

**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 Expert Appraisal Committee for Environmental Appraisal of Mining Projects (Non-Coal) of the Ministry of Environment, Forest and Climate Change was held during 13th July to 16th July 2021 through video conference. The list of participants is annexed herewith. After login of the Committee Members through video conference link provided by NIC, discussion on each of the Agenda Items was taken up ad-seriatim.

(1.0.0) Deliberation & Circulation on the Minutes of the 32nd EAC Meeting held during 28th June - 1st July, 2021.

The minutes of 32nd EAC Meeting held during 28th June to 1st July, 2021 were placed before the members of the Committee. The Member Secretary informed the Committee that the following corrigendum was made in 32nd EAC Meeting held during 28th June to 1st July, 2021 as given below:

S. No.	As per EAC meeting minutes dated 28th June to 1st July 2021	Typographical Error	EAC recommended
1	Agenda 3.1, Pg No 53, Point 2	M/s Tata Steel Limited has made an online application vide proposal no: IA/OR/MIN/210667/2019 dated 04.06.2021 and submitted the Form-2 and EIA report under the provisions of the EIA Notification, 2006 for the project mentioned above. The proposed project	M/s Tata Steel Limited has made an online application vide proposal no: IA/OR/MIN/210667/2019 dated 04.06.2021 and submitted the Form-2 and EIA report under the provisions of the EIA Notification, 2006 for the project mentioned above. The proposed project activity

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		activity is listed at schedule no. 1(a) Mining of Minerals and 2(b) Mineral Beneficiation under Category "A" of the schedule of the EIA Notification, 2006 as the mining lease area is greater than 100 ha and appraised at Central level. The proposal also attracts the general conditions as the mining lease area is located adjacent to Interstate boundary of Jharkhand-Odisha.	is listed at schedule no. 1(a) Mining of Minerals and 2(b) Mineral Beneficiation under Category "A" of the schedule of the EIA Notification, 2006 as the mining lease area is greater than 100 ha and appraised at Central level. The proposal also attracts the general conditions as the mining lease area is located adjacent to Interstate boundary of Jharkhand-Odisha. PP vide email dated 19.01.2021 informed the NIC that the minor activity 2(b) Mineral Beneficiation is not reflecting in the Form2. PP informed the same to the Ministry vide letter dated MD/ENV/51/110/2021 dated 14.05.2021.
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(1.0.1) Deliberation & Circulation on the Minutes of the 24th EAC Meeting held during 9th -10th December, 2020.

The minutes of 24th EAC Meeting held during 9th -10th December, 2020 were placed before the members of the Committee. The Member Secretary informed the Committee that the following corrigendum was made in 24th EAC Meeting held during 9th -10th December, 2020 as given below:

S. No.	As per EAC meeting minutes dated 9 th - 10 th December, 2020	Typographical Error	To be read as
1	Agenda 1.2, Pg No 2, Line 2	Proposal for obtaining environmental clearance for Kolimigundla Limestone Mine (ML Area: 250.0 Ha) of M/s	Proposal for obtaining environmental clearance for Kolimigundla Limestone Mine (ML Area: 255.0 Ha) of M/s The Ramco

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		The Ramco Cements Limited for Limestone production of 0.6 MTPA located at Kolimigundla. Itikyala&Kalvatala villages, Kolimigundla Mandal, Kurnool Dist. Andhra Pradesh [Proposal no: IA/AP/MIN/69982/2017]	Cements Limited for Limestone production of 0.6 MTPA located at Kolimigundla. Itikyala&Kalvatala villages, Kolimigundla Mandal, Kurnool Dist. Andhra Pradesh [Proposal no: IA/AP/MIN/69982/2017]
2	Agenda 1.2, Pg No 20, Point No 21, Line 3	Based on the discussion held and information submitted by the PP and the Consultant during the 24th EAC meeting held during 09-11 December, 2020, the Committee recommended the proposal for grant of environmental clearance for Kolimigundla Limestone Mine (ML Area: 250.0 Ha) of M/s The Ramco Cements Limited for Limestone production of 0.6 MTPA located at Kolimigundla Itikyala&Kalvatala villages, Kolimigundla Mandal, Kurnool Dist. Andhra Pradesh subject to the following specific conditions in addition to the standard EC conditions applicable for non-coal mining projects:	Based on the discussion held and information submitted by the PP and the Consultant during the 24th EAC meeting held during 09-11 December, 2020, the Committee recommended the proposal for grant of environmental clearance for Kolimigundla Limestone Mine (ML Area: 255.0 Ha) of M/s The Ramco Cements Limited for Limestone production of 0.6 MTPA located at Kolimigundla Itikyala&Kalvatala villages, Kolimigundla Mandal, Kurnool Dist. Andhra Pradesh subject to the following specific conditions in addition to the standard EC conditions applicable for non-coal mining projects:

DAY 1 - 13.07.2021 (Tuesday)

1.1 Proposal for Environmental Clearance of Kallankurichi Limestone Mines (G.O. No. 456; MLA: 194.16.5 Ha) for expansion in production capacity from 0.28 Million TPA to 1.34 Million TPA located at Villages- Periyagalur, Kallankurichi, Ameenabad&Khairulabad, Tehsil-Ariyalur, District Ariyalur, State-Tamil Nadu by M/s TamilNadu Cements Corporation Limited – [Proposal no: IA/TN/MIN/211156/2017; File No. 23-18/2019-IA.III (V); Consultant: Mantec Consultants Private Limited] - EC

1. EAC Meeting Details:

EAC meeting	33 rd EAC meeting
Date of Meeting	13 th -16 th July, 2021

2. Project details:

Name of the Proposal	Capacity Expansion from 0.28 million TPA to 1.34 million TPA of GO No.456, Kallankurichi Limestone Mine	
Location	Village	Periyagalur, Kallankurichi, Ameenabad&Kairulabad,
	Tehsil/Taluka	Ariyalur
	District	Ariyalur
	State / UT	Tamil Nadu
	Latitudes	11° 09' 12.34" E to 11° 09' 12.37" E
	Longitudes	79° 06' 49.24" N to 79° 06' 49.32" N
	SoI Topo sheet No.	58M/4
Company's Name	M/s Tamil Nadu cements Corporation Limited	
Accredited Consultant and certificate no.	Mantec Consultants Private Limited NABET/EIA/2023/RA 0205 Valid up to 20-04-2023	
KML file	Submitted	
Seismic zone	II	

3. Category details:

Category of the project	'A'
Provisions	1(a) Non-Coal Mining (Violation Committee)
Mining lease Area (MLA)	194.16.5 ha

4. ToR/EC Details:

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ToR Proposal No.	IA/TN/MIN/65544/2017
Online application date for Form-I	19.06.2017
EAC meeting date	<ul style="list-style-type: none"> The Proposal was considered in 17th EAC meeting on 29-31st January 2019 The Proposal was reconsidered in the EAC meeting held on 30th September-1st October 2019 wherein the committee recommended the proposal for grant of ToR
ToR Letter No.	23-18/2019-IA-III (V)
ToR grant Date	16.12.2019
Production capacity	1.34 million TPA
Soil	0.055 million TPA
Waste	No waste is generated other than top soil
Others	None
Total Excavation	9135107.05 MT
Crusher	Available outside the lease area.
EIA/EMP uploaded on	05/05/2021

5. Observation of the Committee: The Committee observed that the proposal was first considered in EAC meeting held during May 28th -30th, 2014 wherein the Committee noted that this is a violation case as mine was operated without obtaining prior environmental clearance after lease fell, due for renewal in 2005 and also enhanced the production of limestone. Ministry issued closure directions vide letter no.J-11015/137/2014_IA.II (M) dated 14th July, 2014 under section 5 of E (P) Act, 1986 but PP still operated the mine till 18.08.2017 which is for around further 3 years despite of closure directions. The Committee was also not satisfied with the plantation shown by PP via KML. PP also mentioned wrong mining parameters in the submitted documents. The Committee also observed that the damage assessment report has been prepared by taking 2006 as base year whereas violation has been done since 1993-94.

6. Recommendation of the Committee: After detailed deliberations made by the Project Proponent and the Consultant, the Committee during its meeting during 13th to 16th July, 2021 **deferred** the proposal for want of following information:

- 1) The project proponent needs to submit the justification/clarification for operation of mine after the Ministry issued closure directions vide letter no.J-11015/137/2014_IA.II (M) dated 14th July, 2014 under section 5 of E (P) Act, 1986.
- 2) The project proponent needs to submit the revised damage assessment report including the revised cost of damage as per the discussion during the meeting. PP also needs to submit the revised EMP cost.

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- 3) The project proponent needs to submit the block-wise excavation program as approved in mining plan.
- 4) Block-2 is totally mined out and no remediation has been noted. The project proponent needs to submit the measures taken for the remediation of mined out Block 2.
- 5) The project proponent must take up the peripheral plantation with 3 m sapling all around the four blocks and in the non-mineralized zone including the gap plantation.
- 6) The project proponent needs to submit the proper table indicating the capital investment to address the concerns expressed by the people in the Public Hearing and accordingly the action plan to be taken in 3 years.
- 7) The project proponent needs to submit the revised total project cost, taking land cost into account and accordingly 2% of the total project cost should be Public Hearing cost.
- 8) The project proponent needs to submit the revised cost for biodiversity conservation mentioned in Wildlife Conservation Plan.
- 9) The project proponent needs to submit the mining plan approved by IBM.

1.2 Proposal for Environmental Clearance of Devadari Iron Ore mine with a mine capacity of 2 MTPA Iron Ore (ROM) and 500 TPA Manganese Ore with 2 MTPA wet Beneficiation plant located at notified and reserved mining lease area of 401.5761 ha (388.0 ha for Mining & 13.5761 ha for conveyor, approach road, etc.) falling under Swamimalai Block Forest, Kumaraswami Reserve Forest Range, Sandur Taluk, Bellary district, Karnataka by M/s KIOCL Limited – [Proposal no: IA/KA/MIN/72345/2018; File No. J-11015/28/2018-IA-II (M); Consultant: Ecomen Laboratories Pvt. Ltd.] - EC

1. EAC Meeting Details:

EAC meeting	33 rd EAC Meeting
Date of Meeting	13 th – 16 th July, 2021

2. Project details:

Name of the Proposal	Proposal for EC of Devadari Iron Ore mine with a mine capacity of 2 MTPA iron ore (ROM) and 500 TPA manganese ore with 2 MTPA Wet Beneficiation plant.
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Location	Village	Nandhihalli, Ranjitpura	Narsarapura,
	Tehsil/Taluka	Sandur	
	District	Ballari	
	State / UT	Karnataka	
	Latitudes	15 ⁰ 1'18.18627" & 15 ⁰ 3'43.60179"N	
	Longitudes	76 ⁰ 34'35.0174" & 76 ⁰ 36'12.77452"E	
	SolTopo sheet No.	57 A/12 (D43E12)	
Company's Name	KIOCL Limited		
Accredited Consultant and certificate no.	Ecomen Laboratories Pvt. Ltd. QCI/NABET Certificate No. NABET/EIA/2023/RA 0203, valid up to September 21, 2023.		
KML file	Submitted		
Seismic zone	II		

3. Category details:

Category of the project	A
Provisions	1(a)(i) and 2b
Mining lease Area (MLA)	470.4 ha
Additional information	<p>Govt. of Karnataka (GoK) vide gazette notification dated 23.01.2017 notified an area 470.40 ha forest land in Devadari range, Sandur Taluka, Ballari District, Karnataka for Iron ore & Manganese ore mining in favour of KIOCL Limited under section 17A(2) of MMRD Act 1957. Subsequently KIOCL has submitted application for EC & FC clearance for an extent of 470.40ha ML area + 15.3725 ha for conveyor Corridor, approach road, Power transmission line/water line) for total area of 485.7725 ha. During the process of Forest clearance Addl. Chief Secretary, (Forest, Environment, Ecology) GoK has recommended the FC proposal for an extent of 401.5761 ha (388.0 ha for Mining & 13.5761 ha for conveyor, approach road, etc) in-principle stage-I approval to MoEF&CC, Gol.</p> <p>MoEF&CC, Gol vide letter dated 24.06.2021 accorded In-Principle stage -I FC approval for the same extent of 401.5761 ha i.e., 388.00 ha for Mining lease & 13.5761 ha for conveyor, approach road, power transmission line/water line of total 401.5761 ha.</p> <p>Hence Mining Lease area will now be reduced from 470.4 ha to 388 ha and the area outside the ML will reduce from 15.3725 ha to 13.5761 ha making the</p>

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	total area reduced from 485.7725 ha to 401.5761 ha.
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4. ToR/EC Details:

ToR Proposal No.	IA/KA/MIN/72345/2018
Online application date for Form-I	22/03/2018
Documents Submitted	Brief summary, GPS file , Survey of India Toposheet, Proposed TOR,PFR, Approval letter of mining plan, Acknowledgement that proposal is seeking prior approval of Central Government under the Forest (Conservation) Act 1980 has been successfully uploaded on the portal of the Ministry of Environment, Forests and Climate Change, Government of India, Proof of reservation of 470.4 ha area, Mining lease gazette notification
EAC meeting date	24/04/2018
ToR Letter No.	J-11015/28/2018-IA.II (M)
ToR grant Date	16/05/2018
Production capacity	2 MTPA Iron Ore (ROM) & 500 TPA Manganese & Wet Beneficiation Plant including crushing, Screening, conveying for a capacity of 2 MTPA
Soil	1,16,102 cu.m. of top soil
Waste	waste during proposed plan period-6.351664 M.cu.m for iron ore,0.00085 M.cu.m for Manganese ore
Total Excavation	The total excavation (highest) for Iron ore shall be 7.87 MillionTPA& Manganese ore 0.0022 Million TPA.
Crusher	3 proposed crushers: Primary Jaw Crusher 350 TPH, Secondary Cone Crushers 250 TPH, Tertiary &Quarternary Cone Crushers 250 TPH
EIA/EMP uploaded on	12/09/2019

5. Lease Details:

Prospecting operation, Commence date	Geological Survey of India prospected the area during the year 2005 to 2008.
Application for the Mining lease area and Date	KIOCL has submitted application on 25.07.2015 to GoK for reservation of mining area in Devadari range under the provision of section 17 A (2A) of MMDR Act, 1957
Validity of mine lease	50 years from the date of ML deed

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	registration.	
Letter of Intent	Letter No.	Letter No. DMG/MLS/Res. KIOCL/2016-17/10301
	Date	13.02.2017
Additional information	Department of Mines & Geology vide letter No. DMG/MLS/Res. KIOCL/2016-17/10301 dated 13.02.2017 issued Letter of Intent to obtain Environmental Clearance under EIA Notification 2006 for execution of mine lease deed.	

6. Mining plan details:

Mining Plan (approved by Indian Bureau of Mines/DMG)	Letter No.	279/1096/2018/BNG/505	
	Date	08.03.2018	
	Validity	5 year plan period	
Mining Parameters	Quantitative Description		
Bench Height	6 m		
Bench Width	11 m		
Method of Mining	Opencast mining with conventional shovel dumper combination		
Individual bench slope	Bank slope angle 75 ⁰		
Overall pit slope	less than 36 ⁰		
Drilling/Blasting	Controlled blasting in the pits to keep the ground vibration level within permissible limit. Rock breaker will be used so that no secondary blasting is required.		
RoM output size	2 MTPA of Iron Ore (ROM) and 500 TPA of Manganese Ore. The total excavation (highest) shall be 7.87 million TPA.		
	Lump Ore	Fines Ore	Iron ore concentrate
	+10 - 40 mm (Over & under size : Max. 5% Each)	Size: - 10mm (with oversize 5% maximum and undersize 20% maximum)	(-)325 mesh
Life of mine	Considering the present mineable reserve, the life of mine is calculated 7 years. However, after the detailed exploration of entire mining lease area, the expected mineral reserve is likely to substantiate a mine life of around 20 years.		
Transportation details	The Iron ore produced in the mine will be transported through Downhill Conveyor to the nearest railway siding at		

	Ranjithpura Railway Station/BMM Railway Siding which is about 4 kms away from the proposed mine site. The railway siding facilities, which already exists at Ranjithpura/BMM Railway Siding will be utilized for transportation of iron ore to KIOCL plants at Mangalore. Manganese Ore produced from mine will be transported through trucks to Railway siding about 4 km from mine site
Dumpers capacity	35 Tonnes
Additional information	The ore and over burden will be excavated and transported by conventional shovel – dumper combination after loosening the hard rock mass by blasting. Excavators of 3.5 - 4.5 m ³ capacity will be utilized for excavation and loading and 35 tonne capacity dumpers will be used for the transportation of the ore and overburden. The blasted ore will be loaded by the excavator and transported by dumper to a ROM stock pile close to the proposed crushing plant.

7. Land Area Breakup:

Private land	NIL
Government land	Forest land
Total Mining lease area (MLA)	<ul style="list-style-type: none"> Govt. of Karnataka (GoK) vide gazette notification dated 23.01.2017 notified an area 470.40ha forest land in Devadari range, SandurTq, Ballari Dt., Karnataka for Iron ore & manganese ore mining in favour of KIOCL Limited under section 17A(2) of MMRD Act 1957. MoEF&CC, GoI vide letter dated 24.06.2021 accorded In-Principle stage-I FC approval for the extent of 401.5761 ha i.e., 388.00 ha for Mining lease & 13.5761 ha for conveyor, approach road, power transmission line/water line of total 401.5761 ha. Hence Mining Lease area will now be reduced from 470.4 ha to 388 ha and the area outside the ML will reduce from 15.3725 ha to 13.5761 ha making the total area reduced from 485.7725 ha to 401.5761 ha.
Private land for crusher, workshop & other infrastructure outside the MLA	NA

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

Particulars	Particular's Name	Distance & Directions
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Village	Nandhihalli	1.6 km, W
Village	Narsarapura	1.1 km, E
Village	Ranjitpura	1.5 km, E
TOWN	Sandur	4.6 km, NW
Road	MDR-131	6.2 km, E
Road	MDR-40	5.4 km, NW
Road	MDR-49	5.2 km, N
Railway station	Toranagallu	28 km, N
Railway station	Ranithpura	1.5 km, E
Water body	Narihalla	4.2 km, NW
Water body	Narihalla dam and reservoir	4.9 km, N

9. Water requirement

Total water requirement	2953.21 m ³ /hr	Fresh water	143.48 m ³ /hr
		Treated water	2809.73 m ³ /hr
Source	Tungabhadra Dam		
Permission	In progress		
Additional information	<p>The approval of withdrawal of water from State Govt. is in advance stage.</p> <p>Chief engineer, KNNL, TB dam, Munirabad, has recommended the proposal of drawl of 4 MLD of water from downstream of TB dam near Nimbhapura village, for Devadari mining project. Further, on 05.2.2021, Managing Director, KNNL, has also recommended the proposal to Govt of Karnataka. Due to COVID 19 Pandemic lockdown in the state of Karnataka, the approval process got delayed. Meeting of water allocation committee was held on 16.06.2021 and proposal for sanction of water was considered favourably by the committee.</p>		

10. Presence of Environmentally Sensitive areas in the study area

Forest Area/Environmental Zone	Land/Protected Land/Protected Sensitivity	Yes/No	Details of Certificate/letter/Remarks
Forest Land		Yes	Mining area falls under Kumaraswamy Reserved forest.
National park		NO	
Wildlife Sanctuary		NO	

Schedule-1 species	Yes/No	Details of Certificate/letter/Remarks		
		Sl. No.	Common Name / Local Name	Scientific Name
Schedule-I species	Yes			

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		1	Black buck	Antelope cervicapra
		2	Indian wolf	Canis lupus pallipes
		3	Panther	Pantheropardus
		4	Sloth bear	Melursusursinus
		5	Monitor lizard	Varanus spp.
		6	Python	Python molurus
		7	Common peafowl	Pavocristatus
Wildlife Conservation Plan	Yes	Conservation plan for all the seven Schedule-1 species have been prepared and submitted for the approval to the Chief Wild Life Warden under acknowledgement vide letter No. KIOCL/DPP/06 dated 11/08/2020.		

11. Green belt/plantation details:

Proposed area for green belt/plantation	447.78 ha as per Mine Plan (Due to reduction of ML area, the revised area for Green Belt /Plantation at the conceptual period will be 353.7099 ha).
Budget for green plant & plantation till the end of life of mine.	Capital cost: Rs 100 lac. Recurring cost Rs 10 lacs (during first 5 years)
Budget for nursery	25 lac proposed under CER

Particulars for Green belt/plantation	Area covered (in Ha)
7.5 m barrier & non-mineralized zone	Safety Zone 9.9571 ha. Green belt 31.8419 ha.
50 m safety zone of nallah, roads, electric lines	-
500 m safety zones of nearest habitation villages	-

12. Baseline detail

Baseline Data (Air / Water / Noise / Soil / Ground water table/ others)	
Period of baseline data collection	March to May 2018
Season (Summer / Pre-monsoon / Post-monsoon / Winter)	Pre-monsoon

13. Public Hearing (PH) Details

Advertisement for PH with date	'Indian Express', (English) and 'Vijay Karnataka' (Kannada) on 24-05-2019.
Date of PH	25-06-2019
Venue	Project Site of Devadari Iron Ore Mine, Swamimalai Block Forest, Sandur Taluk, Ballari District.
Chaired by	Additional Deputy Commissioner and Additional District Magistrate, Ballari District

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Main issues raised during PH	Employment, Education, Plantation, Infrastructure, Grazing land, Pollution especially Dust, Noise & Water.
Budget proposed for addressing issues raised during PH	Company has earmarked Rs 5 Crs under Environment Management plan and Rs 10.87 Crs for various activities under Corporate Environment Responsibility.
Additional information	CER will be implemented in 1 st Five-year plan period on execution of mining lease deed and commencement of mining activities.

14. Court case details:

Court Case	No
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15. Rehabilitation & Resettlement:

R & R details	Not Applicable
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16. Affidavit/Undertaking details:

Affidavit/Undertaking	Letter No. KIOCL/Mining/DIOM/1863, dated 10/09/2019 by GM(Mining, O&M Doni project), KIOCL Limited, Bangalore
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17. ADS details:

S.No.	ADS Point	Reply
1	Approval for the allocation of water from Tungabhadra Dam to use in Devadari iron Ore mine.	<p>The company has planned to source water from TungaBhadra dam or Narihalla reservoir. The requirement of water would be 2953.21 m3/hr. Recovery of water in the plant would be around 2809.73 m3/hr. Therefore, the makeup water requirement for the project is 143.48 m3/hr rounding to 150 m3/hr (3.6MLD).</p> <p>Accordingly, company has submitted application on 12.10.2018 to Principal Secretary, Water Resource Department, Govt. of Karnataka. As per the Govt. of Karnataka directions, Company has resubmitted application in prescribed format on 13.03.2020 for allocation of 4 MLD water from TB Dam or Narihalla reservoir. Water resource department, GoK vide letter dated 22.05.2020 directed Managing Director, <i>Karnataka Neeravari Nigam Limited (KNNL)</i> to verify the application and submit the detail report regarding the proposal. The application is under process with Water Resource Dept., GoK.</p>

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2	Submit the present status of the forest clearance for 470.40 ha mining lease area and outside the mine lease are of 15.3725 ha.	<p>Company has submitted FC application in Form "A" on 16.03.2018 through online portal of MoEF&CC, Gol. On 23.08.2018, Nodal officer, GoK accepted FC application. Company has submitted hard copy of FC application on 28.08.2018 to Deputy Conservator of Forest (DCF), Ballari.</p> <p>DCF, Ballari visited Devadari mine site on 25.09.2019 and submitted Part II report to CCF, Ballari Circle. Thereafter, CCF, Ballari Circle submitted Part III report to Nodal Officer, GoK. On 19.02.2020 PCCF, GoK forwarded FC proposal to Additional Chief Secretary (Forest), GoK along with Part IV report for submission to MoEF&CC, Gol for in-principle (Stage I) FC approval.</p> <p>Currently, the Forest Clearance application is being processed in the office of Additional Chief Secretary (Forest), GoK for State Govt recommendations for in-principle (Stage I) FC approval. The State Government was sought clarification from PCCF and same was forwarded to CCF, Ballari Circle for review and opinion.</p>															
3	PP need to bring out the total excavation quantity for mineral wise, waste generation, Top soil generation, OB/IB/SB generation and its quantity of reserves mineral wise etc.	<p>Reserves ,Excavation and Generation of waste during proposed plan period</p> <table border="1" data-bbox="699 1119 1422 1566"> <thead> <tr> <th>Description</th> <th>Iron ore</th> <th>Manganese ore</th> </tr> </thead> <tbody> <tr> <td>Probable reserves</td> <td>7.34 million tonnes</td> <td>1400 tonnes</td> </tr> <tr> <td>Total excavation(Waste+ore)</td> <td>7.87 Million TPA</td> <td>0.0022 Million TPA</td> </tr> <tr> <td>Waste generation (OB/SB/IB)</td> <td>6.351664 M.cu.m</td> <td>0.00085 M.cu.m</td> </tr> <tr> <td>Top soil generation</td> <td>0.116102 M.cu.m</td> <td>NIL</td> </tr> </tbody> </table>	Description	Iron ore	Manganese ore	Probable reserves	7.34 million tonnes	1400 tonnes	Total excavation(Waste+ore)	7.87 Million TPA	0.0022 Million TPA	Waste generation (OB/SB/IB)	6.351664 M.cu.m	0.00085 M.cu.m	Top soil generation	0.116102 M.cu.m	NIL
Description	Iron ore	Manganese ore															
Probable reserves	7.34 million tonnes	1400 tonnes															
Total excavation(Waste+ore)	7.87 Million TPA	0.0022 Million TPA															
Waste generation (OB/SB/IB)	6.351664 M.cu.m	0.00085 M.cu.m															
Top soil generation	0.116102 M.cu.m	NIL															
4	PP need to submit the Revised CER for the total cost of the project including cost of land	<p>Total cost of the project is Rs. 787.5 Crores Proposed CER expenses is Rs. 10.87 Crores</p> <table border="1" data-bbox="699 1644 1437 1869"> <thead> <tr> <th>SI. No.</th> <th>Details of Activities</th> <th>Amount proposed (Rs lakhs) Approx.</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Creation of Health infrastructure & assistance</td> <td>50</td> </tr> </tbody> </table>	SI. No.	Details of Activities	Amount proposed (Rs lakhs) Approx.	1	Creation of Health infrastructure & assistance	50									
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1	Creation of Health infrastructure & assistance	50															

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		2	Creation of Education facilities.	50
		3	Environment sustainability	565
		4	Infrastructure development	320
		5	Hygiene and Health	50
		6	Sustainable livelihood	25
		7	Development of Sports facility & cultural activity	15
		8	Skill Development	12
			Total	1087
5	PP need to submit the EMP cost.	Capital cost to be made on Environment Management plan is Rs 500 lakhs and Recurring cost per year is Rs 100 lakhs.		
6	List of Flora & Fauna details duly authenticated by the Department of Forest/Wild life division of the state Government.	List of Flora and Fauna authenticated by DCF, Forest Department, Ballari is enclosed. Schedule – I Fauna are Black buck, Panther, Sloth Bear Common peafowl, Monitor lizard, Python & Indian Wolf. Site Specific Conservation plan for above seven Schedule–I Fauna have been prepared & submitted to Chief Wild Life Warden at Bengaluru vide letter No. KIOCL/DPP/06.		
7	PP needs to bring the Revised R&R plan and the HR policy for the engagement of 500 employees.	This project is Greenfield project and there are no habitants within lease area. Rehabilitation and Resettlement is not envisaged. For engagement of 500 employees for this project, KIOCL being CPSU has well defined HR policy for recruitment of workers and officer category. Out of 500, 435 shall be permanent employees & 65 out sourced employees through local contractors.		
8	Permission for shifting of School and its alternative location	This project is Greenfield project and no habitants within the lease area. No school is existing within the core zone hence shifting of school to alternate location is not envisaged		
9	Estimated quantity of Manganese reserve and life in the mine lease area	The Probable Manganese ore Reserves are 1400 tons with an average grade of 34.96% Mn. Initial 4 years is envisaged for preparatory works like preparation of storage yard, removal of OB, road and production of Manganese ore at the rate of 500 tonnes/year starting from 5th year of mine plan		

		onwards. The life of mine is considered as 7 years.															
10	PP did not provide the details of the overburden, inter-burden, top soil generation etc.	<p>Reserves ,Excavation and Generation of waste during proposed plan period</p> <table border="1"> <thead> <tr> <th>Description</th> <th>Iron ore</th> <th>Manganese ore</th> </tr> </thead> <tbody> <tr> <td>Probable reserves</td> <td>7.34 million tonnes</td> <td>1400 tonnes</td> </tr> <tr> <td>Total excavation(Waste+ore)</td> <td>7.87 Million TPA</td> <td>0.0022 Million TPA</td> </tr> <tr> <td>Waste generation (OB/SB/IB)</td> <td>6.351664 M.cu.m</td> <td>0.00085 M.cu.m</td> </tr> <tr> <td>Top soil generation</td> <td>0.116102 M.cu.m</td> <td>NIL</td> </tr> </tbody> </table>	Description	Iron ore	Manganese ore	Probable reserves	7.34 million tonnes	1400 tonnes	Total excavation(Waste+ore)	7.87 Million TPA	0.0022 Million TPA	Waste generation (OB/SB/IB)	6.351664 M.cu.m	0.00085 M.cu.m	Top soil generation	0.116102 M.cu.m	NIL
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11	PP needs to submit the plan of utilization of wastes overburden, inter-burden, filtered tailings and its dumping locations should bring out.	<p>Waste dumps Management (Utilization & dumping location)</p> <p>Total quantity of waste generation (OB/SB/IB) during proposed plan period will be 6.351664 M.cu.m for Iron ore & 0.00085 M.cu.m for Manganese ore.</p> <p>Some quantity of overburden waste is envisaged for laying of mine roads. The overburden/ waste generated during the excavation of iron ore will be dumped at the western side of the lease area demarcated as Waste Dump-1 Similarly, the waste generated by the Manganese pit will be dumped at Waste Dump-2 demarcated at the south western corner of the lease area.</p> <p>After the mine reaches the conceptual stage, backfilling is envisaged in a sequential manner such that the terrain attains its original profile. All overburden dumps and tailing stack yards are planned for afforestation with indigenous species.</p> <p>Details of Tailing dump Pond and its management:</p> <p>The low-grade iron ore will be processed for up-gradation of the Fe content. The capacity of tailing dump pond is 3 Mt. The filtered tailing cake will be disposed off in tailing dump pond @ 0.4 MT /year. The tailings generated by iron ore beneficiation will be dewatered and the tailing cakes will be dumped at north-west corner of the lease.</p>															
12	Undertaking for not utilization of ground water resources.	Undertaking for not utilization of ground water resources has been submitted.															

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13	Undertaking by way of Affidavit in compliance of the Ministry OM 30.05.2018.	Devadari Iron Ore Mine is a Greenfield project and the mine is yet to commence the operations. Environmental Clearance is one of the prerequisites for execution of Mining Lease Deed. Affidavit for compliance of the Ministry's OM no. 3-50/2017-IA.III (Pt.), dated 30th May 2018 that this judgment is not applicable to the said project.
14	In addition to above, on further examination of the proposal it has found that in Form-2 details of the beneficiation is mentioned but the application is only made in schedule 1 (a) (i) i.e. mining of mineral. In view of the same it is requested to clarify whether the application involve mining as well as beneficiation or not. If yes, the revised from-2 needs to be submitted.	The project is both mining (1 (a) (i)) and beneficiation (2(b)). Corrected Form -2 has been submitted.
2.ADS Dated 30/08/2021		Replied on 28/06/2021
1	The Committee observed that latitude & longitude needs to be verified as per coordinate provided by the State Government.	Latitude & Longitude are verified with the coordinates provided by the State Government vide notification no. CI 294 MMM 2015, Bengaluru, dated 23-01-2017 by Commerce and Industries Secretariat, Government of Karnataka.
2	The Committee asked the PP to submit the approval of State Government for withdrawal of water from TB Dam or Narihalla reservoir.	The approval of withdrawal of water from state govt. is in advance stage. Total water requirement is 2953.21 m ³ /hr. Water recovery shall be 2809.73 m ³ /hr making total make up water requirement 143.48 m ³ /hr rounding to 150 m ³ /hr. Chief engineer, KNNL, TB dam, Munirabad, has recommended the proposal of drawl of 4 MLD of water from downstream of TB dam near Nimbhapura village, for Devadari mining project. Further, on 05.2.2021, Managing Director, KNNL, has also recommended the proposal to Govt of Karnataka. Due to COVID 19 Pandemic lockdown in the state of Karnataka, the approval process is getting

		<p>delayed. It is understood that, water allocation committee was held on 16.06.2021 and proposal for sanction of water was considered favourably. Copy of letter of Chief engineer and Managing Director, KNNL has been submitted.</p>																								
3	<p>PP should submit the species to be planted and select indigenous local species.</p>	<p>List of plants/species (Indigenous local species) that will be planted under Afforestation/ Green Belt Development program including Safety Zone in respect to Devadari Iron ore Mine of M/s KIOCL has been submitted</p>																								
4	<p>PP may expedite the process for grant of FC and submit the Stage-I of FC for consideration of the proposal for grant of EC. In addition to this PP shall also submit a distance of mining lease from the protected area if any falling within the 10 KM of the project site.</p>	<p>MoEF&CC, Gol accorded on 24.06.2021 Stage-I In-principle approval under Forest Conservation Act, 1980 for diversion of 401.5761 ha (388.0 ha for Mining & 13.5761 ha for conveyor line, approach road, power transmission line/water line etc.) of forest land in Swamimalai Block forest, Sandur Taluk, Ballari Dt. for Mining in Devadari hill range in favour of KIOCL Ltd. Copy of Stage -I / In-principle approval is submitted at Annexure –IV of ADS reply. No protected area is falling within 10 km from the project site. Protected area buffer zone map has been submitted.</p>																								
5	<p>PP should verify the list provided by State Government and mention the schedule against each species. PP should also prepare the conservation plan for all the schedule-1 species and submit the same for the approval of the Chief Wildlife Warden. PP shall upload the list of schedule-1 species, copy of conservation plan and its proof of submission to CWWL on the PARIVESH Portal.</p>	<p>The verified list mentioning Schedule, Part and Serial No. against each species of Fauna has been submitted (Source –Working group of Ballari forest division) of ADS reply. There are total seven Schedule-1 species as per the list mentioned in the Table below:</p> <table border="1"> <thead> <tr> <th>Sl. No.</th> <th>Common Name / Local Name</th> <th>Scientific Name</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Black buck</td> <td>Antelope cervicapra</td> </tr> <tr> <td>2</td> <td>Indian wolf</td> <td>Canis lupus pallipes</td> </tr> <tr> <td>3</td> <td>Panther</td> <td>Pantheropardus</td> </tr> <tr> <td>4</td> <td>Sloth bear</td> <td>Melursus ursinus</td> </tr> <tr> <td>5</td> <td>Monitor lizard</td> <td>Varanus spp.</td> </tr> <tr> <td>6</td> <td>Python</td> <td>Python molurus</td> </tr> <tr> <td>7</td> <td>Common peafowl</td> <td>Pavocristatus</td> </tr> </tbody> </table> <p>Conservation plan for all the seven Schedule-1 species have been prepared and submitted for the approval to the Chief Wild Life Warden under</p>	Sl. No.	Common Name / Local Name	Scientific Name	1	Black buck	Antelope cervicapra	2	Indian wolf	Canis lupus pallipes	3	Panther	Pantheropardus	4	Sloth bear	Melursus ursinus	5	Monitor lizard	Varanus spp.	6	Python	Python molurus	7	Common peafowl	Pavocristatus
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		acknowledgement vide letter No. KIOCL/DPP/06 dated 11/08/2020. List of schedule-1 species, copy of conservation plan and its proof of submission to CWWL have been uploaded on the Parivesh Portal.
6	<p>The Committee is of the view that isopleth is not incorporated in the EIA/EMP Report nor in the annexure rather it is uploaded separately. Further, there is no indexing in the isopleth. The Committee is of the view that air quality modeling should be done for all the activities viz. drilling, blasting, loading, unloading, transportation, crushing, conveying, beneficiation activities considering the total excavation and material re-handling. The control case and worst case scenario needs to be demonstrated with controlling factor and GLCs values for all the pollutants needs to be mentioned clearly. In addition to this the Original analysis report of sample collected needs to be submitted along with the accreditation certificate of the laboratory. The input parameters used for the modeling needs to be submitted to the Ministry.</p>	<p>Revised isopleths with indexing considering the related activities have been submitted.</p> <p>Original analysis report of samples collected and the accreditation certificate of the laboratory have been submitted as an annexure with the ADS reply.</p>

7	PP should provide the complete details (area, location, tentative budget, timeline) for the grazing land.	<p>The proposed mining project falls within SM block reserve forest area of total extent is 6993 ha. The proposed mining project area is 401.5761 ha .The balance land status remain same & available for grazing.</p> <p>However ,under CER company proposed to develop grazing land near Mudukalapenta /Vittalnagar area with an estimated cost of Rs 65 lakhs including cost of land.</p> <p>In this regard a request letter is submitted to DC Ballari, to provide 25 ha C&D class revenue land for development of grazing land in order to increase fodder yield by way of good & fast-growing grass seedling, watering, distribution of fodder and measure to improve soil fertility under corporate environmental responsibility fund in & around Narasingapura /Ranjithpura /Bujanganagara villages, SandurTq, Ballari Dt. This will enhance the growth of livestock as well as socio-economic development of nearby villagers. Copy of request letter to DC Ballari has been submitted.</p>
8	Activities proposed under CER needs to be revised as suggested by EAC during the meeting.	Project proponent has provided CER on environmental sustainability for Rs. 565 lacs and sustainable livelihood for Rs. 25 lacs including other activities of capital nature which can be monitored. Details of CER have been submitted.

19. Details of the EMP:

Activities	Capital cost (Crores)	Recurring cost (Lakhs/annum)
Capital and recurring cost on Environment	5	100

20. Details of project cost and employment:

Particulars	(Rs. In Crore)
Capital Cost for Environment Protection	5
Budget for addressing the Public Hearing issues	Company has earmarked Rs 5 Crs under Environment Management plan and Rs 10.87 Crs for various activities under Corporate Environment Responsibility.
Total Cost for EMP	5

Recurring Cost for EMP	1
Project Cost	787.5
Employment	The direct employment will be 500 persons. Indirect employment will be about 1000 persons.

20. Observation of the Committee: The Committee observed that details of expenses proposed in Corporate Environment Responsibility (CER) submitted by PP are very generic. The Committee also observed shortfalls in the mine plan. It is also noted that Wildlife conservation plan has been prepared and submitted for approval to PCCF. It is also noted that 10.87 Crores have been earmarked for public hearing concerns.

21. Recommendation of the Committee: After detailed deliberations made by the Project Proponent and the Consultant, the Committee during its meeting during 13th to 16th July, 2021 **recommended** the proposal for Environmental Clearance of Devadari Iron Ore mine with a mine capacity of 2 MTPA Iron Ore (ROM) and 500 TPA Manganese Ore with 2 MTPA wet Beneficiation plant for 401.5761 ha (388.0 ha for Mining + 13.5761 ha for conveyor, approach road, etc.) out of 485.7725 ha project area (470.40 ha mine lease area + 15.3725 ha conveyor, approach road etc) located at Swamimalai Block Forest, Kumaraswami Reserve Forest Range, Sandur Taluk, Bellary district, Karnataka by M/s KIOCL Limited along with the following specific conditions:

- 1) Mining shall be restricted to 388.00 ha only.
- 2) Proper plan up to 22 years as operation will commence up to 22 years. Mass balance in terms of iron ore rejects with iron containing less than 35, management of tailing as mass balance including the water balance as wet beneficiation and dry beneficiation.
- 3) Wildlife conservation plan has to be dynamic. Action plan and monitoring plan has to be prepared and proper operation of wildlife conservation plan needs to be done. The Wildlife conservation plan has been prepared and submitted for approval to PCCF. Copy of approval sent to PCCF needs to be submitted to Ministry. At the stage of implementation and on approval of the plan, the monitoring structure should be in place so that implementation of the plan can be done for which it has been prepared.
- 4) 10.87 Crores have been earmarked for public hearing concerns. Detailed table with activity-wise, component-wise needs to be submitted by PP.
- 5) The peripheral plantation plan should be taken up in 2 years with minimum 3 m height sapling with 2 x 2 m spacing.

- 6) Since it is a Greenfield project, entire peripheral plantation must be completed before the mining activity actually starts with 95% survival rate. At the end of 1 year, monitoring for 95% survival rate and the gap plantation must be done.
- 7) The EC will only be functional after obtaining permission for with-drawl of groundwater from the competent authority.
- 8) As the Public Hearing has been carried out for the entire 485.7725 Ha, project proponent after taking Stage-II Forest Clearance for remaining area i.e. 84.1964 Ha; may again approach the Ministry for undertaking mining in the remaining area with the proper mining plan.

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

1. EAC Meeting Details:

EAC meeting	33 rd EAC Meeting
Date of Meeting	13 th – 16 th July, 2021

2. Project details:

Name of the Project	Proposal for Amendment in existing Environmental Clearance granted on 22.09.2014 by MoEF&CC w.r.t Change in mine area from 512.354 ha (602.054 ha - 89.70 ha) to executed ML area 519 ha for existing limestone mine with production capacity of 3.0 MTPA (ROM)	
Location	Villages	Itagi&Mogla
	Taluka	Chittapur
	District	Kalaburagi
	State / UT	Karnataka
	Latitudes	17 ⁰ 06'41.03880" to 17 ⁰ 08'10.57568" N
	Longitudes	77 ⁰ 07'35.07929" to 77 ⁰ 09'13.0.5734" E
	SoI Toposheet No.	56 G/4
Company Name	M/s. Orient Cement Limited.	
Accredited Consultant	J.M. EnviroNet Pvt. Ltd. Accredited EIA Consultant by	

Minutes of 33rd EAC Meeting held during 13th to 16th July 2021

Organisation and its certificate no.	NABET (QCI) Certificate No: NABET/EIA/2023/RA 0186, dated 17.12.2020 & valid up to 07.02.2023
KML file	Submitted
Seismic zone	III

3. Category details:

Category of the project	Category "A"
Provisions	Project or Activity 1(a)
Mining lease Area (MLA) (in ha.)	519 ha

4. EC Details:

Previous EC details	Environmental Clearance for 3.0 million TPA limestone production capacity over an area of 512.354 Ha out of applied ML/LOI area of 602.054 Ha (excluding mineable pit – 3) was granted by MoEFCC vide letter no J-11015/60/2011-IA.II(M) dated 22.09.2014.
Production capacity	3.0 million TPA
Soil	0.025 million TPA
Waste	0.05 million TPA
Others	-
Total Excavation	3.0715 million TPA
Crusher	-
Additional information	The proposal was earlier considered in 4 th EAC meeting held during 23-24, April, 2019 for Amendment in EC for Increase of Mining Lease Area from 512.354 Ha to 519 Ha under clause para 7(ii) wherein the Committee rejected the proposal.

5. Observation of the Committee: The Committee observed much variance in area requested for amendment by PP as compared to area granted in EC vide letter no. J-11015/60/2011-IA.II(M) dated 22.09.2014 totaling to 512.354 Ha of all the areas of pit 1, pit 2, pit 3 and allied activities, in the proposal now made for 519 Ha as pit sizes have been reduced including the size of pit 3 which was not to be mined. Following is the submission of the project proponent during the presentation:

S. No	Pit Number	Area applied in EC	Area as per Executed ML	Area as per granted EC	Area as per present proposal
1.	Pit No.1	238.8	197.5	238.8	197.5
2.	Pit No.2	42.1	10.51	42.1	10.51
3.	Pit No.3	89.7	44.62	-	-
4.	Allied activities	231.454	266.37	231.454	310.99 (Includes 44.62

	&Undisturbed Area				ha area of pit 3)
TOTAL		602.054	519	512.354	519

6. Recommendation of the Committee: After detailed deliberations made by the Project Proponent and the Consultant, the Committee during its meeting during 13th to 16th July, 2021 **deferred** the proposal for want of following information:

- 1) The project proponents shall submit the detailed activity plan for total excavation in each pit, area explored, area used, area mined out and area now in operation in the executed ML. This information is required to assess the repercussions of changing area from 512.354 Ha to 519 Ha on the total EC which was granted earlier vide letter no. J-11015/60/2011-IA.II(M) dated 22.09.2014.
- 2) The project proponent shall submit the details of area reduced from each pit along with the reason.
- 3) The project proponent shall submit the area broken in pit 1 and pit 2 as per area already covered under allied activities and undisturbed area both in figures and in KML.
- 4) The project proponent shall submit the existing status of environment in terms of air pollution, water, noise & sound pollution.
- 5) The project proponent shall submit the status of existing plantation as well as its survival rate.
- 6) The project proponent shall submit the past production duly certified by DMG as per annexure III.

1.4 Proposal for Amendment of ToR of Kumaraswamy Iron Ore Mine (KIOM) (M.L.No.1111, M.L Area 480.79 Ha out of 639.80 Ha) for capacity expansion of total excavation from 8.6 MTPA to 16.25 MTPA (RoM Iron ore from 7 to 10 MTPA and Waste excavation from 1.6 to 16.25 MTPA) located at Village: Deogiri, Tehsil: Sandur, District: Bellary, Karnataka by M/s. NMDC Limited – [Proposal no: IA/KA/MIN/215265/2021; File No. J-11015/13/2021-IA.II (M); Consultant: Vimta Lab Limited] - Amendment of ToR

1. EAC Meeting Details:

EAC meeting	33 rd EAC Meeting
Date of Meeting	13 th – 16 th July, 2021

2. Project details:

Minutes of 33rd EAC Meeting held during 13th to 16th July 2021

Name of the Project	Proposal for Amendment of ToR of Kumaraswamy Iron Ore Mine (KIOM) (M.L.No.1111, M.L Area 480.79 Ha out of 639.80 Ha) for capacity expansion of total excavation from 8.6 MTPA to 16.25 MTPA (RoM Iron ore from 7 to 10 MTPA and Waste excavation from 1.6 to 16.25 MTPA)	
Location	Villages	Deogiri
	Taluka	Sandur
	District	Bellary
	State / UT	Karnataka
	Latitudes	15°00'00" N to 15°01'20" N
	Longitudes	76°33'55" E to 76°37'10" E
	Soil Toposheet No.	D43E12
Company Name	M/s. NMDC Limited	
Accredited Consultant Organisation and its certificate no.	VIMTA Labs Ltd. and QCI/NABET/ENV/ACO/21/1731 Validity: August 12,2021	
KML file	Submitted	

3. Category details:

Category of the project	Category "A"
Provisions	Project or Activity 1(a)
Mining lease Area (MLA) (in ha.)	480.79 Ha

4. ToR Details:

ToR Proposal No.	IA/KA/MIN/196028/2021
Online application date for Form-I	03.02.2021
EAC meeting date	28 th EAC meeting held during 24 th -26 th February, 2021
ToR Letter No.	J-11015/13/2021-IA.II (M)
ToR grant Date	23.03.2021
Production capacity	RoM Iron ore from 7 to 10 MTPA
Soil	-
Waste	from 1.6 to 16.25 MTPA
Others	None
Total Excavation	Expansion from 8.6 MTPA to 16.25 MTPA
Crusher	-
Reason for Amendment	Initially, the mining lease was granted to M/s NMDC Limited for 647.50 Ha, which was reduced to 639.80 Ha as per the survey conducted by Central Empowered Committee in the year 2012. The mining lease of 639.80 Ha comprises of 480.79 Ha forest land (321.78 Ha

	<p>diverted forest land and 159.01 Ha un-diverted forest land) and 159.01 Ha revenue land as per CEC survey. The working area for mining and allied activities as per CEC survey is 480.49 Ha (321.78 Ha + 159.01 Ha). However, during time of lease deed registration on 14/7/2020, the joint survey of the mining lease area was again done by State Government and the Mining lease area remains same as 639.80 Ha. However, there were slight variation in Forest and Revenue area. As per lease deed, the total Forest land within ML area is 487.01 Ha out of which 324.70 Ha is diverted Forest land, 162.31 Ha is un-diverted forest land and 152.79 Ha is revenue land. The working area for mining and allied activities is 477.49 Ha (Forest area diverted 324.70 Ha & Revenue land 152.79 Ha). In Form-1, area of forest land diverted is mentioned as 324.70 Ha at Sl.No.23. The brief summary of the project submitted in Parivesh portal also specifically mentioned that the working area for KIOM is 477.49 Ha. Taking into consideration of the facts explained above, it is submitted that the area shall be revised in the TOR as 477.49 Ha instead of 480.79 Ha.</p>
<p>Additional information (Involvement of forest)</p>	<p>The Project Proponent submitted that the mining lease of 639.80 Ha comprises of 480.79 Ha forest land and 159.01 Ha revenue land as per CEC survey. Kumaraswamy Iron Ore Mine obtained Forest clearance for diversion of 341.20 Ha forest land (324.70 Ha within Lease area and 16.50 Ha outside lease area for conveyor system corridor, approach road to mine, power transmission line) from MOEF, New Delhi vide letter no: 8-27/2005-FC dated 24/7/2006. The forest area diverted under F.C. Act within M.L. area, after CEC survey, was reduced from 324.70 Ha to 321.78 Ha. Similarly, non-diverted Forest Land within M.L. area was reduced from 167.63 Ha to 159.01 Ha. NMDC has paid NPV charges of Rs.12.77 Cr on 22/08/2016 for retaining the remaining forest land of 159.01 Ha within lease area (as per CEC Survey) under section 2(iii) of F.C. Act, 1980 and as per guidelines issued by Forest Conservation Division, MOEF&CC vide letter no: 11- 599/2014-FC dated 1/4/2015. Thus, Kumaraswamy Iron Ore Mine has got Forest clearance under section 2(ii) for major part of the Forest Land and deemed approval under section 2(iii) of F.C. Act, 1980 for remaining forest land. The Ministry also accorded EC for the mining activities in 480.79 Ha (diverted forest area – 321.78 Ha & non-forest area – 159.01 Ha) vide letter dated 25.01.2021. At the time of Lease Deed execution, a joint survey,</p>

	<p>consisting of DMG, Forest, NMDC & Revenue officials, was conducted and there is no change in total mining lease area which remain same as 639.80Ha as per CEC survey. However, Forest Area within mining lease was increased to 487.01 Ha from 480.79 Ha. It was also established during the Joint Survey that diverted forest Land is 324.70 Ha (as per Forest Clearance) and un-diverted Forest Land 162.31 Ha within the mining lease. Thus, there is increase of 3.3 Ha in the un-diverted Forest Land within the Mining Lease area when comparing CEC Survey figures with that of the recent Joint Survey conducted.</p>
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5. Observation of the Committee: The Committee observed that Terms of Reference was granted vide letter no. J-11015/13/2021-IA.II (M) dated 23.03.2021 by MoEF&CC for 480.79 Ha but there is reduction of area in revenue land as per the CEC survey.

6. Recommendation of the Committee: After detailed deliberations made by the Project Proponent and the Consultant, the Committee during its meeting during 13th to 16th July, 2021 **recommended** the proposal for Amendment of area from 480.79 Hato 477.49 Ha in the Terms of Reference vide letter no. J-11015/13/2021-IA.II (M) dated 23.03.2021 for Kumaraswamy Iron Ore Mine (KIOM) (M.L.No.1111, M.L Area 477.49 Ha) for capacity expansion of total excavation from 8.6 MTPA to 16.25 MTPA (RoM Iron ore from 7 to 10 MTPA and Waste excavation from 1.6 to 16.25 MTPA) located at Village: Deogiri, Tehsil: Sandur, District: Bellary, Karnataka by M/s. NMDC Limited. The terms and conditions of TOR letter dated 23.03.2021 shall remain unchanged.

1.5 Proposal for Terms of Reference as per S.O. 804(E) dated 14.03.2017 for Mining of Limestone mineral with the production capacity of 53055 TPA ROM in the Mining lease area of 21.106 Ha located at Villages- ChakduraBathyn, Khrew, Tehsil - Pampore , District- Pulwama, Jammu and Kashmir by M/s Dawar Cement Pvt. Ltd – [Proposal no: IA/JK/MIN/65104/2017; File No. 23-23/2019-IA-III; Consultant: VardanEnvironet] - ToR

EAC Meeting Details:

EAC meeting	33 rd EAC Meeting
Date of Meeting	13 th – 16 th July, 2021

2. Project details:

Minutes of 33rd EAC Meeting held during 13th to 16th July 2021

Name of the Proposal	Proposal for Terms of Reference as per S.O. 804(E) dated 14.03.2017 for Mining of Limestone mineral with the production capacity of 53055 TPA ROM in the Mining lease area of 21.106 Ha	
Location	Village	ChakduraBathyn, Khrew
	Tehsil/Taluka	Pampore
	District	Pulwama
	State / UT	Jammu and Kashmir
	Latitudes	34°03'15" N to 34°03'42" N
	Longitudes	75°00'16" E to 75°00'47" E
	SolTopo sheet No.	43 J/16, 43 N/4, 43 K/13, and 43 O/1
Company's Name	M/s Dawar Cement Pvt. Ltd	
Accredited Consultant and certificate no.	VardanEnvironet	
KML file	Not submitted	
Seismic zone	III	

3. Category details:

Category of the project	Category 'A'
Provisions	EIA Notification dated 14.09.2006
Mining lease Area (MLA) (in ha.)	21.106 Ha
Additional information	Dachigam Wildlife Sanctuary lies 2.1 Km towards N direction from mine lease boundary

4. ToR/EC Details:

ToR Proposal No.	IA/JK/MIN/65104/2017
Online application date for Form-I	02.06.2017
Documents Submitted	Form 1, PFR
EAC meeting date	13.07.2021
Production capacity	Limestone: 53055 TPA ROM
Additional details	ToR application was submitted earlier and was accorded by MoEF&CC, Gol vide letter no. J-11015/324/2013-IA.II (M) dated 22nd January 2016. Since, Mining lease was executed in 2009 and mining was done without taking prior EC, MoEF&CC asked J&KPCB for prosecution. As per direction of MoEF&CC, vide letter dated 01.04.2014 Jammu & Kashmir, SPCB had filed a prosecution against the project proponent in 2015 before the Hon'ble Court of Chief Judicial Magistrate Srinagar under section

	<p>15 of E (P) Act, 1986. This mine is closed since June 2013. The project proponent has submitted the Board Resolution vide letter dated 18.04.2014 mentioning that no violation of E (P) Act, 1986 will be repeated in future. However, the EIA/EMP report was prepared as per ToR granted. The baseline study was also done w.e.f. March 2016 to May 2016. The proposal was then considered in 18th EAC meeting on dated 29.05.2017 for grant of EC. During the meeting EAC stated that PP started the work onsite without prior EC under EIA notification, 2006. Therefore, EAC directed that it is a violation case and PP shall apply again as per latest S.O. 804(E) dt. 14.03.2017 of MoEF&CC.</p>
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5. Observation and recommendation of the Committee: The Proposal for Terms of Reference as per S.O. 804(E) dated 14.03.2017 was considered in the 33rd EAC meeting held during 13th – 16th July, 2021. The Project Proponent did not attend the meeting and no prior notice was received by the Ministry. EAC deliberated the proposal based on the documents and information submitted by the PP on the Parivesh portal and noted that Dachigam Wildlife Sanctuary lies 2.1 Km towards N direction from mine lease boundary. EAC also observed that application for Wildlife Clearance is yet to be submitted. Therefore, the Committee **deferred** the proposal for want of the following information:

- 1) Mining lease was executed in 2009 and since 2008 to June 2013 the project proponent excavated 1, 17,812 tones of Lime stone without obtaining prior environmental clearance. The Project Proponent needs to submit theyear-wise past production details from 2008 to June 2013.
- 2) The Project Proponent needs to submit the KML file in order to have clear status of the project site.
- 3) Due to close proximity with the Dachigam Wildlife Sanctuary, the status of ESZ to be provided with clear demarcation on map.
- 4) The Project Proponent needs to submit the detailed plantation plan proposed along the main haul roads, along the lease periphery and on the undisturbed area.

DAY 2 - 14.07.2021 (Wednesday)

2.1 Proposal for Environmental Clearance of Dhani Abdulla Wali Gypsum Mines with enhancement of production capacity from 5.0 LTPA to 6.0 LTPA (RoM) of Gypsum in the Mine lease area located near Village Dhani Abdulla Wali, Tehsil-kolayat, District Bikaner, Rajasthan by M/s Rajasthan State Mines and Minerals Limited – [Proposal no: IA/RJ/MIN/9286/2007; File No. J-11015/573/2007-IA.II. (M); Consultant: Mantec Consultants Private Limited] – EC

1. EAC Meeting Details:

EAC meeting	33 rd EAC Meeting
Date of Meeting	13 th – 16 th July, 2021

2. Project details:

Name of the Proposal	Dhani Abdulla Wali Gypsum Mine with enhanced Gypsum production capacity from 5 Lakh TPA to 6 Lakh TPA in the mine lease area of 1278 ha	
Location	Village	Dhani Abdullah Wali
	Tehsil/Taluka	Kolayat
	District	Bikaner
	State / UT	Rajasthan
	Latitudes	28°20'3.25"N to 28°21'39.2"N
	Longitudes	72°22'52.97"E to 72°25'34.97"E
	SoI Topo sheet No.	44D/7 'Restricted'
Company's Name	M/s Rajasthan State Mines & Mineral Ltd	
Accredited Consultant and certificate no.	Mantec Consultants Pvt. Ltd Certificate No.: NABET/EIA/2023 RA 0205	
KML file	Submitted	
Seismic zone	Zone-III as per IS 1893:2002	

3. Category details:

Category of the project	A
Provisions	1 (a)
Mining lease Area (MLA) (in ha.)	1278 Ha

4. ToR/EC Details:

ToR Proposal No.	IA/RJ/MIN/62699/2014
Online application date for	24.01.2014

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Form-I	
Documents Submitted	Form-I, PFR, Mining Plan with annexures.
EAC meeting date	18 th EAC Meeting dated 20 th to 21 st March 2014
ToR Letter No.	J-11015/61/2014-IA.II (M)
ToR grant Date	07.05.2014
Production capacity	5.0 Lakhs TPA to 6.0 Lakhs TPA
Soil	9.39 Lakh Cubic Meter
Waste	Not generated
Others Gypsum	33.49 Lakh Cubic Meter (43.95 Lakh MT)
Total Excavation	42.08 Lakh Cubic Meter
EIA/EMP uploaded on	13.04.2016 re-uploaded on 22.02.2017, 22.05.2019
Previous EC details	J-11015/573/2007-IA.II(M) dated 28.05.2008
Date of earlier EAC meetings	29 th EAC Meeting dated 22.03.2018 35 th EAC Meeting dated 24.08.2018 13 th EAC Meeting dated 30.01.2020-31.01.2020

5. Lease Details:

Granted Prospecting Licence	Area	1278 Ha
	Execution date	15.01.2010
	ML No.	32/2005
Prospecting operation, Commence date	Mining operation commenced on 03.02.2010	
Application for the Mining lease area and Date	04.07.2005	
Validity of mine lease	50 years (20.01.2010 date of registration of ML agreement) to 19.01.2060.	
Letter of Intent	Letter No.	P.3 (14) Khan/Group-1/2007.
	Date	31.07.2009 and rider agreement dated 29.08.2019.

6. Mining plan details:

Mining Plan (approved by Indian Bureau of Mines/DMG)	Letter No.	SME/BKN/CC-III/M.S/M.L-32/05/3155
	Date	01.09.2017
	Validity	Five years
Mining Parameters	Quantitative Description	
Bench Height	Single bench surface mining up to depth of 1.33 meter	
Bench Width	Single bench surface mining up to depth of 1.33 meter	
Method of Mining	Open Cast Mechanized Mining using hydraulic excavator for excavation of Gypsum.	

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Individual bench slope	-
Overall pit slope	-
Drilling/Blasting	Not required
RoM output size	Not defined, ROM as excavated is being directly loaded in customer's truck.
Life of mine	~10 Years
Transportation details	No internal transportation required; ROM as excavated is being directly loaded in customers truck.
Dumper's capacity	Trucks provided by customers from open market with registered carrying capacity of 28 MT &35 MT.

7. Land Area Breakup:

Private land	825 Hectare
Government land	453 Hectare
Total Mining lease area (MLA)	1278 Hectare
Private land for crusher, workshop & other infrastructure outside the MLA	NA

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

Particulars	Particular's Name	Distance &Directions
Nearest City	District Bikaner	91km.(approx.) in SE
Nearest Town	Town Kolayat	76 km (approx.) in SE
Nearest National Highway	NH-15	72km. (approx.) in SE
Nearest Railway Station	Kolayat Railway Station	76 km (approx.) in SE

9. Water requirement

Total water requirement	10 KLD	Fresh water	10.00 KLD
		Treated water	0.00
Source	Water reservoir constructed by lessee under CSR through Gram Panchayat.		
Permission	NA		

10. Presence of Environmentally Sensitive areas in the study area

Forest Area/Environmental Zone	Land/Protected Land/Environmental Sensitivity	Yes/No	Details of Certificate/letter/Remarks
Forest Land		No	Submitted Forest NOC dated 24.10.2017. Certificate issued by concerned DCF vide letter dated 26.11.2020
National park		No	
Wildlife Sanctuary		No	

	(certificate submitted)
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Schedule-1 species	Yes/No	Details of Certificate/letter/Remarks
Schedule-I species	Yes	Peafowl and Chinkara, Conservation plan approved by DCF, wildlife vide letter dated 17.10.2017 has been submitted.

11. Green belt/plantation details:

Proposed area for green belt/plantation	47.5 Ha
Budget for green plant& plantation till the end of life of mine.	Rs 2 Lakh per year
Budget for nursery	Not required, Plants are being arranged from the nursery of Forest Department.

Particulars for Green belt/plantation	Area covered (in Ha)
7.5 m barrier & non-mineralized zone	10.50 Hectare Lease Boundary is mainly sand dunes and therefore spread seeds of desert plants during rainy season.
50 m safety zone of nallah, roads, electric lines	2 Hectare
500 m safety zones of nearest habitation villages	No village is situated in mining lease area.

12. Baseline details:

Baseline Data (Air / Water / Noise / Soil / Ground water table/ others)	
Period of baseline data collection	October 2014- December 2014
Season (Summer / Pre-monsoon / Post-monsoon / Winter)	Post Monsoon
Additional information	Six monthly air, water and noise monitoring are being conducted regularly. Last monitoring was conducted in March-2021

13. Public Hearing (PH) Details

Advertisement for PH with date	Advertisement published in Rajasthan Patrika& Indian Express on 09.07.2015
Date of PH	10.08.2015
Venue	Village Dani Abdulla
Chaired by	Mr. Hari Prasad Pipraliya (Additional District Magistrate), Bikaner

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Main issues raised during PH	<p>1) Repairing and Maintenance of mine approach /access roads and water sprinkling through villagers on short term contract basis. Compliance: Work is being carried out through villagers. Annual Budget: -Rs. 6 Lakhs/year.</p> <p>2) Construction of water pond (Diggi)- Demand by Gram Panchayat. Compliance: Work will be carried out through Gram Panchayat on finalization of location by them. Budget: -Rs. 5 Lakhs.</p> <p>3) Plantation and repairing & maintenance of rural road. Compliance: Work is being carried out through villagers. Annual Budget: -Rs. 2 Lakhs/year</p>
Budget proposed for addressing issues raised during PH	Annual: 8.35 Lakh per year. Capital: 05 Lakh
Additional information	Construction of toilet at nearby village: Rs 2 Lakh

14. Court case details:

Court Case	No
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15. Rehabilitation & Resettlement:

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

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

Particulars	Letter no. and date
Certified EC compliance report	Issued vide letter No.112 dated 24.09.2019 by RO, MOEF&CC Lucknow has been submitted.
Certified past production	Issued vide letter No.18 dated 30.05.2018 by ME, DMG, Bikaner has been submitted.

18. ADS details:

S.No	ADS Point	Reply
1	PP needs to submit the valid accreditation certificate of lab of 09.11.2020. Please submit	NABL Accreditation Certificate of M/s Go Green Mechanisms Pvt. Ltd. dated 09.11.2020 valid for the period from 09.11.2020 to 08.11.2022 was submitted with compliance letter dated

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	the accreditation certificate of that time when the samples were tested and analyzed in the laboratory.	24.02.2021 & NABL Accreditation Certificate of M/s Go Green Mechanisms Pvt. Ltd. Dated 09.12.2018 valid for the period from 09.12.2018 to 08.12.2020 was submitted with compliance letter dated 09.04.2021. Again both the NABL Certificates dated 09.12.2018 & 09.11.2020 with relevant part of ADS from time to time as compliances & clarification on ADS are submitted.
2	Monitoring samples were tested for six monthly compliance report in M/s Go Green Mechanisms Pvt. Ltd. lab on 08.05.2020 to 12.05.2020 but PP has submitted the accreditation certificate of lab dated 09.11.2020 which is valid till 8.11.2022. PP is requested to submit the accreditation certificate of that time period when the samples were tested and analysed in the laboratory. Same ADS has been generated earlier on 11.03.2020 but PP again submitted the same certificate as submitted earlier.	NABL Accreditation Certificate of M/s Go Green Mechanisms Pvt. Ltd. For time period when the samples were tested & analyzed in lab that is month of May 2020 is submitted.
3	PP needs to submit the replies of earlier ADS that Accreditation certificate issued to the lab from where samples were analyzed.	Accreditation certificate of the lab with Recognition M/s Go Green Mechanisms Pvt. Ltd. where six monthly EC compliance monitoring samples were analyzed and Mantec Consultants Pvt. Ltd. engaged for EIA/EMP Reports are submitted.
4	a) Supporting documents regarding claim of PP for compliance of earlier EC Conditions	Conditions observed as non-compliance by the R.O, MOEF&CC, Lucknow in Certified Compliance Report dated 24.09.2019 and as discussed during the 13 th EAC meeting. The information/ action plan as sought by the Regional Office, MoEF&CC, Lucknow is complied& the status of such conditions is as under. Reply of Earlier EC Compliance point: NOC

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	<p>EC Condition-I:The environmental clearance is subject to approval of the State Land Use Department, Government of Rajasthan for diversion of agriculture land for non-agriculture use.</p>	<p>issued by the Tehsildar, Revenue Department Government of Rajasthan vide Letter No.2020/379, dated 17.03.2020.</p> <p>The mine is being operated on mutual consent with Khatedars as per requirement of few months for required land with compensation @ Rs 70 per MT on Gypsum production quantity with backfilling of overburden and its leveling. The end land use after completion of mining is agriculture land by the Khatedars. RSMML provides plant sapling to Khatedar for development of green boundary and scattered trees in their land. Thus Gypsum Mining is an eco-friendly mining. Therefore diversion of agriculture land for non – agriculture use was not required. Land use photographs of mined out land are submitted.</p>
	<p>EC Condition-VI: Suitable conservation measure to augment ground water resources in the area shall be planned and implemented in consultation with Regional Director , CGWB &</p>	<p>Reply of Earlier EC Compliance point: As the lease area falls in arid zone, where average rainfall is around 20 to 30 cm. So conservation measures to augment groundwater resources could not be possible.</p>
	<p>EC Condition-XIII: Suitable rainwater harvesting measures on long term basis shall be planned and implemented in consultation with Regional Director, Central Ground Water Board.</p>	<p>The request letter dated 24.01.2020 was sent to Regional Office, CGWB, Jaipur department for providing suitable plan for rain water harvesting in desert area. Any suggestion /guidelines received from CGWD shall be complied by RSMML at Dhani Abdulla Wali Gypsum Mines. The copy of letter is submitted.</p>
	<p>EC Condition-XVIII: Digital processing of the entire lease area using remote sensing technique shall be carried out for monitoring land use pattern and report submitted to Ministry of Environment and Forests and its Regional Office Lucknow.</p>	<p>Reply of Earlier EC Compliance point: Digital processing of the entire lease area using remote sensing technique for monitoring land use pattern is submitted.</p>
	<p>EC Condition-IX: A</p>	<p>Reply of Earlier EC Compliance point:Separate</p>

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	<p>separate environmental management cell with suitable qualified personnel should be set-up under the control of a senior executive, who will report directly to the Head of the Organization.</p>	<p>environmental management cell with suitable qualified personnel has been set-up under the control of a senior executive.</p>
	<p>EC Condition-XIII: The project proponent shall submit six monthly report on the status of the implementation of the stipulated environmental safeguards to the Ministry of Environment and Forests and its Regional Office located at Lucknow and Central Pollution Control Board and State Pollution Control Board.</p>	<p>Reply of Earlier EC Compliance point: After inspection and issuance of certified compliance report by RO, MOEF&CC, Lucknow six monthly reports are regularly submitted at the RO, MOEF& CC, Lucknow. The six monthly report for the period from April 2020 to September 2020 as submitted at RO, MOEFG &CC, Lucknow.</p>
	<p>(b) Accreditation certificate of the lab from where samples were analyzed.</p>	<p>Accreditation certificate of the lab with Recognition of M/s Go Green Mechanisms Pvt. Ltd. where six monthly EC compliance monitoring samples were analyzed and Mantec Consultants Pvt. Ltd. engaged for EIA/EMP Reports.</p>
	<p>(c)Project Cost and calculation of CER amount.</p>	<p>A. Total Project Cost:Rs. 93 Lakh/- (Cost of Hydraulic Excavator, Tractor, Scraper, Water Tanker, Bunk House etc). B. Calculation of CER through Gram Panchayat and local villagers.</p> <p>1. Annual Cost: a. Water Sprinkling @ Rs 325/- per tanker at the rate of average 6 tanker per day for 300 days: Rs.5.85 Lakh per year. b. Plantation thorough villagers in khatedari agriculture land- Rs 50/- Thousand per year. Total (a+b):-Rs.6.35 Lakh per year.</p> <p>2. One Time Cost c. Construction of water reservoir at village Dhani Abdulla Wali: Rs 5Lakh. d. Construction of toilet at nearby village: Rs 2</p>

	Lakh, Total (c+d) : Rs 7 Lakh
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19. Details of the EMP

Activities	Capital cost (Lakhs)	Recurring cost (Lakhs/annum)
Repairing and Maintenance of haul and rural roads per year.	----	1.00
Water tanker for sprinkling on Haul road and for plantation per year.	0.00	5.00
AAQM on 6 monthly basis per year.	---	0.80
Plantation (Cost of plants, water arrangement, plantation through villagers (Labour cost) per year.	----	1.10
Environment Protection Equipment like Helmet, earmuff, goggles, safety shoes, Gloves, Mask, First Aid facilities etc. per year.	0.50	0.10
Construction of water Diggi (Pond) as demanded in Public Hearing (one time)	5.00	---
Construction of toilet at nearby village	2.00	To be maintained by Gram Panchayat.

20. Details of project cost and employment:

Particulars	Rs. In Lakh
Capital Cost for Environment Protection	on contract
Budget for addressing the Public Hearing issues	47.00 for five years period.
Cost for EMP	7.50
Recurring Cost for EMP	8.00
Project Cost	400.70
Employment	16 persons

21. Observation of the Committee: The Committee observed that the project cost is 93 Lakhs. However, the cost for diversion of land has not been added to the total project cost. EAC also observed that PP could not explain about the responsibilities of its Environmental management cell during the meeting. As per the discussion during meeting, PP vide e-mail dated 15.07.2021 submitted the revised total project cost which is as follows:

S. No.	Particulars	Cost (Lakhs)
1	Hydraulic excavator	70.00

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2	Tractor with water tanker	8.00
3	Tractor with scrapper	8.00
4	Bunk house	7.00
5	Land arrangement for mining on mutual consent basis from Khatedar for few months depending on the time taken in excavation of Gypsum @Rs. 70/- PMT on production basis	307.70
Total		400.70

PP also submitted the organization chart of Environment Management Cell with their responsibilities as an annexure. PP also submitted the land use pattern, digitally processed mine lease are with time and date using remote sensing technique as an annexure.

22. Recommendation of the Committee: After detailed deliberations made by the Project Proponent and the Consultant, the Committee during its meeting during 13th to 16th July, 2021 **recommended** the proposal for Environmental Clearance of Dhani Abdulla Wali Gypsum Mines with enhancement of production capacity from 5.0 LTPA to 6.0 LTPA (RoM) of Gypsum in the Mine lease area located near Village Dhani Abdulla Wali, Tehsil-kolayat, District Bikaner, Rajasthan by M/s Rajasthan State Mines and Minerals Limited along with the following specific conditions:

- 1) The project proponent shall submit the data on current agricultural practice and its improvement in worked out area by PP with photograph after the mineral is excavated and the land is handed over to Khatedar. Mine is in operation for last 10 years. Therefore, the data and the status of returned land and the agriculture it has produced needs to be submitted immediately and must be continued to submit every year to the Ministry. This should be certified by the competent authority who looks after agriculture.
- 2) The NOC for land use for temporary period which is currently obtained from the Tehsildar has to be obtained from minimum Additional Collector level.
- 3) The project proponent shall submit the performance report of Environment management cell every year to the Ministry.
- 4) The project proponent submitted the revised total project cost as 400.70 Lakhs after the meeting as per the EAC's directions. Accordingly, PP must address the EMP budget for Public Hearing concerns and a table needs to be prepared containing its utilization in 3 years through capital expenditure. The onsite EMP must include the EMP for controlling dust during mining, loading and transportation.

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- 5) Groundwater should be monitored (pre and post monsoon) in every 6 months to assess the change in pH after the Gypsum is removed from the working area.
- 6) EC is valid till 19.01.2030 from the date of issue of this EC letter, as lease is valid till 19.01.2030.

2.2 Proposal for Environmental Clearance of AmtipaniChirodih Bauxite Mine with the production capacity of 4.5 LTPA in the mine lease area 130.01 ha located at near Villages: Amtipani, Chirodih&Bahagara, Taluka: Bishunpur, District: Gumla, Jharkhand by M/s Minerals & Minerals Limited – [Proposal no: IA/JH/MIN/63495/2017; File No. J-11015/31/2017-IA-II (M); Consultant: JM EnviroNetPvt Ltd] - EC

1. EAC Meeting Details:

EAC meeting	33 rd EAC Meeting
Date of Meeting	13 th – 16 th July, 2021

2. Project details:

Name of the Proposal	M/s. Minerals & Minerals Limited has proposed AmtipaniChirodih Bauxite Mine (Area-130.01 ha) with production capacity of 4.5 Lac TPA (ROM)	
Location	Villages	Amtipani, Chirodih&Bahagara
	Taluka	Bishunpur
	District	Gumla
	State / UT	Jharkhand
	Latitudes	23 ^o 20' 10.801" N to 23 ^o 21' 25.361" N
	Longitudes	84 ^o 17' 6.782" E to 84 ^o 17' 41.044" E
	SoI Topo sheet No.	73A/3 and 73A/7
Company Name	M/s. Minerals & Minerals Ltd	
Accredited Consultant Organisation and its certificate no.	J.M. EnviroNet Pvt. Ltd. Accredited EIA Consultant by NABET (QCI) Certificate No: NABET/EIA/2023/RA 0186, dated 17.12.2020 & valid up to 07.02.2023	
KML file	Submitted	
Seismic zone	III	

3. Category details:

Category of the project	Category "A"
Provisions	Project or Activity 1(a)
Mining lease Area (MLA) (in ha.)	130.01

4. ToR Details

ToR Proposal No.	IA/JH/MIN/63495/2017
Online application date for Form-I	28.03.2017
EAC meeting date	28.04.2017
ToR Letter No.	J-11015/31/2017-IA.II (M)
ToR grant date	07.06.2017
Production capacity	Bauxite 4.5 Lac TPA
Soil	7.74 Lac TPA
Waste	OB/ SB/ IB (Laterite): 9.47 Lac TPA
Others	-
Total Excavation	21.71 Lac TPA
Crusher	-
EIA/EMP uploaded on	22.12.2018
Previous EAC meeting	6 th EAC meeting held during 27-28 th June, 2019

5. Lease Detail

Application for the Mining lease area and date	130.01 ha and 12.2.1983	
Letter of Intent	Letter No.	B.M.4-1047/94-2888/M Ranchi
	Date	23.11.2016
Additional information	The mining lease has been granted in favor of M/s. Minerals & Minerals Limited over an area of 130.01 ha. for Bauxite ore by Government of Jharkhand, Department of Mines, Ranchi vide letter no. B.M.-4-1047/94 59/M, Ranchi dated 10.01.2017 for period of 50 years. The lease deed has been signed and registered for 50 years by the Dy. Commissioner, Gumla and the lessee, M/s. Minerals and Minerals on 11.01.2017.	

6. Mining plan

Mining Plan(approved by Indian Bureau of Mines/DMG)	Letter No.	RAN/GML/BX/MP-04/2017-18
	Date	26.05.2017
Mining Parameters	Quantitative Description	
Bench Height	In Soil: 0.60 m to 4.55 m In Laterite: 0.50 m to 6 m In Bauxite: 1.10 m to 3 m	
Bench Width	6 m	
Method of Mining	Mechanized Opencast Method	
Individual bench slope	45 degree	
Overall pit slope	45 degree	
Drilling/Blasting	➤ The overburden, ranging from 0.5 m to 6 m in thickness,	

	<p>and consisting of murrum and laterite, is not soft enough to be directly excavated.</p> <ul style="list-style-type: none"> ➤ The harder murrum and laterite are drilled by using 100 mm diameter drills and blasted, before removing. The wagon drill with compressed air drill will be used for drilling the hole. ➤ The bauxite bench height is a maximum of 3.0 m are drilled by using 100 mm dia drills and blasted, before removing <p>Blasting Parameters</p> <table border="1"> <thead> <tr> <th>S. No.</th> <th>Parameter</th> <th>Details</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Bench Height</td> <td>3 meters</td> </tr> <tr> <td>2.</td> <td>Burden</td> <td>3 meters</td> </tr> <tr> <td>3.</td> <td>Spacing</td> <td>3.5 meters</td> </tr> <tr> <td>4.</td> <td>Depth of Hole</td> <td>3.3 meters</td> </tr> <tr> <td>5.</td> <td>Volume</td> <td>3.3m × 3m × 3.5 m = 34.65 Cum</td> </tr> <tr> <td>6.</td> <td>Specific Gravity</td> <td>2.6</td> </tr> <tr> <td>7.</td> <td>Tonnage per Hole</td> <td>90 Ton</td> </tr> <tr> <td>8.</td> <td>Powder factor</td> <td>7 ton per kg</td> </tr> <tr> <td>9.</td> <td>Explosives</td> <td>156 kg of slurry explosives (12 holes)</td> </tr> <tr> <td>10.</td> <td>Charge/hole</td> <td>13 kg</td> </tr> <tr> <td>11.</td> <td>Method of blasting</td> <td>1 row of 13 holes in one round</td> </tr> <tr> <td>12.</td> <td>Numbers of holes per day</td> <td>1049/90= 11.6</td> </tr> </tbody> </table>	S. No.	Parameter	Details	1.	Bench Height	3 meters	2.	Burden	3 meters	3.	Spacing	3.5 meters	4.	Depth of Hole	3.3 meters	5.	Volume	3.3m × 3m × 3.5 m = 34.65 Cum	6.	Specific Gravity	2.6	7.	Tonnage per Hole	90 Ton	8.	Powder factor	7 ton per kg	9.	Explosives	156 kg of slurry explosives (12 holes)	10.	Charge/hole	13 kg	11.	Method of blasting	1 row of 13 holes in one round	12.	Numbers of holes per day	1049/90= 11.6
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12.	Numbers of holes per day	1049/90= 11.6																																						
RoM output size	(2-8) inch																																							
Transportation details	Transportation of bauxite from working face to railway siding at Richughuta/Tori/Lohardagawill be carried out by 9 tonner capacity trucks and from railway siding, bauxite will be transported to alumina refineries situated at Renukoot in Sonbhadra District of U.P and Muri in Jharkhand andRenukoot in Sonbhadra District of U.P.																																							
Dumpers capacity	9 tonnes																																							

7. Land Area Breakup

Private land	123.59 Ha
Government land	6.42 Ha
Total Mining lease area (MLA)	130.01
Private land for crusher, workshop & other infrastructure outside the	Nil

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

Particulars	Particular's Name	Distance & Direction
Nearest Village	Chirodih	South
Nearest Town/ City	Gumla	~42 km in SE direction
Nearest Highway	SH- 9	~5.5 km in West direction
Nearest Railway Station	Lohardaga	~45 km in ENE direction
Water Bodies	AmbakonaNala, DharahariNala, ParasghariNala, ChappikonaNala, BeltarlaNala, NarmaNala, North Koel River, SankhNala, BelwarNala, Sankh River exist within study area.	

9. Water requirement:

Total water requirement	30 KLD	Fresh water	30 KLD
		Treated water	-
Source	Rain water harvested in nearby mines as well as in mine sump (as & when developed)		
Permission	Not Required		

10. Presence of Environmentally Sensitive areas in the study area

Forest Land/Protected Area/Environmental Sensitivity Zone	Yes/No	Details of Certificate/letter/Remarks
Forest Land	No	There is no forest land within mining lease area. NOC for the same has been obtained from PCCF and Chief Wildlife Warden vide letter no. 889 dated 07.06.2021. Palamau Wildlife Sanctuary is located at an aerial distance of about 8.09 km and Mahuadanr Wolf sanctuary is about 10.672 km from mine site as per letter no 1096 dated 01.10.2018 of Deputy Director, Palamau Tiger Project, South Division. Authenticated location map has also been received from Deputy Director, Palamau Tiger Project South Division signed on 12.03.2019.
National park	No	
Wildlife Sanctuary & Forest	No	

Schedule-1 species	Yes/No	Details of Certificate/letter/Remarks
Schedule-I species	Yes	There are 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</i>

		<i>molurus</i>), Monitor lizard (<i>Varanus monitor</i>), Indian Pea Fowl (<i>Pavocristatus</i>).
Wildlife Conservation Plan	Yes	<ul style="list-style-type: none"> ➤ Site specific wildlife conservation plan has been prepared by Shri Pradeep Kumar, IFS, Ex PCCF, Wildlife & Chief Wildlife Warden, Jharkhand & Ex Chairman, Jharkhand Biodiversity Board. ➤ An amount of Rs. 200 Lakh has been earmarked for the conservation of wildlife and same has been approved by Principal Chief Conservator of Forests, Wildlife and Chief Wildlife Warden vide letter no 1015 dated 11.06.2018.

11. Green belt/Plantation details:

Proposed area for green belt/plantation	<ul style="list-style-type: none"> ➤ Green belt development will be done on 7.15 ha along 7.5m barrier zone around lease boundary and on safety zone along the road. ➤ 73.93 ha area backfilled and reclaimed area will be returned back to the villagers for cultivation
Budget for green plant& plantation till the end of life of mine.	<ul style="list-style-type: none"> ➤ Capital Cost: Rs. 46.0 Lakh ➤ Recurring cost: Rs. 6.0 Lakh

Particulars for Green belt/plantation	Area covered (in Ha)
7.5 m barrier & non-mineralized zone	5.95
50 m safety zone of nallah, roads, electric lines	1.20
500 m safety zones of nearest habitation villages	-
Additional information (if any)	73.93 ha area backfilled and reclaimed area will be returned back to the villagers for cultivation

12. Baseline details:

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

13. Public Hearing (PH) Details

Advertisement for PH with date	21 st June, 2018 (“PrabhatKhabar& Hindustan Times”)
Date of PH	22 nd July, 2018 at 11:00 AM
Venue	Village-Banari, Block Bishunpur, District: Gumla (Jharkhand)
Chaired by	I. Mr. Mustakeem Ansari, Director Accounts Administration & Self Employment Programme.

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	II. Shri R.N Kashyap, Regional Officer, Ranchi
Main issues raised during PH	Major issues raised during the public hearing were about on education, health and drinking water facilities, Infrastructure facility, Electricity, Employment, land compensation, use of reclaimed land, Environment pollution and transportation issues etc.
Budget proposed for addressing issues raised during PH	Earlier, budget of Rs. 66.75 Lakh were earmarked which has been now increased as Rs 111.50 Lakhs for addressing the issues raised during public hearing.

14. Court case details

Court Case	No
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15. Affidavit/Undertaking details

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

Point	ADS Points	Reply
1.	The responses prepared for public hearing issues are generic. PP needs to submit the revised responses with timeline for achieving/overcoming the issues and associated year wise budget details.	Public Hearing for the project was held on 22/07/2018 at 11:00 am at Village- Banari, Block Bishunpur, District: Gumla (Jharkhand). Major issues raised during the public hearing were about on education, health and drinking water facilities, Infrastructure facility, Electricity, Employment, land compensation, use of reclaimed land, Environment pollution and transportation issues etc. Earlier, budget of Rs. 66.75 Lakh were earmarked which has been now increased as Rs 111.50 Lakhs for addressing the issues raised during public hearing. As per MoEF&CC OM dated 30.09.2020 & 20.10.2020, the company has considered this budget under EMP in place of Corporate Environment Responsibility. Detailed breakup of budget earmarked for issues raised during public hearing has been submitted with ADS Reply.
2.	The conservation plans for wildlife	Site specific wildlife conservation plan has

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	was found not satisfactory. PP is required to revise the wildlife conservation plan with special emphasis on monitoring mechanism which is going to be implemented.	been prepared for the project with budgetary allocation of Rs. 200 Lakh and same has been approved by Principal Chief Conservator of Forests, Wildlife and Chief Wildlife Warden vide letter no 1015 dated 11.06.2018. Clarification has also received from Shri Pradeep Kumar, IFS, Ex PCCF, Wildlife & Chief Wildlife Warden, Jharkhand & Ex Chairman, Jharkhand Biodiversity Board. As per their letter, wildlife conservation plan has been prepared as per guidelines issued by the PCCF & Chief Wildlife Warden
3.	PP submitted that the bauxite zone found within the matrix of laterite, so the PP proposed to carry out the mining of laterite as well. Thus, the committee asked the PP to submit the details of quantity of Laterite extraction as well as their impact on the environment. Furthermore, the details of total excavation and the usage of Laterite should also be included in the report. Furthermore, the mineralogical analysis for laterite mineral should be submitted from the IBM.	This mining lease is granted by State Govt for captive consumption for bauxite mining only. Hence laterite will be excavated as overburden only. Initially, during the first year, the excavated hard OB and quarry waste shall be temporarily dumped separately on the non-mineralized area. From 2nd year onwards all excavated overburdens shall be used for concurrent back filling & soil will be used for reclamation by spreading. Details of total excavation along with analysis report of laterite were submitted with ADS Reply.
4.	PP reported that no forest land in the mine lease area and submitted the letter from Circle Officer, Bishunpur. However, the committee is of the view that circle officer not a responsible for providing the no forest land certificate. PP needs to submit certificate from the Competent Authority (PCCF and Chief Wildlife Warden) and the certificate should mention the name, designation, official seal of the person signing the certificate and letter number.	There is no forest land within mining lease area. NOC for the same has been obtained from PCCF and Chief Wildlife Warden vide letter no 889 dated 07.06.2021
5.	PP submitted that the total lease area granted by the State Government is 321.26 ha, out of	Total actual Mining lease area is 321.26 Acre equivalent to 130.01 ha (1 Ha = 2.471 Acre). Both are same. Out of 130.01 ha,

	which 130.01 ha is the total mining lease area for this current proposal. PP needs to submit the land use details for complete lease area (321.26 – 130.01 = 191.25 ha).	6.42 ha is GM Land and 123.59 ha is Raiyati Land																			
6.	The environmental impact analysis on the total excavation is not properly addressed in the EIA report. PP needs to submit the details of total excavation and also redo the analysis	<p>Environmental impact analysis has been done considering total excavation given below:</p> <table border="1"> <thead> <tr> <th>S. No</th> <th>Particular</th> <th>Details (Lac TPA)</th> </tr> </thead> <tbody> <tr> <td rowspan="3">1.</td> <td>Bauxite</td> <td>3.10</td> </tr> <tr> <td>Quarry waste</td> <td>1.40</td> </tr> <tr> <td>Total</td> <td>4.50</td> </tr> <tr> <td>2.</td> <td>OB/ SB/ IB (Laterite)</td> <td>9.47</td> </tr> <tr> <td>3.</td> <td>Soil</td> <td>7.74</td> </tr> <tr> <td></td> <td>Total Excavation</td> <td>21.71</td> </tr> </tbody> </table>	S. No	Particular	Details (Lac TPA)	1.	Bauxite	3.10	Quarry waste	1.40	Total	4.50	2.	OB/ SB/ IB (Laterite)	9.47	3.	Soil	7.74		Total Excavation	21.71
S. No	Particular	Details (Lac TPA)																			
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	Total Excavation	21.71																			
7	The funds allocated for CER is not as per the OM F. No. 22-65/2017-IA.III dated 1st May 2018. So, the EIA report needs to be revised in terms of the CER and EMP.	As per MoEF&CC OM dated 30.09.2020 & 20.10.2020, the company has considered this budget under EMP in place of Corporate Environment Responsibility. Budget for Issues raised during public hearing has been updated and breakup of same along with breakup of EMP budget with activity wise has been submitted with ADS Reply.																			
8.	PP submitted village Road is passing through the mine lease area and mentioned that the road will be diverted, and alternative routes will made for accessing by the village people. PP needs to submit the plans with budgetary provision and safety procedure for the alternative route	A village road (Kutchha Road) is passing in the middle throughout the Mining lease area in the middle from south to north. (Length 1.2 km & width 3.0 to 5.0 m). Before commencement of Mining operations this existing road will be diverted along the eastern boundary of the mining lease. The width of the road is kept 15.5 m including 1.75 m shoulder and drainage system on either side. The proposed road has a width of 12m. Total width including shoulder of 1.75 m both side comes to 15.5 m. The proposed width of 12m is divided into two parts each of 5.5 m carriage way and in between 1.0 m is kept as divider. One part of the road will be used by the Villagers whereas the other will be used for mining																			

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		transportation. Total budgetary allocation will be approx. Rs. 3.0 Crores. Detailed Report for Road diversion has been submitted with ADS Reply.
9.	PP mentioned that water required will be fulfilled from the nearby mines and the details are not provided, so the same needs to be provided.	Total water requirement for this project will be 30 KLD (8850 cum per annum considering 295 working days in a year) which will be met initially in first year by the nearby mines i.e.Kujam-I &Kujam-II through water tankers. Two nos of rain water harvested ponds with size of 200 m X 150 m (1.2 lac cum) and 250 m X 200 m (2.0 lac cum) have already constructed.Total balance water available in Kujam -I &Kujam -II after fulfillment of their own demand comes to 2293 + 7137 = 9430 cum.The mined out areas in AmtipaniChirodih mine in the 1st year will be converted into rain water harvesting pond to cater the water requirement from 2nd year onwards.The report of Water Management system and Rainwater Recharge pit has been submitted with ADS Reply.
10.	PP submitted that there will be significant cumulative effect on transport and infrastructure due to transportation of minerals, excavation and waste dumping from the mines in the region. The committee asked the PP to submit the details of nearby mines using common transport infrastructure. PP also required to submit adequacy of transport infrastructure.	Presently, this road is being used by our two mines namely Kujam-I (80.87 ha) and Kujam-II (157.38 ha) Bauxite mines which are almost 8km & 2km away from this lease area. The Kujam I mine has capacity of 1.5 0 lakh/ annum quantity with daily average 50 numbers of trucks.TheKujam II mine has capacity of 3.0 lakh/ annum quantity with daily average 100 numbers of trucks. Detailed reply has been submitted with ADS Reply.
11.	PP submitted that land use pattern of the project area which are not matching with the claimed total mine lease area. PP needs to submit the clarification for the same.	Total Mining lease area is 130.01 ha. Total excavated area at the conceptual stage will be 77 ha area in which 3.07 ha area will be converted into water reservoir and 73.93 ha excavated area will be returned back to farmers for agriculture. 2.60 ha area will be under road and 0.50 ha area will be under built up. 7.15 ha area will be converted into greenbelt and plantation and 42.68 ha area will be undisturbed.

12.	PP submitted the flow chart of environmental management cell; however, the committee noted that there is no individual person with assign responsibility for environmental monitoring and measurement. PP needs to submit the revised plans.	The total manpower required for the proposed mining project will be around 200 persons including Departmental (Skilled) and Contractual (Skilled, Semi-skilled & Unskilled staff) in which 20 persons have been appointed for Environment protection measures. The team will ensure compliance of Environment Act, Regulation & Rule in respect of the said mine of Minerals & Minerals Limited. EMC structure along with responsibility has been submitted with ADS Reply.
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17. Details of the EMP

S. No.	Particulars	Earlier Budget (Rs. In Crore)	Revised Budget (Rs. In Crore)
1.	Cost for Environment Protection	0.25	1.81
	Budget for addressing the Public Hearing issues	0.67	1.11
	Total Capital Cost for EMP	0.92	2.77
2.	Recurring Cost for EMP	0.05	0.60

18. Details of project cost and employment:

Particulars	Budget (Rs. In Crore)
Capital Cost for Environment Protection	1.81
Budget for addressing the Public Hearing issues	1.11
Total Cost for EMP	2.77
Recurring Cost for EMP	0.60
Project Cost	34.50
Employment	200 persons

19. Observation of the Committee: During the presentation, PP submitted about the transportation of minerals and the road alignment that they are proposing since a road is passing through the mine lease area. The Committee observed that road alignment shown in the presentation is a risk prone with distance covering 3.6 Km. PP also submitted during the presentation that after one year of mining, PP will re-align the road using the advantage of backfilled area. Therefore, PP submitted vide e-mail dated 14.07.2021 the re-aligned the proposed road diversion diagram which is risk free. PP proposed the 2.35 Km long diverted road for initial three years and 2.43 Km long diverted land after three years. It was also noted that there is a traffic of villagers at NW of the mine intersecting many roads. It is also noted that out of 21.71 LTPA of total excavation,

only 3.10 LTPA of Bauxite is being taken out for dispatch. PP also submitted that there are another 2 mines of the same project proponent in the vicinity of this mine lease.

20. Recommendation of the Committee: After detailed deliberations made by the Project Proponent and the Consultant, the Committee during its meeting during 13th to 16th July, 2021 **recommended** the proposal for Environmental Clearance of Amtipani Chirodih Bauxite Mine with the production capacity of 4.5 LTPA in the mine lease area 130.01 ha located at near Villages: Amtipani, Chirodih & Bahagara, Taluka: Bishunpur, District: Gumla, Jharkhand by M/s Minerals & Minerals Limited along with the following specific conditions:

- 1) As per the submission of the PP after the meeting, two alignments have been proposed for the diversion of the road. Alignment 1 will be used for first three years and will have a protection from the mining area. PP will only do controlled primary blasting to remove Laterite and monitor the vibration and noise at a distance of 100 m towards the road side to assess any impact of mining. The Alignment 2 will be used after 3 years in the mined out and backfilled area with proper care for subsidence, contraction and road safety as it has been practiced by same in its other mines.
- 2) The road will be divided in two parts. Total width will be 12 m with 1 m median. One half of the road will be exclusively dedicated for the movement of villagers whereas other half will be used for mining operation.
- 3) PP will also submit the cost benefit analysis looking at the reserves and the total excavation proposed which includes 9.47 LTPA of OB/SB/IB (Laterite), 7.74 LTPA of soil and 1.4 LTPA of quarry waste, leaving only 3.10 of Bauxite market grade out of 21.71 LTPA of total excavation.
- 4) There is traffic of villagers at NW direction of the mine intersecting many roads. PP should come out with the clear statement of impact on this transport and traffic due to this mine quantifying the social impact on the utilization of road by villagers due to operation of mine.
- 5) At the time of revision of mining plan, PP shall submit the action taken as per the mine closure plan of the previous plan after every 5 years.
- 6) Robust integrated Wildlife Conservation Plan should be prepared for this mine along with other two mines present in the vicinity of this mine.

2.3 Proposal for Amendment in ToR w.r.t exemption of public hearing in light of the Ministry's latest Office Memorandum ref no: 22-4/2020-IA.III dated 16.02.2021 of revalidation of EC as per MoEF&CC Notification dated 06.04.2018 for Amtipani Bauxite Mine (MLA- 190.95 ha) with production capacity of Bauxite 150000 TPA located near Villages: Amtipani, Chirodih, Gurdari, Taluka: Bishunpur, District: Gumla, Jharkhand by M/s Hindalco Industries Limited – [Proposal no: IA/JH/MIN/217494/2021; File No. J-11015/241/2005-IA.II (M); Consultant: JM EnviroNetPvt Ltd] –Amendment in ToR

1. EAC Meeting Details:

EAC meeting	33 rd EAC Meeting
Date of Meeting	13 th – 16 th July, 2021

2. Project details:

Name of the Project	Amendment in ToR w.r.t exemption of Public hearing in light of the Ministry's Office Memorandum ref no: 22-4/2020-IA.III dated 16 th February 2021 for Amtipani Bauxite Mine (Area-190.95 ha) with Production Capacity of Bauxite 150000 TPA	
Location	Villages	Amtipani, Chirodih, Gurdari
	Taluka	Bishunpur
	District	Gumla
	State / UT	Jharkhand
	Latitudes	23°21'38.12"N to 23°19'8.99"N
	Longitudes	84°15'18.06"E to 84°15'59.66"E
	SolTopo sheet No.	73A/3, 73 A/4, 73A/7 & 73 A/8
Company Name	M/s. Hindalco Industries Ltd.	
Accredited Consultant Organisation and its certificate no.	J.M. EnviroNet Pvt. Ltd. Accredited EIA Consultant by NABET (QCI) Certificate No: NABET/EIA/2023/RA 0186, dated 17.12.2020 & valid up to 07.02.2023	
KML file	Submitted	
Seismic zone	III	

3. Category details:

Category of the project	Category "A"
Provisions	Project or Activity 1(a)
Mining lease Area (MLA) (in ha.)	190.95

4. ToR Details:

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ToR Proposal No.	IA/JH/MIN/80511/2018
Online application date for Form-I	27.09.2018
EAC meeting date	16 th EAC meeting held during 9-11 th Dec., 2020
ToR Letter No.	J-11015/241/2005-IA.II (M)
ToR grant Date	28.12.2020
Production capacity	Bauxite 150000 TPA
Soil	Top Soil&Murrum325868 TPA
Waste	Lateritic OB and waste: 273528 TPA
Others	-
Total Excavation	749396
Crusher	-
Previous EC details	Environment Clearance for 0.15 million TPA production capacity in favor of M/s. Indian Aluminium Company Ltd was granted by MoEFCC on 14.08.2006 under EIA Notification, 1994.
Reason of Amendment	Exemption of public hearing as per MoEF& CC OM No. 22-4/2020 –IA.III dated 16.02.2021

5. Observation and Recommendation of the Committee: After detailed deliberations made by the Project Proponent and the Consultant, the Committee during its meeting during 13th to 16th July, 2021 **recommended** the proposal for Amendment in Terms of Reference for public consultation in place of fresh public hearing with reference to MoEF&CC O.M. No. 22-4/2020 –IA.III dated 16.02.2021 for Amtipani Bauxite Mine (MLA- 190.95 ha) applied for revalidation of EC as per MoEF&CC Notification dated 06.04.2018 with production capacity of Bauxite 150000 TPA located near Villages: Amtipani, Chirodih, Gurdari, Taluka: Bishunpur, District: Gumla, Jharkhand by M/s Hindalco Industries Limited.

2.4 Proposal for Terms of Reference of Shri Rekh chand Jain for Chhote Kadma Limestone Mine (MLA 2.80 Ha) with production of 20500.05 TPA at Village- Chhote Kadma, Tehsil- Darbha (Jagdalpur), DistrictBastar, Chhattisgarh – [Proposal No: IA/CG/MIN/209114/2021, File No. J-11015/35/2021-IA-II(M), Consultant: P and M Solution] - Terms of Reference (Violation)

EAC Meeting Details:

EAC meeting	33 rd
Date of Meeting	13 th to 16 th July, 2021

The proposal of Shri Rekh chand Jain is for grant of Terms of Reference for Chhote Kadma Limestone Mine (MLA 2.80 Ha) with production of 20500.05 TPA at Village- Chhote Kadma, Tahsil- Darbha (Jagdalpur), DistrictBastar, Chhattisgarh. The

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mine lease area is located between Latitude 18°57'52.30547"N to 18°58'21.38681"N and Longitude 81°50'56.22542"E to 81°51'11.172849"E. The mine lease area falls under the Survey of India Topo Sheet no: 65F/13 and falls in seismic zone – II. The PP presented the KML file during the presentation to indicate the location of mine lease on Google Earth/ DSS.

2. Shri Rekh chand Jain has made an online application vide proposal no. IA/CG/MIN/209114/2021 dated 14.04.2021 and submitted Form-1 and Prefeasibility report under the provisions of the EIA Notification, 2006 for the project mentioned above. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals under Category "A" of the schedule of the EIA Notification, 2006 as the project attracts general condition as mining lease area located at distance of approx. 4.14 km, SE from Kanger valley National Park and appraised at Central level.

3. Lease Detail

S.no	Grant of mine lease	Date of the grant	Name of the Mineral	Period of Grant	Granted by	Mine lease area in Ha
1	F-2-385/96/12, Raipur	17.05.2002	Limestone	20 years	Govt. of Chhattisgarh	2.80

4. Details of executed Mine leases

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

5. The Project Proponent submitted that this is a case of violation as the mine lease continue to operate without obtaining Environmental Clearance. PP submitted the past production details duly authenticated by Office of the Collector, Department of Mining vide Lr 1422/Khanij/kha.Li.4/Khanipatta/2021, Jagdalpur, dated 16.06.2021 for the period from 01.07.2002 -31.12.2002 to 01.01.2021-16.06.2021. PP also submitted the Affidavit in a non-judicial stamp paper of Rs 100 bearing L 161936 dated 10.06.2021 that 'I shall comply with all the statutory requirement & judgment of Hon'ble Supreme Court dated 2nd August 2017 in writ Petition (civil) No. 114 of 2014 in the matter of common cause versus Union of India & Ors'.

6. The proposal for Terms of Reference was considered in the 33rd EAC meeting held during 13th to 16th July, 2021. The Committee opined that SOP dated 7.07.2021 was issued by the Ministry for identification and handling of violation cases under EIA, 2006

has been stayed by the Madurai bench of Hon'ble High Court of Madras vide order dated 15.07.2021.

7. The Committee noted that the instant proposal is located at a distance of 4.14 km, SE from Kanger Valley National Park which is notified by Ministry's Notification S.O 3653(E) dated 10.10.2019. The Committee also observed that the PP made presentation using KML file for showing the location of Kanger Valley National Park by drawing the boundary of the Eco Sensitive Zone (ESZ) and informed that the mine lease area is located 2.8km, NW away from the Eco Sensitive Zone (ESZ). Therefore, the Committee was of the view that the submission made by the PP needs to be authenticated by the Competent Authority in the State along with the authenticated location map and the same was agreed by PP and therefore the Committee returned the proposal in present form and asked Ministry to take action against Project Proponent under E(P)A,1986.

2.5 Proposal for Terms of Reference of M/s GM Iron & Steel Company Ltd for Iron Ore mine [ML Area: 128.427 Ha (as per DGPS) / 129.61 Ha (as per ROR)] for Production of 1.137 MTPA Iron Ore (ROM), OB/Waste Handling of 1.573 MTPA with Maximum Excavation of 2.710 MTPA at Village: Dhangudimuta & Badampahar RF, Tehsil Kusumi, District Mayurbhanj, Odisha — [Proposal No: IA/OR/MIN/209850/2021, File No. J-11015/38/2021-IA-II(M), Consultant: Visiontek Consultancy Services Pvt. Ltd] - Terms of Reference (Auction mine)

EAC Meeting Details:

EAC meeting	33 rd
Date of Meeting	13 th to 16 th July, 2021

The proposal of M/s GM Iron & Steel Company Ltd is for grant of Terms of Reference for Iron Ore mine [ML Area: 128.427 Ha (as per DGPS) / 129.61 Ha (as per ROR)] for Production of 1.137 MTPA Iron Ore (ROM), OB/Waste Handling of 1.573 MTPA with Maximum Excavation of 2.710 MTPA at Village: Dhangudimuta & Badampahar RF, Tehsil Kusumi, District Mayurbhanj, Odisha. The mine lease area is located between Latitude: 22°03'52.4"N to 22°05'09.2"N and Longitude: 86°06'33.9"E to 86°08'24.8"E. The mine lease area falls under the Survey of India Toposheet No 73J/4 and falls in Seismic Zone – II.

2. M/s GM Iron & Steel Company Ltd has made an online application vide proposal no. IA/OR/MIN/209850/2021 dated 23.04.2021 and submitted Form-1 and Prefeasibility report under the provisions of the EIA Notification, 2006 for the project mentioned above. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals

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

3. The proposal for Terms of Reference was considered in the 33rd EAC meeting held during 13th to 16th July, 2021. The Project Proponent did not attend the meeting. However, EAC deliberated the proposal based on the documents and information submitted by the PP on the Parivesh portal and **deferred** the proposal for want of the following information:

- i. The Project Proponent needs to submit the details of mineralized zone available in the total mining lease area of forest land.
- ii. The Project Proponent should bring out the material balance, mass balance, equipment flow sheet and mineral processing with flow charts.
- iii. The Project Proponent needs to submit the copy of the Vesting Order, Letter of Intent, Grant of mining lease and lease deed execution.
- iv. The Project Proponent also needs to submit the copy of the previous Environmental Clearance, Forest Clearance and NBWL Clearance obtained by the previous lessee.

2.6 Proposal for Amendment in Terms of Reference Jajang Iron Ore mine of M/s JSW Steel Ltd. for production of 12.80 million TPA (ROM) of Iron ore with Total excavation of 27.47 MTPA (ROM 12.80 MTPA + (OB/IB/SB) 14.67 MTPA) with screening, crushing and inclusion of 1500 TPH CPU and 45 MTPA Grinding & de-sliming/ Beneficiation Plant along with 30 MTPA slurry Transportation system in lease area of 669.078 Ha (as per DGPS Survey)/666.150 Ha (as per ROR) land in villages Jajang, Jadibahal, Palsa (Ka), Bandhuabeda, Tehsil Barbil, District Keonjhar, Odisha — [Proposal No: IA/OR/MIN/210521/2021, File No. J-11015/57/2020-IA-II(M), Consultant: Vimta Labs Ltd.,] - Amendment in Terms of Reference

EAC Meeting Details:-

EAC meeting	33 rd
Date of Meeting	13 th to 16 th July, 2021

The proposal of M/s JSW Steel Ltd. is for amendment in Terms of Reference Jajang Iron Ore mine for production of 12.80 million TPA (ROM) of Iron ore with Total excavation of 27.47 MTPA (ROM 12.80 MTPA + (OB/IB/SB) 14.67 MTPA) with screening, crushing and inclusion of 1500 TPH CPU and 45 MTPA Grinding & de-sliming/ Beneficiation Plant along with 30 MTPA slurry Transportation system in lease

area of 669.078 Ha (as per DGPS Survey)/666.150 Ha (as per ROR) land in villages Jajang, Jadibahal, Palsa (Ka), Bandhuabeda, Tehsil Barbil, District Keonjhar, Odisha. The mine lease area is located between Latitude 21°54'44.23926" N to 21°56'33.49374" N and Longitude 85°24'49.65672" E to 85°26'50.70226" E. The mine lease area falls under the Survey of India Toposheet no: 73 F/8, F/12, G/5 & G/9 and falls in Seismic Zone-II.

2. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals and 2(b) Mineral Beneficiation under Category "A" of the schedule of the EIA Notification, 2006 as the mining lease area is greater than 100 ha and appraised at Central level.

3. M/s JSW Steel Ltd has made an online application vide proposal no. IA/OR/MIN/210521/2021 dated 06.07.2021 and submitted Form-3 for amendment in TOR under the provisions of the EIA Notification, 2006.

4. The proposal for amendment in Terms of Reference was considered in the 33rd EAC meeting held during 13th to 16th July, 2021. The Committee noted that the Ministry accorded Terms of Reference vide Lr J-11015/57/2020-IA-II(M) dated 05.02.2021 for production of 12.80 million TPA (ROM) of Iron ore with maximum waste of 28.589 MTPA (OB/IB/SB) along with screening, crushing under project activity 1(a): *Mining of Minerals*. Now, the Project Proponent applied for amendment in Terms of Reference for including another project activity of 2(b): *Mineral Beneficiation* as mentioned above. The Committee was of the view that the instant proposal cannot be considered further as there is a change in the scope of previous proposal due to addition of another activity. Therefore, the Committee **returned the proposal in present form** and was of the view that the Project Proponent shall apply for fresh Terms of Reference including 1(a) Mining of Minerals and 2(b) Mineral Beneficiation as per the EIA Notification 2006 and its subsequent amendments.

Day 3: 15.07.2021 (Thursday)

3.1 Proposal for Terms of Reference of M/s Paras Stone Crusher for Extraction of Sand, Stone & Bajiri with production capacity of 37,120 TPA in the mine lease area of 2.17.54 ha at Khasra number 760 (Government land) falling in Mauza & MohalPalchan, Solang of Tehsil-Manali, Kullu, Himachal Pradesh – [L-11011/30/2021-IA.II(M)]- In compliance of the Hon'ble Supreme Court Order dated 10.02.2021-regarding.

EAC Meeting Details:

EAC meeting	33 rd
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Date of Meeting	13 th to 16 th July, 2021
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The proposal is for Mining of Sand, Stone & Bajri from Sarai Nala with production capacity of 37,120 TPA in the mine lease area of 2.17.54 ha at Khasra number 760 (Government land) falling in Mauza & MohalPalchan, Solang of Tehsil-Manali, Kullu, Himachal Pradesh. The mine lease area located between Latitude 32°18' 37.8" N and Longitude 77° 10'14.8" E and falls in Seismic Zone-V. The project is classified as 'B' Category proposal as per the EIA Notification 2006 and its subsequent amendments thereof. The PP presented the KML file during the presentation to indicate the location of mine lease on Google Earth/ DSS.

2. PP informed that by way of the application filed before the Hon'ble Supreme Court, the PP i.e applicant prayed that (i) allow this Application and permit the Applicant to intervene in the matter of I.A. No. 3840 of 2014 (disposed of) titled *Silviculture Felling of Trees in the State of Himachal Pradesh* in the WP (C) No.202/1995 titled as '*In Re: T N Godavarman Thin1mulpad vs.Union of India and Ors.* in the interest of justice; and (ii) Issuance of directions permitting the Applicant to collect naturally occurring stones and boulders present at the proposed site in accordance with the prescribed rules and regulations in order to carry out stone crushing activities.

3. Thereafter, the matter was heard by the Hon'ble Supreme Court wherein, vide order dated 10.02.2021 directed that:-

It is well known that the presence of stones have a direct effect on the force of water that flows in the rivers. We find it, therefore, imperative that the MOEF must make an environmental impact assessment of the proposal and specifically form an opinion about whether the permission, if granted, will have any adverse impact on the environment not only immediately but in the long run. The cost of the EIA will be borne by the applicant.

4. Accordingly OM dated 01.03.2021 received from the FC Division wherein order passed by the Hon'ble Supreme Court of India in I.A Nos. 28705/2020 In W.P. No. 202/1995 in the matter of T.N Godavarman Thriumulpad Versus Union of India was forwarded for to IA NCM Division for necessary action.

5. In compliance of the order dated 10.02.2021; Ministry vide letter no L-11011/30/2021-IA.II(M) dated 18th May, 2021 requested the PP to submit the complete details of the proposal to the Ministry, along with all supporting documents along with the FORM-I in accordance to the provision of EIA Notification, 2006. PP submitted the details through email dated 01.06.2021. Thereafter matter was examined in Ministry, wherein it was decided to prescribe ToR for undertaking the EIA study to be carried out

from an institute having capability to undertake such study and seek their willingness as well as timelines and expected cost and then Ministry may ask petitioner to deposit the cost with the institute and to conduct the study within given time frame. The proposal was then placed as special agenda in the 33rd EAC meeting held during 13th to 16th July, 2021.

6. The Project Proponent submitted that earlier Environmental Clearance was granted by the SEIAA, Himachal Pradesh vide F. No HP SEIAA/2019/610 dated 24.04.2019 for a production of 37,120 TPA.

7. The Project Proponent submitted that the lease area is situated in the Sarai Nala locally called Pagal Nala, a primary tributary of Beas River and mined out material from an area will get replenished gradually during succeeding rainy season. Mining operations will be carried out manually. Minerals extracted will be loaded directly into tractor trolleys. As per Mining plan no silt & clay will be generated. PP submitted the Cluster Certificate issued by the Mining Officer vide Lr no 648 dated 21.09.2015 that there are no other mining leases within 500m radius of the periphery of the lease area. About 0.57 KLD will be required dust suppression purpose and for domestic purpose.

8. The Project Proponent submitted that Manali Wildlife sanctuary is located at a distance of 6.33 Km in SW direction from the mining lease area. PP submitted the forest clearance granted by the Ministry vide Lr No 8B/HPB/09/37/2016/1658 dated 12.11.2018 for diversion of 2.1754 ha. Nearest Reserve Forest is Patalsu PF (3 km, N) and nearest water body is Beas River (0.5 km, W).

9. The EAC (Non-Coal) during the 33rd EAC meeting held during 13th to 16th July, 2021, deliberated as per the direction of Hon'ble Supreme Court order dated 10.02.2021 with a focus on presence of stones have a direct effect on the force of water that flows in the rivers. The EAC **recommended** that the specific study (Environmental Impact Assessment) shall be carried out by the any agencies such as National Institute of Hydrology, Roorkee, Indian Institute of Technology, Roorkee and the Central Water and Power Research Station (CWPRS), Pune. Committee prescribed specific ToR for the scientific study (Environmental Impact Assessment) to meet the requirement of Hon'ble Supreme Court order dated 10.02.2021 as follows:

- i. Existing status of hydraulic flow in the river and the flood plains highest attained in the last 100 years.
- ii. Variation in MSL in drought conditions and its impact after removal of Sand, Stone & Bajri in the given area of 2.17.54 ha and quantifying the impact through properly calibrated and validated models.

- iii. The impact on climate change including floods & drought scenario should also be brought out in the study.
- iv. Validation shall be done in similar cases wherever it is applicable. The agency must specify in its study whether there will be change in course of water after the excavation. Impact of downstream in terms of change in flow and ecology of the river.
- v. The sustainability of such impact predicted should also be assessed for the entire operation of mine till its life.
- vi. Adverse impact on environment for both short term and long term needs to be delineated in the study.
- vii. As the project falls in Seismic zone V, the impact on earthquakes as well as tremors be also studied on the flow of river in the project area and its impact on downstream if any.
- viii. The agency shall also carry out studies on baseline environmental status and using this data to carry out impact assessment studies delineating identified, quantified and potential impacts on the baseline status and suggest measures for both short term and long-term impacts to mitigate those identified and quantified impacts.

3.2 Proposal for Terms of Reference of M/s Odisha Mining Corporation Limited for Guali Iron Ore Mine [358.258 ha (as per DGPS)/365.026 ha (as per RoR)] with total excavation of 37.67 Million TPA [Saleable Iron ore- 27.44 Million TPA, Mineral rejects-2.56 Million TPA, Waste-7.48 Million TPA, Topsoil- 0.184 Million TPA] along with 1 x 5000 TPH, 1 x 2500 TPH stationary multistage crushing & screening plant in addition to existing 1x175 TPH, 1x200 TPH, 2x400 TPH Stationary Crusher Plant, 1x150 TPH mobile crusher plant, 1x150 TPH, 5x250 TPH mobile screening plant and 1x1500 TPH Stationary Screening Plant at village(s) Guali, Loidapada, Panduliposhi, Topadihi, Rugudihi, Sidhamath R.F in Barbil Tehsil, Keonjhar District, Odisha - [Proposal No: IA/OR/MIN/208682/2021, File No. IA-J-11015/31/2021-IA-II(M), Consultant: M/s. Overseas Min-Tech Consultants] - Terms of Reference (Auction mine).

EAC Meeting Details:

EAC meeting	33 rd
Date of Meeting	13 th to 16 th July, 2021

The proposal of M/s Odisha Mining Corporation Limited is for grant of Terms of Reference for Guali Iron Ore Mine [358.258 ha (as per DGPS)/365.026 ha (as per RoR)] with total excavation of 37.67 Million TPA [Saleable Iron ore- 27.44 Million TPA, Mineral rejects-2.56 Million TPA, Waste-7.48 Million TPA, Topsoil- 0.184 Million TPA] along with 1 x 5000 TPH, 1 x 2500 TPH stationary multistage crushing & screening plant in addition to existing 1x175 TPH, 1x200 TPH, 2x400 TPH Stationary Crusher Plant, 1x150 TPH mobile crusher plant, 1x150 TPH, 5x250 TPH mobile screening plant and 1x1500 TPH Stationary Screening Plant at village(s) Guali, Loidapada, Panduliposhi, Topadihi, Rugudihi, Sidhamath R.F in Barbil Tehsil, Keonjhar District, Odisha. The mine lease area located between Latitude 21°59'21.98" N to 22°00'01.10" N and Longitude 85°17'04.19" E to 85°18'57.35"E. The mine lease area falls under the Survey of India Topo sheet No: F45H8 and falls in Seismic Zone-III. The PP presented the KML file during the presentation to indicate the location of mine lease on Google Earth/ DSS.

2. M/s Odisha Mining Corporation Limited has made an online application vide proposal no. IA/OR/MIN/208682/2021 dated 09.04.2021 and submitted Form-1 and Prefeasibility report under the provisions of the EIA Notification, 2006 for the project mentioned above. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals under Category "A" of the schedule of the EIA Notification, 2006 as the mining lease area is greater than 100 ha and appraised at Central level. The proposal also attracts the general conditions as the mining lease area is located at a distance of 5 km, NW from the Interstate boundary of Odisha-Jharkhand.

3. The Project Proponent submitted that the previous lessee obtained Environmental Clearance for a production capacity of 5.7 MTPA of Iron Ore vide EC letter J-11015/1155/2007-IA-II(M) dated 22nd June 2009. The proposal was earlier placed in the 31st EAC meeting held during 9th - 15th June, 2021 and the Committee deferred the proposal for want of following additional information, (i) The PP needs to submit the total excavation in tonnes including mineral, overburden, inter-burden, waste, top soil, rejects etc. to be handled and the management of topsoil and waste needs to be properly addressed in EIA/EMP report. The mineable reserves, blocked reserves need to be mentioned along with the life of mine. Waste to be generated during the entire life of mine and details of the location of dumping/backfilling area need to be submitted. (ii) The Project Proponent submitted that it is proposed to transport the iron ore through pipeline in the form of slurry and hence the PP needs to submit the details of transportation along with the schedule of implementation (iii) The Project Proponent should bring out the material balance, mass balance, equipment flow sheet and mineral processing with flow charts (iv) A detailed water balance should be submitted by the Project Proponent (v) The Project Proponent should submit the actual breakup of the forest land, forest clearances obtained and the balance area proposed for diversion.

4. The Project Proponent submitted the information on 25.06.2021 as mentioned below (i) PP submitted that total Excavation: 179.64 Million Tonnes, ROM: 160.136 Million Tonnes, Total Waste: 19 Million Tonnes, Mineral Reject: 22.06 Million Tonnes and Top soil: 0.504 Million Tonnes, Mineable Reserve: 160.136 Million Tonnes, Blocked Reserve: 36.571 Million Tonnes, life of the Mine: 8 Years, Waste Generation during the entire life of the mine: 19 Million Tonnes and the location of dumping will be at Waste Dump-A (N-2433340 to N-2433767 and E-323168 to E-324050) & Waste Dump-B (N-2432659 to N-2433313 and E-323098 to E-323642). (ii) PP submitted that during the conceptual period, it is proposed to establish standalone satellite grinding units adjacent to the lease having total about 21 MTPA capacity with pumping and slurry pipeline facility to reach beneficiation and pellet manufacturing units by different parties. OMC will facilitate the mineral supply with different parties under long term linkage supply agreement. OMC has already floated the Expression of Interest for evacuation of Iron ore through the mode of slurry pipeline by long term linkages buyers. Implementation schedule will be 2 years (iii) PP submitted the flow chart showing material balance, mass balance for 30 MTPA (iv) PP submitted that the water requirement of the mine shall be met from bore wells. Effective storm water collection network is designed to collect the rainwater from the mining and screening plant areas. The collected rain water will be diverted to the rain water harvesting pits for recharging the ground water. Similarly, rain water collected in opened up pits shall be utilized. For 30 MTPA, the total water requirement for the said production is 2500 KLD. The water requirement will be fulfilled from ground water source for which NOC for 320 m³/day obtained from CGWA. Further the water will be intersected during 5th year which will be utilized for mining and dust suppression purposes. Any excess water requirement will be met from surface water obtaining permission from Dept. of Water Resources, Govt, of Odisha and (v) PP submitted that out of the total lease area 358.258 ha, revenue forest is 301.443 ha, reserved forest is 30.657 ha and total forest area is 332.100 ha and non-forest land is 26.158 ha. PP submitted that MoEF&CC has conveyed approval for diversion of 42.417 ha of forest land vide No F.No8-96/96-FC dated 14th January 2005 and for diversion of 95.0 Ha of forest land in addition to 42.417 ha of broken up revenue forest land vide No F.No-8-96/96-FC (Pt) dated 6th September 2011. Thus the total diverted forest area at present is 137.417 Ha. PP applied for diversion of forest land of 194.683 ha vide proposal no FP/OR/MIN/140713/2021 dated 12.04.2021.

5. Lease Detail

S.no	Grant of PI/mine lease/ Order	Date of the grant	Name of the Mineral	Period of Grant	Granted by	Mine lease area in Ha
1	Reservation of Guali Iron Ore	11.01.2021	Iron Ore	10 years	Govt of	358.258 ha (as per DGPS)/

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	vide No 283/SM, Bhubansehwar				Odisha	365.026 ha (as per RoR)
2	Letter of Intent vide 312/SM, Bhubansehwar	11.01.2021	Iron Ore	10 years	Govt of Odisha	358.258 ha (as per DGPS)/ 365.026 ha (as per RoR)
3	Vesting Order No 324/SM,	11.01.2021	Iron Ore	10 years	Govt of Odisha	Order is valid for a period of 2 years from the date of execution of the lease deed or till the date of getting fresh approvals, clearances, licenses, permits and the like whichever is earlier.
4	Grant of mining lease vide order no 358/SM	12.01.2021	Iron Ore	10 years	Govt of Odisha	358.258 ha (as per DGPS)/ 365.026 ha (as per RoR)

6. Details of executed Mine leases

S.no	Date of grant of Lease execution	Period of Grant		Details
		From	To	
1	Date of entering into original lease deed.	12.01.2021	11.01.2031	IN-OD01565272991688T

7. Mining plan

S.no	Mining Plan along with the Conceptual Plan Approved By	Letter no	Dated of Approval	Grant period		Details
				From	To	
1	Approval of Mining Plan with PMCP approved by Indian Bureau of Mines	Lr MP/A/38-ORI/BHU/20-21	19.03.2021	2020-21	2024-25	358.258 ha (as per DGPS)/365.026 ha (as per RoR)

8. The Project Proponent submitted that the mining operation will be carried out by opencast mechanised mining method by engaging HEMMs with deep hole drilling and blasting. Two quarries namely Topadih (Block A) and Baliasahi (Block B) within the ML area are proposed to be worked. PP reported that Total Geological reserve is 369.527 Million Tonnes (as on 12.01.2021) and Mineable reserve is 160.136 Million Tonnes (as on 12.01.2021). Life of mine would be 8 years including current plan period. However, further exploration has been proposed during the plan period, which will augment the resource thus exceeding the life of mine beyond lease period. The maximum bench height & width are proposed to be 15 m & 30 m respectively. Average bench slope is proposed to be 80°- 85°. The blasted ROM is proposed to be fed to crusher & screening plants for further sizing and screening to CLO and fines. Ore will be transported from quarry site to screen and crushing site for processing by use of 60m³/120m³ dumpers whereas waste materials will be dispatched from quarry to dumping site by using same capacity dumpers. As ROM production of 30MTPA is proposed from 3rd year, i.e. 2022-23 onwards, thus the construction for 5000 TPH and 2500 TPH multi stage crushing & screening plant shall start from 2nd year (i.e. 2021-22) after getting all statutory clearances. PP also submitted that it is proposed to transport the iron ore through pipeline in the form of slurry. Out of 30 MTPA, it is proposed to transport approx 9 MTPA through road and 21 MTPA through pipeline in the form of slurry out of the ML area. A total of 9.5 Million CuM of waste generated up to conceptual period, approximately 30% i.e. 2.86 Million CuM will be utilized for road formation, maintenance and bund formation and the remaining 6.64 Million CuM shall be utilized for development and remaining waste will be dumped at proposed temporary dump location during the conceptual period. The waste dump A over an area of 28.97 Ha and waste Dump-B over an area of 27.93 ha will be utilized for dump up to conceptual period. The Project Proponent reported that general water table in the mine site is at 490 m AMSL. Hence water table will be intersected during the 5th year i.e. 2024-25 of the plan period since the working will go up to 485 m during the plan period. PP informed that necessary permission will be obtained from CGWA for intersection of ground water.

9. Water requirement

Total water requirement (Proposed)	2500 KLD		Haul Road Dust Suppression	1966 KLD
	Fresh water	Treated water		
	Ground water: 320m ³ /day Surface Water: 1180 m ³ /day	1000m ³ /day dewatered from mine quarry during mine intersection	Dry fog	416 KLD
			Plantation	50 KLD
			Domestic Purpose	48 KLD
		ETP	20 KLD	
NOC from CGWA	NOC obtained for drawl of ground water for 320 cum/day vide No. 21-			

	4(93) SER/CGWA/2008/1964 dt 09.10.2018 in the name of previous lessee which is valid up to 16.09.2023. PP informed that for proposed water requirement of 2500 m ³ /day, application will be submitted to CGWA for grant of NOC.
Transfer of NOC	PP vide Lr no 2742/OMC/F&E/2021 dt 18.02.2021 requested CGWA for transfer of NOC for drawl of ground water over 320 m ³ /day in the name of M/s Odisha Mining Corporation Limited. CGWA has accepted the request and as per the instructions, PP deposited the fees to CGWA for transfer of NOC.

10. The Project Proponent submitted that green belt development/plantation will be carried out in 56.90 ha (Plantation shall be done over waste dump including safety zone area of 6.469 ha) and 19.19 ha (Re-grassing over mineral storage area shall be developed over the area after cessation of mining activities). A total of 8750 saplings will be planted during the plan period.

11. The Project Proponent submitted that out of the total lease area 358.258 ha, revenue forest is 301.443 ha, reserved forest is 30.657 ha and total forest area is 332.100 ha and non-forest land is 26.158 ha. PP submitted that MoEF&CC has conveyed approval for diversion of 42.417 ha of forest land vide No F.No8-96/96-FC dated 14th January 2005 and for diversion of 95.0 Ha of forest land in addition to 42.417 ha of broken up revenue forest land vide No F.No-8-96/96-FC (Pt) dated 6th September 2011. Thus the total diverted forest area at present is 137.417 Ha. PP applied for diversion of forest land of 194.683 ha vide proposal no FP/OR/MIN/140713/2021 dated 12.04.2021 in the name of M/s Odisha Mining Corporation Limited. PP also reported that following Reserve Forest such as Sidhamath RF (Inside lease area), Lakraghat RF (Near to the Lease boundary), Karo RF – 2.2 KM (W), Uliburu RF – 1.0 KM (NW), Tholkabad RF – 4.8 KM (NW), Mendhamurani RF – 3.5 KM (SW), Baitarani RF – 7.3 KM (SE), Kathamala RF – 7.5 KM (SW) and Torha RF – 8.0 KM (NW) exists within 10km radius of the study area. PP further submitted that there are no Wild Life Sanctuaries, National Parks, Eco Sensitive Zones, elephant/Tiger Reserves within 10 km of the mine lease area.

12. The Project Proponent submitted that there is requirement of land Acquisition over an area of 27.262 Ha in the village Guali, Laidapada&Topadihi. Further, there is requirement of Rehabilitation & Resettlement of 112 households for the village Guali. Application to IDCO & Land Acquisition office at Collectorate is under process. The whole acquisition and Rehabilitation & Resettlement process will be conducted as per LA and R&R 2013.

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

14. Details of project cost and employment:

Particulars	Budget (Rs. in Crore)
Project Cost	Rs. 1020.6354
Employment	523 persons

15. The proposal for Terms of Reference was considered in the 33rd EAC meeting held during 13th to 16th July, 2021. Based on the documents submitted and presentation made by the Project Proponent and the Consultant, the Committee **recommended** the proposal for grant of Terms of Reference of M/s Odisha Mining Corporation Limited for Guali Iron Ore Mine [358.258 ha (as per DGPS)/365.026 ha (as per RoR)] with total excavation of 37.67 Million TPA [Saleable Iron ore- 27.44 Million TPA, Mineral rejects- 2.56 Million TPA, Waste-7.48 Million TPA, Topsoil- 0.184 Million TPA] along with 1 x 5000 TPH, 1 x 2500 TPH stationary multistage crushing & screening plant in addition to existing 1x175 TPH, 1x200 TPH, 2x400 TPH Stationary Crusher Plant, 1x150 TPH mobile crusher plant, 1x150 TPH, 5x250 TPH mobile screening plant and 1x1500 TPH Stationary Screening Plant at village(s) Guali, Loidapada, Panduliposhi, Topadihi, Rugudihi, Sidhamath R.F in Barbil Tehsil, Keonjhar District, Odisha. In addition to Standard Term of Reference for non-coal mining, along with the recommendation made by NEERI in its carrying capacity study for Odisha, the Committee also prescribed the following specific term of reference for this project:-

- i. The Project Proponent shall submit the present state of mine including primary environmental baseline data in order to assess the status and level of environmental compliance while transfer of lease. The Project Proponent must show any non-compliance of earlier EC by previous occupier so that the same can be considered at the time of appraisal for grant of Environmental Clearance.
- ii. The PP should also include damage assessment due to such non-compliance as one of the activities. In absence of such disclosure by PP, any subsequent identification of environmental non-compliance would be liability of new PP. The information to be submitted may be related to, but not limited to:
 - a. Compliance of mining plan, including waste and OB dump management, mine closure plan etc.
 - b. Compliance to Common cause judgment
 - c. Status of R&R
 - d. Compliance of plantation

- e. Compliance of public hearing issues
 - f. Status of complaints/ court cases/legal action
 - g. Compliance of specific conditions of earlier EC
- iii. Integrated RO, MoEF&CC office shall preferably conduct visit of each of such mine lease/s where e-auction have been conducted to document the compliance status of existing EC at such leases, at earliest.
 - iv. New lessee shall take possession of all records and documents related to EC and consent form the earlier lessee, including EIA reports, EC, consent, correspondence with MOEFCC and SPCB/CPCB etc.
 - v. The new lessee shall provide the NRSC certified imaginary of the project site, depicting the real status of land use, canopy coverage, level of plantation, land degradation etc., one at the time of taking possession of lease and second after 6 - 12 months to assess changes effected by present occupier.
 - vi. The Project Proponent needs to carry out the Public Hearing as per provisions of EIA Notification, 2006.
 - vii. The Project Proponent shall allocate separate budget for the concerns of the public in terms of COVID health care facilities, education, and infrastructure and environment protection. The Project Proponent also shall include the budget for the betterment of schools nearby and to facilitate the online education system by providing Wi-Fi connectivity and desktops/tablets. PP should also submit the time bound action plan on concerns of the Public.
 - viii. The Project Proponent needs to carry out a cumulative impact assessment considering all the other mines, crushers, cement plants, conveyor and other activities in the study area.
 - ix. The Project Proponent should prepare the EMP considering the scenario of pollution to be generated for normative and peak total excavation for assessing air and noise pollution.
 - x. The Project Proponent needs to prepare an actionable plan for the complete suppression of the pollution due to crushing and screening plant both mobile and stationary and should submit the details of the methods and equipments to be used for the purpose and separate capital and recurring budget proposed for entire life of mine. PP should submit a table on air and noise pollutants emission

data with the current and anticipated value arising due to all crusher and screening plant at normative and peak production along with the controlled and uncontrolled scenario. PP should also place the proposed mitigative measures for the identified impacts.

- xi. The Project Proponent needs to ascertain the impact of transportation and details of transportation route viz. (length of the road, type of road, passing through the village or habitation) and mitigative measures to be taken for abatement of pollution due to transportation. The budget for the same needs to be provided.
- xii. The Project Proponent shall ensure about the pipeline safety and its potential impact on ground water.
- xiii. To reduce the diesel consumption, the Project Proponent shall explore the possibility for use of electrically/solar operated vehicles and other equipments.
- xiv. The Project Proponent needs to submit the ecology restoration plan as per the mine closure plan.
- xv. The Project Proponent shall ensure that the ground water used for domestic purposes only and shall explore the possibility of alternate source of water for other industrial purposes.
- xvi. The Project Proponent needs to submit the detailed material and water balance.
- xvii. The Project Proponent shall undertake the peripheral plantation as well as gap plantation within 6 months with the seedling of 6-8 ft height with at least 90% survival rate. An undertaking for the same also needs to be submitted by PP.
- xviii. The Project Proponent shall undertake the bench plantation at least up to 3 benches during mining and up to the water level of the abandoned benches proposed for creation of water bodies.
- xix. The Project Proponent shall also organize employment-based apprenticeship/ internship training program every year with appropriate stipend for the youth and other programs to enhance the skill of the local people.
- xx. The Project Proponent should submit list of Schedule – I species present in the lease area authenticated by PCCF and the status of National Park/Sanctuary,

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

- xxi. The Project Proponent needs to submit the Affidavit as per Ministry's OM dated 30.05.2018.
- xxii. The Project Proponent should comply with the Guidelines under Forest (Conservation) Act, 1980 for transfer of approvals granted under the Forest (Conservation) Act, 1980 to mining leases allotted to new lessee as per the provisions of the Mines and Minerals (Development and Regulation) Amendment Act, 2021 issued by MoEF&CC vide File No. FC-11/112/2020-FC(Pt) dated 07.07.2021.
- xxiii. The Project Proponent needs to submit the Compliance of Order dated 02.08.2017 in CWP no. 114/2014 of Hon'ble Supreme Court, Details of demand if any raised and payment if any made at Dept. of Mining and Geology, Govt. of Odisha, and Details of the past production of mine since its inception, duly authenticated by Dept. of Mines and Geology, Govt. of Odisha.

3.3 Proposal for Terms of Reference of M/s Odisha Mining Corporation Limited for Jilling Langalotta Iron Ore Mine [456.037 ha (as per DGPS)/465.100 ha (as per RoR)] with total excavation of 15.668 Million TPA [Saleable Iron ore- 9.239 Million TPA, Mineral rejects-0.761 Million TPA, Waste 5.668 Million TPA, Topsoil: Nil] with proposed 1 x 2000 TPH stationary multistage crushing & screening plant along with existing 1x300 TPH Stationary Crusher Plant (In pit plant), 1x300 TPH Stationary Crusher Plant (OCU-1), 1 x 200 TPH Stationary Crusher Plant (OCU-2), 1 x 300 TPH Stationary Crusher Plant (OCU-3), 1 x 200 TPH Stationary Crusher Plant (OCU-5), 1 x 400 TPH Mobile Crusher Plant, 1 x 50 TPH Stationary Screening Plant, 1 x 150 TPH Mobile Screening Plant, 1 x 100 TPH Mobile Screening Plant, 5 x 150 TPH Mobile Screening Plant at Village(s) Jalahari, Jurudi, Banspani, Khuntapani, Bholebeda, Jajang, Baitarani Reserve Forest in Barbil Tehsil, Keonjhar District, Odisha - [Proposal No: IA/OR/MIN/207724/2021, IA-J-11015/34/2021-IA-II(M), Consultant: M/s. Overseas Min-Tech Consultants] - Terms of Reference (Auction mine).

EAC Meeting Details:

EAC meeting	33 rd
Date of Meeting	13 th to 16 th July, 2021

The proposal of M/s Odisha Mining Corporation Limited is for grant of Terms of Reference for Jilling Langalotta Iron Ore Mine [456.037 ha (as per DGPS)/465.100 ha (as per RoR)] with total excavation of 15.668 Million TPA [Saleable Iron ore- 9.239 Million TPA, Mineral rejects-0.761 Million TPA, Waste 5.668 Million TPA, Topsoil: Nil] with proposed 1 x 2000 TPH stationary multistage crushing & screening plant along with existing 1x300 TPH Stationary Crusher Plant (In pit plant), 1x300 TPH Stationary Crusher Plant (OCU-1), 1 x 200 TPH Stationary Crusher Plant (OCU-2), 1 x 300 TPH Stationary Crusher Plant (OCU-3), 1 x 200 TPH Stationary Crusher Plant (OCU-5), 1 x 400 TPH Mobile Crusher Plant, 1 x 50 TPH Stationary Screening Plant, 1 x 150 TPH Mobile Screening Plant, 1 x 100 TPH Mobile Screening Plant, 5 x 150 TPH Mobile Screening Plant at Village(s) Jalahari, Jurudi, Banspani, Khuntapani, Bholebeda, Jajang, Baitarani Reserve Forest in Barbil Tehsil, Keonjhar District, Odisha. The mine lease area located between Latitude: 21°56'37.5297"N to 21°08'53.4185"N and Longitude: 85°25'08.8832"E to 85°26'37.1370"E. The mine lease area falls under the Survey of India Topo sheet No: 73F/8 and 73G/5. The PP presented the KML file during the presentation to indicate the location of mine lease on Google Earth/ DSS.

2. M/s Odisha Mining Corporation Limited has made an online application vide proposal no. IA/OR/MIN/207724/2021 dated 13.04.2021 and submitted Form-1 and Prefeasibility report under the provisions of the EIA Notification, 2006 for the project mentioned above. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals under Category "A" of the schedule of the EIA Notification, 2006 as the mining lease area is greater than 100 ha and appraised at Central level.

3. The Project Proponent submitted that the previous lessee obtained Environmental Clearance for a production capacity of 6.28 MTPA of Iron Ore vide EC letter J-11015/959/2007-IA-II (M) dated 7th June 2012. The proposal was earlier placed in the 31st EAC meeting held during 9th - 15th June, 2021 and the Committee deferred the proposal for want of following additional information, (i) PP needs to submit the total excavation in tonnes including mineral, overburden, inter-burden, waste, top soil, rejects etc. to be handled and the management of topsoil and waste needs to be properly addressed in EIA/EMP report. The mineable reserves, blocked reserves need to be mentioned along with the life of mine. Waste to be generated during the entire life of mine and details of the location of dumping/backfilling area need to be submitted (ii) The Project Proponent should clearly show the transport route of the mineral along with its frequency and capacity. (iii) The Project Proponent should bring out the material balance, mass balance, equipment flow sheet and mineral processing with flow charts, (iv) A detailed water balance should be submitted by the Project Proponent and (v) The Project Proponent should submit the actual breakup of the forest land, forest clearances obtained and the balance area proposed for diversion.

4. The Project Proponent submitted the information on 25.06.2021 as mentioned below (i) PP submitted that Total Excavation: 57.27 Million Tonnes, ROM: 40.09 Million Tonnes, Total Waste: 17.18 Million Tonnes, Mineral Reject: 4.68 Million Tonnes and Top soil: Nil, Mineable Reserve: 40.09 Million Tonnes, Blocked Reserve: 32.75 Million Tonnes, Life of the Mine: 6 Years, Waste Generation during the entire life of the mine: 17.18 million tonnes and the location of dumping will be at Waste Dump-Apahatu Dump A and Waste Dump-Apahatu Dump B (ii) PP submitted that the finished ore is to be transported outside the ML area through tipper and by rail passing within ML area (iii) PP submitted the flow chart showing material balance and mass balance for 10 MTPA (iv) PP submitted that the water requirement of the mine shall be met from bore wells and surface water bodies. Effective storm water collection network is designed to collect the rainwater from the mining and screening plant areas. The collected rain water will be diverted to the rain water harvesting pits for recharging the ground water. Similarly, rain water collected in opened up pits shall be utilized. Requirement of water for domestic, industrial and other is expected to be approximately 2000 KLD and (v) PP submitted that out of the total lease area 456.037 ha, revenue forest is 295.575 ha, reserved forest is 96.714 ha and total forest area is 392.289 ha and non-forest land is 63.748 ha. PP submitted that MoEF&CC vide F.No-8-49/98- FC(pt) dated 8th October 2014 accorded approval for diversion of 342.602 Ha of forest land. PP submitted that the proposal for diversion of forest land of 22.697 ha vide proposal no: FP/OR/MIN/142115/2021 dated 08.05.2021.

5. Lease Detail

S.no	Grant of Pl/mine lease/ Order	Date of the grant	Name of the Mineral	Period of Grant	Granted by	Mine lease area in Ha
1	Reservation of Guali Iron Ore vide No 299/SM, Bhubansehwar	11.01.2021	Iron Ore	10 years	Govt of Odisha	456.037 ha (as per DGPS)/ 465.100 ha ha (as per RoR)
2	Letter of Intent vide 307/SM, Bhubansehwar	11.01.2021	Iron Ore	10 years	Govt of Odisha	456.037 ha (as per DGPS)/ 465.100 ha ha (as per RoR)
3	Vesting Order No 317/SM,	11.01.2021	Iron Ore	10 years	Govt of Odisha	Order is valid for a period of 2 years from the date of execution of the lease deed or till the date of

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						getting fresh approvals, clearances, licenses, permits and the like whichever is earlier.
4	Grant of mining lease vide order no 338/SM	11.01.2021	Iron Ore	10 years	Govt of Odisha	456.037 ha (as per DGPS)/ 465.100 ha ha (as per RoR)

6. Details of executed Mine leases

S.no	Date of grant of Lease execution	Period of Grant		Details
		From	To	
1	Date of entering into original lease deed.	11.01.2021	10.01.2031	IN-OD01560940427432T

7. Mining plan

S.no	Mining Plan along with the Conceptual Plan Approved By	Letter no	Dated of Approval	Grant period		Details
				From	To	
1	Approval of Mining Plan with PMCP approved by Indian Bureau of Mines	Lr MP/A/37-ORI/BHU/20-21	19.03.2021	2020-21	2024-25	456.037 ha (as per DGPS)/465.100 ha ha (as per RoR)

8. The Project Proponent submitted that the mining operation will be carried out by opencast mechanised mining method by engaging HEMMs with deep hole drilling and blasting. PP reported that Total Geological reserve is 133.154 Million Tonnes (as on 12.01.2021) and Mineable reserve is 40.102 Million Tonnes (as on 12.01.2021). Life of mine would be 6 years including current plan period. However, further exploration has been proposed during the plan period, which will augment the resource thus exceeding the life of mine beyond lease period. The height and width of the benches will be maintained at 10 and 10-15 m respectively. Average bench slope is proposed to be 80° - 85°. The blasted ROM is proposed to be fed to crusher & screening plants for further sizing and screening to CLO (10-40 mm) and fines (-10 mm). PP also submitted that Waste/ ROM material is proposed to be loaded into 25-30t capacity dumpers using 2.5 - 4.5 m³ excavators which in turn is to be transported to waste dump yard/crushing &

screening units. The finished ore is to be transported outside the ML area through tipper and by rail. A total of 11.59 MCum of wastes will be generated from entire Jilling Langalotta Iron Ore Block upto conceptual stage. The height & width of individual terrace has been considered as 20 m & 20 m respectively with a bench slope angle of 37°. The waste shall be dumped during plan period in the backfill of Appahatu waste dump A & Appahatu waste dump B. Out of the total 11.59 MCum of waste generated up to conceptual, 20% of these materials (around 1 MCum) shall be utilized for development and remaining waste will be dumped at proposed dump location during the conceptual period. The Project Proponent reported that general ground water table is 481m AMSL in pre-monsoon and 487m AMSL in post monsoon and ground water table will not be intersected due to mining activity.

9. Water requirement

Total water requirement (Proposed)	2000 KLD		Haul Road Dust Suppression	1550 KLD
	Fresh water	Treated water		
	Ground water: 1564m ³ /day	-	Dry fog	320 KLD
	Surface Water: 436 m ³ /day		Plantation	50 KLD
			STP for 686 manpower	60 KLD
		ETP	20 KLD	
NOC from CGWA	NOC obtained for drawal of ground water for 1564 m ³ /day vide No. 21-4(33)SER/CGWA/2007-2050 dt. 22.10.2018 in the name of previous lessee which is valid up to 30.03.2022. PP informed that for proposed water requirement of 2000 m ³ /day, application will be submitted to CGWA for grant of NOC.			
Transfer of NOC	PP vide Lr no 2740/OMC/F&E/2021 dt 18.02.2021 requested CGWA for transfer of NOC for drawal of ground water over 1564 m ³ /day in the name of M/s Odisha Mining Corporation Limited. CGWA has accepted the request and as per the instructions, PP deposited the fees to CGWA for transfer of NOC.			

10. The Project Proponent submitted that Plantation shall be developed over 76.551 ha of waste dump in a phased manner. Also, a portion of 42.414 ha mineral storage area and 6.301 ha mineral separation plant area shall be re-grassed after cessation of mining activities and in portion of 124.522 ha mined-out quarry shall be backfilled and plantation shall be done over it. Plantation shall be maintained over 10.314 ha in safety zone and Green belt. A total of 8000 saplings will be planted during the plan period in Green Belt area.

11. The Project Proponent submitted that out of the total lease area 456.037 ha, revenue forest is 295.575 ha, reserved forest is 96.714 ha and total forest area is 392.289 ha and non-forest land is 63.748 ha. PP submitted that MoEF&CC vide F.No-8-

49/98- FC(pt) dated 8th October 2014 accorded approval for diversion of 342.602 Ha of forest land. PP submitted that the proposal for diversion of forest land of 22.697 ha vide proposal no: FP/OR/MIN/142115/2021 dated 08.05.2021 in the name of M/s Odisha Mining Corporation. PP further submitted that there are no Wild Life Sanctuaries, National Parks, Eco Sensitive Zones, Elephant/Tiger Reserves within 10 km of the mine lease area.

12. The Project Proponent submitted that proposed project is located on mix land, which is already acquired and there are habitations i.e. human settlements & residential areas of local villagers as well as company`s residential colony exists within the lease area. So proposed project proposal does not involve any Rehabilitation & Resettlement.

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

14. Details of project cost and employment:

Particulars	Budget (Rs. In Crore)
Project Cost	Rs. 431
Employment	686 persons

15. The proposal for Terms of Reference was considered in the 33rd EAC meeting held during 13th to 16th July, 2021. Based on the documents submitted and presentation made by the Project Proponent and the Consultant, the Committee **recommended** the proposal for grant of Terms of Reference of M/s Odisha Mining Corporation for Jilling Langalotta Iron Ore Mine [456.037 ha (as per DGPS)/465.100 ha ha (as per RoR)] with total excavation of 15.668 Million TPA [Saleable Iron ore- 9.239 Million TPA, Mineral rejects-0.761 Million TPA, Waste 5.668 Million TPA, Topsoil: Nil] with proposed 1 x 2000 TPH stationary multistage crushing & screening plant along with existing 1x300 TPH Stationary Crusher Plant (In pit plant), 1x300 TPH Stationary Crusher Plant (OCU-1), 1 x 200 TPH Stationary Crusher Plant (OCU-2), 1 x 300 TPH Stationary Crusher Plant (OCU-3), 1 x 200 TPH Stationary Crusher Plant (OCU-5), 1 x 400 TPH Mobile Crusher Plant, 1 x 50 TPH Stationary Screening Plant, 1 x 150 TPH Mobile Screening Plant, 1 x 100 TPH Mobile Screening Plant, 5 x 150 TPH Mobile Screening Plant at Village(s) Jalahari, Jurudi, Banspani, Khuntapani, Bholebeda, Jajang, Baitarani Reserve Forest in Barbil Tehsil, Keonjhar District, Odisha. In addition to Standard Term of Reference for non-coal mining, along with the recommendation made by NEERI in its carrying capacity study for Odisha, the Committee also prescribed the following specific term of reference for this project: -

- i. The Project Proponent shall submit the present state of mine including primary environmental baseline data in order to assess the status and level of environmental compliance while transfer of lease. The Project Proponent must

show any non-compliance of earlier EC by previous occupier so that the same can be considered at the time of appraisal for grant of Environmental Clearance.

- ii. The PP should also include damage assessment due to such noncompliance as one of the activities. In absence of such disclosure by PP, any subsequent identification of environmental non-compliance would be liability of new PP. The information to be submitted may be related to, but not limited to:
 - a. Compliance of mining plan, including waste and OB dump management, mine closure plan etc.
 - b. Compliance to Common cause judgment
 - c. Status of R&R
 - d. Compliance of plantation
 - e. Compliance of public hearing issues
 - f. Status of complaints/ court cases/legal action
 - g. Compliance of specific conditions of earlier EC
- iii. Integrated RO, MoEF&CC office shall preferably conduct visit of each of such mine lease/s where e-auction have been conducted to document the compliance status of existing EC at such leases, at earliest.
- iv. New lessee shall take possession of all records and documents related to EC and consent form the earlier lessee, including EIA reports, EC, consent, correspondence with MOEFCC and SPCB/CPCB etc.
- v. The new lessee shall provide the NRSC certified imaginary of the project site, depicting the real status of land use, canopy coverage, level of plantation, land degradation etc., one at the time of taking possession of lease and second after 6 - 12 months to assess changes effected by present occupier.
- vi. The Project Proponent needs to carry out the Public Hearing as per provisions of EIA Notification, 2006.
- vii. The Project Proponent shall allocate separate budget for the concerns of the public in terms of COVID health care facilities, education, and infrastructure and environment protection. The Project Proponent also shall include the budget for the betterment of schools nearby and to facilitate the online education system by providing Wi-Fi connectivity and desktops/tablets. PP should also submit the time bound action plan on concerns of the Public.

- viii. The Project Proponent needs to carry out a cumulative impact assessment considering all the other mines, crushers, cement plants and other activities in the study area.
- ix. The Project Proponent should prepare the EMP considering the scenario of pollution to be generated for normative and peak total excavation for assessing air and noise pollution.
- x. The Project Proponent shall submit the diversion plan for nallah.
- xi. The Project Proponent must carry out optimization of routes with constraints of minimization of pollution load and its impact on the ambient environment. PP must use an optimization model like LINGO which is a linear programming model that would give the optimized route creating minimum pollution.
- xii. The Project Proponent shall carry out a study to know the feasibility of Multi-Mode transport alternative.
- xxiv. To reduce the diesel consumption, the Project Proponent shall explore the possibility for use of electrically/solar operated vehicles and other equipments.
- xiii. The Project Proponent needs to ascertain the impact of transportation and details of transportation route viz. (length of the road, type of road, passing through the village or habitation) and mitigative measures to be taken for abatement of pollution due to transportation. The budget for the same needs to be provided.
- xiv. The Project Proponent shall ensure that the ground water used for domestic purposes only and shall explore the possibility of alternate source of water for other industrial purposes.
- xv. The Project Proponent needs to submit the ecology restoration plan as per the mine closure plan.
- xvi. The Project Proponent needs to submit the detailed material and water balance.
- xvii. The Project Proponent shall undertake the peripheral plantation as well as gap plantation within 6 months with the seedling of 6-8 ft height with at least 90% survival rate. An undertaking for the same also needs to be submitted by PP.

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- xxv. The Project Proponent shall undertake the bench plantation at least up to 3 benches during mining and up to the water level of the abandoned benches proposed for creation of water bodies.
- xviii. The Project Proponent shall also organize employment-based apprenticeship/ internship training program every year with appropriate stipend for the youth and other programs to enhance the skill of the local people.
- xix. The Project Proponent should submit list of Schedule – I species present in the lease area authenticated by PCCF and the status of National Park/Sanctuary, Biosphere Reserve/Tiger Reserve/Elephant Reserve/any other Reserve, Habitat for migratory birds, Corridor for animals within 10 km of the lease area.
- xx. The Project Proponent needs to submit the Affidavit as per Ministry's OM dated 30.05.2018.
- xxi. The Project Proponent should comply with the Guidelines under Forest (Conservation) Act, 1980 for transfer of approvals granted under the Forest (Conservation) Act, 1980 to mining leases allotted to new lessee as per the provisions of the Mines and Minerals (Development and Regulation) Amendment Act, 2021 issued by MoEF&CC vide File No. FC-11/112/2020-FC(Pt) dated 07.07.2021.
- xxvi. The Project Proponent needs to submit the Compliance of Order dated 02.08.2017 in CWP no. 114/2014 of Hon'ble Supreme Court, Details of demand if any raised and payment if any made at Dept. of Mining and Geology, Govt. of Odisha, and Details of the past production of mine since its inception, duly authenticated by Dept. of Mines and Geology, Govt. of Odisha.

3.4 Proposal for Terms of Reference of Shri Rafik Khan for Chhote Kadma Limestone Mine (MLA 2.43 Ha) with production of 22,000.05 TPA at Village- Chhote Kadma, Tahsil- Darbha (Jagdalpur), District Bastar, Chhattisgarh – [Proposal No: IA/CG/MIN/209171/2021, File No. IA-J-11015/36/2021-IA-II(M), Consultant: P and M Solution] - Terms of Reference (Violation)

EAC Meeting Details:

EAC meeting	33 rd
Date of Meeting	13 th to 16 th July, 2021

Minutes of 33rd EAC Meeting held during 13th to 16th July 2021

The proposal of Shri Rafik khan is for grant of Terms of Reference for Chhote Kadma Limestone Mine (MLA 2.43 Ha) with production of 22,000.05 TPA at Village-Chhote Kadma, Tahsil- Darbha (Jagdarpur), District Bastar, Chhattisgarh. The mine lease area is located between Latitude 18°58'11.92441"N to 18°58'19.66441"N and Longitude 81°51'05.13721"E to 81°51'11.73960"E. The mine lease area falls under the Survey of India Topo Sheet no: 65F/13 and falls in seismic zone – II. The PP presented the KML file during the presentation to indicate the location of mine lease on Google Earth/ DSS.

2. Shri Rafik khan has made an online application vide proposal no. IA/CG/MIN/209171/2021 dated 14.04.2021 and submitted Form-1 and Prefeasibility report under the provisions of the EIA Notification, 2006 for the project mentioned above. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals under Category "A" of the schedule of the EIA Notification, 2006 as the project attracts general condition as mining lease area located at distance of approx. 4.07 km, SE from Kanger valley National Park and appraised at Central level.

3. Lease Detail

S.no	Grant of Pl/mine lease/ Order	Date of the grant	Name of the Mineral	Period of Grant	Granted by	Mine lease area in Ha
1	F-3-48/2001/ Khanij, Raipur	24.07.2002	Limestone	20 years	Govt. of Chhattisgarh	2.43

4. Details of executed Mine leases

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

5. The Project Proponent submitted that this is a case of violation as the mine lease continue to operate without obtaining Environmental Clearance. PP submitted the past production details duly authenticated by Office of the Collector, Department of Mining vide Lr 1423/Khanij/kha.Li.4/Khanipatta/2021, Jagdarpur, dated 16.06.2021 for the period from 01.07.2002 -31.12.2002 to 01.01.2021-16.06.2021. PP also submitted the Affidavit in a non-judicial stamp paper of Rs 100 bearing L 161935 dated 10.06.2021 that 'I shall comply with all the statutory requirement & judgment of Hon'ble Supreme Court dated 2nd August 2017 in writ Petition (civil) No. 114 of 2014 in the matter of common cause versus Union of India & Ors'.

6. The proposal for Terms of Reference was considered in the 33rd EAC meeting held during 13th to 16th July, 2021. The Committee opined that SOP dated 7.07.2021 was issued by the Ministry for identification and handling of violation cases under EIA, 2006 has been stayed by the Madurai bench of Hon'ble High Court of Madras vide order dated 15.07.2021.

7. The Committee noted that the instant proposal is located at a distance of 4.07 km, SE from Kanger Valley National Park which is notified by Ministry's Notification S.O 3653(E) dated 10.10.2019. The Committee also observed that the PP made presentation using KML file for showing the location of Kanger Valley National Park by drawing the boundary of the Eco Sensitive Zone (ESZ) and informed that the mine lease area is located 2.8 km, NW away from the Eco Sensitive Zone (ESZ). Therefore, the Committee was of the view that the submission made by the PP needs to be authenticated by the Competent Authority in the State along with the authenticated location map and the same was agreed by PP and therefore the Committee **returned the proposal in present form** and asked Ministry to take action against Project Proponent under E(P)A,1986.

3.5 Proposal for amendment in Environmental Clearance vide no J-11015/271/2006-IA.II(M) dated 27.12.2007 for reduction in ML area from 939.78 ha to 852.50 ha, intersection of ground water table during mining activity and extension of EC validity of Sagmania Lime Stone mining project of M/s Birla Corporation Limited in Village Sagmania, Tehsil Raghurajnagar, District Satna, Madhya Pradesh – [Proposal No: IA/MP/MIN/198657/2021, File No. J-11015/271/2006-IA.II(M), Consultant: Ardra Consulting Services Pvt Ltd] - Amendment in EC.

EAC Meeting Details:

EAC meeting	33 rd
Date of Meeting	13 th to 16 th July, 2021

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

2. M/s Birla Corporation Limited has made an online application vide proposal no. IA/MP/MIN/198657/2021 dated 17.02.2021 in Form-4 under the provisions of the EIA Notification, 2006 for the project mentioned above. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals under Category “A” of the schedule of the EIA Notification, 2006 and appraised at Central level.

3. The proposal for amendment in Environmental Clearance was considered in the 33rd EAC meeting held during 13th to 16th July, 2021. The Committee noted that the Project Proponent initially obtained Environmental Clearance dated 27.12.2007 and the PP operated the mines without obtaining Environmental Clearance from 1994 to 2006. After a detailed deliberation made by the Project Proponent and the Consultant the Committee was of the view that instant proposal is a case of violation. The Project Proponent needs to submit the Annexure-III. The Project Proponent needs to submit the detailed hydro geological study for intersection of ground water table for assessing its impacts and also needs to submit the NOC from CGWA for intersection of ground water table. The Project Proponent needs to submit the chronology of lease grant and the reason for reduction of lease area with authenticated documents. The Committee therefore, **returned the proposal in present form.**

3.6 Proposal for Extension of Validity of EC of M/s. UltraTech Cement Limited (Unit -Vikram Cement Works) for Limestone Mine –II (ML Area: 342.612 Ha) with Existing Limestone Production Capacity 5.5 million TPA at Villages: Suvakheda, Maheshpuria and Morka, Tehsil - Jawad, District – Neemuch, Madhya Pradesh – [Proposal No: IA/MP/MIN/215741/2021, File No. J-11015/440/2012-IA.II(M), Consultant: J. M EnviroNet Pvt. Ltd] - Extension of Validity of EC

EAC Meeting Details:

EAC meeting	33 rd
Date of Meeting	13 th to 16 th July, 2021

The proposal of M/s. UltraTech Cement Limited (Unit -Vikram Cement Works) is for Extension of Validity of EC for Limestone Mine –II with Existing Limestone Production Capacity 5.5 million TPA in the mine lease area of 342.612 Ha at Villages: Suvakheda, Maheshpuria and Morka, Tehsil - Jawad, District – Neemuch, Madhya Pradesh. The mine lease area located between Latitude 24° 32' 25.11" N " to 24° 34'00.01"N and Longitude 74° 50' 59.28" E to 74° 52' 25.21" E. The mine lease area falls under the Survey of India Topo sheet No. 45L/14 & 45 L/15 and falls in Seismic Zone – II. The PP presented the KML file during the presentation to indicate the location of mine lease on Google Earth/ DSS.

2. M/s. UltraTech Cement Limited has made an online application vide proposal no. IA/MP/MIN/215741/2021 dated 19.06.2021 in Form-6 under the provisions of the EIA Notification, 2006 for the project mentioned above. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals under Category "A" of the schedule of the EIA Notification, 2006 and appraised at Central level.
3. The Project Proponent submitted that Environmental Clearance granted vide Letter no J-11015/440/2012-IA.II(M) dated 25.02.2016 for expansion in Limestone Production Capacity from 1.5 Million TPA to 5.5 Million TPA at Vikram Limestone Mine-II in the mine lease area of 342.612 ha wherein it is specifically mentioned that in Point (vi) *The Environmental Clearance is valid for 15 years as the life of mine is 15 years.* Then, PP obtained amendment in EC vide Letter no J-11015/440/2012-IA.II(M) dated 07.07.2017 that *'96.882 ha will be undisturbed area' and Sp. Condition (vi) w.r.t 'validity of EC shall be as per the validity of mining lease i.e. 27.01.2022'.*
4. PP informed that as per section 8A of MMDR Amendment Act 2015, the lease validity has been extended and submitted the supplementary lease deed vide MP279462017A1690826 registered on 11.12.2017 for the period up to 50 years, i.e. 27.01.2052. Now, the Project Proponent is requesting for extension of validity of existing Environment Clearance dated 25.02.2016 till life of mine or for 30 years as per the EIA Notification, 2006.
5. The Project Proponent submitted the Consent to Operate issued by the Madhya Pradesh Pollution Control Board vide Consent No:AW-46964 dated 06.05.2017 for the production of Limestone of 5.5 million TPA for the period ending up to 31.07.2021. The Project Proponent submitted the past production details duly authenticated from Mining Officer vide Lr No 782/Khanij/2021, Neemuch dated 16.06.2021 for the period 2005-06 to 2020-21 and it is observed to be well within the limits of EC capacity. The Project Proponent submitted the Affidavit in a non-judicial stamp paper of Rs 100 bearing a stamp code 01012725062021005674 dated 25.06.2021 that the company will comply with all the statutory requirement & judgment of Hon'ble Supreme Court dated 2nd August 2017 in writ Petition (civil) No. 114 of 2014 in the matter of common cause versus Union of India & Ors'.
6. The Committee, after detailed deliberations made by the Project Proponent and the Consultant, recommended the proposal for extension of validity of EC for thirty years from the grant of EC (expansion) dated 25.02.2016, as per the EIA Notification, 2006 with the following additional specific conditions:
 - i. The Project Proponent shall submit the status of the plantation to IRO within three months, as per EC granted on 25.02.2016.

- ii. The Project Proponent shall undertake and complete the entire plantation with 2x 2 m and 3m height in this monsoon and submit the status within 1 year showing 90% survival rate.
- iii. All other terms and condition of earlier ECs dated 25.02.2016 and 7.07.2017 shall remain unchanged.

Day 4: 16th July, 2021 (Friday)

4.1 Proposal for amendment in Environmental Clearance for change in mining lease area from 2486.383 ha to 2564.323 ha on account of amalgamation of two contiguous mining leases without change in production capacity of M/s SAIL for Barsua-Taldih-Kalta Iron Ore Mining Project located at Tantra & Bahamba Villages and Toda R.F, Tahasil Koira under Bonai Subdivision of Sundargarh District, Odisha – EC under para 7(ii) of EIA Notification 2006 [File No. J-11015/351/2006-IA.II(M); Proposal No. IA/OR/MIN/216764/2021, Consultant- Nil]– Amendment in EC

EAC Meeting Details:

EAC meeting	33 rd
Date of Meeting	13 th to 16 th July, 2021

The proposal of M/s SAIL is for amendment in Environmental Clearance under para 7(ii) of EIA Notification 2006 for change in mining lease area from 2486.383 ha to 2564.323 ha on account of amalgamation of two contiguous mining leases without change in production capacity for Barsua-Taldih-Kalta Iron Ore Mining Project located at Tantra & Bahamba Villages and Toda R.F, Tahasil Koira under Bonai Subdivision of Sundargarh District, Odisha. The mine lease area is located between Latitude 21°49' 25.43880" N to 21°59' 50.88516" N and Longitude 85° 07' 43.73832" E to 85° 13' 53.48136" E. The mine lease area falls under the Survey of India Topo sheet No: 73G/1 (F45N1) and falls in Seismic Zone-II. The PP presented the KML file during the presentation to indicate the location of mine lease on Google Earth/ DSS.

2. M/s SAIL has made an online application vide IA/OR/MIN/216764/2021 dated 26.06.2021 and submitted updated Form 1 under para 7(ii) of the provisions of the EIA Notification, 2006 for the project mentioned above. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals under Category "A" of the schedule of the EIA Notification, 2006 and appraised at the Central level. PP also submitted that

proposal attracts the general condition as the mining lease area is located at a distance of ~0.3 km, N from Odisha-Jharkhand inter-state boundary.

3. The Committee noted that the proposal submitted by the Project Proponent is under para 7(ii) of EIA Notification 2006. The Committee observed that as per EIA Notification 2006 there will be due diligence necessary including preparation of EIA and public consultation and the application shall be appraised accordingly for grant of environmental clearance under para 7(ii) of EIA Notification 2006. Therefore, the Committee **deferred** the proposal for want of additional information:

- i. The Project Proponent should submit the current environmental status, current practices followed during mining which includes extraction of mineral, dumping of mineral, tailing ponds, processing plants and its ultimate disposal covering both ML – 130 (2486.383 ha) and ML – 162 (77.94 ha) with EIA/EMP report.
- ii. The Project Proponent needs to submit the status of beneficiation plant within the lease area and details of EC for beneficiation plant if any.
- iii. The Project Proponent must include current baseline data and the recent Public concerns.
- iv. The Project Proponent submitted that out of 2564.323 ha, 2425.613 ha Forest Land (Toda R.F.) and 138.710 ha Non-Forest Land. PP obtained Stage-II FC for 2341.931 Ha vide letter dated 06.03.2013 and for 77.94 ha for development of mining infrastructure vide letter dated 23.10.2017. PP needs to submit the status of remaining forest land of 5.742 ha and submit the copy of Forest Clearances obtained.

4.2 Proposal for Amendment in Terms of Reference for seeking exemption of Public Hearing in TOR Lr J-110105/79/2020-IA.II(M) dated 08.02.2021 for production capacity of 0.6 MTPA of Bauxite over an ML area of 268.110 ha of Maliparbat Bauxite Mine of M/s Hindalco Industries Limited located at Aligaon-Kankaramba, Sorishpadar Village, Pottangi Tehsil, Koraput District, Odisha [File No. J-110105/79/2020-IA.II(M); Proposal No. IA/OR/MIN/216098/2021, Consultant-Vimta Labs Ltd]– Amendment in Terms of Reference

EAC Meeting Details:

EAC meeting	33 rd
Date of Meeting	13 th to 16 th July, 2021

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The Proposal of M/s Hindalco Industries Limited located is for Amendment in Terms of Reference for seeking exemption of Public Hearing in ToR Lr J-110105/79/2020-IA.II(M) dated 08.02.2021 for production capacity of 0.6 MTPA of Bauxite over an ML area of 268.110 ha of Maliparbat Bauxite Mine located at Aligaon-Kankaramba, Sorishpadar Village, Pottangi Tehsil, Koraput District, Odisha. The mine lease area is located between Latitude 18° 39' 32.810" to 18° 40' 28.384" N & Longitude of 82° 53' 22.815" to 82° 55' 50.244" E. The mine lease area falls under the Survey of India Topo-sheet Nos. 65 J/13, J/14 and 65 N/2 and falls in seismic zone-II.

2. As per EIA Notification dated 14th Sept, 2006 and its subsequent amendments, the project falls under Project Activity 1 (a) "Mining of Minerals" and is Category "A" project.

3. The proposal for amendment in Terms of Reference was considered in the 33rd EAC meeting held during 13th to 16th July, 2021. After detailed deliberations made by the Project Proponent and the Consultant, the Committee noted that the ToR dated 08.02.2021 was issued keeping a view on violation of the EIA Notification, 2006 as PP operated the mine without obtaining Environmental Clearance till 2013-14. The PP did not submitted the application for ToR as per notification no. S.O. 1530(E) dated 06.04.2018 and the mining operations were discontinued for a period more than 5 years from the date of application for grant of EC. Hence, the MoEF&CC OM vide No. 22-04/2020-IA.III dated 16.02.2021 is not applicable in the instant proposal. Therefore, the Committee **returned the proposal in present form.**

4.3 Proposal for Terms of Reference of M/s SAIL for Expansion of Barsua-Taldih-Kalta Iron Mines (Amalgamated ML area: 2564.323 ha) from 8.05 MTPA to 16 MTPA (ROM) with total excavation of 22 MTPA and installation of new Dry Processing Plants of 7 MTPA for Taldih and 4 MTPA for Kalta and augmentation of existing 3.5 MTPA Barsua Beneficiation Plant located at Tantra & Bahamba Villages and Toda R.F, Tahasil Koira under Bonai Subdivision of Sundargarh District, Odisha - [Proposal No: IA/OR/MIN/217220/2021, File No. J-11015/351/2006-IA.II(M), Consultant: Nil] - Terms of Reference (ToR)

EAC Meeting Details:

EAC meeting	33 rd
Date of Meeting	13 th to 16 th July, 2021

The Proposal of M/s SAIL is for grant of Term of Reference for Expansion of Barsua-TaldihKalta Iron Mines (Amalgamated ML area: 2564.323 ha) from 8.05 MTPA to 16 MTPA (ROM) with total excavation of 22 MTPA and installation of new Dry

Processing Plants of 7 MTPA for Taldih and 4 MTPA for Kalta and augmentation of existing 3.5 MTPA Barsua Beneficiation Plant located at Tantra & Bahamba Villages and Toda R.F, Tahasil Koira under Bonai Subdivision of Sundargarh District, Odisha. The mine lease area is located between Latitude 21°49' 25.43880" N to 21°59' 50.88516" N and Longitude 85° 07' 43.73832" E to 85° 13' 53.48136" E. The mine lease area falls under the Survey of India Topo sheet No: 73G/1 (F45N1) and falls in Seismic Zone-II.

2. M/s SAIL initially made an online application vide IA/OR/MIN/192496/2021 dated 03.04.2021 and submitted Form 1 and Prefeasibility report under the provisions of the EIA Notification, 2006 for the project mentioned above. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals & 2(b) Mineral beneficiation under Category "A" of the schedule of the EIA Notification, 2006 and appraised at the Central level. PP also submitted that proposal attracts the general condition as the mining lease area is located at a distance of ~0.3 km, N from Odisha-Jharkhand inter-state boundary.

3. The proposal for Terms of Reference was considered in the 33rd EAC meeting held during 13th to 16th July, 2021. After detailed deliberations made by the Project Proponent, the Committee noted that the PP amalgamated the contiguous Mining Leases viz ML – 130 (2486.383 ha) and ML – 162 (77.94 ha) covering total area of 2564.323 ha on 02.12.2020 and PP did not obtain amendment in EC after amalgamation of mining leases. Therefore, the Committee **returned the proposal in present form** and is of the view that as the proposal for amendment in EC is already in consideration hence, PP should apply for Terms of Reference after obtaining the necessary amendment in EC for amalgamation of mining leases.

4.4 Proposal for Terms of Reference of M/s Bhushan Power & Steel Limited for Netrabandha Pahar Iron ore Block with Total excavation of 2.680 MTPA [2.0 MTPA (ROM), OB - 0.680 MTPA] along with 2x100 TPH mobile crusher in the mine lease area of 139.223 Ha, located at village Baladihi, Tehsil Koira, District Sundargarh, Odisha - [Proposal No: IA/OR/MIN/217394/2021, IA-J-11015/51/2021-IA-II(M), Consultant: Min Mec Consultancy Pvt. Ltd] - Terms of Reference (ToR)

EAC Meeting Details:

EAC meeting	33 rd
Date of Meeting	13 th to 16 th July, 2021

The proposal of M/s Bhushan Power & Steel Ltd. is for Terms of Reference for Netrabandha Pahar Iron Ore Block with Total excavation of 2.680 MTPA [2.0 MTPA (ROM), OB - 0.680 MTPA] along with 2x100 TPH mobile crusher in the mine lease area

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of 139.223 Ha located at village Baladihi, Tehsil Koira, District Sundargarh, Odisha. The mine lease area is bounded between Latitude of 21°52' 05.242" N to 21°52' 54.542" N and Longitude of 85°17'10.449" E to 85°17' 56.810" E. The mine lease area falls in the Survey of India Toposheet No. 73 G/5 (open series map F45N5) and falls in Seismic Zone-II. The PP presented the KML file during the presentation to indicate the location of mine lease on Google Earth/ DSS.

2. M/s Bhushan Power and Steel Ltd initially made an online application vide IA/OR/MIN/70569/2017 dated 26.10.2017 and submitted Form1 and Prefeasibility report under the provisions of the EIA Notification, 2006 for the project mentioned above. The Ministry informed the PP that, as the carrying capacity study in the area was under process by NEERI hence it was decided that the proposal will be taken up only after finalization of recommendation on NEERI study. Then the proposal was then placed in the EAC meeting held during November 15-16, 2018 wherein PP did not attend the meeting hence Committee deferred the proposal. The proposal was delisted on 05.09.2020 and after request letter dated 03.04.2021 from PP, it was relisted on 03.04.2021. PP again submitted the proposal on 04.06.2021 and the proposal was placed in the EAC meeting held on 9th -15th June, 2021 wherein noted that the Project Proponent has not submitted the valid Letter of Intent (LOI) and proof of submission of application for Forest Clearance. Thus, the Committee was of the view that Letter of Intent (LoI) is the basis for considering the proposal for prescribing the Term of Reference and as the same is in question in the instant case, the proposal could not be considered in present form. Therefore, the Committee returned the proposal in present

3. The Project Proponent again submitted the fresh application vide proposal no. IA/OR/MIN/217394/2017 dated 01.07.2021 along with revised form-1 and PFR and the proposal was placed in the 33rd EAC meeting held during 13th -16th July, 2021.

4. Lease Detail

S.no	Grant of PI/mine lease/ Order	Date of the grant	Name of the Mineral	Period of Grant	Granted by	Mine lease area in Ha
1	Letter of Intent vide Lr No no. 5283/SM.IV(Misc) SM- 52/ 2017/SM	24.06.2017	Iron Ore	24.06.2017 to 23.06.2020	Govt, of Odisha	139.0
2	Corrigendum vide Lr No. IV(Misc)SM- 52/2017/6285/	27.07.2017	Iron Ore	24.06.2017 to 23.06.2020	Govt, of Odisha	139.223

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	SM					
3	Extension of Validity of LOI vide Lr No vide letter no. 6350/SM.IV(B) SM-58/2017	27.07.2020	Iron Ore	24.06.2020 to 23.06.2022	Govt, of Odisha	139.223

5. Mining plan

S.no	Mining Plan along with the Conceptual Plan Approved By	Letter no	Dated of Approval	Grant period	Details
1	Approval of Mining Plan along with PMCP by Indian Bureau of Mines	MP/FM/13-ORI/BHU/2017-18	18.10.2017	5 years	Iron Ore over an area of 139.223 Ha

6. The Project Proponent submitted that fully mechanized method with the deployment of earth moving machineries like crawler mounted drill rig, air compressor, backhoe shovels, rock breaker, 25 tonner dumpers etc. will be adopted. PP reported that total Geological reserve is 81.976 MT and Mineable reserve is 64.577 MT. The life of mine will be 33 years. The height and width of the benches will be kept at 6 m & 10 m respectively for easy vehicular movement keeping the faces at 80° whereas the overall quarry slope angle is proposed to be kept at around 45° with the horizontal. Drilling will be carried out by means of 115 mm dia crawler drill with 610 HP compressor. For secondary breaking hydraulic rock breaker will be deployed. Thus, secondary drilling and blasting is eliminated. Blasting will be carried out with the help of explosives (slurry type) boosters and ANFO and Class-VI explosives (TLD, electric detonators and detonating fuse). PP submitted that within ML area blasted/ broken material transported by haul road (10 m) using shovel of 1.3 M³ bucket capacity in combination with 25 tonne dumpers. ROM containing mainly blasted hard ore will be fed to a mobile crushing-screening plant fitted with grizzly. ROM with SLO, Fines, BD will be fed directly to mobile screening plants and these screening plants will also be fitted with grizzly. The oversized materials will be fed to crushing plant. PP also submitted that major consumer is anticipated to be BPSL's Steel plant at Thekoloji near Jharsugudha, Odisha. Several option for transportation are explored as follows a) By Road to BPSL' Steel Plant, b) By road from mine to Barsuan railway siding (30 km) followed by rail to BPSL's steel plant (200 km) and c) It is also proposed to setup 180 km slurry pipe line from Koira to Thekoloji for iron ore fines transfer, which will be used as soon as it becomes operational. PP submitted that 1,05,02,550 CuM OB will generate which will be 100%

reused for backfilling. PP also reported that water table is likely not to be encountered during life of mining as the ground level was not encountered in any drilled holes and quarry floor will not be lower than the explored level.

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

Particulars	Distance	Direction
Baladihi Village	adjoining lease area	
Biradihi Village	25 m	
Koira Town	4.6 km	NW
Koira to Tensa road	4.6 km	NW
National Highway NH-520 (Lahunipara to Bhadrasahi)	4.7 km	NW
Nayagarh Railway Station	14.2 km	ESE
Khajuradihi Nala	Core zone	
Porhadihi Nala	0.25 km	E
Teherei Nala	0.7 km	NW
Archanda Nala	1.7 km	E
Khuntachira Nala	2 km	SW

8. Water requirement

Total water requirement	167.0 KLD	Drinking	4.0 KLD
		Industrial	163.0 KLD
Source	(i) Water harvested within mine lease during rainy season. (ii) Surface water from Teherai Nala/ nearby river for industrial use. (iii) Ground water for drinking purpose.		

9. The Project Proponent submitted that out of total area proposed for green belt/plantation of 66.785 ha, 45.632 Ha shall be reclaimed by backfilling, 17.37 Ha shall be used for bench plantation and 3.783 ha shall be used for safety zone. PP submitted that the 7.5m of mine periphery had been developed under plantation in the mine lease. Plantation along block boundary shall be taken up to make a green belt. At the ultimate stage, reclamation and post mining land use pattern of the area shall emerge as follows:- i) Dead benches of all the quarries shall be rehabilitated by plantation. ii) Total dump area shall be planted by different species. iii) Roads shall be kept and handed over to the Govt authority for their use, after negotiation. If not required, the same shall also be rehabilitated by plantation and iv) The entire degraded area shall be reclaimed and rehabilitated at ultimate stage and handed over to the forest authority.

10. The Project Proponent submitted that out of total ML area of 139.223 Ha, Forest area is 112.621 Ha and Govt. land is 13.815 Ha (Gochar 7.587Ha, road 0.510Ha, 3.947Ha Habitation, 0.732Ha Worship place, 0.599Ha grave yard & 0.44Ha Nala) & tenanted land is 12.787Ha (0.645Ha Gharbari & 12.142Ha Agriculture). Out of the total

forest land 112.621 ha within the ML, Reserve Forest is 67.022 ha and DLC forest is 45.599 ha. PP submitted the proposal for diversion of forest land of 112.621 ha vide proposal no FP/OR/MIN/26965/2017 dated 05.07.2017. PP reported that following Reserve Forests are located in 10 km radius of the project as follows: RF near Anandpur (2.9 km, WNW), Mendhamaruni RF (4.2 km, NNW), Kathamala RF (4.8 km, NW), Sarkanda RF (5.3 km, W), Khajurdihi RF (5.4 km, SW), Uliburu RF (8.9 km, NNW), Karo RF (8.9 km, NNW), Baitarani RF (9.0 km, NE) and Siddmath RF (9.6 km, NNE). PP submitted that there is no National Park, Wildlife Sanctuary, Elephant/Tiger Reserves, Wildlife Corridors within 10 km radius. PP reported that two Schedule-I species such as *Melursus Ursinus* (Sloth bear) and *Indian Python* (Ajagar) are found in the study area.

11. The Project Proponent submitted that one season Baseline Study has been carried out during Summer Season (March to May 2021).

12. The Project Proponent submitted that Rehabilitation / Resettlement are required since there is human habitation within the target area. A house compensation of about Rs. 5 lakh per house and R & R benefits of Rs. 20 Lakh per person will be provided to estimated 20 householders and 55 persons respectively. There are small areas used as place of worship and a graveyard in the south eastern corner of the block. There is no proposal for any type of mining activities in these areas. Additionally, safety zones have been proposed as follows: i) Safety zone of 7.5 mt all along the block boundary, ii) Safety zone of 10 mt from the village road which passes along the block boundary, iii) 10 mt from the zone in the south-east corner of the block, formed by the presence of objectionable lands like bijesthali, smasan, nala, road etc. iv) 50 mt from perennial nala.

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

14. Details of project cost and employment:

Particulars	Budget (Rs. In Crore)
Project Cost	Rs. 50
Employment	235 persons

15. The proposal for Terms of Reference was considered in the 33rd EAC meeting held during 13th to 16th July, 2021. Based on the documents submitted and presentation made by the Project Proponent and the Consultant, the Committee **recommended** the proposal for Terms of Reference of M/s Bhushan Power & Steel Ltd for Netrabandha Pahar Iron Ore Block with Total excavation of 2.680 MTPA [2.0 MTPA (ROM), OB - 0.680 MTPA] along with 2x100 TPH mobile crusher in the mine lease area of 139.223 Ha located at village Baladihi, Tehsil Koira, District Sundargarh, Odisha. In addition to Standard Term of Reference for non-coal mining, along with the recommendation made

by NEERI in its carrying capacity study for Odisha, the Committee also prescribed the following specific term of reference for this project: -

- i. The Project Proponent needs to carry out the Public Hearing as per provisions of EIA Notification, 2006. PP should also submit the time bound action plan on concerns of the Public through proper separate budget.
- ii. The Project Proponent shall allocate separate budget for the public in terms of health care facilities for COVID, betterment of schools nearby and to facilitate the online education system by providing Wi-Fi connectivity and desktops/tablets, infrastructure and environment protection.
- iii. The Project Proponent shall revise the project cost including R&R.
- iv. The Project Proponent needs to carry out a cumulative impact assessment by considering all the other mines in the vicinity of 2km and submit the data for noise and vibration due to blasting at site and 50m, 100m & 200m from the site. PP shall also submit the modeling for Air Quality, Noise level and Ground vibration.
- v. The Project Proponent shall undertake the adequate plantation with the seedling of 10 ft height with at least 90% survival rate and the plantation shall be completed within 3 years from the start of mining operations. Undertaking in this regard needs to be submitted by the PP.
- vi. The Project Proponent should propose adequate control measures for the protection of existing water bodies within the study area.
- vii. The Project Proponent shall undertake the bench plantation at least up to 3 benches during mining and up to the water level of the abandoned benches proposed for creation of water bodies.
- viii. To reduce the diesel consumption, the Project Proponent shall explore the possibility for use of electrically/solar operated vehicles and other equipments.
- ix. The Project Proponent shall undertake adequate control measures for abatement of pollution through mobile crushers.
- x. The Project Proponent should prepare the EMP considering the scenario of pollution to be generated for normative and peak total excavation for assessing air and noise pollution.

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- xi. The Project Proponent needs to ascertain the impact of transportation and details of transportation route viz. (length of the road, type of road, passing through the village or habitation) and mitigative measures to be taken for abatement of pollution due to transportation. The budget for the same needs to be provided.
- xii. The Project Proponent should collect data on current agricultural practices in the study area and impact of mining on it and submit during the appraisal for EC.
- xiii. Ecological restoration plan shall be submitted by the PP.
- xiv. Project Proponent should ensure the protection of the graveyard; temple & nallah and the approach road should neither be disturbed nor diverted.
- xv. The Project Proponent shall also organize employment-based apprenticeship/ internship training program every year with appropriate stipend for the youth and other programs to enhance the skill of the local people.
- xvi. The Project Proponent should submit the NOC from CGWA for withdrawal of water.

List of members of Expert Appraisal Committee participated through VC

S.No.	Member Name	Member Address	Designation	13 th July 2021	14 th July 2021	15 th July 2021	16 th July 2021
1	Dr. S.R. Wate	Add. 148/149, Nagar Vikas Society, Narendra Nagar, Nagpur-440015, Maharashtra	Chairman	Yes	Yes	Yes	Yes
2	Dr. Ajay Deshpande	Building A-26, Flat-403, Happy Valley Homes, Manpada, Ghodbunder Road, Thane (West) - 400610, Maharashtra	Member	Yes	Yes	Yes	Yes
3	Shri B Ramesh Kumar	H-No. 6-1-134/6, Balram Compound, Padmarao Nagar, Secundrabad-500025, Andhra Pradesh	Member	Yes	Yes	Yes	Yes
4	Prof. S. Ramakrishna Rao	50-120-9/1, Tulasi Mani Regency North Extension, Seethammadhara, Visakhapatnam - 530013 Andhra Pradesh.	Member	Yes	Yes	Yes	Yes
5	Shri Santosh Gupta	Flat No. 405, Block -B, Gaur Green Vista, NyayKhand - 1, Indrapuram, Ghaziabad- 201014	Member	Yes	Yes	Yes	Yes

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6	Dr. (Ms.) Asha Rajvanshi	Wildlife Institute of Inida, Chandrabani, Dehradun- 248001	Member	Yes	Yes	Yes	Yes
7	Shri G.P. Kundargi	Plot No. 32, MOIL Vatika, Chicholi Road, Fetri, Nagpur 441501, Maharashtra	Member	Yes	Yes	Yes	Yes
8	Dr. A.K. Malhotra	House no.33, Sector-11 Dwarka, New Delhi-110075	Member	Yes	Yes	Yes	Yes
9	Dr. Gurdeep Singh	Centre of Mining Environment, Department of Environmental Science & Engg. Indian Institute of Technology (Indian School of Mines), Dhanbad-826004	Member	Yes	Yes	Yes	Yes
10	Dr. Parimal Chandra Bhattacharjee	A/3 Asiyana Housing Complex Maligaon, Guwahati-781011, Assam	Member	Yes	No	Yes	Yes
11	Prof. Mukesh Khare	Department of Civil Engineering, IIT, Delhi	Member	No	Yes	Yes	Yes
12	Mr. V. K. Soni	Government of India, Ministry of Earth Sciences, India Meteorological Department, Mausam Bhawan, Lodi Road, New Delhi – 110003	Member	No	No	No	No
13	Sh. Pankaj Kulakshethra	Regional Controller of Mines, IBM Block D, Second Floor,	Member	No	No	No	No

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		Indira Bhavan, Civil Lines, Nagpur - 440001					
14	Sh. P.K.Kundu	Representative of DGMS	Member	No	No	No	Yes
15	Shri Gowrappan	No. 6, Ganesh Avenue, II Street, Shakti Nagar, Porur, Chennai, Tamil Nadu-600116	Member	Yes	No	No	No
16	Shri Pankaj Verma	2 nd Floor, Prithvi Block, Indira ParyavaranBhawan, MoEF&CC, Jorbag, New Delhi- 110003	Member Secretary	Yes	Yes	Yes	Yes
