.2022. 	19.12.2022	18.12.2072	Limestone	228.2694

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

Private land	90.50 ha
Government land	137.7694 ha is Govt. Land.

Forest land	0
Total Mining lease area (MLA), ha	228.2694
Private land for crusher, workshop & other infrastructure outside the MLA	Crusher will be installed within the mine lease area with other infrastructures.

vii. Mining Plan details:

Mining Plan (approved by Indian Bureau of Mines/ DMG)	Letter No.	MCDR-MPCP0CaFI/22/2023-GNR-IBM_RO_GNR MP-482 Mine Code: 38GUJ449002
	Date	08.09.2023
	Mineral & (Major/Minor)	Major
	Mine Lease Area, Ha	228.2694
	Validity	07.09.2028
Mining Parameters	Quantitative Description	
Method of Mining	Fully Mechanized Opencast Method	
Drilling/Blasting	<p>No drilling will be conducted for limestone Mining. Over burden will also be excavated by Hydraulic excavator without use of drilling & blasting. However, if required, drilling will be conducted for doing further blasting if compact & hard over burden is encountered which cannot be excavated without blasting. The 3 no. of Crawler mounted DTH hammer drill machine (100 mm dia Magic Drill, Non electric HP-100, CFM-450) will be made available to meet the requirement.</p> <p>No blasting is required for Limestone Production. Over burden will also be excavated by Hydraulic excavator without use of drilling & blasting. However, if required, Controlled blasting will be conducted if compact & hard over burden is encountered which cannot be excavated without blasting. Every effort will be made to achieve minimum ground vibrations and fly rocks.</p>	
Geological Reserves	294.867 Million Tonnes	
Mineable Reserves	241.390 million Tonnes	
Breakup of Total Excavation (Topsoil/ OB/ SB/ IB/ Mineral Rejects/ Waste, MTPA)	Total Excavation: 12.88 Million TPA excluding Top soil (13.32 Million TPA including Top Soil)	
Life of mine	59 Years	
Mine Bench Height & Bench Width	10 m & >30 m, respectively	

No. of Mine Benches	
Existing Depth, m bgl	0 m since the mine is not in operation;
Ultimate Depth of Mining, m bgl	104.5 m bgl
Ground Water Table, m bgl	Depth to Water level in the buffer area ranges from 13.4 to 54.6 mbgl in pre-monsoon season & 10.3 to 52.8 m bgl in post-monsoon season and in the core area from 4.23 to 2.30 m bgl in pre-monsoon season & 19.66 to 14.20 m bgl in post-monsoon season
Details of ground water intersection	The mining operation intersects water table in the 4 th and 5 th year of the mining plan period. Ground Water withdrawal NOC along with Dewatering Permission was issued by CGWA vide NOC No. CGWA/NOC/MIN/ORIG/2022/15938, dated 05.07.2022 and valid up to 04.07.2024
Individual bench slope	85°
Overall pit slope	45°
Details of existing/proposed Crusher	1200 TPH Capacity Crusher proposed within Mining Lease Area
Mineral Beneficiation	Nil
ROM Output size	<90mm
Transportation details including capacity of dumper/tipper, mode of transport and distance	Crushed limestone from crusher will be transported to Cement Plant through Covered Conveyor Belt, 50 T dumpers and distance 3.5 km
Generation of Topsoil/OB & its Management during plan period & conceptual period	<ul style="list-style-type: none"> • Over-burden: 8.5 Million TPA & Top Soil: 0.44 Million TPA • 5.32 MT of Top Soil will be generated at the end of life of mine, which will be temporarily stacked and used for greenbelt & plantation on backfilling and peripheral plantation • OB will be used for backfilling mine void. Backfilled area 155.00 Ha, will be reclaimed by plantation along with re-grassing.
Generation of Mineral Rejects/ Waste & its Management during plan period & conceptual period	Waste in form or OB will be generated as explained above.

viii. Water requirement

Total water requirement	150 KLD	Fresh water	150 KLD
		Treated water	-
Source	Ground Water and Mine Pit		

Permission	Ground Water withdrawal NOC along with Dewatering Permission was issued by CGWA vide NOC No. CGWA/NOC/MIN/ORIG/2022/ 15938, dated 05.07.2022 and valid up to 04.07.2024. Application for extension of existing ground water NOC has been online submitted to CGWA vide file no. 21-4/7457/GJ/MIN/2021, dated 12.06.2024 and same is under process.
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ix. Nearest village / town/ highway/railway station / water bodies

Particulars	Particular's Name	Distance & Directions
Village	Mudhvay	~0.5 km in SSW direction from mine lease area
Town	Town is SK Verma Nagar & City is Bhuj City	SK Verma Nagar (~3.6 km in SSE direction) Bhuj City (~112 km in SW direction)
Highway	NH- 8A, SH- 42 & SH- 6	<ul style="list-style-type: none"> NH- 8A (Naliya- Narayan Sarovar Road) (~14.3 km in SW) SH- 42 (Lakhpatt- Bhachau) (~11.3 Km in East direction) SH- 6 (Lakhpatt- Tithal) (~2.3 Km in West direction)
Interstate boundary		<ul style="list-style-type: none"> Nil
Railway Station/Railway line	Naliya Railway Station	~54 Km in South direction
Water Bodies	<ul style="list-style-type: none"> Koriyani Dam Mudhvay Nala Kali Nadi Kapurasi Nadi Kori Creek Godhatad Dam Arabian sea 	<ul style="list-style-type: none"> ~1.2 km, SW direction ~2.0 km, SW direction ~4.1 km, NE direction ~4.3 km, W direction ~4.7 km, NW direction ~5.0 km, SSW direction ~28.0 km, SW direction
Forest	<ul style="list-style-type: none"> Kaiyari R.F. Naredi R.F. Mudhvay R.F. Godhatad R.F. Pranpar R.F. Mudia R.F. 	<ul style="list-style-type: none"> ~3.7 km, SW direction ~3.0 km, S direction ~0.1 km, S direction ~7.4 km, SW direction ~9.4 km, E direction ~9.7 km, S direction

x. Presence of Environmentally Sensitive areas in the study area

Forest Land/ Protected Area/ Environmental Sensitivity Zone	Yes/ No	Details of Certificate/ letter issued by the concerned Department mentioning the Letter No., Date of Grant and Remarks

Forest Land within the mine lease area and (if yes) status of Forest Clearance	No	<p>There is no Forest Land falls within the lease area. Letter from the Deputy Conservator of Forest (DCF – Bhuj), State Forest Dept. has been obtained vide letter no. C/JMN/Te.11/03/23-24, dated 12.04.2024.</p> <p>However, following forest areas located within the 10 km study area:</p> <table border="1"> <tr> <td>• Kaiyari R.F.</td> <td>• ~3.7 km, SW direction</td> </tr> <tr> <td>• Naredi R.F.</td> <td>• ~3.0 km, S direction</td> </tr> <tr> <td>• Mudhvay R.F.</td> <td>• ~0.1 km, S direction</td> </tr> <tr> <td>• Godhatad R.F.</td> <td>• ~7.4 km, SW direction</td> </tr> <tr> <td>• Pranpar R.F.</td> <td>• ~9.4 km, E direction</td> </tr> <tr> <td>• Mudia R.F.</td> <td>• ~9.7 km, S direction</td> </tr> </table>	• Kaiyari R.F.	• ~3.7 km, SW direction	• Naredi R.F.	• ~3.0 km, S direction	• Mudhvay R.F.	• ~0.1 km, S direction	• Godhatad R.F.	• ~7.4 km, SW direction	• Pranpar R.F.	• ~9.4 km, E direction	• Mudia R.F.	• ~9.7 km, S direction
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• Mudia R.F.	• ~9.7 km, S direction													
National Park	No	-												
Wildlife Sanctuary	Yes	Narayan Sarovar Wildlife Sanctuary located at distance of ~3.4 km and Eco- Sensitive Zone of Narayan Sarovar Wildlife Sanctuary located at distance of ~2.5 km from mine lease boundary.												
Elephant/Tiger Reserve	No	None within Study Area.												
Eco-Sensitive Zone(ESZ) /Eco-Sensitive Area (ESA)	Yes	Eco- Sensitive Zone of Narayan Sarovar Wildlife Sanctuary located at distance of ~2.5 km from mine lease boundary.												
Coastal Regulation Zone (CRZ)	No	-												
Schedule-I species (No.s and name of schedule-I species with authenticated letter)	Yes	Monitor Lizard (<i>Varanus bengalensis</i>), Indian Peafowl (<i>Pavo cristatus</i>), Eurasian Spoonbill (<i>Platalea leucorodia</i>) and Chinkara (<i>Gazella gazelle bennettii</i>) found in the study area.												
Wildlife Conservation Plan	Yes	Wildlife Conservation Plan was approved by Chief Wildlife Warden, Gujarat vide Letter no. : WLP/32/C/298-99/2021-22, dated												

		16.09.2021 and Supplementary Conservation Plan for Nocturnal Animals was also approved by Chief Wildlife Warden, Gujarat vide letter no. WLP/T.32/C/873-74/2021-22, dated 28.01.2022
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xi. Greenbelt & Plantation details:

Proposed area for green belt/plantation and no. of saplings proposed	173.8 Ha & no. of samplings 260700
Budget for green plant & plantation until the end of life of mine.	Rs. 117.32 Lacs
Budget for nursery	Nil
Details of existing plantation and its survival rate	Nil since mine is yet to become operational
No. of tree cuts in the mine lease area and compensatory afforestation	Nil
Particulars for Green belt/plantation	Area covered (in Ha)
7.5 m barrier & non-mineralized zone	4.8 ha
50 m safety zone of nallah, roads, electric lines	14.0 ha. (200 meter safety zone in southern part of mine lease will be developed as Greenbelt & Plantation)
500 m safety zones of nearest habitation villages	Nil

xii. Baseline detail: Proposal is for Amendment in EC for reduction of Mining Lease Area:

Baseline Data (Air / Water / Noise / Soil / Hydro geological study/ Traffic Study/ others)	
Period of baseline data collection	Dec 2019 - Feb 2020
Season (Summer / Pre-monsoon / Post-monsoon / Winter)	Winter
Predominant Wind direction (From)	NE
Ambient Air Quality (no. of locations) and results	12 locations. PM10 : 34.5 µg/m ³ to 57.7 µg/m ³ . PM2.5 : 14.9 µg/m ³ to 29.5 µg/m ³ . SO ₂ : 12.5 µg/m ³ and 20.7 µg/m ³ . NO ₂ : 16.5 µg/m ³ and 30.2 µg/m ³ . CO : 146 µg/m ³ and 344 µg/m ³ .
Noise level (no. of locations) and results	12 locations day time 41.9 dB (A) to 52.8 dB (A) night time 38.8 dB (A) to 48.5 dB (A).

Water Quality (no. of locations) and results	3 Ground Water samples, 3 Public supplied Drinking water and 6 Surface water. All of the parameters in Ground water & Drinking water fairly meet the desirable and/or permissible standard limits of IS: 10500:2012. Surface water : pH 7.08-7.81, Total hardness 293.4 – 6015.6 mg/l, TDS 711 - 51246 mg/l, Chloride 191.3 mg/l - 20978.6 mg/l and Sulphate 53.7 mg/l to 4625.4 mg/l.
Soil Quality (no. of locations) and results	8 locations. pH 7.3 to 8.3, electrical conductivity 110 µmhos/cm to 534 µmhos/ cm, nitrogen 40.7 to 127.6 kg/ha, phosphorus 46.4 to 290.8 kg/ha and potassium 42.1 – 162.8 kg/ha.
Hydro geological study and results	A detailed hydrological and hydrogeological study has been carried out by National Environmental Engineering Research Institute (NEERI), Nagpur. Based on Hydrogeological studies, it has been assessed that the mining activity within the Mudhvay Sub-Block 'B', will lead to intersection of groundwater at 13 m bgl which will be at 4th or 5th year of plan period. Majority of the sources are having shallow water table (<10 m-bgl).
Traffic study (no. of locations) and results	-

xiii. Public Hearing (PH) Details: Proposal is for Amendment in EC for reduction of Mining Lease Area:

Advertisement for PH with date (name of major national daily and one regional vernacular daily newspaper)	Kutch Mitra on 25.07.2021 Indian Express on 25.07.2021
Date of PH	01.09.2021
Venue	Moti Mudhvay, Common Plot, Besides Primary School, Village Moti Mudhvay, Post Koriyani, Taluka: Lakhpat, Dist. Kachchh
Chaired by	Additional District Magistrate Kachchh District
Main issues raised during PH	The Project Proponent has submitted the information in EIA-EMP report.
Budget proposed for addressing issues raised during PH over 3 years	Rs. 502.97 lakhs

xiv. Details of the Project Cost and Employment:

Activities	Capital Cost (Crores)	Recurring Cost (Lakhs/annum)
Environment Management Plan	Rs. 3.684 Crore	Rs. 0.346 Crore
Project Cost	Rs. 247.5 Crore	
Employment (Nos.)	43	

3. Observation and Recommendation of the Committee:

The Project Proponent/Consultant has presented the request for amendment in EC dated 04/04/2022 regarding the change in mine lease area from 233.5 ha to 228.2694 ha. Additionally, the Project Proponent/Consultant explained important site features through a KML file, including the Koriyani Dam located 1.2 km away, Mudhvay Nala at 2.0 km, Kori Creek at 4.7 km, and a forest area near the ML boundary.

The Committee reviewed pointwise responses to observations made by the Previous Expert Appraisal Committee (EAC) held on 12/06/2024 to 14/06/2024. The Project Proponent submitted the land use classification certificate from the concerned state department, confirming forestland involvement within the ML area, along with revised mine lease deed documents.

The Committee also noted information received from the Project Proponent via letter dated 10/09/2024. PP vide aforesaid letter stated that distance from the mine lease boundary to the seaboard frontier is more than 29 km in SW direction. PP mentioned that as per the approved wildlife conservation plan and supplementary conservation plan approved by PCCF, Wildlife (CWLW), Govt. of Gujarat, there is no presence of Caracal in the core zone and buffer zone of 10km. With regard to the groundwater intersection PP added that ground water intersection will start from the 4th year onwards of the Mining Plan Period (i.e. 2025-26) when the mine pit working will reach 57-meter depth. PP further mentioned that as per the "Hydrological and Hydro geological studies within 10 km radius of the proposed integrated cement plant and captive Mudhvay Sub Block 'B' Limestone mine "prepared by CSIR NEERI in May 2021, the estimated seepage quantity of water will be in tune of 730.67 cum/day. The Committee therefore requested the Project Proponent to submit the said report.

In view of the above, the Committee **deferred** the Proposal and asked to submit the following requisite information:

- i. The Project Proponent must submit a distance certificate issued by the State Govt/ district administration, indicating the distance between the seaboard frontier and the mine lease boundary and from the mine lease boundary to the the existing Kori Creek.
- ii. The Project Proponent needs to inform the Ministry of Defence about the proximity of the existing Kori Creek to the ML area and obtain NoC from the Ministry of Defence, if required.
- iii. The Project Proponent needs to submit the report prepared by CSIR-NEERI entitled "Hydrological and Hydro geological studies within 10 km radius of the

proposed integrated cement plant and captive Mudhvay Sub Block “B’ Limestone mine “.

- iv. PP should submit a plan specifying how it will deal with ground water when mine pit intersect ground water table.

2.4 Amendment in Environmental Clearance dated 06.09.2021 for Noamundi Iron Mine of Tata Steel Limited for mining over 0.9113 ha of safety zone area without change in production capacity located at Villages Mahudi, Balijore, Korta, Noamundi, Sarbil and Barabalijori, Tehsil Noamundi, District West Singhbhum, Jharkhand.

[Online Proposal No. IA/JH/MIN/493953/2024; File No. J-11015/104/2011- IA-II (M) – For Amendment in Environmental Clearance reg.

The instant proposal is for Amendment in Environmental Clearance 06.09.2021 for Noamundi Iron Mine of Tata Steel Limited for mining over 0.9113 ha of safety zone area without change in production capacity located at Villages Mahudi, Balijore, Korta, Noamundi, Sarbil and Barabalijori, Tehsil Noamundi, District West Singhbhum, Jharkhand.

2. The project proponent had obtained the amendment in EC dated 06.09.2021 w.r.t permission for transportation by road to other Railway Siding on 29.10.2021. Project proponent has submitted the proposal for amendment in Environment Clearance vide letter No. J-11015 /104 /2011-IA.II (M) dated 06.09.2021 for Mine lease area 1160.06 ha with the total Project Area: 1230.42 ha w.r.t Standard Condition No. viii (1).

“Mining is proposed over 0.9113 ha safety zone area of Noamundi Iron Mine over a length of ~1213 meters within 7.5 m periphery of safety zone of Noamundi Iron Mine along part ML boundary common with Katamati Iron Mine of Tata Steel Limited”.

3. Project proponent has obtained the following permissions:
 - In order to incorporate the common boundary working in the Mining Plan, Review of Mining Plan has been duly approved by Indian Bureau of Mines, Ranchi dated 15.03.2022.
 - Common boundary working Permission under Regulation 111 (3) of MMR 1961 has been obtained from DGMS dated 16.02.2023 for working along common mine boundary area of two mines.

4. Further, the Project proponent has submitted the following justification for the above-proposed amendment:

- The proposal is for mining in 7.5 m safety zone of mining lease along the Common Lease Boundary with Katamati Iron Mine of the same Company, Tata Steel Limited.

- No increase in the Mine lease area.
- No increase in the production capacity.
- No change in the mining methods/technologies.
- No change in project requirement such as water requirement, manpower requirement, power requirement etc.
- There is no National Park, Wildlife Sanctuary, Wildlife Corridor, Tiger Reserves etc. present within 10 Km radius of the study area.

5. Subsequently, the Project Proponent has submitted the following reason for amendment:

- Noamundi Iron Mine and Katamati Iron Mine share common boundary of which 1250m is in Mineralized Zone.
- In view of Mineral conservation and to utilize blocked reserves, Company has proposed mining in 7.5m safety zone along common boundary.
- Total 16 Million Tons Iron Ore are locked up in the 7.5 m periphery of safety zone of mine lease area along Noamundi Iron Mine and Katamati Iron Mine.
- 8.2 Million Tons will be mined out by Noamundi Iron Mine and balance by Katamati Iron Mine.
- The area covered under the safety zone along the 7.5m of common boundary mining zone is 0.9113 ha and same safety zone will be re-drawn by plantation over an equivalent area.

6. The details of the project as per the documents submitted by the Project Proponent are mentioned below:

i. Project details:

Name of the Proposal	Amendment in Environmental Clearance of Noamundi Iron Mine of Tata Steel Limited for mining over 0.9113 ha of Safety zone area without changes in production capacity located at Villages Mahudi, Balijore, Korta, Noamundi, Sarbil and Barabalijori, Tehsil: Noamundi, District: West Singhbhum, Jharkhand	
Location	Village	Mahudi, Balijore, Korta, Noamundi, Sarbil and Barabalijori
	Tehsil/Taluka	Noamundi
	District	West Singhbhum
	State / UT	Jharkhand
	Latitudes	85°27'53.34" E to 85°30'25.32" E
	Longitudes	22°07'13.84" N to 22°10'39.71" N
	SolToposheet No.	73 F/8 & 73 F/12
Company's Name	Tata Steel Limited	
Accredited Consultant and	JM Enviro Net Pvt. Ltd. Accredited EIA Consultant by NABET (QCI) Certificate No. NABET/EIA/2326/RA 0308 Valid till 07.08.2026.	

certificate no. and Validity	
KML file	KML is uploaded on Parivesh 2.0 Web Portal & same is enclosed.
Seismic zone	Zone – II as per IS: 1893 (Part-I): 2002

ii. Category details:

Category of the project	As per EIA Notification dated 14 th September, 2006 as amended from time to time, the project falls under Category "A".
Schedule No.	Project or Activity 1 (a) – 3 for "Mining of Mineral" 2 (b) Mineral Beneficiation
Mining lease Area (MLA) (In ha.)	1160.06 ha (762.43 ha Forest Area & 397.63 ha Non-Forest Area) Project Area: 1230.42 ha
General Conditions (if any)	Jharkhand-Odisha Inter-state boundary (Adjacent to the mine lease area on the southern side.)

iii. ToR/EC Details:

Date of application	Proposal No/ File No	Consideration by EAC	Details of ToR	Date of accord
24.08.2024	Proposal No.- IA/JH/MIN/493953/2024 File No.-J-11015/104/2011-IA-II(M)	33 rd EAC (Non-Coal Mining)	Not Applicable, as this Proposal is for amendment in EC w.r.t mining over 0.9113 ha of safety zone area without change in production capacity located at Villages Mahudi, Balijore, Korta, Noamundi, Sarbil and Barabalijori, Tehsil: Noamundi, District: West Singhbhum, Jharkhand of Tata Steel Limited.	
24.08.2024	Proposal No.- IA/JH/MIN/493953/2024 File No.-J-11015/104/2011-IA-II(M)	33 rd EAC (Non-Coal Mining)	Proposal is for consideration of Amendment in EC	

iv. Details of Mine Lease in chronological manner:

S. No.	Prospecting License/Letter of Intent (LoI)/ Grant	Date of the grant	Name of the Mineral & (Major/Minor)	Period of Grant	Granted by	Mine lease area in Ha

	of Mine lease and Lr No					
1.	Initial Lease	01.01.1922	Iron Ore	30 Years	Govt. of Bihar	1160.06
2.	1 st Renewal	01.01.1952	Iron Ore	30 Years	Govt. of Bihar	1160.06
3.	2 nd Renewal	01.09.1984	Iron Ore	30 Years	Govt. of Bihar	1160.06
4.	Acc. To MMDR Act	12.01.2015	Iron Ore	Upto 2030	Govt. of Jharkhand	768.55

S. No.	Details of grant of Mine Lease deed execution	Period of Grant		Name of the Mineral	Mine lease area in Ha
		From	To		
1.	Mine Lease Executed on dated 09.08.1923	01.01.1922	31.12.1951	Iron Ore	1160.06
2.	Mine Lease Executed on dated 01.02.1967	01.01.1952	31.12.1981	Iron Ore	1160.06
3.	Mine Lease Executed on dated 20.10.1985	01.01.1982	31.12.2011	Iron Ore	1160.06
4.	Mining Lease is valid till 31.03.2030 as per MMDR Amendment Act 1957.				

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

Private land	41.85 ha
Government land	355.78 ha
Forest land	762.43 ha
Total Mining lease area (MLA), ha	1160.06 ha
Private land for crusher, workshop & other infrastructure outside the MLA	-

vi. Mining plan details:

Mining Plan including Progressive Mine Closure Plan (approved by Indian Bureau of Mines/DMG)	Letter No.	RAN/WSB/Fe/MP-24/2021-22
	Date	15.03.2022
	Mineral & (Major/Minor)	Major
	Mine Lease Area, Ha	1160.06 Ha
	Validity	31.03.2027
Additional information (if any)	Above mentioned details are of Review of Mining Plan with Progressive Mine closure Plan	

Mining Parameters	Quantitative Description
Method of Mining	Opencast Mechanized
Drilling/Blasting	The blasting operation is carried out by system of deep hole blasting using Site Mixed Emulsion (SME) Explosive and Nonel/electronic detonators.
Geological Reserves	294.89 million Tonnes
Mineable Reserves	135.28 Million Tonnes
Breakup of Total Excavation (Topsoil/OB/SB/IB/Mineral Rejects/ Waste, MTPA)	Iron Ore: 19 Million TPA (ROM) Total Excavation: 27.0 Million TPA
Life of mine	~8 (8.37) Years
Mine Bench Height&Bench Width	Bench Height: 12 m Bench Width: 20 m(12m at Ultimate Stage)
No. of Mine Benches	10
Existing Depth, m bgl	72 m bgl
Ultimate Depth of Mining, m bgl	480 mRL (In Hill 3 & 4 and Western Pit)(120mbgl)
Ground Water Table, m bgl	478 m AMSL(122mbgl)
Details of ground water intersection	No
Individual bench slope	80 ⁰
Overall pit slope	45 ⁰
Details of existing/ proposed Crusher	-
Mineral Beneficiation	The source of feed ore to Beneficiation plant is from Noamundi Mine as well as adjoining Katamati Mine.
RoM output size	1000mm
Transportation details including capacity of dumper/tipper, mode of transport and distance	Mineral is being transported by 100 tonner Dumper via haul road at a distance 3.0 KM.
Generation of Topsoil/OB & its Management during plan period & conceptual period	-
Generation of Mineral Rejects/ Waste & its Management during plan period & conceptual period	During plan period 18.06 Million tonnes waste will be generated which will be used for backfilling and balance will be dumped in external dump and 4.61 Million tonnes of Mineral reject will be generated part of which will be used for plant feeding after blending with suitable grade ore and balance will be stored for future use. At conceptual stage 73.395 Million tonnes waste will be generated stored at earmarked location within the mining lease area and 22.631 Million tonnes Mineral Reject will be generated which will be stacked earmarked site.

vii. Water requirement:

Total water requirement	29000 KLD	Fresh water Treated water	29000 KLD 70 KLD
Source	Baitarani River		
Permission for withdrawal/ intersection along with details of grant and its validity	This Proposal is for Amendment in Environment Clearance.		
Additional information(if any)	Amendment in Environment Clearance of Noamundi Iron Mine of Tata Steel Limited for mining over 0.9113 ha of safety zone without Change in Production Capacity located at Villages: Mahudi, Balijore, Korta, Noamundi, Sarbil and Barabalijori, Tehsil: Noamundi, District: West Singhbhum, Jharkhand.		

viii. Nearest village/town/ highway/interstate boundary/railway station/water bodies/monument/ forest

Particulars	Particular's Name	Distance & Directions
Village	Noamundi	~0.1 km in NE Direction
	Barbil	~8.4 km in WSW Direction
	Chaibasa district HQ	~53 km in NE Direction
Highway	SH-4	Adjacent In North Direction
Interstate Boundary	Jharkhand-Odisha	Adjacent to the mine lease area on the southern side.
Railway Station/Railway line	S.E. Railway Line	• ~0.5 km, NE Direction
	Noamundi Railway Station	• ~1.7 km, East Direction
Water Bodies	<ul style="list-style-type: none"> • BalijhoreNalla • BetlaraNallah • Mahadev Nallah • KumritaNallah • SonaRiver/ Kundra • Baitarani River • Karo River 	<ul style="list-style-type: none"> • Within the ML area • ~0.2 km, NW • ~2.0 km, SW • ~6.5 km, North • ~7.8 km, South • ~8.4 km, SE • ~8.5 km, West
Forest	<ul style="list-style-type: none"> • Thakurani RF • Kurta PF • Noamundi PF • Gundijora PF • Nuia PF • Pandrasali PF • Jampani PF • Kucchibera PF • Kurmrita PF 	<ul style="list-style-type: none"> • Adjacent SW • Within ML area • Within ML area • ~1.1 NNE • ~1.4 km, NW • ~1.5 km, West • ~3.0 km, East • ~3.4 km, NE • ~3.4 km, North

	<ul style="list-style-type: none"> • Uliiburu PF • Rengabera PF • Ghatkuri RF • Kolita PF • Barainuru PF • Gua PF 	<ul style="list-style-type: none"> • ~6.8 km, West • ~7.3 km, ESE • ~8.5 km, West • ~8.8 km, NNE • ~8.8 km, NNW • ~9.4 km, NW
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ix. Presence of Environmentally Sensitive areas in the study area

Forest Land/ Protected Area/ Environmental Sensitivity Zone	Yes/No	Details of Certificate/letter issued by the concerned Department mentioning the Lr no, date of grant and remarks
Forest Land within the mine lease area and (if yes) status of Forest Clearance	Yes	Total Forest Area is 762.43 ha. The Forest Clearance for 370.92 ha was granted to the project vide letter no. F. No. 8-279/1985 FC (Pt) Dated 04.09.2014. For the remaining Forest Land of 391.51 ha (Including Safety Zone area 8.14 ha) Stage-I "in principle" approval was granted vide File No. 8-65/2018 FC Dated 08.12.2022.
National Park	No	-
Wildlife Sanctuary	No	
Elephant/Tiger Reserve	No	
Eco-Sensitive Zone(ESZ)/Eco-Sensitive Area(ESA)	No	
Coastal Regulation Zone (CRZ)	No	-
Schedule-I species (No.s and name of schedule-I species with authenticated letter)	Yes	7 (Grey Wolf, Elephant, Sloth Bear, Leopard, Peacock, Python, Common Indian Monitor)
Wildlife Conservation Plan	Yes	The SSWLCP Approved by PCCF, Wild Chief Wildlife Warden & Jharkhand Ranchi on 15.05.2024 Budget for SSWLCL is Rs.: 2526.13 Lakhs/-

x. Green belt/Plantation details:

Proposed area for green belt/ plantation and no. of saplings proposed	Area:460.739 Ha No.- 11,51,848 Nos.
Budget for green plant& plantation till the end of life of mine.	2304 Lakhs
Budget for nursery	424 Lakhs

Details of existing plantation and its survival rate	761083 Nos. (85-90%)
No. of tree cuts in the mine lease area and compensatory afforestation	The 26 Trees will be cut from the existing vegetation 1000 trees shall be planted in redrawn safety zone area.
Particulars for Green belt/plantation	Area covered (In Ha)
7.5 m barrier & non-mineralized zone	8.14
50 m safety zone of nallah, roads, electric lines	4.35
500 m safety zones of nearest habitation villages	-

xi. Baseline detail:

Baseline Data (Air / Water / Noise / Soil / Hydro geological study/ Traffic Study/ others)	
Period of baseline data collection	Not applicable, as this proposal is for amendment in EC. Regular compliance report of EC condition is being submitted to IRO, MoEF&CC.
Season (Summer/Pre-monsoon/Post-monsoon/Winter)	
Predominant Wind direction (From)	
Ambient Air Quality (no. of locations) and results	
Noise level (no. of locations) and results	
Water Quality (no. of locations) and results	
Soil Quality (no. of locations) and results	
Hydro geological study and results	
Traffic study (no. of locations) and results	This Proposal is for only Amendment in Environmental Clearance of Noamundi Iron Mine of Tata Steel Limited for mining over 0.9113 ha of safety zone area without change in production capacity located at Villages Mahudi, Balijore, Korta, Noamundi, Sarbil and Barabalijsori, Tehsil: Noamundi, District: West Singhbhum, Jharkhand.

xii. Details of CTE/CTO, Certified Compliance Report, Certified Production Details from the inception of the mine:

Particulars	Details of Letter along with date of grant and validity
Consent to Establish	Existing CTE Ref No.: JSPCB/HO/RNC/CTE-10765772/2021/354 dated 17.12.2021
Consent to Operate	Existing CTO Vide Letter No. JSPCB/HO/RNC/CTO-13904751/2022/1713 Dated 06.12.2022 valid till 31.12.2026

Certified Compliance Report and Inspection date	Date of Inspection: 25.09.2020
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xiii. Court case details:

Court Case, No and its present status	Name of the Court- High Court, Jharkhand Name of Bench- Principal Bench Jharkhand Case Category- WP (C)3768 OF 2015 Status of court case- Court directed to State Govt. to decide representation of Tata Steel
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xiv. Details of the Environmental Management Plan (EMP):

Activities	Capital cost (Crores)	Recurring cost(Lakhs/ annum)
CAAQMS, Permanent Water Sprinklers, Covered Conveyor Belt, Plantation, Environmental Monitoring, Occupational Health	13.19	1.65

xv. Details of project cost and employment:

Particulars	(Rs. In Crore)
Total cost of EMP (Capital Cost of EMP + capital cost of Public Hearing)	45.46
Project Cost	3558 Crore
Employment (Nos)	3717 Persons

7. Observation and Recommendation of the Committee:

The Project Proponent/consultant presented the request for an amendment in the Environmental Clearance (EC) dated 06/09/2021 regarding mining over 0.9113 ha of the safety zone area of the Noamundi Iron Mine, spanning approximately 1213 meters within the 7.5-meter periphery of the safety zone along the boundary shared with the Katamati Iron Mine of Tata Steel Limited.

Upon reviewing the KML file, the Committee observed that mining activities will take place along the common boundary shared with the Katamati Iron Ore Mine, which lies in the State of Orissa. The Project Proponent has already obtained permission from the Directorate-General of Mines Safety (DGMS) to work within the 7.5-meter common mine boundary. The Committee noted the submission of the Project Proponent and advised the Project Proponent to inform both the Jharkhand and Orissa state authorities about the mining activities on the common boundary. A No Objection Certificate (NoC) from both states will be required for operations along the shared boundary of the mining lease area.

In view of the above, the Committee **deferred** the proposal and asked the following requisite information:

- i. The Project Proponent needs to submit the No Objection Certificate (NoC) from both Jharkhand and Orissa states for conducting mining operations along the common boundary of the Mining Lease (ML) area. Similarly, from DGMS permission and IBM permissions check?
- ii. The Project Proponent needs to submit the latest action taken report on the site inspection/monitoring report issued by the Regional Office (RO), Ranchi along with proper proofs/documents (photographs, videos etc.) with respect to steps taken for compliances.
- iii. PP should submit about the sites where OB/Waste, ore/ sub grade ore excavated/generated after this proposed mining will be dumped/stacked with necessary precautions with respect to environmental safeguards (catch drains, siltation ponds, control against air pollution, etc.)
- iv. PP should explore to reduce the fresh water requirement for their project (i.e. from Baitarani river). Construction of water reservoir in the mine lease, utilization of mine sump water, reutilization of process water, control in water leakages, etc. should be taken in view for the above.
- v. PP should clarify the difference in the lease area that is granted to it in 2015 under MMDR act i.e. 768.55 ha and mine lease area in approved mine plan (1160.06 ha)???

2.5 Expansion of Iron Ore production capacity from 10 MTPA to 26 MTPA Hematite, 45 MTPA BHQ (Banded Hematite Quartzite), 5 MTPA Waste (Total Excavation: 60.0 MTPA) along with crushing and screening plant at Surjagarh Iron Ore Mine lease area of 348.09 Ha by M/s Lloyds Metals & Energy Ltd located near Village Surjagarh, Tehsil Etapali, District Gadchiroli, Maharashtra– Terms of Reference reg.

[Online Proposal No. IA/MH/MIN/484521/2024, File No. J-11015/348/2005- IA. II (M), EIA Consultant M/s Mecon Limited] – Terms of Reference reg.

The instant proposal is for Terms of Reference for expansion of Iron Ore production capacity from 10 MTPA to 26 MTPA Hematite, 45 MTPA BHQ (Banded Hematite Quartzite), 5 MTPA Waste (Total Excavation 60 MTPA) along with crushing and screening plant at Surjagarh Iron Ore Mine lease area of 348.09 Ha by M/s Lloyds Metals & Energy Ltd located near to Village Surjagarh, Tehsil Etapali, District Gadchiroli, Maharashtra.

2. The details of the project as ascertained from the document submitted by the Project Proponent are mentioned below:

i. Project details:

Name of the Proposal	Expansion of Iron Ore production capacity from 10 MTPA to 26 MTPA Hematite, 45 MTPA BHQ (Banded Hematite Quartzite), 5 MTPA Waste (Total Excavation: 60.0 MTPA) along with crushing and screening plants at Surjagarh Iron Ore Mine lease area of 348.09 Ha., located near village Surjagarh, Tehsil Etapali, District Gadchiroli, Maharashtra, of M/s. Lloyds Metals & Energy Ltd.	
Location	Village	Surjagarh
	Tehsil/Taluka	Etapalli
	District	Gadchiroli
	State / UT	Maharashtra
	Latitudes	19° 36' 58.96" N to 19° 38' 21.48" N
	Longitudes	80° 20' 57.12" E to 80° 22' 32.84" E
	SoI Toposheet No.	E44C6
Company's Name	M/s Lloyds Metals and Energy Limited	
Accredited Consultant and certificate no.	MECON Limited, Certificate No: NABET/EIA/2023/RA 0195 (Rev.02)	
Seismic zone	Seismic Zone II	

ii. Category details:

Category of the project	'A' Category
Provisions	As per the EIA Notification vide S.O. 1533 (E), dated 14.09.2006 and its amendments.
Mining lease Area (MLA) (in ha.)	348.09

iii. ToR/EC Details:

ToR application date for Form-I	29 th June 2024
Documents Submitted	CAF, Form 1 (Part A), Form 1 (Part B), PFR, kml file of the ML area, Baseline report, Lease Deed, Authorization of Applicant, Conceptual Plan, Mining Plan & drawings.

Production capacity in million tonnes per annum only	Expansion From 10 MTPA (ROM) to 26 MTPA Hematite, 45 MTPA BHQ (Banded Hematite Quartzite)
Soil	-
Waste	5 MTPA (Waste Rock)
Others	-
Total Excavation(with break-up) in million tonnes per annum only	60 MTPA
ROM in million tonnes per annum only	26 MTPA Hematite, 45 MTPA BHQ
Crusher	Crushing Plant:Primary crushing plants -3 x 3000 TPH Gyratory crusher, 1 x700 TPH Jaw crusher, 1 x 350 TPH Jaw crusher, 5 x 250 TPH Jaw crusher, Secondary crushing plants: 12 x 625 TPH Cone crusher, 1 x700 TPH Cone crusher, 1 x 350 TPH Cone crusher, 5 x 250 TPH cone crusherScreening plant: 12x 625 TPH Screen plant, 5 x 900 TPH Screen plant, 3 x 400 TPH Screen plant, 2X250 TPH screen plant
Previous EC details	Project Proponent has obtained EC vide letter No. J-11015/348/2005-IA.II (M) dated 24.02.2023 for Iron Ore production capacity 10.0 MTPA (ROM).

iv. Lease Details:

Application for the Mining lease area and Date	The Project Proponent has obtained mining lease vide Lr. No. MMN1104/C.R.683/Ind-9 dated 13.04.2007 and mining lease executed on 03.05.2007 for 348.09 ha.	
Validity of mine lease	02.05.2057	
Letter of Intent	Letter No.	MNN-1004/P.N./683/Industry-9
	Date	19.08.2004
Chronology of lease	The Mine lease was issued on 03.05.2007, which is valid till 02.05.2027, Further extended upto 02.05.2057.	

extension if any	
Additional information(if any)	Mining lease was granted for 20 years over an area of 348.09 ha vide Letter No. MMN1104/C.R.683/Ind-9 dated 13.04.2007 and executed on 03.05.2007. Further, as per MMDR Amendment Act, 2015, supplementary lease deed was executed on 03.12.2021, which is valid up to 02.05.2057.

v. Mining plan details:

Mining Plan(approved by Indian Bureau of Mines/DMG)	Letter No.	MCDR-GAD0FE/8/2023-NR-IBM RO NR
	Date	14.06.2024
	Validity	31 st March 2027
Mining Parameters	Quantitative Description	
Bench Height	10m-20m	
Bench Width	15m-30m	
Method of Mining	A-Mechanized, Open Cast Mining	
Individual bench slope	80°	
Overall pit slope	37°	
Drilling/Blasting	Drilling using 115-250mm diameter drills with 10% sub grade drilling. Blasting is being done by SME and electronic initiation system	
RoM output size	Type of ore	Product size in mm
	Hematite	CLO (5-20 mm,10-40 mm) &Fines (-10 mm)
	BHQ	-40 mm
Life of mine	32 years	
Transportation details	Dumpers/ Trucks/conveyor belt	
Dumpers capacity	30 - 240 T	

vi. Land Area Breakup (in hectares):

Private land	-
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Government land	348.09 ha (Forest land)
Total Mining lease area (MLA)	348.09 ha
Private land for crusher, workshop & other infrastructure outside the MLA	All facilities within ML Area

vii. Nearest village/ town/ highway/ railway station/ water bodies/monument

Particulars	Particular's Name	Distance &Directions
Nearest Village	a. Hedri	2.7 km (SE)
	b. Bande	2.1 km(S)
	c. Surjagarh	3.1 km (E)
	d. Mallampahad	2.2km (E)
	e. Manger	3.6 km (SE)
	f. Moharli	2.9 km (NW)
Nearest highway	SH-363	5 km (SE)
	NH-353 C	57 km (SW)
Nearest railway station	Balharshah Jn.	~157 km(W)
Water Bodies	a. Bande river	1.75 km (W)
	b. Kappe Nadi	2.95 km (N)
	c. Akeran Nadi	6.04 km (W)
	d. Dumme Nadi	6.07 km (SW)
Monument	None within 10km	

viii. Water requirement

Total water requirement	Present: 1200m ³ /day, Incremental: 1012 m ³ /day Total : 2212 m ³ /day	Fresh water	2032 m ³ /day
	Potable water :Present :70m ³ /day, Incremental: 403 m ³ /day, Total : 473 m ³ /day	Treated water	180 m ³ /day

Source	Surface and ground water
Permission	<ul style="list-style-type: none"> NOC to abstract 70 m³/day (present potable water consumption) of Ground Water has been obtained from CGWA, Govt. of India vide NOC No. CGWA/NOC/MIN/ORIG/2022/14843, dated 21.03.2022. The application for 473m³/day is being submitted. Approval of withdrawal surface water for 13200 KLD from river Bande is obtained from Dept. of Water Resources, Govt. of Maharashtra vide letter no. 2022/(218/22)/सस.व्य. धो-2) dated 13.01.2023

ix. Presence of Environmentally Sensitive areas in the study area

Forest Area/Environmental Sensitivity Zone	Land/Protected	Yes/No	Details of Certificate/letter/Remarks
Forest Land		Yes	FC received vide letter no. F. No. 8-31/2005-FC dated 23/03/2007
National Park		No	
Wildlife Sanctuary		No	
Eco-Sensitive Zone(ESZ) /Eco-Sensitive Area(ESA)		No	

x. Availability of Schedule-I species in study area:

Schedule-1 species	Yes/No	Details of Certificate/letter/Remarks
Schedule-I species	Yes	There are some Schedule I Fauna like sloth bear, Indian porcupine, peafowl etc. in the study area.
Status of Wildlife Conservation Plan Additional information (if any)	Approved	Site Specific Wildlife Conservation Plan has been approved by PCCF (WL), Maharashtra vide letter dated 15.02.2023 with a total financial out lay of Rs.912.5 lakhs for ML area and buffer zone.

xi. The status of Forest Clearance/Wildlife Clearance/CRZ/CGWA:

- Forest Clearance:Ministry of Environment Forests & Climate Change (FC Division), Govt. of India, New Delhi has accorded approval vide F. No. 8-31/2005-FC dated 23/03/2007 for diversion of 374.90 ha, including 348.09 ha for mine lease and the rest is for road and transmission line.

- Wildlife Management Plan: Site Specific Wildlife Conservation Plan has been approved by PCCF (WL), Maharashtra vide letter dated 15.02.2023
- CGWA Permission:GW NOC to abstract 70 m³/day (present potable water consumption) of Ground Water has been obtained from CGWA, Govt. of India vide NOC No. CGWA/NOC/MIN/ORIG/2022/14843, dated 21.03.2022

xii. Status of CTE/CTO:

- Consent to Establish (CTE) for 10 MTPA Iron ore production has been granted by Maharashtra Pollution Control Board, Maharashtra vide letter no: 0000147010/CE/2301001784 dated 20.01.2023.
- Consent to Operate (CTO) has been granted from the Maharashtra Pollution Control Board, Maharashtra vide letter no.0000188508/CR/2403003071-dated28.03.2024for 10 MTPA of Iron ore production and is valid up to 31.03.2029.

xiii. Green belt/plantation details:

Proposed area for green belt/plantation	Sl. No	Year	Green Belt Location (s)	Area Proposed to be Covered (Ha)	Number of Plants Proposed	Expected Survival Rate (%)	Estimated Expenditure (INR)
	1	2024 - 2025	Safety Zone	0.326	652	80	40000
	2	2025 - 2026	Safety Zone	0.423	846	80	50000
	3	2026 - 2027	Safety Zone	0.423	846	80	50000
Additional information (if any)	A total area of 6.17 ha earmarked for green belt.						

Particulars for Green belt/plantation	Area covered (in Ha)
7.5 m wide all along ML area	6.17
Additional information (if any).	The Project Proponent has completed the gap plantation.

xiv. Baseline detail

Baseline Data (Air/ Water/ Noise/ Soil/ Ground water table/ others)

Period of baseline data collection	December 2023 – Feb, 2024
Season (Summer / Pre-monsoon / Post-monsoon / Winter)	Winter season 2023-24

xv. Court case details:

Co urt Ca se	CaseName	<i>Samarjeet Chatterjee vs Union of India & Ors</i>	<i>Prakruti foundation/ s Union of India and Ors</i>	<i>Bramhanand Tiwari vs. Collector, Gadchiroli and others</i>
	Name of the court / tribunal (Supreme Court/ High Court / NGT/ Dist. Court / Others)	High Court of Judicature at Bombay, Nagpur Bench	High Court of Judicature at Bombay, Nagpur Bench	National Green Tribunal (Western Zone) Pune
	Case category (CA/ SLP (Cr.) / SLP (Civil)/ WP (Cr.) / WP (civil) / OA / Appeal / Complaint case / others)	Public Interest Litigation	Public Interest Litigation	Original Application
	Case Number	6 of 2023	19 of 2023	14 of 2024
	Status of court case (disposed off / reserved for judgement/)	Pending	Pending	Pending

xvi. Affidavit/Undertaking details:

Affidavit/Undertaking	LMEL has submitted an undertaking by way of Notarized Affidavit dated 25.06.2024 in compliance of the Ministry's OM no. 3-50/2017-IA.III(Pt.) dated 30.05.2018.
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xvii. Details of project cost and employment:

Particulars	(Rs. In Crore)
Project Cost	Total Cost Rs. 1713.58 Crores, [Existing Cost – 364.28 Crores; Expansion Cost – 1349.3 Crores]
Employment	6000 (Direct & Indirect)

3. Observation and Recommendation of the Committee:

The Project Proponent has presented their presentation for Terms of Reference and explained the important site features through kml file, such as the villages lying within the close proximity of 3km from the ML area namely Bande, Mallampardi and Hedri. The Committee observed that the instant proposal is for expansion of Iron ore mine for obtaining Terms of Reference.

Further, Committee noted that the infrastructural facility including roads available for 10 MTPA may not be sufficient to transport the expanded capacity; the existing road needs to be strengthened to transport the maximum capacity i.e. upto 55 MTPA of ore. The loading capacity of trucks and transportation frequency is to be properly assessed and synchronized with each other after conducting detailed traffic study from any national reputed institute. As per the kml file, the Committee noted that the mineral transportation route is passing through forest area wherein the Schedule-I species such as Sloth bear and Peafowl movement exist. Therefore, the Committee requested to engage any wildlife experts during the traffic study to avoid any mortality during the movement of trucks. The Committee also noted that the dumping activity has been initiated near to the boundary of the Forest area, wherein the retaining wall has to be established in order to protect the forest from the seepage/flow of dump water especially during the rainy season. A proper scientific plan needs to be submitted before the committee in order to save the forest area and wild animals from the seepage /flow of dump water. Committee also highlighted the tiger corridor passing near the area.

The Committee asked the project proponent to address the concerns of the locals living in villages w.r.to the air quality/noise pollution. PP was asked to submit the installation status of CAAQMS and the online data generated by it. PP also need to state whether the air quality data is being shared on a real time basis with State PCB/ CPCB.

Subsequently, the Committee highlighted the concerns w.r.to the proposed application for 473 KLD to fulfill the domestic water requirement. The Committee asked to submit the detailed justification for it. In addition to the above, Committee during the EAC meeting noted that total three nos. of court cases are pending against the project proponent as given under-:

- a) PIL Public Interest litigation) 6 of 2023 (Samarjeet Chatterjee vs Union of India & Ors) is pending before the Hon'ble High court of Judicature at Bombay, Nagpur Bench. The matter pertains to expansion of mining capacity permitted by the Ministry for undertaking mining of Iron Ore at village Surjagarh (Wooria Hill), Tah. Etapalli, District Gadchiroli by the PP. It is stated in the petition that the expansion exceeds 50% of the production capacity which is contrary to the Guidelines. Further, the public hearing in the matter has been conducted without following the prescribed procedure and hence the permission for expansion of mining capacity is vitiated.

- b) a PIL Public Interest litigation) 19 of 2023 (Prakruti foundation v/s Union of India and Ors) is pending before the Hon'ble High court of Judicature at Bombay, Nagpur Bench.
- c) Original Application No 14 of 2024 (Bramhanand Tiwari vs. Collector, Gadchiroli and others) is pending before the Hon'ble National Green Tribunal (Western Zone) Pune.

Committee therefore asked the project proponent to submit an undertaking stating that there is no stay or any adverse orders passed against the Project Proponent by the Hon'ble Courts till date.

Committee also asked the PP to furnish details of the court cases mentioned above and the replies filed therein by the PP in a tabular form.

Based on aforesaid discussions and presentation made by the Project Proponent and the Consultant, the EAC in its meeting held during 9-11th September, 2024 under the provisions of EIA Notification, 2006 and its subsequent amendments therein, recommended the proposal for grant of Terms of Reference (ToR) for expansion of Iron Ore production capacity from 10 MTPA to 26 MTPA Hematite, 45 MTPA BHQ (Banded Hematite Quartzite), 5 MTPA Waste (Total Excavation: 60.0 MTPA) along with crushing and screening plant at Surjagarh Iron Ore Mine lease area of 348.09 Ha by M/s Lloyds Metals & Energy Ltd located near Village Surjagarh, Tehsil Etapali, District Gadchiroli, Maharashtra 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 also needs to furnish details of the court cases mentioned above and the replies filed therein in a tabular form. The ToR shall be accorded only after the submission of an undertaking stating that, *"There is no stay or any adverse orders passed against the Project Proponent by the Hon'ble Courts till date"*.
- ii. The Project Proponent needs to engage a national institute of repute to conduct a carrying capacity study of the existing road and submit the detailed traffic study w.r.t. the proposed capacity upto 55 MTPA (proposed ore transportation). The traffic study should synchronize the existing and proposed loading capacity of dumpers.
- iii. The Project Proponent needs to engage any wildlife experts during the traffic study to avoid any mortality of wildlife from the movement of dumpers through the dense forest area.

- iv. The Project proponent needs to submit the detailed scientific plan for constructing the retaining wall/other structures so that there is no flow of dump silt outside the lease area.
- v. PP needs to submit a colour coded map highlighting the tiger corridor present near the mine lease area.
- vi. PP needs to submit the installation status of CAAQMS and the online data generated by it. PP also need to state whether the air quality data is being shared on a real time basis with State PCB/ CPCB.
- vii. The Project proponent needs to submit the detail plan for reducing the consumption of diesel w.r.t. the instant proposal for expansion and comparative consumption should be submitted showing the existent and proposed use of diesel .
- viii. The Project proponent needs to submit a detailed plan showing more use of renewable energy in the project.
- ix. The Project proponent needs to submit the detail justification for using 473KLD water. PP should explore other sources (example water reservoir etc.) in order to minimize the withdrawal of groundwater.
- x. PP needs to submit a detailed plan for installation of OLBC system along with a definite timeline, till the proposed plant.
- xi. PP should submit the layout of Slurry pipeline (complete route) alongwith its water consumption.
- xii. The Project Proponent needs to submit the detailed scientific study on flora and fauna and also to highlight on the endangered species. The Project Proponent needs to verify the list as per the latest Wildlife Protection Amendment Act, 2022.
- xiii. The Project Proponent needs to monitor the ambient air quality and noise level at the mine lease boundary, nearest village, crusher, predominant downwind direction and at other sensitive receptors. Accordingly, Project Proponent shall propose to install Continuous Ambient Air Quality Monitoring Station within certain timeline.
- xiv. The Project Proponent should prepare the EMP considering the scenario of pollution to be generated for normative and peak total excavation for assessing air pollution, noise level and ground vibration.

- xv. The Project Proponent needs to carry out the Public Hearing as per provisions of EIA Notification, 2006. PP should also submit the time bound action plan on concerns of the public through a separate budget with capital expenditure with a timeline of 3 years. The Project proponent shall ensure that the activities proposed under the public hearing shall be different from the CSR activities.
- xvi. The Project Proponent needs to undertake the enumeration of the species within the mine lease area before cutting. The Project Proponent also needs to submit the compensatory afforestation plan for the no. of trees to be cut in the mine lease area and also to explore the possibility of tree transplantation.
- xvii. The Project Proponent needs to submit the action plan for undertaking the plantation along the 7.5m barrier, safety zone of tar road/cart tracks, electric line etc., PP should also submit the details no of saplings to be planted, type of saplings proposed and the area to be covered under greenbelt/plantation along with the timeline and budget. The greenbelt/plantation plan shall be prepared in such a way that the ecology of the area shall be restored.
- xviii. The Project Proponent shall carry out the assessment of impact due to the proposed project as per the guidelines issued by the Central Ground Water Authority from time to time and submit the same as a part of the EIA/EMP.
- xix. The project proponent shall conduct hydrological study for projects involving intersection of ground water table as per the guidelines issued by the Central Ground Water Authority from time to time and submit the same as a part of the EIA/EMP.
- xx. The Project Proponent shall explore the possibility of reduction of specific water requirement by optimization / technology up gradation, etc. The efforts shall be delineated in the EIA/EMP.
- xxi. The Project Proponent shall prepare the scheme for mandatory recycle/re-use of water as specified by the Central Ground Water Authority for different category areas seeking NoC for ground water withdrawal and the shall submit as part of EIA/EMP report.
- xxii. The Project Proponent needs to submit the detailed R&R plan covering all the components viz. number of Project Affected Families (PAF) 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.
- xxiii. The Project Proponent 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 in consultation with the local people. Further, PP needs to

submit the possession certificate and timeline for acquiring the land at the time of submission of EC proposal.

- xxiv. The Project Proponent shall conduct drone survey of the mine lease area and buffer area and submit during the appraisal for EC.
- xxv. The Project Proponent shall provide the details of Special Pollution Control/ Abatement devices that have been installed/ proposed to be installed within the ML area and how does the technology compare with the best available technology in the field. September 2024.

2.6 Kalay Mineral Block- Block IV (Auction Block) of M/s Fomento Resources Private Limited for mining of Iron Ore with proposed production capacity of 0.75 MTPA, Waste 3.0 MTPA in the mine lease area of 152.5073 Ha, located at Village Santana, Sanguem Taluka, South Goa District, Goa.

[Online Proposal No. IA/GA/MIN/483891/2024; File No. IA-J-11015/11/2023- IA-II(NCM), EIA Consultant Mineral Engineering Services - Amendment in Terms of Reference (ToR) dated 08.01.2024 - reg.

The Instant proposal is for amendment in Terms of Reference dated 08.01.2024 for Kalay Mineral Block- Block IV (Auction Block) of M/s Fomento Resources Private Limited for mining of Iron Ore with proposed production capacity of 0.75 MTPA, Waste: 3.0 MTPA in the mine lease area of 152.5073 Ha, located at Village Santana, Sanguem Taluka, South Goa District, Goa.

2. The project Proponent has submitted their request to amend the Terms of Reference letter dated 08.01.2024 w.r.to the standard condition 2 which mandates the project proponent to submit a certificate from Forest Department regarding involvement of Forest Land if any. The condition is reproduced here in below for reference:

“PP shall submit a certificate from Chief Conservator of Forests regarding involvement of Forest Land in the mining lease area if any. In case forest land is involved i) PP should submit the proof of application made for obtaining forest clearance and ii) a map clearly showing the forest & non forest area”.

3. In compliance to ToR granted (standard condition no. 2 Forest at S. No 2.1, page no 08 of 13), the Project proponent vide letter dated 16.05.2024 requested Forest Department Govt. of Goa to confirm involvement of Forest Land, if any within Block-IV. Vide letter dated 20.05.2024 the office of Dy. Conservator of Forest, South Goa informed the project proponent the status of Forest land as below:

i. Survey No. 26 & 43 of Santona village, Sanguem taluka constitutes to be part of South Goa Working Plan Compartment No.20 & 21 of Santona Forest Block being Government unclassified forest.

ii. Survey No.27 (P) & 28 (P) Santona village, Sanguem taluka has been identified as prospective private forest by South Goa Forest Division Committee. (Araujo Committee).

4. The Project proponent accordingly applied for diversion of Forest land on Parivesh portal of MoEF& CC vide Proposal ID No. FP/GA/MIN/QRY/472990/2024.

5. Further, upon verification by field functionaries, vide letter dated 19/06/2024, the office of the Principal Chief Conservator of Forest, provided the Forest area w.r.t. 26/1(p), 43/1(p), 27(p) & 28(p) with details as tabulated below:

Sr. No.	Survey Nos.	Area in Ha.	Remarks
1	27 (p)	0.9959	Prospective Private Forest
2	28 (p)	1.9161	
3	26/1 (p)	13.4539	Unclassed Forest
4	43/1 (p)	4.7671	
	Total	21.133	

6. Accordingly, approved Mining Plan is modified for the involvement of Forest Land (in view of changes in land use pattern in respect of Survey nos. 27(p), 28(p), 26/1(p) & 43/1(p)) and approval from IBM has been obtained vide their letter dated 23/08/2024. Therefore, in view of involvement of forest land the present application is filed on 27/06/2024 for amendment of already granted TOR on 08/01/2024.

7. The details of the project as per the document submitted by the Project Proponent are mentioned below:

i. Project details:

Name of the Proposal	Block IV- Kalay Mineral Block	
Location	Village	Santona
	Tehsil/Taluka	Sanguem
	District	South Goa
	State / UT	Goa
	Latitudes & Longitudes	

	All the co-ordinates of the lease boundary corner points as per the approved DGPS Plan from Directorate of Mines and Geology, Govt. of Goa are given as below:																																																										
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KML file	Submitted as a file named - Block IV - Kalay Mineral Block																																																										
Seismic zone	III																																																										

ii. Category details:

Category of the project	B1
Schedule No.	1(a) Mining of Minerals
Mining lease Area (MLA) (in ha.)	152.5073 Ha
General Conditions (if any)	Bhagwan Mahaveer Wildlife Sanctuary & National Park is within 5 KM from the boundary of the Block IV – Kalay Mineral Block

iii. ToR Details:

Date of application	Proposal No.	Consideration by EAC	Details of ToR	Date of accord
24/04/2023	IA/GA/MIN/422578/2023	05/12/2023	TO23B0000GA5122365N	08/01/2024

iv. Details of Mine Lease in chronological manner:

S. no.	Prospecting License/ Letter of Intent (LoI)/ Grant of Mine lease and Lr No	Date of the grant	Name of the Mineral &(Major/ Minor)	Period of Grant	Granted by	Mine lease area in Ha
1	Letter of Intent No. DMG/25/Auction cell/LOI-function/2023/2804, read with letter No.03/18/2023/Major/Mines/3286 dated 13/03/2023 for revising area by excluding the Eco-sensitive zone (ESZ) area of 26.6753Ha.	13/01/2023 & 13/03/2023	Iron Ore (Major)	LOI valid for 3 years	Directorate of Mines and Geology	152.5073Ha.

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

Private land	72.9675 Ha.
Government land	58.4068 Ha.
Forest land	21.1330 Ha.
Total Mining lease area (MLA), ha	152.5073 Ha.
Private land for crusher, workshop & other infrastructure outside the MLA	Nil

vi. Water requirement:

Total water requirement	300KLD	Fresh water	246KLD
		Treated water	54KLD
Source	1. Rain & Storm water accumulated in the Mine Pit – used for Dust suppression, Workshop, Wheel wash System and Green belt/plantation. 2. Well water – used for Domestic purpose.		

Permission for withdrawal/ intersection along with details of grant and its validity	The Water Resources Department, Goa, has issued permission for drawl of water vide letter No. 3682and is valid upto 05.06.2026.
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vii. Presence of Environmentally Sensitive areas in the study area

Forest Land/Protected Area/Environmental Sensitivity Zone	Yes/No	Details of Certificate/letter issued by the concerned Department mentioning the Lr no, date of grant and remarks
Forest Land within the mine lease area and (if yes) status of Forest Clearance	Yes	An application for diversion of Forest land for an area of 21.1330 Ha. has been filed online on Parivesh portal. The application has been accepted and is under process.
National Park	Yes	Bhagwan Mahaveer Wildlife Sanctuary & National Park is at a distance of 1.04 Km from the boundary of Mineral Block.
Wildlife Sanctuary	Yes	Bhagwan Mahaveer Wildlife Sanctuary& National Park is at a distance of 1.04Km from the boundary of Mineral Block.
Elephant/Tiger Reserve	No	--
Eco-Sensitive Zone(ESZ) /Eco-Sensitive Area(ESA)	Yes	<ol style="list-style-type: none"> 1. Bhagwan Mahaveer Wildlife Sanctuary is located at 1.04km from the boundary towards Eastern side of the Block. 2. The Mineral Block does not fall within the Eco-Sensitive Areas of Western Ghats
Coastal Regulation Zone (CRZ)	No	--
Schedule-I species (Nos and name of schedule-I species with authenticated letter)	Yes	Details regarding Schedule-I species will be provided in the EIA report.
Wildlife Conservation Plan	Yes	A Wildlife Conservation Plan has been prepared in consultation with Forest Department based on the Schedule - I species reported in the buffer

		zone of the project and the same has been submitted to the Chief Wildlife Warden, Goa.
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viii. Court case details:

Court Case, No. and its present status	<ol style="list-style-type: none"> 1. Writ Petition 592 of 2022 in Hon'ble High Court of Bombay at Goa <ul style="list-style-type: none"> • The said petition seeks to challenge the constitutionality of the tender documents of Phase I auction of Goa mines. • The petitioner alleges that there is a non-disclosure of essential facts such as bore hole data, approved mining plan, production data of the previous five years and exploration data and has therefore prayed for quashing of auction notice to the extent, it fails to include the essential facts which is against the principle that level playing field should be provided to the petitioner for its participation in the auction. 2. As per the last order, Fomento Resources Private Limited is added as a party to the petition as it has acquired Block IV- Kalay Mineral Block in e-auction tendered vide NIT dated 30/09/2022. 3. Above said Writ Petition bearing no. 592 of 2022 in Hon'ble High Court of Bombay at Goa stands dismissed vide order dated 12/02/2024.
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ix. Details of project cost and employment:

Particulars	(Rs. In Crore)
Total cost of EMP (Capital Cost of EMP + capital cost of Public hearing)	Not Applicable.
Project Cost	Rs.3680 Lakhs
Employment (Nos.)	<p>Direct & indirect employment of 327 persons.</p> <p>Approximately 1500 peoples will benefit directly & in-directly by this project.</p>

8. Observations and Recommendations of the Committee:

The instant proposal pertains to an amendment in the Terms of Reference (ToR) dated 08/01/2024, with reference to the standard condition No. 2.1. The Project Proponent presented their case for amending the Terms of Reference, highlighting the involvement of 21.133 hectares of forest land within the Mine Lease (ML) area. PP also mentioned that they have submitted an application for Stage-I Forest Clearance for the said 21.133 hectares of Forest Land on 15/05/2024 to obtain permission for the diversion of the forest area. The Committee reviewed the request from the Project Proponent and

the letter dated 20/05/2024 and 19/06/2024 issued by the State Forest Department confirming the presence of 21.133 hectares of Forest land within the ML area.

In view of the above, the EAC opined that FC stage-I shall be required at the time of EC application for 21.133 ha of Forest Land and the existing mining plan has to be amended accordingly.

Based on above discussion, the Committee **recommended** the proposal for amendment in the Terms of Reference letter dated 08/01/2024 with following additional specific conditions: -

- i. PP needs to submit the stage-1 Forest Clearance for the forest land of 21.133 ha lying within the ML area.
- ii. The Project Proponent needs to submit the revised Mine Plan at the time of Environmental Clearance application, incorporating the newly identified forest area of 21.133 hectares.
- iii. PP needs to explore whether fresh water requirement can be reduced for the project. Construction of water reservoir in the lease area should also be explored.
- iv. The Project Proponent shall provide the details of Special Pollution Control/ Abatement devices that have been installed/ proposed to be installed within the ML area and how does the technology compare with the best available technology in the field.

2.7 Dhaukan-Dhaurra-Urdaurra Iron Ore Block by M/s Pacific Iron Manufacturing Ltd with total production capacity of proposed capacity 4.690 MTPA of ROM (Iron Ore: 2.057 MTPA & waste: 2.633 MTPA) along with installation of jaw crusher (500 TPH), cone crusher (250 TPH) & impact crusher (250 TPH) in the Mine Lease area of 153.031ha located at Village(s) Dhaukan, Dhaurra and Urdaurra, Taluka Prithvipur, District: Niwari, State Madhya Pradesh - For Terms of Reference reg.

[Online Proposal No. IA/MP/MIN/469536/2024; File No. J-11015/29/2024-IA.II (NCM)]

The instant proposal is for Terms of Reference for Dhaukan-Dhaurra-Urdaurra Iron Ore Block by M/s Pacific Iron Manufacturing Ltd with total production capacity of proposed capacity 4.690 MTPA of ROM (Iron Ore: 2.057 MTPA & waste: 2.633 MTPA) along with installation of jaw crusher (500 TPH) ,cone crusher(250 TPH) & impact crusher (250 TPH) in the Mine Lease area of 153.031ha proposed at Village(s) Dhaukan, Dhaurra and Urdaurra, Taluka Prithvipur, District Niwari, State Madhya Pradesh.

2. The details of the project as per the document submitted by the Project Proponent are mentioned below:

- i. The mine lease area is located between Latitude 25°13'12.00"N to 25°13'42.58"N and Longitude 78°36'46.39"E to 78°38'28.49"E.
- ii. The mine lease area falls under the Survey of India Toposheet No. 54 K/12 and falls in Seismic Zone II.
- iii. The proposed project activity is listed at Schedule no. 1(a) Mining of Minerals, Category "B" as the mining lease area is less than 250 ha but due to applicability of General Condition because of the presence of Orchha Wildlife Sanctuary at a distance of 2.26 Km and its Eco Sensitive Zone (ESZ) at a distance of 0.11 km from the mine area. Uttar Pradesh-Madhya Pradesh Interstate Boundary is also at a distance of 4.26 Km, WSW direction from the mine site.
- iv. Details of Mine Lease in chronological manner:

Prospecting License/ Letter of Intent (Lol)/ Grant of Mine lease and Lr No	Date of the grant	Name of the Mineral & (Major/ Minor)	Period of Grant	Granted by	Mine lease area in Ha
LOI	27.07.2022	Iron Ore (Major Mineral)	50 Years	Secretary, Govt. of Madhya Pradesh, Mineral Resource Department	153.031

- v. Land Use/ Land Cover of the Mine Lease Area:

Private land	:	73.282
Government land	:	79.749
Forest land	:	00
Total Mining lease area (MLA), ha	:	153.031 ha
Private land for crusher, workshop & other infrastructure outside the MLA	:	NA

- vi. Mining plan details:

Mining Plan including Progressive Mine Closure Plan (approved	:	Letter No.	No. E 10377 MCDR-MPC0FE/4/2024-JBP-IBM_RO_JBP
		Date	20.06.2024

by Indian Bureau of Mines/DMG)	Mineral & (Major/ Minor)	Major			
	Mine Lease Area, Ha	153.031 Ha.			
	Validity of Mine plan	5 Years			
Mining Parameters	:	Quantitative Description			
Method of Mining	:	Opencast Mechanized Method			
Drilling/Blasting	:	Drilling: Self-Propelled Hydraulic Drill with Top Hammer Blasting: Controlled blasting will be done under the supervision of competent Mining Engineer following safety precautions as laid down in the Metalliferous Mines Regulation 1961			
Geological Reserves	:	42.70 MTPA (4,27,06,039.86 MT)			
Mineable Reserves	:	28.55 MTPA (2,85,50,437.93 MT)			
Breakup of Total Excavation (Topsoil/ OB/ SB/ IB/ Mineral Rejects/ Waste, MTPA)	:	S. No.	Particulars	MTPA	TPA
		1	ROM	4.690	46,90,419.50
		2	Iron Ore	2.057	20,57,516.70
		3	Waste	2.633	26,32,902.80
Life of mine	:	6 years			
Mine Bench Height & Bench Width	:	Bench height will be kept 6m and width of the bench 6m.			
No. of Mine Benches	:	New pit – 1=14 no's of benches, New pit - 2 =8 no's benches as per First five year working proposal and end of conceptual period about dhaukan block =22-25 no's benches and DhauraUrdaura blocks =18-23 no's benches will be developed.			
Existing Depth, m bgl	:	Fresh Lease Area			
Ultimate Depth of Mining, m bgl	:	150 Mrl			
Ground Water Table, m bgl	:	215 mRL			

Details of ground water intersection	:	At the end of mining Plan (fifth year), mine working will confined upto 222 mRL which is 36 m below the lowest elevation i.e. 258 mRL																
Individual bench slope	:	88 ⁰																
Overall pit slope	:	45 ⁰																
Details of existing/proposed Crusher	:	Proposed Jaw Crusher (500 TPH), Cone Crusher (250 TPH) & Impact Crusher (250 TPH) along with Deck Screen (500 TPH)																
Mineral Beneficiation	:	NA																
RoM output size	:	Lumps & Fines																
Transportation details including capacity of dumper/ tipper, mode of transport and distance	:	<p>The material after blasting will be loaded by hydraulic excavators of about 3m³ bucket capacity into dumpers of 24 tonnes carrying capacity for its transportation to crusher and waste dump yards. The final material will be transported through existing road networks:</p> <table border="1"> <thead> <tr> <th>Particulars</th> <th>Distance (Km)</th> <th>Width (m)</th> </tr> </thead> <tbody> <tr> <td>From Mine site to NH-539</td> <td>6.2</td> <td>~ 10.0</td> </tr> <tr> <td>On NH-539 (Village Neguwan Khas to Orcha Railway Station)</td> <td>17.5</td> <td>Existing- 9.0 Proposed- 12.0</td> </tr> <tr> <td>Total Distance</td> <td>23.7</td> <td>--</td> </tr> </tbody> </table>					Particulars	Distance (Km)	Width (m)	From Mine site to NH-539	6.2	~ 10.0	On NH-539 (Village Neguwan Khas to Orcha Railway Station)	17.5	Existing- 9.0 Proposed- 12.0	Total Distance	23.7	--
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Total Distance	23.7	--																
Generation of Topsoil/ OB & its Management during plan period & conceptual period	:	No generation of top soil/OB during the plan period.																
Generation of Mineral Rejects/ Waste & its Management during plan period & conceptual period	:	During the initial five-year plan period approximately 38,59,429 m ³ i.e (94,10,794.80 Tonnes) of waste will be generated and same will be stacked separately in the temporary dump. The entire waste will be used for the backfilling. Details of proposed waste dump along with their capacity in next five years are given below:																
		Year		Location	Quantity													

S. No.		Dump ID	Area (Ha.)	Height (m)	Latitude (N)	Longitude (E)	(m ³)	Location
1.	First Year	MW -1	5.0	4.50	25°13'16.74"	78°38'11.27"	2,17,700	SE
2.	Second Year	SD - 1	0.8	11.70	25°13'21.69"	78°38'18.64"	93,730	SE
3.	Second Year	MW - 1	5.0	17.60	25°13'16.74"	78°38'11.27"	8,82,400	SE
4.	Third Year	MW - 1	5.0	16.40	25°13'16.74"	78°38'11.27"	8,22,150	SE
5.	Fourth Year	SD - 2	1.0	12.23	25°13'13.73"	78°37'44.55"	1,22,352	South Central Part
6.	Fourth Year	MW - 2	4.5	21.90	25°13'16.66"	78°37'47.66"	9,84,644	South Central Part
7.	Fifth Year	MW - 2	4.5	16.36	25°13'16.66"	78°37'47.66"	7,36,418	South Central Part
Total							38,59,429	
<p><i>During the conceptual phase, approx. 2,31,47,062tonnes of waste will be generated which will be dumped in an area of 33.39 Ha. The generated waste will be used for backfilling.</i></p>								

vii. Water Requirement

Total water requirement	:	780 KLD
Source	:	Ground water
Permission for withdrawal/ intersection along with details of grant and its validity	:	NOC from CGWA will be taken and submitted during the final EIA/ EMP report.

viii. Nearest village/ town/ highway/ interstate boundary/ railway station/ water bodies/monument/ forest

Particulars	Particular's Name	Distance & Direction
Village	Urdaura:- 100 m, S Dhaura:- 700 m, S	0.07 km , SW
Town	Prithvipur	9.63 km, E
Highway	NH-539 NH-44	4.0 km, NE 11.6 km, WNW
Interstate Boundary	Uttar Pradesh-Madhya Pradesh Interstate Boundary	4.26 km, WSW
Railway Station/Railway line	Orchha Railway Station	19.31 km, North
Water Bodies	2 No of Nallahs (Seasonal) BardaNala	Passing with in the lease area 2.0 km, N
Forest	TapariyanHararan P.F.	0.38 km , N

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

Forest Land/ Protected Area/ Environmental Sensitivity Zone	Yes/No	Details of Certificate/ letter issued by the concerned Department mentioning the Lr no, date of grant and remarks
Forest Land within the mine lease area and (if yes) status of Forest Clearance	No forest land is involved within the Mining Lease area.	Certificate will be submitted at the time of final EC.
National Park	None within 15 Km radius	--
Wildlife Sanctuary	Orchha Wildlife Sanctuary - 2.26 Km, NNW	DCF certificate will be submitted at the time of final EC
Elephant/Tiger Reserve	None within 15 Km radius	--

Eco-Sensitive Zone (ESZ)/ Eco-Sensitive Area (ESA)	Eco Sensitive Zone (ESZ) of Orchha Wildlife Sanctuary - 0.11 km, WNW	DCF certificate will be submitted at the time of final EC
Coastal Regulation Zone (CRZ)	None within 15 Km radius	--
Schedule-I species (Nos and name of schedule-I species with authenticated letter)	The proposal is for obtaining Terms of Reference. The details will be submitted in the final EIA/ EMP Report and also presented during the final EC presentation.	--
Wildlife Conservation Plan	The proposal is for obtaining Terms of Reference. The details will be submitted in the final EIA/ EMP Report and also presented during the final EC presentation.	

x. Green belt/plantation details:

Proposed area for green belt/ plantation and no. of saplings proposed	:	Proposed area for green belt: 50.5 Ha. No. of saplings proposed: 1,26,225 saplings
Budget for green plant & plantation till the end of life of mine.	:	The proposal is for obtaining Terms of Reference. The details will be submitted in the final EIA/ EMP Report and also presented during the final EC presentation.
Budget for nursery	:	
Details of existing plantation and its survival rate	:	
No. of tree cuts in the mine lease area and compensatory afforestation	:	
Particulars for Green belt/ plantation	:	Area covered (in Ha)

7.5m barrier & non-mineralized zone	:	50.5
50 m safety zone of nallah, roads, electric lines	:	Safety Zone of Seasonal Nallah - 12.22 Ha.
500m safety zones of nearest habitation villages	:	--

xi. Baseline Detail- Baseline Data (Air / Water / Noise / Soil / Hydro geological study/ Traffic Study/ others):

Period of baseline data collection	:	March to May' 2024
Season (Summer/ Pre-monsoon/ Post-monsoon / Winter)	:	Pre-monsoon
Predominant Wind direction (From)	:	NE to SW
Ambient Air Quality (no. of locations) and results	:	10 Nos.
Noise level (no. of locations) and results	:	10 Nos.
Water Quality (no. of locations) and results	:	Ground Water - 07 Nos. Surface Water- 06 Nos
Soil Quality (no. of locations) and results	:	07 Nos.

xii. Rehabilitation & Resettlement (R&R):

R & R details	<ul style="list-style-type: none"> According to the preliminary socio-economic survey, the mine lease area accommodates around 51 families, comprising a total population of 186 people. <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>Particulates</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Proposed Number of Project Affected Person (PAP)</td> <td>186</td> </tr> </tbody> </table>	Particulates	Number	Proposed Number of Project Affected Person (PAP)	186
Particulates	Number				
Proposed Number of Project Affected Person (PAP)	186				

	Proposed Number of Person for Alternate Arrangement for Sustainable Livelihood	10
	Proposed Number of Person for Skill Training	103
	Proposed Number of Person Likely to Get Direct Employment	83
	Proposed Number of Person Likely to get indirect Employment	20
	Proposed Project Affected Families Skilled and Absorbed	47
	Proposed Number of Project Affected Families (PAF)	51
	<ul style="list-style-type: none"> A detailed study, including the Resettlement and Rehabilitation (R&R) Plan adhering to regulatory standards, will be submitted along with the final EIA/EMP report. 	

xiii. Earlier, The proposal was considered in the 29thEAC (NCM) held during 9-10th May, 2024 wherein the Committee deferred the proposal and asked submit the requisite information. The Project Proponent has submitted their proposal vide letter dated 18.06.2024, based on the submission of information the committee considered the proposal in 31stEAC Meeting held during 4 to 5thJuly, 2024. The Committee deferred the proposal due to the submission of project proponent for not able to attend the EAC meeting. Thereafter, the proposal considered in this EAC based on the submission of Project proponent are as follows:

S. No.	Observation of EAC	Reply by Project Proponent
1.	PP shall submit a certificate from the State Government stating that the lease area is not a part of Ken – Betwa project.	A certificate stating that the mining lease area is not a part of the Ken-Betwa project has been obtained from the Office of the Executive Engineer, Water Resources Division, Niwari vide letter no. Memo No. 530/W/2024-25 dated 16.07.2024. Certificate Regarding Project Is Not Part of Ken Betwa Project is enclosed as Annexure I.
2.	PP shall explore the possibility of implementation of Conveyor belt up to	The transportation route to Orchha Railway Station, approximately 23.70 km away, is not a straight path and includes many turns, undulations, and culverts. As a result, implementing conveyor belts is not

	<p>the nearest railway siding and submit the detail plan with date of completion of project.</p>	<p>feasible. Therefore, we propose to transport the mineral from the mine site to the Orcha Railway siding using the existing road networks. The mineral will be transported in trucks or dumpers that are fully covered with Tarpaulin sheets.</p> <table border="1"> <thead> <tr> <th>Particulates</th> <th>Distance (Km)</th> <th>Width (m)</th> </tr> </thead> <tbody> <tr> <td colspan="3">A. Transportation Route Distance</td> </tr> <tr> <td>From Mine site to NH-539</td> <td>6.2</td> <td>~ 10.0</td> </tr> <tr> <td>On NH-539 (Village Neguwankhas to Orcha Railway Station)</td> <td>17.5</td> <td>~9.0</td> </tr> </tbody> </table> <p>Transportation Route Map is enclosed as Annexure II.</p>	Particulates	Distance (Km)	Width (m)	A. Transportation Route Distance			From Mine site to NH-539	6.2	~ 10.0	On NH-539 (Village Neguwankhas to Orcha Railway Station)	17.5	~9.0				
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<p>3.</p>	<p>PP shall submit the detailed socio-economic study of the inhabitants present within the lease area.</p>	<ul style="list-style-type: none"> According to the preliminary socio-economic survey, the mine lease area accommodates around 51 families, comprising a total population of 186 people. <table border="1"> <thead> <tr> <th>Particulates</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Proposed Number of Project Affected Person (PAP)</td> <td>186</td> </tr> <tr> <td>Proposed Number of Person for Alternate Arrangement for Sustainable Livelihood</td> <td>10</td> </tr> <tr> <td>Proposed Number of Person for Skill Training</td> <td>103</td> </tr> <tr> <td>Proposed Number of Person Likely to Get Direct Employment</td> <td>83</td> </tr> <tr> <td>Proposed Number of Person Likely to get indirect Employment</td> <td>20</td> </tr> <tr> <td>Proposed Project Affected Families Skilled and Absorbed</td> <td>47</td> </tr> <tr> <td>Proposed Number of Project Affected Families (PAF)</td> <td>51</td> </tr> </tbody> </table>	Particulates	Number	Proposed Number of Project Affected Person (PAP)	186	Proposed Number of Person for Alternate Arrangement for Sustainable Livelihood	10	Proposed Number of Person for Skill Training	103	Proposed Number of Person Likely to Get Direct Employment	83	Proposed Number of Person Likely to get indirect Employment	20	Proposed Project Affected Families Skilled and Absorbed	47	Proposed Number of Project Affected Families (PAF)	51
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		<ul style="list-style-type: none"> A detailed study, including the Resettlement and Rehabilitation (R&R) Plan adhering to regulatory standards, will be submitted along with the final EIA/EMP report.
4.	PP shall submit detail waste management plan.	<p>In the initial five-year plan period approximately 38,59,394 m³.i.e (94,10,794.80 Tonnes) of waste will be generated. Details is as given below:-</p> <p>Map showing location of waste dump within the mining lease is enclosed as Annexure III.</p>

Mineral Waste									
S. No.	Year	Dump ID	Type of Dump	Proposed Area (Ha.)	Height (m)	Location		Total Dump Quantity(M ³)	Location
						Latitude (N)	Longitude (E)		
1.	Year 1	MW-1	Waste	5.0	4.50	25°13'16.74"	78°38'11.27"	2,17,700	SE
2.	Year 2	SD-1*	Waste	0.8	11.70	25°13'21.69"	78°38'18.64"	93,730	SE
3.	Year 2	MW-1	Waste	5.0	17.60	25°13'16.74"	78°38'11.27"	8,82,400	SE
4.	Year 3	MW-1	Waste	5.0	16.40	25°13'16.74"	78°38'11.27"	8,22,150	SE
5.	Year 4	SD-2	Waste	1.0	12.23	25°13'13.73"	78°37'44.55"	1,22,352	South Central Part
6.	Year 4	MW-2	Waste	4.5	21.90	25°13'16.66"	78°37'47.66"	9,84,644	South Central Part
7.	Year 5	MW-2	Waste	4.5	16.36	25°13'16.66"	78°37'47.66"	7,36,418	South Central Part
Total								38,59,429	
During the conceptual phase, approx. 2,31,47,062tonnes of waste will be generated which will be dumped in an area of 33.39 Ha. The generated waste will be used for backfilling.									

5.	PP shall install permanent water sprinklers instead of water tanker.	Instead of permanent water sprinkler system, we have proposed to install 5 nos. of fog canon/mist sprayer (portable) with a 30 m throw within the mining lease area for effective dust suppression. Additionally, water tankers will be used at various locations in the mine area for dust suppression and plantation.
6.	PP shall submit break up of project cost.	The project cost is ₹ 170.0 Crores. The bifurcation of the project cost is as below: -

S. No.	Particulars	Amount (In Crores)
1.	Land cost including R & R cost, stamp duty, registration charges etc.	32.5
2.	Construction & Equipment/ Machineries like HEMM	25.00
3.	Machineries including crusher along with EMP cost	50.00
4.	Admin Building & Others	0.5
5.	Capital expenditure such as pre – production exploration, axillaries, Statutory clearances and Mine Execution	57.00
6.	Mine Closure Cost	5.0
	Total Amount (₹)	170.00

xiv. Details of project cost and employment:

Particulars	(₹ In Crore)
Project Cost	₹ 170 Crore
Employment (No's)	103

3. Observations and Recommendations of the Committee:

The Project Proponent/Consultant presented the reply to the ADS sought vide minutes of the 29th EAC meeting held during 9-10 May 2024. The project proponent stated that the instant mining lease area is not a part of Ken-Betwa Project. PP also submitted a letter dated 16.07.2024 from the Office of the Executive Engineer Water Resources Division, Niwari wherein it has been mentioned that as per the proposed location, no mining area falls within the command area of the Ken-Betwa Link Project in the current scenario.

The EAC noted the submission of the PP and further asked about the possibility of installing the OLBC up to Orchha Railway Station. PP submitted that the transportation route of 23.70 km to the said railway siding is not a straight path and includes many turns,

undulations and culverts as a result of which implementing the OLBC is not feasible. The EAC asked PP whether they have conducted any study to arrive at this conclusion. PP stated that they have not conducted any study. The EAC told the consultant to not submit any details without undertaking any systematic and scientific study. The Committee thereafter enquired about the socio-economic study of the inhabitants present within the lease area. The PP and the consultant failed to answer the query of the EAC. In addition to above, EAC also enquired about the proposed dumps and the waste management plan. PP/Consultant again failed in answering the queries of the committee. The EAC opined that PP/Consultant should be prepared to answer the queries of the committee and should not come to the meeting unprepared.

Based on above discussion the EAC **deferred** the proposal for the want of following information: -.

- i. The PP needs to conduct a scientific study to explore the feasibility of installing OLBC from the mine lease area to the Orchha Railway station.
- ii. PP needs to submit the detailed conceptual plan indicating the proposed dump. Year wise dumping plan should also be submitted for plan period.
- iii. PP needs to submit a report regarding detailed socio-economic status of the inhabitants present within the lease area.
- iv. PP needs to explain the life of mine as 6 years when LOI is for 50 years' validity and mineable reserve is 28.55 MTPA
- v. PP should once again revise/relook bench width in terms of DGMS guidelines/Mines safety rules/regulations.
- vi. PP should clarify about Mine plan validity and correct it, if needed, in the form.
- vii. PP should explore to reduce dependency on groundwater. Construction of a water reservoir in the lease area can be explored.
- viii. The Project Proponent shall provide the details of Special Pollution Control/ Abatement devices that have been installed/ proposed to be installed within the ML area and how does the technology compare with the best available technology in the field.

SITE VISIT REPORT BY THE SUB-COMMITTEE CONSTITUTED BY MINISTRY VIDE LETTER DATED 10TH JUNE 2024

Subject: Surve Larung Lumshnong Limestone Deposit with total excavation capacity of 1366475.2 TPA (654577 TPA of limestone and 711898.2 TPA of waste including topsoil) in ML area of 44.58 Ha by M/s. Green Valliey Industries Limited located at Village Lumshnong, Tehsil Khliehriat, District East Jaintia Hills, State Meghalaya [Online Proposal No. IA/ML/MIN/457835/2024, File No. IA-J-11015/25/2024-IA-II(NCM), EIA Consultant - Perfact Enviro Solutions Pvt. Ltd.] – For Terms of Reference reg.

The instant proposal is for Terms of Reference (ToR) for Surve Larung Lumshnong Limestone Deposit with total excavation capacity of 1366475.2 TPA (654577 TPA of Limestone and 711898.2 TPA of Waste including Topsoil) in ML area of 44.58 Ha by M/s. Green Valliey Industries Limited located at Village Lumshnong, District East Jaintia Hills, Meghalaya.

The instant project was considered in the 29th EAC-NCM meeting held during 9-10 May 2024. During the meeting EAC noted the instant project attracts General Condition due to the presence of Eco-Sensitive Zone of Narpuh Wildlife Sanctuary which is located at a distance of 3.47 km from the project site.

The EAC observed that the mine lease area falls near to Wildlife Sanctuary and located in the vicinity of Seismic Zone-V which requires special attention in order to protect local species, habitats during the mining. The EAC noted that the data collected during the month of December 2023 to February, 2024 needs to be relooked by the PP, the EAC was of the opinion that the baseline data collected during the aforesaid period doesn't take into account the hibernation period of the wildlife species prevalent in the mine lease area and its surroundings. The EAC opined that a comprehensive baseline data (at least 15 days) including the impact of mining caused on the local habitat and species should be collected by the PP.

Thereafter, the EAC enquired about the sourcing of water, PP replied that they will be sourcing their fresh water requirement of about 40 KLD for the instant mine from their cement plant which is located at distance of 13.33 km approx. PP informed that a water spring is located adjacent to their cement plant and they have obtained the NoC from the Gram Panchayat to source water from there for use in their proposed mine. EAC opined that presence of spring water establishes the fact that ground water table is not located at much depth. EAC stated that these activities will require movement of large number of water tankers to and fro from the mine lease area causing the rise in emission and traffic. The EAC enquired the ground water level of the mine lease area, PP informed that ground water is located at 447.643 mRL and the water table will not be intersected during the entire period of mining. The EAC advised the PP to provide the ground water level data for pre monsoon and post monsoon period. EAC also asked the PP to submit the impact of mining on the rivers near the mining lease area i.e . Lubha and Luka river.

From the KML presented during the meeting, EAC observed that the lease area is not far away from the ESZ of Narpuh Wildlife Sanctuary and has pristine green belt coverage. Accordingly, the EAC asked the PP about the movement of wildlife within the lease area and its surroundings. PP informed that the lease area is not a part of any wildlife corridor. However, EAC was of the opinion that there must be some movement of wildlife owing to its location and pristine nature. EAC advised the PP to conduct a study with regard to the movement of wildlife within and surrounding of mine lease area.

While discussing the transportation route from the mine lease area to the national highway 6, PP informed that they will construct a haul road of 2.3 km length to connect the mine lease area with the national highway. EAC was of the opinion that PP may explore the feasibility of laying a over belt conveyer upto the highway instead of cutting trees and making a haul road to ensure barrier free movement of wildlife. PP informed that they will explore the feasibility of the same.

The EAC further noted that PP has not proposed the use of crusher within the mine lease area. PP informed that they will be directly transporting the mined out mineral to their cement plant where they have already established a crusher. EAC was of the opinion that the PP should include the provision of installing one mobile crusher within the lease area, so that the mined ore is crushed before transportation through OLBC to the nearest highway (NH 6).

During the discussions, EAC pointed out that waste generation is more than the actual Mineral being generated and accordingly asked the PP to compute the cost-benefit analysis keeping in mind the waste generation from the mining.

In view of the above discussions, the EAC concluded that the mine lease area is located in the vicinity of the ecologically sensitive and fragile area. Thus, the EAC opined that it is necessary to ascertain the ground reality on the proposed methodology of mining, habitation, afforestation, transportation, situation of ground water and existing spring water and nearby river. The EAC was of the view that a site visit needs to be conducted by a sub committee comprising of EAC Members and officers from MoEF&CC. The EAC advised the Ministry to constitute a sub-committee for site visit. Accordingly, Ministry vide letter dated 10th June 2024 constituted a sub-committee comprising of the following members to ascertain the ground realities of the project.

1. Shri Avijit Ghosh, EAC Member
2. Prof. Devesh Walia, EAC Member
3. Shri Pankaj Verma, Scientist E and MS EAC (NCM), MoEF&CC
4. Shri Vidyasagar Jha, Research Officer, MoEF&CC
5. Dr. Hero Tysong, Scientist E, RO Shillong, MoEF&CC

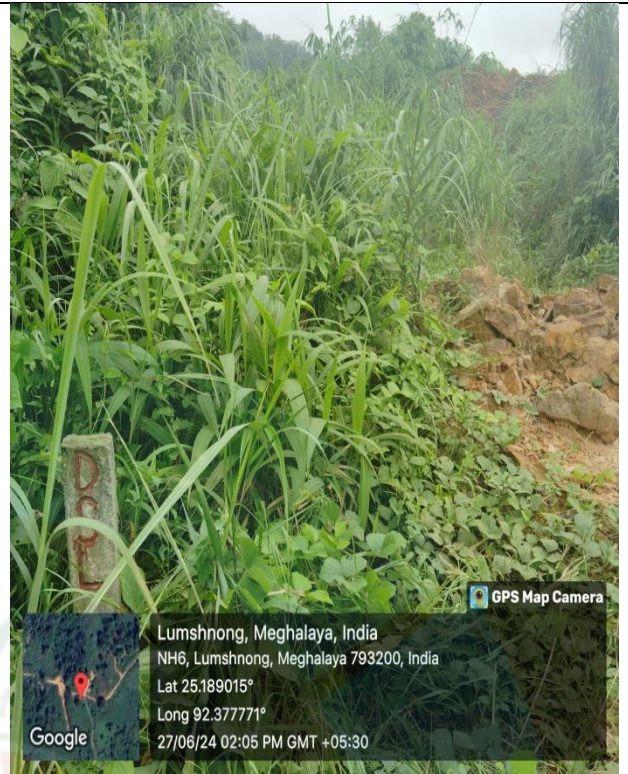
The aforesaid committee undertook the visit on 26-29 June 2024 and observed the following: -

1. The sub-committee observed that mine lease area is located in Lumshnong Village, Khliehriat Tehsil, East Jaintia Hills District of Himalaya. The lease area is approachable through a NH-6 and temporary road created by the PP. The approximate distance from highway was around 2.30 km. The committee noted considerable traffic on NH-6 exceeded its carrying capacity as it is being used by countless interstate goods trucks, buses, and individual vehicles, as well as thousands of trucks belonging to various cement plants and limestone mines operating in the area. Significant road damage and dust pollution on the aforementioned NH has been observed.
2. As per documents provided by PP, the lease area is located at a distance of 13.13 km from India- Bangladesh Boundary. The document also mentioned that the ESZ of Narpuh Wildlife Sanctuary is located at a distance of 3.47 km in the SE direction from the mine lease. Lukha and Lubha river is located at a distance of 4.49 km and 4.52 km in SE and SSE direction.
3. The entire lease area had a hilly terrain with a maximum elevation of 584 mrl and minimum elevation of 476 mrl as reported by the Project Proponent.
4. PP reported that the entire lease area of 44.58 ha is forest land; sub-committee observed that entire lease area was planted with broom grass (Scientific name is *Thysanolaena maxima*) and had numerous trees. PP submitted that there are more than 350 trees within the lease area.
5. The sub-committee observed that the PP has erected boundary pillars alongside the ML boundary. The committee visited a couple of boundary pillars and matched its location with the hand held GPS Device.
6. The sub-committee also went through the mining plan during the site visit to know the proposed sequence of mining, total excavation, depth of mining, availability of mineral (limestone), waste/overburden generation and its handling, stock storage and its proposed transportation at ground level.
7. The committee observed many natural depressions transformed into nallah carrying the rainwater to Lubha River. PP informed that the area receives considerable amount of rainfall throughout the year.
8. The sub-committee visited the proposed pit area and observed dense vegetation, and broom grass plantation. The committee did not observe any habitation within the proposed pit area.
9. Due to the difficult terrain having no pathway, the sub-committee could not visit the proposed dump site, however, it noted the presence of lush green vegetation and large number of trees in the proposed location from the proposed pit area. PP informed that the Lubha river was far away from the proposed dump site and there are no pathway from the mine lease area to reach the riverside.
10. The PP also informed that the mined out limestone shall be supplied to the cement plant which is located at a distance of 13.33 km. PP reiterated that they will be sourcing their fresh water requirement of about 40 KLD for the instant mine from

the water spring is located adjacent to their cement plant and they have obtained the NoC from the Gram Panchayat.

Based on the aforesaid observation, the sub-committee recommended the following: -

1. The PP needs to submit the action plan for ensuring that leacheates from the proposed dump site doesn't reaches the lukha and Lubha River or any other natural nallahs existing outside or within the lease area.
2. PP needs to submit the dump management plan.
3. PP needs to submit the design of the garland drain along with the design of the proposed settling tank. PP needs to construct series of settling ponds to restrict silt.
4. Since PP will be handling large scale of waste, PP needs to submit the action plan for the development of dump as per the proposed yearly production.
5. PP needs to clearly state the design of haul roads leading from NH-06 to proposed pit and back and from proposed pit to proposed dump and top soil stack.
6. PP needs to submit the sequential backfilling plan.
7. The Project Proponent needs to submit the map showing the transport route of the mineral from the mine lease area to the destination, impact of details of habitation at a distance of 100m from the centre on both sides of road, details of no. of trips/day to and fro, capacity of the dumper/tipper to be deployed and the dimensions of the road and the carrying capacity of the road.
8. PP needs to explore the possibility of incorporating mobile crusher within the mine lease area.
9. PP needs to explore possibility of deploying surface miners to eliminate drilling blasting.
10. PP needs to deploy electric vehicles for mining and transportation purposes.
11. PP needs to explore alternate source of water since the spring located adjacent to the cement plant is 13.33 km away. The sub-committee was of the opinion that it would create extra traffic and emission on the road which could be avoided. Since the lease area receives sufficient rainfall PP could come up with a plan to use the same and submit an action plan.
12. PP needs to undertake the study for fauna/Schedule-I species within the mine lease area and its close vicinity.
13. PP needs to engage any national institute of repute to undertake slope stability survey.
14. PP needs to submit the action plan for skill development of workers.
15. PP needs to submit NOC from Ministry of Defence.



Sub-committee members at boundary Pillars of the mine lease area



Subcommittee members examining the conceptual plan of mining at the proposed pit site

Visible broom grass in the background



Sub-committee members at the mine site



Dense vegetation and trees within proposed pit.



Sub-committee members planting sapling under Ek Ped Maa K Naam Initiative at the Cement Plant of the Project Proponent.



List of members of 33rd Expert Appraisal Committee participated through VC

S.No.	Member Name	Member Address	Designation	09 th September 2024	10 th September 2024
1	Dr. Dinesh Misra, IFS (Retd.)	Plot No 65, Sector 8, Gandhinagar, Gujarat, 382 008	Chairman	Yes	Yes
2	Sh. Niranjana Kumar Vasu, IFS (Retd.)	816, Shanti Nagar, Opposite Durgapur Railway Station, Jaipur-Rajasthan, 302018	Member	Yes	Yes
3	Dr. Asha Rajvanshi, Scientist 'G' (Retd.), WII	B/104/106 Rock Valley Apartments, GMS Road, Sewla Kalan, P.O. Majra, Dehradun, Uttarakhand-248171	Member	Yes	Yes
4	Shri. Avijit Ghosh (CMD- Heavy Engineering Corporation Limited) (Retd.)	Singhee Marg, A- 604 Shahadeo Tower, P.P.Compound, Ranchi 834001, Jharkhand	Member	Yes	Yes
5	Shri. Bandi Ramchandra Reddy (Former CMD-South Eastern Coalfields Limited)-(Retd.)	Flat No-503 A, Jyoti Cosmos, White Fields, Hi-Tech City, Kondapur, Hyderabad-500081	Member	Yes	Yes
6	Prof. Pramod Kumar, Professor, Shri Aurobindo College, University of Delhi	Shri Aurobindo College, University of Delhi 1372, B-1, Vasant Kunj, New Delhi-110070	Member	Yes	Yes
7	Prof. Devesh Walia, Department of Environmental Studies	Department of Environmental Studies, NEHU, Shillong-793022 Meghalaya	Member	No	No
8	Dr. Suresh Tiwari, Scientist-F	Indian Institute of Tropical Meteorology, Pune, New Delhi Branch, Prof. Ram Nath Viji Marg Rajinder Nagar, New Delhi - 110060	Member	Yes	Yes
9	Dr. K.G Asha Manjari, Professor, University of Mysore	10/B, "SPARSHA", 2nd Main, 2 nd Cross, Bhogadi Ind Stage, Mysore-570026, Karnataka	Member	Yes	Yes
10	Prof. Dev Dutt Sharma, Vice-Chancellor	Sardar Patel University, Mandi H.P. 175001	Member	No	No
11	Shri V. K. Soni, Representative of India Meteorological Department	Government of India, Ministry of Earth Sciences, India Meteorological Department, Mausam Bhawan, Lodi Road, New Delhi – 110003	Member	No	No
12	Shri Yogesh Kale (Representative of Indian Bureau of	Controller of Mines, IBM Block D, Second Floor, Indira Bhavan, Civil Lines, Nagpur -	Member	Yes	Yes

	Mines)	440001			
14	Shri Saifullah Ansari (Representative of Directorate General of Mines Safety)	Representative of Directorate General of Mines Safety	Member	Yes	Yes
21	Shri Rajeev Ranjan	2 nd Floor, Vayu Block, Indira Paryawaran Bhawan, MoEF&CC, Jorbagh, New Delhi- 110003.	Member Secretary	Yes	Yes

