

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

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**SUMMARY RECORD OF 20<sup>TH</sup> MEETING OF THE COMMITTEE OF THE RE-CONSTITUTION OF EXPERT APPRAISAL COMMITTEE FOR ENVIRONMENTAL APPRAISAL OF NON-COAL MINING PROJECTS CONSTITUTED UNDER THE EIA NOTIFICATION, 2006.**

The 20<sup>th</sup> meeting of the Re-constitution of Expert Appraisal Committee (EAC) for Environmental Appraisal of Mining Projects (Non-Coal) of the Ministry of Environment, Forest and Climate Change was held during 21-22 September, 2023 through video conference. The list of participants is annexed herewith. After login of the Committee Members through video conference link provided by NIC discussion on each of the Agenda Items was taken up ad-seriatim.

**(1.0) Deliberation & Circulation on the Minutes of 19<sup>th</sup>EAC (Non-Coal Mining) meeting held during 24-25 August, 2023:**

The minutes of the 19<sup>th</sup> EAC meeting held during 24-25 August, 2023 were placed before the members of the EAC.

**Day 1: 21<sup>st</sup> September, 2023 (Thursday)**

**1.1 Proposal for Mining of Iron Ore in Jilling Langalotta Iron Ore Mine of M/s Odisha Mining Corporation Limited with total excavation of 17.4385 Million TPA [Saleable Iron ore- 7.7723 Million TPA, Mineral rejects-2.2276 Million TPA, Waste- 7.4385 Million TPA, Topsoil: Nil] along with existing: 5 nos. with Total Capacity - 1400 TPH (Stationary Crushing Unit), 2 x 300 TPH, 2 x 200 TPH, 1 x 400 TPH, Existing: 3 nos. with Total Capacity - 150 TPH (Mobile Screening Unit), 1 x 150 TPH Mobile Screening Plant 1 x 50 TPH, Stationary Screening Plant, 1 x 100 TPH Mobile Screening Plant, New: 10 nos. with Total Capacity - 4550 TPH (Crushing Unit), 1x800 TPH, 3 x 600 TPH, 3 x 400 TPH, 1 x 300 TPH, 1 x 250 TPH, 1x 200 TPH, New: 4 nos. with Total Capacity - 1000 TPH (Portable Screening Units), 4 x 250 TPH in the mine lease area of [456.037 ha (as per DGPS)/456.100 ha (as per RoR)] located at Village(s) Jalahari, Jurudi, Banspani, Khuntapani, Bholebeda, Jajang, Baitarani Reserve Forest in Barbil Tehsil, Keonjhar District, Odisha - [Proposal No: IA/OR/MIN/440292/2023, IA-J11015/34/2021-IA-II(M), EIA Consultant: M/s. MECON Ltd] - Environmental Clearance (Auction mine)**

The instant proposal is for mining of Iron Ore in Jilling Langalotta Iron Ore Mine of M/s Odisha Mining Corporation Limited with total excavation of 17.4385 Million TPA

Minutes of 20<sup>th</sup> EAC (Non Coal Mining) meeting held during 21-22 September, 2023

[Saleable Iron ore- 7.7723 Million TPA, Mineral rejects-2.2276 Million TPA, Waste-7.4385 Million TPA, Topsoil: Nil] along with existing: 5 nos. with Total Capacity - 1400 TPH (Stationary Crushing Unit), 2 x 300 TPH, 2 x 200 TPH, 1 x 400 TPH, Existing: 3 nos. with Total Capacity - 150 TPH (Mobile Screening Unit), 1 x 150 TPH Mobile Screening Plant 1 x 50 TPH, Stationary Screening Plant, 1 x 100 TPH Mobile Screening Plant, New: 10 nos. with Total Capacity - 4550 TPH (Crushing Unit), 1x800 TPH, 3 x 600 TPH, 3 x 400 TPH, 1 x 300 TPH, 1 x 250 TPH, 1x 200 TPH, New: 4 nos. with Total Capacity - 1000 TPH (Portable Screening Units), 4 x 250 TPH in the mine lease area of [456.037 ha (as per DGPS)/456.100 ha (as per RoR)] located at Village(s) Jalahari, Jurudi, Banspani, Khuntapani, Bholebeda, Jajang, Baitarani Reserve Forest in Barbil Tehsil, Keonjhar District, Odisha.

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

- i. The mine lease area is 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 Toposheet No: 73F/8 and 73G/5 and falls in Seismic Zone-II.
- ii. The proposed project activity is listed at Schedule no. 1(a) Mining of Minerals of the schedule of the EIA Notification, 2006 and falls under Category "A" as the mining lease area is greater than 250ha and appraised at the Central level.
- iii. The Project Proponent has 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 7<sup>th</sup> June 2012.
- iv. Details of Terms of Reference (ToR):

Date of application	File. No/ Proposal No	Consideration	Details	Date of accord
13.04.2021	IA-J11015/ 34/2021-IA- II(M)  IA/OR/MIN/ 207724/2021	13-16 July, 2021	Terms of Reference of M/s Odisha Mining Corporation for Jilling Langalotta Iron Ore Mine [456.037 ha (as per DGPS)/456.100 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	04.08.2021

Minutes of 20<sup>th</sup> EAC (Non Coal Mining) meeting held during 21-22 September, 2023

			<p>proposed 1 x 2000 TPH stationary multistage crushing &amp; screening plant along with existing 1x300 TPH Stationary Crusher Plant (In pit plant), 1x300 TPH Stationary Crusher Plant (OCU1), 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</p>	
26.10.2022	<p>IA-J11015/34/2021-IA-II(M)</p> <p>IA/OR/MIN/292822/2022</p>	<p>9-11 November, 2022</p>	<p>Amendment in Terms of Reference (ToR) dated 04.08.2021 for M/s Odisha Mining Corporation Limited for Jilling Langalotta Iron Ore Mine [456.037 ha (as per DGPS)/456.100 ha (as per RoR)] with total excavation of 17.4385 Million TPA [Saleable Iron ore- 7.7723 Million TPA, Mineral rejects- 2.2276 Million TPA, Waste-7.4385 Million TPA, Topsoil: Nil] along with Existing: 5 nos. with</p>	28.11.2022

Minutes of 20<sup>th</sup> EAC (Non Coal Mining) meeting held during 21-22 September, 2023

			<p>Total Capacity - 1400 TPH (Stationary Crushing Unit), 2 x 300 TPH, 2 x 200 TPH, 1 x 400 TPH, Existing: 3 nos. with Total Capacity - 150 TPH (Mobile Screening Unit), 1 x 150 TPH Mobile Screening Plant 1 x 50 TPH, Stationary Screening Plant, 1 x 100 TPH Mobile Screening Plant, New: 10 nos. with Total Capacity - 4550 TPH (Crushing Unit), 1x800 TPH, 3 x 600 TPH, 3 x 400 TPH, 1 x 300 TPH, 1 x 250 TPH, 1x 200 TPH, New: 4 nos. with Total Capacity – 1000 TPH (Portable Screening Units), 4 x 250 TPH, located at Village(s) Jalahari, Jurudi, Banspani, Khuntapani, Bholebeda, Jajang, Baitarani Reserve Forest in Barbil Tehsil, Keonjhar District, Odisha</p>	
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v. Details of Mine Lease:-

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 Jilling-Langlotta Iron Ore vide No 299/ IV(AB)SM-01/ 2021/SM, Bhubaneshwar	11.01.2021	Iron Ore	10 years	Govt of Odisha	456.037 ha (as per DGPS)/ 456.100 ha ha (as per RoR)
2	Letter of Intent vide 307/IV(AB) SM-01/2021/SM, Bhubaneshwar	11.01.2021	Iron Ore	10 years	Govt of Odisha	456.037 ha (as per DGPS)/ 456.100 ha ha (as per RoR)
3	Order No 317/IV	11.01.2021	Iron Ore	10 years	Govt of	456.037 ha (as

Minutes of 20<sup>th</sup> EAC (Non Coal Mining) meeting held during 21-22 September, 2023

	(AB) SM-01/2021/SM and 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.				Odisha	per DGPS)/ 456.100 ha ha (as per RoR)
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)/ 456.100 ha ha (as per RoR)

vi. 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	Certificate No: IN-OD01560940427432T

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

Private land	42.001 ha
Forest Land	392.289 ha
Non-Forest Govt. Land	21.747 ha
Total Mining lease area (MLA)	456.037 ha (as per DGPS Survey)
Private land for crusher, workshop & other infrastructure outside the MLA	All facilities within ML Area
Additional information(if any)	ML Area 456.100 ha as per RoR

viii. Details of Mining Plan: -

Modification of Mining Plan along with Progressive Mine Closure Plan approved by Indian Bureau of Mines	Letter No.	Lr No. MPM/A/15-ORI/BHU/2021-22/1241
	Date	18.11.2021
	MLA	456.037 ha (as per DGPS)/ 456.100 ha ha (as per RoR)
	Mineral	Iron Ore (Major Mineral)
	Validity	Up to 2024 - 25

Minutes of 20<sup>th</sup> EAC (Non Coal Mining) meeting held during 21-22 September, 2023

Additional information (if any)	On account of correction in the waste quantity, a corrigendum to the Mining Plan Approval Letter was issued by IBM vide letter No. ORI/IRON/KJR/MCDR-93/BBS dated 11.10.2022
Mining Parameters	Quantitative Description
Method of Mining	Fully Mechanised Open Cast Mining
Drilling/Blasting	In Jilling-Langalotta, Jilling-Gangaigora and Appahatu quarries 13 m and 11 m deep boreholes respectively will be drilled using 115 - 150 mm dia DTH drills. These will be filled with explosives and blasted. The powder factor has been estimated to be 12 t/kg. The explosives consumption at the 6.28 MTPA stage ~875 t/yr which is expected to increase to 1306 t/yr at the 10 MTPA stage.
Bench Height	10 m
Bench Width	10 - 15 m
Individual bench slope	80° - 85°
Overall pit slope	45°
Life of mine	8 years incl. present plan period. May be revised on basis if reserves are updated on basis of further detailed exploration
RoM output size	10.0 MTPA
Transportation details	At least 70% of the production will be despatched by railway wagons from private siding located within ML area. Max. 30% of production will be despatched by road.
Dumpers capacity	28 nos. 60 t capacity + 40 nos. 80 t capacity
OB/Waste	About 11.59 Mm <sup>3</sup> overburden will be generated and 1.74 Mm <sup>3</sup> will be dumped in existing active external OB dump within ML. About 0.528 Mm <sup>3</sup> will be dumped in 2 new external OB dump within mine lease. Balance 9.32 Mm <sup>3</sup> will be used for backfilling exhausted quarries. All mineral rejects, generated during the residual mine life to be blended with high quality iron ore & sold. Accumulated stock of mineral rejects, presently dumped in 2 nos. external dumps to be re-handled and sold off with / without blending. Any top soil to be generated shall be concurrently used in plantation.
Additional information (if any)	One of the existing open cast quarries (out of the four) exhausted. These will be backfilled.

ix. Water requirement:

Total water requirement	1166 m <sup>3</sup> /day	Fresh water	916 m <sup>3</sup> /day
		Treated water	250 m <sup>3</sup> /day
Source	Ground water and Surface water		
Permission	No Objection Certificate has been obtained from CGWA vide letter no. CGWA/NOC/MIN/REN/1/2023/7964 dated 22-06-2023 for abstraction of fresh water of 480 m <sup>3</sup> /day and is valid up to the period 30.03.2024.		
Additional	In future, about 916 m <sup>3</sup> /day of fresh water is required, 436 m <sup>3</sup> /day		

Minutes of 20<sup>th</sup> EAC (Non Coal Mining) meeting held during 21-22 September, 2023

information(if any)	shall be drawn from DalkoNala which flows through the ML area. OMC is submitting an application to the Department of Water Resources, Govt. of Odisha for drawal of water from DalkoNala. The balance 480 m <sup>3</sup> /day (only for potable use) shall be drawn from bore-wells.
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x. Nearest village / town/ highway/railway station / water bodies/monument:

Particulars	Particular's Name	Distance & Directions
Village	Jalahari Jurudi	Part of Village located within NW part of ML area Adjacent to M.L. area on West
Town	Joda	~2.5 km N
Highway	Expressway No. 2 NH-215	Expressway No. 2 passes through ML area NH-520: ~6.8 Km N
Interstate Boundary	Odisha-Jharkhand	~15.2 km, NE
Railway Station/line	Jalhari SE-Rly.'s Padapahar Jn.– Banspani – Keonjhar – Jakhapura Jn. B.G. Main Line passes through ML	~0.7 km W of ML
Water body	DalkoNala Baitarani River	Flows from W to E through approx. Middle of ML area ~0.5 km, E
Monument	None within 15 km	

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

Forest Land/Protected Area/ Environmental Sensitivity Zone	Yes/ No	Details of Certificate/letter/Remarks
Forest Land	Yes	An area of 392.289 ha of forest land lies within mine lease area. Stage II FC obtained vide Lr No F.No-8-49/98FC(pt) dated 8 <sup>th</sup> October 2014 for an area of 342.602 ha of forest land.  An application for diversion of balance area of 22.697 ha of forest land has been submitted vide proposal no. FP/OR/MIN/142115/2021 dated 08.05.2021. Compliance to the ADS sought by MoEFCC during scrutiny of Stage-I FC compliance is under recommendation process by State Forest Dept. Net Present Value (NPV) of the Forest amounting to Rs. 27,71,46,750/- has been paid.
National park	No	Nil within 10 km radius
Wildlife Sanctuary	No	
Eco-Sensitive Zone(ESZ)/Eco-	No	

Minutes of 20<sup>th</sup> EAC (Non Coal Mining) meeting held during 21-22 September, 2023

Sensitive Area(ESA)		
Wildlife corridor, migration route etc.	No	Karo-Karampada Elephant corridor: ~18 km, NW
Schedule-I Species	Yes	Indian Elephant, Sloth-bear & Mouse Deer as per the list authenticated by DFO Keonjhar Division.
Wildlife Conservation Plan	Yes	Site-Specific Conservation Plan has been prepared and approved by the PCCF (WL) vide letter No.10895 dt.15.12.2010. Total financial out lay: Rs.412.00 lakhs .

xii. Green belt/plantation details:

Proposed area for green belt/plantation	183.718 ha at Conceptual Stage
Budget for green plant& plantation till the end of life of mine.	Rs 4,54,50,000/- (Rupees Four Crore Fifty Four Lakhs Fifty Thousand Only)
Budget for nursery	Nil as plantation will be outsourced to Odisha State Forest Development Corporation (a Govt. of Odisha entity) who has their own nurseries.
7.5 m barrier & non-mineralized zone	83.0191 ha (40.696 ha over external dumps + 39.5539 ha mineral storage area + 2.7692 ha mineral processing area)
50 m safety zone of nallah, roads, electric lines	Included in above
500 m safety zones of nearest habitation villages	-
Additional information (if any)	Plantations over an area of 1.91 ha of exhausted quarry benches & backfilled areas

xiii. Baseline details:

Baseline Data (Air / Water / Noise / Soil / Ground water table/ others)			
Period of baseline data collection	01-10-2021 to 31-12-2021		
Season (Summer / Pre-monsoon / Post-monsoon / Winter)	Post-Monsoon Season		
Predominant Wind direction (From)	West		
Ambient Air Quality (no. of locations) and results	No. of Location	Parameters	Results
	9	PM10	44.0 to 95.0 $\mu\text{g}/\text{m}^3$
		PM2.5	27.0 to 55.0 $\mu\text{g}/\text{m}^3$
		SO2	4.0 to 10.2 $\mu\text{g}/\text{m}^3$
		NO2	10.3 to 22.0 $\mu\text{g}/\text{m}^3$
CO		0.087 to 1.654 $\text{mg}/\text{m}^3$	



Minutes of 20<sup>th</sup> EAC (Non Coal Mining) meeting held during 21-22 September, 2023

Noise level (no. of locations) and results	No. of Location	Parameters	Results
	08	During Day Time [Leq dB(A)]	38.1 to 56.4
		During Night Time [Leq dB(A)]	37.1 to 45.8
Water Quality (no. of locations) and results	Ground water quality		
	No. of Location	Parameters	Results
	06	pH	6.71 to 7.08
		TDS (mg/l)	54 to 306
		Fluoride (mg/l)	0.1 to 0.24
		Chloride (mg/l)	13.5 to 61.7
		Fe (mg/l)	0.05 to 1.96
	Surface Water Quality		
	No. of Location	Parameters	Results
	06	pH	6.94 to 7.26
DO (mg/l)		5.6 to 6.8	
BOD (mg/l)		2.0 to 3.0	
Total Coliform (MPN/100 ml)		1000 – 1700	
Soil Quality (no. of locations) and results	No. of Location	Parameters	Results
	06	pH	5.67 to 7.62
		Electrical Conductivity (µS/cm)	49.7 to 254
		Organic Matter (%)	0.84 to 5.91
		Available Nitrogen (kg/ha)	50 to 188
		Available Phosphorus (kg/ha)	0.2 to 3.1
Available Potassium (kg/ha)	98 to 476		
Traffic study (no. of locations) and results	<p>The maximum daily traffic on this road as monitored in December, 2021 was 12697 PCUs (see Table 3.53.2 in Chapter 3). It is expected that expansion of the mine will lead to increase in vehicular traffic by ~1140 PCUs per day (1 truck = 3 PCUs). Thus the resultant vehicular traffic (~13,840 PCUs/day) will remain much below the maximum design service volume. The maximum daily traffic on this road as monitored in December, 2021 was 12697 PCUs. It is expected that expansion of the mine will lead to increase in vehicular traffic by ~1140 PCUs per day (1 truck = 3 PCUs). Thus the resultant vehicular traffic (~13,840 PCUs/day) will remain much below the maximum design service volume.</p>		

xiv. Public Hearing (PH) Details:

Advertisement for PH with	❖ English daily newspaper: “The New Indian
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Minutes of 20<sup>th</sup> EAC (Non Coal Mining) meeting held during 21-22 September, 2023

date	Express”, Bhubaneshwar edition dated 06 April, 2023 ❖ Odiya daily newspaper: “The Pragatvadi”, Bhubaneshwar edition dated 06 April, 2023
Date of PH	09 <sup>th</sup> May, 2023
Venue	JalahariMouza (Khata No. 34, Plot Nos. 253, 254 &253/431), Barbil Tehsil, Keonjhar District
Chaired by	ShriJadumaniMahala, OAS, (SAG), Addl. District Magistrate (Revenue), Keonjhar
Main issues raised during PH	a) Employment b) Supply of clean drinking water c) Improvement in education facilities and infrastructure d) Improvement in health care delivery systems e) Air pollution and diseases due to air pollution f) Poor conditions of roads g) Need for support to Self Help Groups (SHGs) l) Garbage disposal
Budget proposed for addressing issues raised during PH	Rs. 1865.582 Lakhs (To be spent over 3 years)
Additional information (if any)	Meeting attended by 482 persons including 328 persons from the Core Zone Villages. 39 persons (37 from the Core Zone villages). 33 written representations also havebeen received.

xv. Details of CTE, CTO, Certified Compliance Report and Past production details:-

Consent to Establish (CTE)	Odisha State Pollution Control Board granted the Consent to Establish vide order dated 09.08.2018 in favour of M/s Essel Mining and Industries Limited.			
Consent to Operate (CTO)	Odisha State Pollution Control Board granted the Consent to Operate vide order dated 31.03.2022 for production of Iron Ore (ROM) 6.28 MTPA and the consent order is valid for the period 01.04.2022 to 31.03.2023 in favour of M/s OMC Ltd.			
Certified Compliance Report (CCR)	Certified Compliance report issued by the Regional Office, MoEF&CC vide F.No: 101-420/23/EPE dated 09.08.2023 for the EC dated 07.06.2012. Site visit was conducted on 07.07.2023.			
Past production	Certified production details issued by the Dy. Director of Mines vide Lr.Memo No: 2265/Mines, dated 18.05.2021 for the period 1994-95 to 2022-23.			
	Year of Production	EC sanctioned capacity (t)	Actual Production (t)	Excess Production beyond the EC



<p>payment towards compensation for excess production made by Ex-lessee.</p> <p>Details of Demand Notices and Status-Common Cause Judgement</p> <table border="1"> <thead> <tr> <th>S.No</th> <th>Details of Violation</th> <th>Demand Notice</th> <th>Amount</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>EC</td> <td>Demand Notice No. 4040/ Mines dt.02.09.2017</td> <td>Rs.641,2432,386/-</td> </tr> <tr> <td>2</td> <td>FC</td> <td>Demand Notice No.6375/Mines, dt. 26. 12.2017</td> <td>Rs.1056,05,98,961/-</td> </tr> <tr> <td>3</td> <td>MP/CTO</td> <td>Demand Notice No.3862/Mines, dt. 19.09.2018</td> <td>Rs. 128,12,05,207/-</td> </tr> </tbody> </table> <p>As per records available, M/s. Essel Mining &amp; Industries Ltd, had deposited a total of Rs. 1825,87,36,554/- towards the compensation amount in the designated bank account as directed by the Hon'ble Supreme Court vide order W.P. (C) No. 114/2014 (Common Cause) dated 02.08.2017. Further, OMC started operating Jilling-Langalotta Mine with effect from 28-02-2021. Since then, no Environment &amp; Forest related violation has been reported in respect of Jilling-Langalotta Iron Ore Mines.</p> <p>Project Proponent has submitted the Certificate from the Office of the Joint Director Mines Joda, Dist; Keonjhar vide No. 7304/Mines, dated 30.12.2021 certifying that the present lessee M/s Odisha Mining Corporation Limited is confined the mining activity within the granted and executed leasehold area.</p> <p>Project Proponent also submitted the Affidavit in a non-judicial stamp paper of Rs 100 bearing no. M 054791 dated 09.07.2021 stating that the M/s OMC shall comply with all the statutory requirements and judgement of Hon'ble Supreme Court dated 02.08.2017 in Writ Petition (Civil) No. 114 of 2014 in the matter of common cause versus Union of India and Others before grant of ToR/EC pertaining to Jilling-Langalota Iron Ore mining project.</p>				S.No	Details of Violation	Demand Notice	Amount	1	EC	Demand Notice No. 4040/ Mines dt.02.09.2017	Rs.641,2432,386/-	2	FC	Demand Notice No.6375/Mines, dt. 26. 12.2017	Rs.1056,05,98,961/-	3	MP/CTO	Demand Notice No.3862/Mines, dt. 19.09.2018	Rs. 128,12,05,207/-
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xvi. Rehabilitation & Resettlement (R&R):

R & R details	Present proposal does not involve any land acquisition. There are some patches of private land within the ML area but these will not be acquired.
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	Thus the project does not involve any R & R of land oustees.
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xvii. Court case details:

Court Case	The Project Proponent submitted they do not have any litigation and also not received any court notice so far in respect of Jilling-Langalotta Mines after allotment of the mine to OMC.
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xviii. Affidavit/Undertaking details:

Project Proponent submitted an Undertaking vide letter dated 09.08.2023	The Project Proponent has submitted an undertaking stating that the prescribed Terms of Reference has been complied while conducting the EIA Studies. The contents (information and data) as given by the Consultant in the EIA/EMP report are factually correct with full knowledge.
Consultant submitted an Undertaking vide letter dated 10.08.2023	The EIA/EMP report has been prepared as per ToR prescribed by MoEF&CC vide ToR letter dated 04.08.2021 and amended ToR letter dated 28.11.2022 based on baseline environmental data monitored by Environmental Engineering Laboratory, MECON Limited (CPCB recognized Laboratory) during Post-Monsoon Season 2021 and ToR prescribed for above mentioned project has been complied while conducting the EIA-EMP studies and the data submitted is factually correct.

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

Activities	Recurring cost (Lakhs Rs./yr)	Capital cost (Lakhs Rs.)
Pollution control	45	423 <sup>a</sup>
Pollution monitoring (laboratory)& CAAQMS	42 <sup>b</sup>	400
Occupational safety	50 <sup>c</sup>	20 <sup>d</sup>
Green belt & plantation at safety zone	-	454.5 <sup>e</sup>
Net Present Value(NPV) of Forest	-	2771.47
Compensatory Afforestation	-	61.995
Wildlife Conservation	6.55 <sup>g</sup>	346.50 <sup>f</sup>
Socio-economic welfare measures in nearby villages (CSR budget)	57.51 <sup>h</sup>	-
Budget for addressing Public Hearing commitments (erstwhile known as CER)	-	1865.58 <sup>i</sup>
Total	201.06	~6343.045

Note:

a =Surface drainage (garland drains, settlement pits, retaining wall etc.) + dust suppression system.

b =Cost for EMC (Environmental monitoring work is outsourced to accreditedlabs)& AMC of CAAQMS installed

*c = Cost towards routine medical examinations, training & awareness*  
*d = Cost of safety appliances procurement*  
*e = On Basis of costs prevailing in 2022 – 23.*  
*f = To be deposited with Divisional Forest Officer*  
*g = Rs. 65.5 Lakhs to be spent over 10 years*  
*h = Budget for 2022-23. Likely to be revised every year.*  
*i = This money will be spent over a period of three years*

xx. Details of project cost and employment:

Particulars	(Rs. In Crore)
Total cost of EMP (Capital Cost of EMP)	EMP Capital Cost: Rs.44.77 Crores
Project Cost	Rs.431 Crores
Employment	488 Nos.

### 3. Observation and Recommendation of the EAC: -

The Project Proponent and the Consultant presented the KML file to indicate the site features in the vicinity of the mine lease area and in the study area of 10 km radius. The Project Proponent has shown the boundary of the mine lease area and also the active quarries i.e., on the north western side and other one in southern side in the mine lease area. One Quarry i.e., Khuntapani was exhausted. A private railway siding is located on the north western side to dispatch the material. Backfilling has been started in the center quarry of the mine lease area. Some part of the area in the north eastern side has been taken by the State Govt for supply of water to the Joda Town. A small township is located within the mine lease area. There is a small stream (Dalko Nallah) passing from west to east in the mine lease area which is joining the Baitarani River located at a distance of about 0.5 km on the eastern side of the mine lease area. Adequate safety zone of about 13 ha will be maintained all along the nallah. No proposal to divert Dalko Nallah. NH-520 is located about 7km from the mine lease area. Other mines such as Tata Steel Ltd is located on the northern side of the mine lease area and Rungta Mines is located on the southern side of the mine lease area.

The Project Proponent has briefed about the chronology of the auction of the mine lease area. The Transfer of EC has been obtained in the name of M/s Odisha Mining Corporation Ltd and due to technical error in Parivesh portal the same could not able to download. In the instant proposal, there is no proposal for setting up of beneficiation plant in the mine lease area. The Project Proponent has informed the EAC that the total mine lease area is 456.037 ha (as per DGPS Survey), out of which 42.001 Ha is a Pvt land, 329.289 ha is a Forest land and 392.289 ha is a non-forest land. Stage II FC has been obtained vide letter dated 8<sup>th</sup> October 2014 for diversion of forest land of 342.602 ha in the name of M/s Essel Mining & Industries Ltd. Transfer of FC is under process with the State Govt. An application for diversion of balance area of 22.697 ha of forest land has been submitted vide proposal no. FP/OR/MIN/142115/2021 dated

08.05.2021 and is under process. Life of the mine is 8 years and is likely to increase with updation of reserves by further exploration. All mineral rejects, generated during the residual life of mine will be blended with high quality iron ore & sold out. The mineral dispatch is carried out at least 70% through rail from pvt. sidings within mine lease and balance 30% by road. No R&R involved in this proposal.

The Project Proponent has informed the EAC that there is no wildlife corridor and migration route within the study area. Karo-Karampada Elephant corridor is located at a distance of about 18 km on the North Western side and there is no movement of elephants in the study area. The EAC not convinced with the statement of the Project Proponent. The Project Proponent has informed the EAC that there is only occasional movement of elephants in the study area and it is not a habitat of elephants. Site-Specific Conservation Plan has been approved by the PCCF (WL) in the year 2010. The implementation status is under process. Long term regional level elephant management plan by Wildlife Institute of India is also under process. The EAC noted that National Highway also have specific elephants crossing area in Odisha. The EAC was of the view that the linear barriers created for movement of elephants and habitat use needs to be properly addressed in terms of scientific management and a plan for movement of elephants from one forest to the other forest area shall be included in the conservation plan. The EAC asked the Project Proponent to submit the activities proposed under Wildlife Conservation Plan along with the budget.

The EAC asked the Project Proponent that whether the quality of surface water is being monitored at Baitarani River during the monsoon. The Project Proponent has informed the EAC that the quality of surface water is being monitored regularly and submitted to the State Pollution Control Board. The Project Proponent has shown the retaining wall and garland drain around OB dump. The EAC opined that the Project Proponent needs to strengthen the garland drain. The EAC asked the Project Proponent whether railway line passing through the mine lease area or not. The Padapahar Jn. – Joda – Kendujhargarh - Jakhapura Railway Line passes through the ML area occupying 34.967 ha area. This includes 26.990 ha of Forest Land. Indian Railways had taken separate permission for construction of this Railway Line. OMC's existing operations are beyond this railway corridor and the status quo shall be maintained.

The Project Proponent has informed the EAC that the Joint Director of Mines, Joda, District Keonjhar vide letter dated 30.12.2021 has provided the certificate regarding payment towards compensation for excess production made by Ex-lessee. As per records available, M/s. Essel Mining & Industries Ltd, had deposited a total of Rs. 1825,87,36,554/- towards the compensation amount in the designated bank account as directed by the Hon'ble Supreme Court vide order W.P. (C) No. 114/2014 (Common Cause) dated 02.08.2017. Project Proponent also informed the EAC that M/s OMC

started operating Jilling-Langalotta Mine with effect from 28-02-2021. Since then, no Environment & Forest related violation has been reported in respect of Jilling-Langalotta Iron Ore Mines. Further, the Project Proponent has informed the EAC that a Certificate has been obtained from the Office of the Joint Director Mines Joda, Dist; Keonjhar vide letter dated 30.12.2021 certifying that the present lessee M/s Odisha Mining Corporation Limited is confined the mining activity within the granted and executed leasehold area.

The Project Proponent has shown the Certified Compliance report issued by the Regional Office (RO), MoEF&CC vide letter dated 09.08.2023 for the EC dated 07.06.2012. Site visit was conducted on 07.07.2023. Regional Office has mentioned that the greenbelt development may be increased, reclamation of backfilled area with vegetation may be initiated and density of plantation may be increased. The EAC asked the Project Proponent whether the action taken report has been submitted to the Regional Office or not. The Project Proponent has informed the EAC that they will submit the action taken report. The EAC also asked the Project Proponent to clarify whether any court case/litigation pending against the previous lessee w.r.t temporary working permit and whether the same has been transferred to M/s Odisha Mining Corporation Ltd or not. Based on the discussions held, the EAC **deferred** the proposal for want of following additional information: -

- i. The Project Proponent needs to submit the action plan for strengthening the garland drains including their dimensions along with the timeline.
- ii. The EAC was of the view that the linear barriers created for movement of elephants and habitat use needs to be properly addressed in terms of scientific management and a plan for movement of elephants from one forest to the other forest area shall be included in the conservation plan. Accordingly, the Project Proponent needs to submit the activities proposed under Wildlife Conservation Plan along with the budget.
- iii. The Project Proponent needs to submit the action taken report for the non-compliances identified by the Regional Office.
- iv. The Project Proponent needs to submit the treatment methods to eliminate iron in groundwater so as to make it fit for drinking purpose.
- v. The Project Proponent needs to clarify whether any court case/litigation pending against the previous lessee w.r.t temporary working permit and whether the same has been transferred to M/s Odisha Mining Corporation Ltd or not.



- vi. The Project Proponent should submit measures taken to prevent contaminated water meeting Baitarani river.
- vii. The Project Proponent needs to submit the action plan for effective dust suppression system near haul roads and crushers with a provision for installation of online dust monitoring system.

**1.2 Sarah Kishnayath Ball Clay, Fire Clay, Red & Yellow Ochre Mine lease of M/s Deepak Mineral Industries for enhancement of production capacity from 20,000 TPA to 5,35,880 TPA (ROM) (Overburden: 2,35,880 TPA, Marketable mineral: 2,70,000 TPA, Mineral Waste: 30,000 TPA) in the mining lease area of 69.59 ha, located Near Village Sarah Kishnayath, Tehsil- Kolayat, District Bikaner, Rajasthan - [Proposal No: IA/RJ/MIN/435186/2023, F.No: J-11015/269/2005-IA.II(M); EIA Consultant: M/s Fulgro Environmental & Engg. Services India Pvt. Ltd.] – Terms of Reference (ToR)**

The instant proposal of M/s Deepak Mineral Industries is for mining of Ball Clay, Fire Clay, Red & Yellow Ochre Mine with enhancement in production capacity of Ball Clay from 20,000 TPA to 5,35,880 TPA (ROM) (Overburden: 2,35,880 TPA, Marketable mineral: 2,70,000 TPA, Mineral Waste: 30,000 TPA) in the mining lease area of 69.59 ha, located near Village Sarah Kishnayath, Tehsil- Kolayat, District Bikaner, Rajasthan.

**2. Observation and Recommendation of the EAC: -**

The Project Proponent informed the EAC that the instant proposal was earlier considered in the EAC meeting held during 14-15 May, 2018 and the Ministry informed the Committee that PP had enhanced the production capacity without EC and in light of the Common Cause Judgment pronounced by the Hon'ble Supreme Court on dated 02.08.2017 this is a case of violation. The Committee, therefore, deferred the proposal noting that a separate Committee has been constituted for dealing with the projects involving violation of EPA, 1986 vide notification issued by the Ministry on 14.03.2017.

The EAC noted that the Project Proponent has submitted the fresh proposal for grant of Terms of Reference. The EAC asked the Project Proponent that whether the proposal submitted during the year 2018 and at present is same or different or whether there is a change in the scope or not? The Project Proponent has informed the EAC that during the year 2018, the proposal for Terms of Reference (ToR) was submitted for enhancement of production capacity from 20,000 TPA to 3,00,000 TPA (ROM) and now the proposal has been submitted for enhancement in production capacity of Ball Clay from 20,000 TPA to 5,35,880 TPA (ROM). The Project Proponent also informed the EAC that difference is that earlier Overburden: 2,35,880 TPA was not included in the

proposal and now the same has been included. The EAC was of the view that there is a change in the scope of the proposal and hence the instant proposal shall be treated as fresh proposal. The EAC asked that the Project Proponent to submit the proposal to the SEIAA, Rajasthan as per the provisions of EIA Notification, 2006 and its subsequent amendments.

Then, the Project Proponent vide email dated 22.09.2023 informed that as per Ministry's Notification no S.O No. 3977(E) dated 14<sup>th</sup> August 2018, the proposal was already submitted to SEIAA, Rajasthan vide online proposal no: SIA/RJ/MIN/29973/2018 dated 24<sup>th</sup> Nov 2018 and the proposal was considered in the SEAC meeting held during 1-4 July, 2019 wherein the SEAC has noted that the Project Proponent has not submitted original record of the MoEF& CC pertaining to the project. The SEAC considered the matter in its 4.15<sup>th</sup> meeting held on 04.07.2019 and resolved to ask the PP again, to bring original report of the MoEF&CC. In this regard, the Project Proponent vide email dated 22.09.2023 requested the Ministry to transfer the old project file to SEIAA, Rajasthan. Based on the request of the Project Proponent, the EAC opined that the Ministry may transfer the old project file to SEIAA, Rajasthan as per the provisions of EIA Notification, 2006 and its subsequent amendments. Therefore, the EAC **returned the proposal in present form.**

**1.3 Amendment in EC dated 31.08.2020 w.r.t specific condition no: (i) of M/s Jaykaycem Central Limited in Kakra- Panna Limestone Mine for production capacity of 4.08 MTPA of Limestone in the mine lease area of 1594.34 ha, located at Villages Kakra, Kamtana, Judi, Devra, DevriPurohit and Saptai, in Amanganj Tehsil, District Panna, Madhya Pradesh - [F.No: J-11015/190/2016-IA.II(M), Proposal No: IA/MP/MIN/435272/2023, EIA Consultant: M/s J.M. EnviroNet Pvt. Ltd] - Amendment in EC**

The instant proposal is for amendment in EC dated 31.08.2020 w.r.t specific condition no: (i) of M/s Jaykaycem Central Limited in Kakra- Panna Limestone Mine for production capacity of 4.08 MTPA of Limestone in the mine lease area of 1594.34 ha, located at Villages Kakra, Kamtana, Judi, Devra, DevriPurohit and Saptai, in Amanganj Tehsil, District Panna, Madhya Pradesh.

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

- i. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals and falls under Category "A" of the schedule of the EIA Notification, 2006 as the mining lease area is greater than 250 ha and appraised at the Central level.

Minutes of 20<sup>th</sup> EAC (Non Coal Mining) meeting held during 21-22 September, 2023

- ii. Initially, the Project Proponent has obtained Environmental Clearance (EC) on 31.08.2020 for mining of Limestone in Kakra- Panna Limestone Mine for production capacity of 4.08 MTPA of Limestone in the mine lease area of 1594.34 ha, located at Villages Kakra, Kamtana, Judi, Devra, DevriPurohit and Saptai, in Amanganj Tehsil, District Panna, Madhya Pradesh. One of the specific condition (I) stipulated by EAC is that *“Mining shall be restricted to the land already acquired near Judi Village (235 ha). Meanwhile the PP may acquire the land, modify the mining sequence to avoid the void in west side of Dewra Village and approach the Ministry for re-validation or amendment in environmental clearance for permission for the entire area proposed for mining within the ML area”*.
- iii. Now, the Project Proponent requested to waive off the specific condition no: (I) and requested to allow the mining in the entire mine lease area of 1594.34 ha as per the approved Modified Mining Plan.
- iv. The proposal was earlier considered in the 18<sup>th</sup> EAC (Non-Coal Mining) meeting held during 31<sup>st</sup> July & 1<sup>st</sup> August, 2023 wherein the EAC deferred the proposal for want of additional information. Then, the Project Proponent submitted the information on 25.08.2023 in Parivesh portal and accordingly the proposal was again reconsidered in the 20<sup>th</sup> EAC (Non Coal Mining) meeting held during 21-22 September, 2023.

Based on observation of EAC in its EAC meeting held during 31<sup>st</sup> July & 1<sup>st</sup> August, 2023 and compliance of observation of EAC made by PP are detailed below:

S. No	Observation of EAC in its meeting held during 31 <sup>st</sup> July & 1 <sup>st</sup> August, 2023	Reply by Project Proponent
1	The Project Proponent needs to give proper justification for amendment in EC with clear picture of sequence of mining, plan for backfilling and details of the land acquired and to be acquired in the villages for mining and location to access.	<p>The Project Proponent has submitted that the EC was granted on 31.08.2020 with a specific condition stating that the <i>“Mining shall be restricted to the land already acquired near Judi Village (235 ha). Meanwhile the PP may acquire the land, modify the mining sequence to avoid the void in west side of Dewra Village and approach the Ministry for re-validation or amendment in environmental clearance for permission for the entire area proposed for mining within the ML area”</i>.</p> <p>Accordingly, Mining Plan has been modified and approved on 19<sup>th</sup> June, 2023 with change of mining sequence to avoid the void in West side of Dewra Village. As</p>

		<p>on date, an area of 360.66 ha of land has been purchased, Surface right has been granted for mining on Govt. land over an area of 75.754 ha, hence, total land under possession is 436.414 ha. The balance of 1157.926 ha is under purchase as per the mining activities progress. Now, the mining has to be done as per the approved Modified Mining Plan and in the Modified Mining Plan, the mining has to be done near Dewra Village so that void is avoided on West side of Dewra Village which was the requirement of EC.</p> <p>As per the earlier Mining Plan, the backfilling was proposed near Village Judi from the 2<sup>nd</sup> five year. Now, as per the Modified Mining Plan, the backfilling is proposed from 2<sup>nd</sup> five year in West Side of Dewra and Judi. The backfilling plan also indicates that at the conceptual stage, both sides of the Village Dewra were surrounded by water reservoir and now in modified backfilling plan, the entire surrounding of the Dewra Village has been reclaimed and covered by Greenbelt/ Plantation.</p> <p>In the view of the fact that the Specific Condition 1 has been complied with and mining is to be done as per the Approved Modified Mining Plan. Therefore, mining may be allowed as per the Modified Mining Plan.</p>
2	<p>The Project proponent needs to submit the comparison of sequence of mining in earlier mining plan and modified mining plan with detailed note and colour coding map.</p>	<p>The Project Proponent has submitted that initially, mining plan was approved in the year 2015 having proposed 1<sup>st</sup> five year working near village Judi and 7<sup>th</sup>, 8<sup>th</sup>, 9<sup>th</sup>&amp; 10<sup>th</sup> five year plans on the west of Dewra village with the proposal of creating water reservoirs in the mined out area at conceptual stage. At the time of EC appraisal, 235 ha land was under Company's acquisition and mining was restricted in 235 ha (available land at the time of EC) near Judi village. However, the</p>

	<p>235 ha land was not in a continuous Block.</p> <p>As the land purchase is done in a progressive manner, as on date, the company is having total 436.414 ha (360.66 ha purchased and Surface right for mining on Govt. land of 75.754 ha) land under possession. Accordingly, the mining sequence has been modified and Modified Mining Plan has been approved by IBM, Jabalpur vide letter no. E 6699 MCDR-MPC0LST/15/2023-JBP-IBM_RO_JBP on dated 19th June, 2023. Now, the mining is to be done as per Modified Plan.</p> <p>In the conceptual plan of the Modified mining plan, mining is proposed in the 1<sup>st</sup>, 2<sup>nd</sup> &amp; 11<sup>th</sup> five-year plan in the area falling on west side of Dewra village with backfilling starting from the 2<sup>nd</sup> five-year plan period to get it reclaimed and restored at the earliest to avoid the voids.</p> <p>The Project Proponent also submitted the map showing the status of the land such as purchased land, restricted land and Govt. land to be applied. Further, the Project Proponent also submitted the Progressive Mine Closure Plan and Conceptual Plan submitted at the time of EC appraisal and as per the Modified Mining Plan.</p> <p>The Project Proponent also submitted that to substantiate the requirement of backfilling material i.e. OB Soil and Waste rock, mining is proposed at 3 locations i.e. Block-A near Judi Village, Block-B on the west of Dewra Village and mine development at Block-C on the south of Dewra village having about 27 m thickness of OB Soil and waste rock above the limestone band of 26 m thickness. With the change in mining sequence, total volume excavated in Block-B is 2.45 million cu.m for removal of OB soil (2 m) &amp;</p>
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	<p>Limestone (18 m) and the quantity of backfilling material available from Block - C from 2<sup>nd</sup> Five-year plan is 3.32 million cu.m which is required to be mined out to expose limestone band in Block C for ensuring scientific &amp; systematic mining with focus on mineral conservation. With the change in mining sequence, EC specific condition 1 shall be complied at the earliest period as well as waste rock shall be effectively utilized for backfilling which will also reduce requirement of large no. of OB/waste dumps.</p> <p>The distance of mining area from the earlier proposed location for 1<sup>st</sup> five-year plan period is about 5.0 km from crusher located inside ML area near plant boundary. The limestone transportation may have impact on habitation at three locations of village Dewra. To ensure least impact from the start of mining activities the modified mining plan was submitted and approved by IBM, Jabalpur on 19<sup>th</sup> June, 2023 and now the majority of mining is proposed in Block-B on west of Dewra village (about 75% quantity) having lead distance of 1.5 km. This will also support cement manufacturing process with optimum blend of limestone quality and mineral conservation.</p> <p>Mining Plan has been modified and approved on 19<sup>th</sup> June, 2023 with change of mining sequence to avoid the void in West side of Dewra Village. Now, the mining has to be done as per the Approved Modified Mining Plan and in the Modified Mining Plan, the mining has to be done near Dewra Village so that void is avoided on West side of Dewra Village which was the concern of the EAC. In the view of the fact that the Specific Condition 1 has been complied with and mining is to be done as per the Modified Mining Plan. Therefore, mining may be allowed as per</p>
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		<p>the Modified Mining Plan.</p> <p>Further, the Project Proponent also submitted the year wise development plan submitted at the time of EC appraisal and as per the Modified Mining Plan.</p>
3	<p>The Project Proponent needs to ensure whether the tiger corridors/dispersal routes are passing through the study area or not as per the Integrated Landscape Management Plan for Greater Panna Landscape form the Chief Wildlife Warden, MP.</p>	<p>The Project Proponent has submitted that the distance of mine site from buffer zone of Panna Tiger Reserve is 12.94 km. Letter regarding the same has been received from CCF, Bhopal (Madhya Pradesh) on 15.06.2020. The Project Proponent also submitted that a letter has been obtained from DFO (South Panna), Madhya Pradesh on 11.08.2023 stating that <i>“Currently, Integrated Landscape Management Plan Greater Panna is not notified”</i>.</p>
4	<p>The Project Proponent needs to submit the compliance of the Wildlife Conservation Plan and their implementation status along with the proof of payments made to the State Forest Dept w.r.t approval of Wildlife Conservation Plan dated 13.12.2019.</p>	<p>The Project Proponent has submitted that the Wildlife Conservation Plan has been modified as per the recommendations to incorporate the revised financial outlay and the same has been submitted to the Forest Department. Further, the Company has deposited 100% amount; Rs. 289 Lakhs/-proposed for 10-year budget on 19<sup>th</sup> August, 2023. PP also submitted the copy of acknowledgement receipt for amount paid along with the copy of approved Wildlife Conservation Plan.</p>
5	<p>The EAC wanted to know the documentary proof for the required acquisition of additional land. Hence, the Project Proponent needs to submit the land possession certificate for an area of 436.414 ha.</p>	<p>The Project Proponent has submitted that the break-up of 436.414 ha of land, i.e., out of 436.414 ha; an area of 360.66 ha is a Private land and remaining area of 75.754 ha is a Government land. Out of 360.66 ha of Private land, an area of 288.1 ha land has been transferred in the name of M/s Jaykaycem (Central) Limited and transfer of remaining area of 72.56 ha is under in Company’s name is under process.</p>

- v. The Project Proponent has submitted that the Mining Plan has been modified and approved by Indian Bureau of Mines vide Letter No: E 6699 MCDRMPC0LST/15/2023-JBP-IBM\_RO\_JBP dated 19.06.2023 with change of mining sequence to avoid the void in West side of Dewra Village. As on date, an

area of 360.66 ha of land has been purchased and surface right has been granted over an area of 75.754 ha of Govt. land for mining and thus total land under possession is 436.414 ha. The balance area of 1157.926 ha is under purchase as per the mining activities progress. Hence, in compliance of Specific Condition no I, the Project Proponent requested to allow the mining as per the approved Modified Mining Plan.

- vi. The Project Proponent has submitted that there was no production done till 31<sup>st</sup> March, 2023. PP also submitted that there is no change in production capacity, land area, mining equipment and mining technology. All the declarations, undertakings, EIA/EMP report, Public hearing action plan submitted during detailed deliberations for earlier granted EC dated 31<sup>st</sup> August, 2020 are same as per the earlier proposal.

### **3. Observation and Recommendation of the EAC: -**

The EAC deliberated on the additional details submitted by the Project Proponent and the EIA Consultant. The Project Proponent has informed the EAC that initially EC was granted on 31.08.2020 wherein the specific condition (i) of EC dated 31.08.2020 states that the *“Mining shall be restricted to the land already acquired near Judi Village (235 ha). Meanwhile the PP may acquire the land, modify the mining sequence to avoid the void in west side of Dewra Village and approach the Ministry for revalidation or amendment in environmental clearance for permission for the entire area proposed for mining within the ML area”*. Accordingly, Mining Plan has been modified and approved on 19.06.2023 with change of Mining sequence to avoid the void in West side of Dewra Village. As on date, an area of 360.66 ha of land has been purchased and surface right has been granted for mining on Govt. land of 75.754 ha and the total land under possession is 436.414 ha. The balance area of 1157.926 ha is under purchase as per the mining activities progress. Now, the mining activity has to be carried out as per the approved Modified Mining Plan. Accordingly mining has been proposed initially near Dewra Village so that backfilling can be started immediately in the mined-out pit to avoid any open void on the West side of Dewra Village, which was the suggestion of EAC and requirement of EC.

The Project Proponent also shown the comparison of progressive mine closure and conceptual plan as per earlier Mining Plan and Modified Mining Plan. The Project Proponent has informed the EAC that at the conceptual stage, water bodies on both the sides of the Dewra Village as per the earlier mining plan is now modified to be backfilled area/reclaimed area on both the sides of the Dewra Village in Modified Mining Plan. The additional acquired land falls in the 2<sup>nd</sup> five year working. The crusher area is located close to the Cement Plant. The Project Proponent informed the EAC that the distance of mine site from buffer zone of Panna Tiger Reserve is 12.94 km. Letter regarding the same has been received from CCF, Bhopal (Madhya Pradesh) on 15.06.2020. The



Project Proponent also informed the EAC that a letter has been obtained from DFO (South Panna), Madhya Pradesh on 11.08.2023 stating that “*Currently, Integrated Landscape Management Plan Greater Panna is not notified*”. The Project Proponent has informed the EAC that the Wildlife Conservation Plan has been modified as per the recommendations to incorporate the revised financial outlay and submitted to the Forest Department. An amount of Rs 289.0 Lakhs has been deposited on 19.08.2023 and the Project Proponent has shown the Copy of acknowledgement receipt for amount paid along with approved Wildlife Conservation Plan.

The EAC noted that the Project Proponent has modified the mining sequence to avoid the void in west side of Dewra Village and accepted to waive off the specific condition no. (i). After detailed deliberations made by the Project Proponent and the Consultant, the EAC in its meeting held during 21-22 September, 2023 under the provisions of EIA Notification 2006 and its subsequent amendments, **recommended** the proposal for grant of amendment in Environmental Clearance dated 31.08.2020 to w.r.t waive off the specific condition no: (i) of M/s Jaykaycem Central Limited in Kakra-Panna Limestone Mine for production capacity of 4.08 MTPA of Limestone in the mine lease area of 1594.34 ha, located at Villages Kakra, Kamtana, Judi, Devra, DevriPurohit and Saptai, in Amanganj Tehsil, District Panna, Madhya Pradesh along with the following additional specific conditions:-

- i. The Project Proponent needs to make provision for permanent water sprinklers so as to reduce the water consumption. Further, 10 nos. of fog canon/mist sprayer of atleast 40 m throw shall be installed at various locations in the mine area. Effective dust suppression system shall also be adopted at other parts of the mining lease to arrest the fugitive dust emission. Online air monitoring system should be installed near crusher and haul roads to control dust generation during mining.
- ii. The Project Proponent shall explore the possibility of using atleast 20% of Electric vehicles/CNG/Solar instead of diesel operation within three years.
- iii. The Project Proponent shall not transport the mineral through tiger dispersal route and it should be routed through other side without causing traffic, pollution and road kill in the tiger reserve area.
- iv. Although the site is not located in any classified corridor, tigers move in the landscape randomly through the agriculture and open areas. Therefore, the Project Proponent should have site-specific assessment of tiger movement and shall ensure that there is no disturbance on the western area towards Ken River. Further, based on site assessment, local level mitigation plan shall be in place.

- v. The Project Proponent needs to use modern equipment's such as Camera Traps for ensuring presence and movement of Tigers in the study area in consultation with Wildlife Wing of Forest Department. Appropriate interventions shall be taken to minimize stress conditions for Tigers and to avoid Man-Animal conflict.
- vi. Biodiversity management plan, including restoration and carbon offset scheme shall be included in the mine plan and operation.
- vii. The project proponent needs to submit the quarterly compliance report to the State Forest Department/NTCA/RO w.r.t monitoring of the movement of tiger in the study area and their effectiveness of implementation of mitigation plan.
- viii. The Project Proponent needs to provide the apprenticeship to the local people. The data and the outcome should be maintained for the same imparted to the local people.
- ix. The Project Proponent shall create awareness among the local people working within the project area as well as its surrounding area on the ban of Single Use Plastic (SUP) in order to ensure the compliance of Notification published by MoEF&CC on 12/08/2021. A report, along with photographs, on the measures taken shall also be included in the six monthly compliance report.
- x. All other terms and conditions mentioned in the EC letter dated 31.08.2020 shall remain unchanged.

**1.4 Majhgawan Diamond Mine, Panna of M/s NMDC Ltd. with total excavation of 13.90 LTPA [ROM Kimberlite Ore @ 8 LTPA and Overburden removal @5.90 LTPA] for production of 1.00 lakh carats of Diamonds per annum in the mine lease area of 113.332 Ha, located at village Majhgawan, Tehsil & District Panna, Madhya Pradesh -[F.No: J-11015/120/2018-IA-II(M), Proposal No:IA/MP/MIN/442288/2023, Consultant: M/s Ecomen Laboratories Ltd] - Revalidation of EC under Ministry's Notification vide S.O. (E) 1530, dated 06.04.2018 – Environmental clearance (EC)**

The instant proposal is for mining of Diamond in Majhgawan Diamond Mine with total excavation of 13.90 LTPA [ROM Kimberlite ore @ 8 LTPA and Overburden removal @ 5.90 LTPA for production of 1.00 lakh carats of Diamonds per annum] in the mine lease area of 113.332 Ha (Main Lease), located at village Majhgawan, Tehsil & District Panna, Madhya Pradesh.

**2. Observation and Recommendation of the EAC: -**

The Project Proponent has informed the EAC that they have changed the EIA Consultant of M/s Vimta Labs Ltd to M/s Ecomen Laboratories Ltd. The Project Proponent also informed the EAC that M/s Vimta Labs Ltd has given no objection certificate dated 15.09.2023 to M/s NMDC to appoint any other Accredited EIA Consultant for the above said project. The new EIA Consultant, M/s Ecomen Laboratories Pvt Ltd has also given an undertaking vide letter dated 16.09.2023 stating that they have gone through the content and data of Final EIA/EMP Report. The EAC noted that the new EIA Consultant has given an undertaking at an interval of one day only. The EAC was of the view that the new EIA Consultant, M/s Ecomen Laboratories Ltd has to revalidate the baseline data for one month to ascertain the facts and figures presented in the EIA report and also to ascertain the ground reality.

The EAC also noted that the mine lease area is located within the Gangau Wildlife Sanctuary of Panna Tiger Reserve. The Project Proponent has informed the EAC that the Hon'ble Supreme Court order in I.A No: 1485 and 1507 dated 13/8/2008 and I.A No: 47252 of 2021 dated 30/11/2022 in W.P (Civil) no: 202 of 1995 permitted mining operations in Diamond Mining Project, Panna in Gangau wildlife sanctuary of Panna Tiger Reserve.

The PCCF (Wildlife) / Chief Wildlife Warden, Bhopal, Madhya Pradesh vide letter no: 1608 dated 24/2/2023 has accorded approval for renewal / extension of Wildlife clearance under Wildlife (Protection) Act, 1972 over 275.963 Ha (main and supplementary mining lease area) lease falling in Gangau sanctuary under Panna Tiger reserve and for mining in an area of about 10 Ha (of which 1.5 Ha is forest area) for a period of 20 years which is valid upto 30/6/2040.

The EAC noted the recent orders of the Hon'ble Supreme Court dated 26.04.2023 and 28.04.2023 wherein it has been directed that *"any activity, which is prohibited by both the guidelines as well as the ESZ notification shall strictly be prohibited. Since the mining activity in ESZ area is a prohibited activity, there is no question of such an activity being permitted in an ESZ area even if it falls beyond the distance of one kilometer from the boundary of the protected area"*.

In view of the above, the EAC opined that the Project Proponent may seek a legal opinion regarding the applicability of the aforesaid orders in this instant proposal. The EAC also opined that the Ministry may seek comments from the ESZ Division since the project is located within the Gangau wildlife sanctuary of Panna Tiger Reserve and whether the aforesaid orders dated 26.04.2023 and 28.04.2023 are applicable in the instant proposal or not. Based on the discussions held, the EAC **deferred** the proposal for want of following additional information: -

- i. The Project Proponent needs to revalidate the baseline data by collecting one-month fresh baseline data by new EIA consultant to ascertain the facts and figures presented in the EIA report and also to ascertain the ground reality. The Project Proponent also needs to submit the comparison of both baseline data.
- ii. The EAC opined that the Project Proponent may seek a legal opinion regarding the applicability of the orders dated 26.04.2023 and 28.04.2023 in this instant proposal.
- iii. The EAC also opined that the Ministry may seek comments from the ESZ Division since the project is located within the Gangau wildlife sanctuary of Panna Tiger Reserve and whether the aforesaid orders dated 26.04.2023 and 28.04.2023 are applicable in the instant proposal or not.

**1.5 Majhgawan Diamond Mine, Panna of M/s NMDC Ltd. for 0.72 LTPA of over burden removal and Processing of Kimberley ore (8 LTPA) for production of 1.00 lakh carats of Diamond per annum with the mine lease area of 162.631 Ha (Supplementary Mine lease), located at village Majhgawan, Tehsil & District Panna, Madhya Pradesh – [F.No: IA-J-11015/121/2018-IA-II(M), Proposal no:IA/MP/MIN/442291/2023; EIA Consultant: M/s. Ecomen Laboratories Private Limited] - Revalidation of EC under Ministry's Notification vide S.O. (E) 1530 dated 06.04.2018**

The instant proposal of M/s NMDC Ltd. is for mining of Diamond in Majhgawan Diamond Mine for 0.72 LTPA over burden removal and processing of Kimberlite ore of 8.0 LTPA for production of 1.00 lakh carats of Diamond per annum in the mine lease area of 162.631 Ha (Supplementary mine lease), located at Village Majhgawan, District Panna, Madhya Pradesh.

## **2. Observation and Recommendation of the EAC: -**

The Project Proponent has informed the EAC that they have changed the EIA Consultant of M/s Vimta Labs Ltd to M/s Ecomen Laboratories Ltd. The Project Proponent also informed the EAC that M/s Vimta Labs Ltd has given no objection certificate dated 15.09.2023 to M/s NMDC to appoint any other Accredited EIA Consultant for the above said project. The new EIA Consultant, M/s Ecomen Laboratories Pvt Ltd has also given an undertaking vide letter dated 16.09.2023 stating that they have gone through the content and data of Final EIA/EMP Report. The EAC noted that the new EIA Consultant has given an undertaking at an interval of one day only. The EAC was of the view that the new EIA Consultant, M/s Ecomen Laboratories Ltd has to revalidate the baseline data for one month to ascertain the facts and figures presented in the EIA report and also to ascertain the ground reality.

The EAC also noted that the mine lease area is located within the Gangau Wildlife Sanctuary of Panna Tiger Reserve. The Project Proponent has informed the EAC that the Hon'ble Supreme Court order in I.A No: 1485 and 1507 dated 13/8/2008 and I.A No: 47252 of 2021 dated 30/11/2022 in W.P (Civil) no: 202 of 1995 permitted mining operations in Diamond Mining Project, Panna in Gangau wildlife sanctuary of Panna Tiger Reserve.

The PCCF (Wildlife) / Chief Wildlife Warden, Bhopal, Madhya Pradesh vide letter no: 1608 dated 24/2/2023 has accorded approval for renewal / extension of Wildlife clearance under Wildlife (Protection) Act, 1972 over 275.963 Ha (main and supplementary mining lease area) lease falling in Gangau sanctuary under Panna Tiger reserve and for mining in an area of about 10 Ha (of which 1.5 Ha is forest area) for a period of 20 years which is valid upto 30/6/2040.

The EAC noted the recent orders of the Hon'ble Supreme Court dated 26.04.2023 and 28.04.2023 wherein it has been directed that *“any activity, which is prohibited by both the guidelines as well as the ESZ notification shall strictly be prohibited. Since the mining activity in ESZ area is a prohibited activity, there is no question of such an activity being permitted in an ESZ area even if it falls beyond the distance of one kilometer from the boundary of the protected area”*.

In view of the above, the EAC opined that the Project Proponent may seek a legal opinion regarding the applicability of the aforesaid orders in this instant proposal. The EAC also opined that the Ministry may seek comments from the ESZ Division since the project is located within the Gangau wildlife sanctuary of Panna Tiger Reserve and whether the aforesaid orders dated 26.04.2023 and 28.04.2023 are applicable in the instant proposal or not. Based on the discussions held, the EAC **deferred** the proposal for want of following additional information: -

- i. The Project Proponent needs to revalidate the baseline data by collecting one-month fresh baseline data by new EIA consultant to ascertain the facts and figures presented in the EIA report and also to ascertain the ground reality. The Project Proponent also needs to submit the comparison of both baseline data.
- ii. The EAC opined that the Project Proponent may seek a legal opinion regarding the applicability of the orders dated 26.04.2023 and 28.04.2023 in this instant proposal.
- iii. The EAC also opined that the Ministry may seek comments from the ESZ Division since the project is located within the Gangau wildlife sanctuary of Panna Tiger Reserve and whether the aforesaid orders dated 26.04.2023 and 28.04.2023 are applicable in the instant proposal or not.

**Day 2: 22<sup>nd</sup> September, 2023 (Friday)**

**2.1 Obulapuram Iron Ore Mine of M/s Sai Balaji Minerals with production capacity of Iron Ore: 99,789 Tons/Annum in the mine lease area of 4.003 ha, located at Sy.No: 370, Sy.No: 58/P Of Obulapuram Village, D-Hirehal Mandal, Anantapuram District, Andhra Pradesh – [Proposal No: IA/AP/MIN/423323/2023, File.No: IA-J-11015/5/2023-IA-II(NCM); EIA Consultant: M/s Ecomen Laboratories Pvt. Ltd] – Terms of Reference (SOP Violation dated 07.07.2021)**

The instant proposal is for mining of Iron Ore in Obulapuram Iron Ore Mine of M/s Sai Balaji Minerals with production capacity of Iron Ore: 99,789 Tons/Annum in the mine lease area of 4.003 ha, located at Sy.No: 370, Sy.No: 58/P Of Obulapuram Village, D-Hirehal Mandal, Anantapuram District, Andhra Pradesh.

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

- i. The mine lease area is located between Latitude: 15°02'56.85605"N - 15°03'09.41610"N and Longitude: 76°51'31.93150"E - 76°51'42.96087"E and falls under the Survey of India Toposheet No: 57 A/16 and falls in Seismic Zone-II.
- ii. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals and falls under Category "A" as the instant proposal attracts the general conditions as the Interstate boundary of Andhra Pradesh and Karnataka is located at a distance of 0.6 km from the mine lease area and appraised at the Central level.
- iii. Details of Mine lease:

S.no	Prospecting License/ Letter of Intent (LoI)/ Grant of Mine lease and Lr No	Date of the grant	Name of the Mineral & (Major/ Minor)	Period of Grant	Granted by	Mine lease area in Ha
1	Grant of Mine Lease vide G.O Ms.No 158	20.06.2007	Iron Ore (Major Mineral)	20 years	Government of Andhra Pradesh	4.046 Ha – as per Lease 4.003 Ha – as per DGPS (10.0 Acres)

iv. Details of execution of mine lease:

S. No	Details of grant of	Period of Grant	Name of	Mine
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Minutes of 20<sup>th</sup> EAC (Non Coal Mining) meeting held during 21-22 September, 2023

	Mine Lease deed execution	From	To	the Mineral	lease area in Ha
1	Proc: 3272/ML/07, Dated: 22.09.2007	22.09.2007	21.09.2027 (deemed extension upto 2057)	Iron Ore	4.046 Ha – as per Lease  4.003 Ha – as per DGPS

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

Private land	Nil
Government land	4.003
Forest land	Nil
Total Mining lease area (MLA), ha	4.003
Private land for crusher, workshop & other infrastructure outside the MLA	Nil

vi. Mining plan details:

Review of Mining Plan including Progressive Mine Closure Plan approved by Indian Bureau of Mines	Letter No.	AP/ANP/MP/Iron ore-12/Hyd
	Date	23.08.2022
	Mineral & (Major/Minor)	Iron Ore – Major Mineral
	Mine Lease Area, Ha	4.046 Ha – as per Lease 4.003 Ha – as per DGPS Survey
	Validity	2026-27
Mining Parameters	Quantitative Description	
Method of Mining	Opencast Mining – Mechanized	
Drilling/Blasting	Yes	
Geological Reserves	1797225 tonnes	
Mineable Reserves	1195671 tonnes	
Life of mine	6 years	
Mine Bench Height & Bench Width	6 x 6	
No. of Mine Benches	Nil	
Existing Depth, m bgl	Nil	
Ultimate Depth of Mining, m bgl	4	
Ground Water Table, m bgl	60	
Details of ground water intersection	Nil	
Individual bench slope	45 <sup>0</sup>	
Overall pit slope	60 <sup>0</sup>	
Details of existing/ proposed Crusher	Nil	
Mineral Beneficiation	Nil	

Minutes of 20<sup>th</sup> EAC (Non Coal Mining) meeting held during 21-22 September, 2023

RoM output size	Boulders
Transportation details including capacity of dumper/tipper, mode of transport and distance	1. 2 Back Hoe/Excavator (0.9M <sup>3</sup> ) 2. 3 Dumpers (10tons capacity) 3. 1 Dozer (1.2 M <sup>3</sup> )
Generation of Topsoil/OB & its Management during plan period & conceptual period	Plan Period: Overburden: 272740 tons 1255 m <sup>3</sup> of topsoil will be generated
Generation of Mineral Rejects/Waste & its Management during plan period & conceptual period	241145 m <sup>3</sup> of waste generated. 0.70 ha will be used for Dumping as Approved mining plan.

vii. Water requirement:

Total water requirement	10.0 KLD	Freshwater	10KLD
		Treated water	
Source	Initially, Groundwater till 5 years and later from rain water harvested from the excavated pits.		

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

Particulars	Particular's Name	Distance & Directions
Village	Obulapuram	2.1 km towards SSW
Town	D.Hirehal	5km towards SSW
Highway	NH-150A (Rampura-Bellary)	500m towards East
Interstate Boundary	AP-Karnataka	700m towards NE as per Toposheet
Railway Station/Railway line	Railway line (Bellary Rayadurga) SW Railway Line	470m towards East
Water Bodies	Tungabhadra High level canal	1.2 km, E
	Allipura Reservoir	11 km towards North
Forest	Bellary R.F	1.2 km, NW

ix. Presence of Environmentally Sensitive areas in the study area

Forest Land/ Protected Area/ Environmental Sensitivity Zone	Yes/No	Details of Certificate/letter issued by the concerned Department mentioning the Lr no, date of grant and remarks
Forest Land within the mine lease area and (if yes) status of Forest Clearance	No	Not Applicable
National Park	No	Not Applicable
Wildlife Sanctuary	No	Not Applicable
Elephant/Tiger Reserve	No	Not Applicable
Eco-Sensitive Zone(ESZ) /Eco-	No	Not Applicable



Minutes of 20<sup>th</sup> EAC (Non Coal Mining) meeting held during 21-22 September, 2023

Sensitive Area (ESA)		
Coastal Regulation Zone (CRZ)	No	Not Applicable
Schedule-I species (No.s and name of schedule-I species with authenticated letter)	No	Not Applicable
Wildlife Conservation Plan	No	Not Applicable

x. Green belt/plantation details:

Particulars for Green belt/plantation	Area covered (in Ha)
7.5 m barrier & non-mineralized zone	0.840

xi. The Project Proponent has submitted the letter from the Office of the Department of Mines and Geology vide Lr.No: 3272/ML/2007 dated 08.12.2022 with regard to permitted quantity from the 2007-08 to 2022-23 as mentioned below: -

S. No	Year	Permitted quantity in MTs
1	2007-08	510
2	2008-09	5865
3	2009-10	29410
4	2010-11	96270
5	2011-12	76500
6	2012-13	19210
7	2013-14	12988
8	2014-15	2499
9	2015-16	27515
10	2016-17	69878
11	2017-18	0
12	2018-19	0
13	2019-20	6
14	2020-21	6524
15	2021-22	19750
16	2022-23 (08.12.2022)	0
	Total	366925

xii. If violation under SOP, dated 7<sup>th</sup> July, 2021. Point-Wise Compliance to SoP:

S. No.	SOP dated 07.07.2021			Compliance
1	S. No	Status of EC	Actions	Order to close its operation
	1	If no prior EC has been taken	Order to close its operation	
	2	If prior EC is available for existing/old unit	Order to revert the activity/ production to permissible limits	
	3	If prior EC was not	Restrict the	

	required for earlier production level but is now required	activity/production to the extent to which prior EC was not required	
2	Action under Environment (Protection), Act 1986		The Ministry to initiate action under section 15 read with section 19 of the Environment (Protection) Act, 1986 against the Project Proponent
3	Appraisal under EIA Notification, 2006		As per Ministry's SOP dated 07.07.2021
4	Penalty Provisions for Violation Cases and applications a. For new projects: i. Where operation has not commenced: 1% of the total project cost incurred up to the date of filing of application along with EIA/EMP report; [Ex: Rs. 1 lakh for project cost of Rs 1 Cr] ii. Where operations have commenced without EC: 1% of the total project cost incurred up to the date of filing of application along with EIA/EMP report PLUS 0.25% of the total annual turnover during the period of violation. [Ex: For Rs. 100 Cr project cost and Rs.100 Cr total turnover, the penalty shall be Rs. 1 Cr + Rs 0.25 Cr = Rs 1.25 Cr]. b. For expansion projects: i. Where operation/ production with expanded capacity has not commenced: 1% of the total project cost attributable to the expansion, incurred up to the date of filing of application along with EIA/EMP report. ii. Where operation/ production with expanded capacity have commenced: 1% of the total project cost (attributable to the expansion activity), incurred up to the date of filing of application along with EIA/EMP report PLUS 0.25% of the total annual turnover (attributable to the expanded activity/capacity) involved during the period of violation.		The penalty shall be decided during the time of appraisal for EC.

- xiii. The Project Proponent has submitted an Affidavit in a non-judicial stamp paper of Rs 100 dated 02.01.2023 stating that as on date, the instant mine does not have

a valid EC. The Project Proponent also undertaken to comply with all the statutory requirements and judgment of Hon'ble Supreme Court dated the 2nd August 2017 in Writ Petition (Civil) No.114 of 2014 in the matter of Common Cause versus Union of India and Ors., before grant of Terms of Reference (ToR)/ Environmental Clearance (EC).

- xiv. Rehabilitation & Resettlement (R&R): No R&R is involved.
- xv. Court case details: No Court cases are pending.
- xvi. Details of project cost and employment:

Particulars	(Rs. In Crore)
Project Cost	50 Lakhs
Employment (No.s)	30

### **3. Observation and Recommendation of the EAC: -**

The Project Proponent/Consultant presented the KML file to indicate the site features in the study area of 10 km radius. The instant proposal attracts the general conditions as the Interstate boundary of Andhra Pradesh and Karnataka is located at a distance of 0.6 km from the mine lease area. The Project Proponent has informed the EAC that railway line is located at a distance of around 500m on the eastern side from the mine lease area. Nearest Village is Obulapuram and it is located at a distance of about 2.0 km from the mine lease area. The Project Proponent also showed the old working pits within the mine lease area in the KML file. The balance life of the mine is 6 years. No National Park, Wildlife Sanctuary, ESZ/ESA within 10 km of the mine lease area. The mined out material will be transported by road through NH at a distance of 40km to Jindal and nearby mini steel plants and sponge iron plants. No village is passing through the transportation route.

The Project Proponent has informed the EAC that the mine lease deed was executed on 22.09.2007 and is valid upto 21.09.2027. A proposal was submitted to SEIAA, Andhra Pradesh during the year 2017. The EAC asked the Project Proponent that what is the reason for applying for ToR in the year 2023 after a gap of 6 years. The Project Proponent has informed the EAC no permits were issued by the Mining Dept., and Indian Bureau of Mines (IBM) has directed to obtain EC. The Project Proponent also informed the EAC that the State Pollution Control Board has directed to submit the copy of EC while submitting the application for renewal for consent for operation.

The mine commenced its operation in the year 2007 as no Environmental Clearance was required for mining of major minerals less than 5 Ha as per EIA Notification, 2006. The mine was in operation from the year 2007-08 to 2021-22. The Project Proponent also informed the EAC that as on date mine is not in operation. By Suo moto, the Project Proponent accepted that instant proposal is a violation case. The Project Proponent has shown the certified production details from the year 2007-08 to

2021-22. The EAC observed that the Project Proponent has exceeded the production of the base year 1993-94 i.e., 510 MT from the year 2008-09 to 2016-17 and 2020-21 to 2021-22 and also the Project Proponent has been mining without EC. Thus the EAC opined that the instant proposal attracts the judgment of Hon'ble Supreme Court dated the 2<sup>nd</sup> August 2017 in Writ Petition (Civil) No. 114 of 2014 in the matter of Common Cause versus Union of India and Ors and violation of the EIA Notification, 2006. The EAC reiterated the Ministry's SOP dated 07.07.2021 for identification and handling of Violation cases under EIA 2006 stating that *"the percentage rates shall be halved if the project proponent suo-moto reports such violations without such violations coming to the knowledge of the Government either on inquiry or complaint"*. The EAC noted that as per Ministry's OM dated 07.07.2021, Clause 11: SOP for dealing with the violation cases if no prior EC has been taken then order to close its operation. In view of the above, the EAC asked the Ministry to close its operation and to take action against the Project Proponent under the provisions of the Environment (Protection) Act, 1986. The Project Proponent requested for exemption of public hearing as per Ministry's OM dated 12.11.2020. The EAC opined that the said OM does not apply to this instant proposal.

After detailed deliberations made by the Project Proponent and the Consultant, the EAC in its meeting held during 21-22 September 2023 under the provisions of EIA Notification, 2006 and subsequent amendments therein and as per Ministry's SOP dated 07.07.2021 for identification and handling of Violation cases under EIA 2006, **recommended** the proposal for grant of Terms of Reference (ToR) to M/s Sai Balaji Minerals for mining of Iron Ore in Obulapuram Iron Ore Mine with production capacity of Iron Ore: 99,789 Tons/Annum in the mine lease area of 4.003 ha, located at Sy.No: 370, Sy.No: 58/P Of Obulapuram Village, D-Hirehal Mandal, Anantapuram District, Andhra Pradesh for undertaking detailed EIA/EMP study subject to the following specific conditions in addition to the standard ToR conditions and applicable for non-coal mining projects:-

- i. The EAC asked the Ministry to close its operation and to take action against the Project Proponent under the provisions of the Environment (Protection) Act, 1986. Further, no consent to operate to be issued till the project is granted EC. The action initiated by the State Govt./State PCB, status of the same may be submitted to the Ministry.
- ii. The Project Proponent shall be required to submit a bank guarantee equivalent to the amount of remediation plan and natural and community resource augmentation plan with the SPCB prior to the grant of EC. The quantum shall be recommended by the EAC and finalized by the regulatory authority. The bank guarantee shall be released after successful implementation of the EMP,

followed by recommendations of the EAC and approval of the regulatory authority.

- iii. Assessment of ecological damage with respect to air, water, land and other environmental attributes. The collection and analysis of data shall be done by an environmental laboratory duly notified under the Environment (Protection) Act, 1986, or an environmental laboratory accredited by NABL, or a laboratory of a Council of Scientific and Industrial Research (CSIR) institution working in the field of environment.
- iv. Preparation of EMP comprising remediation plan and natural and community resource augmentation plan corresponding to the ecological damage assessed and economic benefits derived due to violation.
- v. The remediation plan and the natural and community resource augmentation plan to be prepared as an independent chapter in the EIA report by the accredited consultants.
- vi. Details of benefit accrued during the violation period along with capital cost of the project needs to be submitted.
- vii. The Project Proponent needs to submit the penalty provisions as per Ministry's SOP dated 07.07.2021 at the time of appraisal of EC.
- viii. The Project proponent needs to submit the map demarcating the railway line and railway boundary from the nearest working pit and the mine lease area.
- ix. The Project Proponent needs to submit the letter from the State Forest Dept of Andhra Pradesh and Karnataka regarding the distance of the location of the National Park, Wildlife Sanctuary, Tiger Reserves/ Tiger Corridor etc., along with the authenticated map and also the authenticated list of flora and fauna since the study area of the 10km radius of the buffer zone falling in the State of Andhra Pradesh and Karnataka (0.6 km).
- x. The Project Proponent needs to monitor the ambient air quality and noise level at the mine lease boundary, nearest village, predominant downwind direction and at other sensitive receptors. 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.

- xi. The Project Proponent needs to carry out the Public Hearing as per provisions of EIA Notification, 2006. PP should also submit the time bound action plan on concerns of the public through a separate budget with capital expenditure with a timeline of 3 years. The Project proponent shall ensure that the activities proposed under the public hearing shall be different from the CSR activities.
- xii. The Project Proponent shall carry out the assessment of impact due to the proposed project as per the guidelines issued by the Central Ground Water Authority from time to time and submit the same as a part of the EIA/EMP. The project proponent shall conduct hydrological study for projects involving intersection of ground water table as per the guidelines issued by the Central Ground Water Authority from time to time and submit the same as a part of the EIA/EMP.
- xiii. The Project Proponent shall explore the possibility of reduction of specific water requirement by optimization / technology up gradation, etc. The efforts shall be delineated in the EIA/EMP.
- xiv. The Project Proponent shall prepare the scheme for mandatory recycle/re-use of water as specified by the Central Ground Water Authority for different category areas seeking NoC for ground water withdrawal and the shall submit as part of EIA/EMP report.
- xv. The Action Plan on the compliance of the recommendations of the CAG as per Ministry's Circular No. J-11013/71/2016-IA.I(M), dated 25.10.2017 needs to be submitted at the time of appraisal of the project and included in the EIA/EMP Report.

**2.2 Bicholim Mineral Block- Block 1 (Auction Block) of M/s Vedanta Limited for mining of Iron Ore with proposed production capacity of 3.0 MTPA, Waste: 25.162 MTPA(Total Excavation: 28.162 MTPA) along with crushing and screening plant capacity of 4.0 MTPA in the mine lease area of 478.5206 ha, located in Bicholim, Bordem, Lamgao, Mulgoa, Mayem & Sirigao Villages of Bicholim Taluka of North Goa District, Goa - [F.No: IA-J-11015/3/2023-IA-II(NCM), Proposal No: IA/GA/MIN/442593/2023, Consultant: M/s Mineral Engineering Services] – Environmental Clearance (EC)**

The instant proposal is for mining of Iron Ore in Bicholim Mineral Block – Block 1 (Auction Block) of M/s Vedanta Limited with proposed production capacity of 3.0 MTPA, Waste: 25.162 MTPA (Total Excavation: 28.162 MTPA) along with crushing and screening plant capacity of 4.0 MTPA in the mine lease area of 478.5206 ha, located in

Bicholim, Bordem, Lamgao, Mulgoa, Mayem & Sirigao Villages of Bicholim Taluka of North Goa District, Goa.

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

- i. The mine lease area is located between Latitude: 15°34'20.518"N to 15° 36'54.018"N and Longitude: 73°54'4.754"E to 73°57'09.51"E. The mine lease area falls under the Survey of India Toposheet No: D43B14 and falls in Seismic Zone-II.
- ii. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals and falls under Category "A" as the mining lease area is greater than 250ha and appraised at the Central level.
- iii. Details of Terms of Reference (ToR):

Date of application	File. No/ Proposal No	Consideration	Details	Date of accord
16.03.2023	F.No: IA-J-11015/3/2023-IA-II(NCM)  IA/GA/MIN/422323/2023	3-4 May, 2023	Terms of Reference (ToR) to M/s Vedanta Limited for mining of Iron Ore in Bicholim Mineral Block – Block 1 (Auction Block) with proposed production capacity of 3.0 MTPA, Waste: 25.162 MTPA (Total Excavation: 28.162 MTPA) along with crushing and screening plant capacity of 4.0 MTPA in the mine lease area of 478.5206 ha, located in Bicholim, Bordem, Lamgao, Mulgoa, Mayem & Sirigao Villages of Bicholim Taluka of North Goa District, Goa	16.06.2023

iv. Details of Mine Lease:

- a) The Project Proponent has submitted the Letter of Intent (LoI) granted by the Government of Goa vide Lr No: DMG/25/Auction Cell/LOI-function/2023/2801 dated 13.01.2023 for grant of mining lease for Block I - Bicholim Mineral Block for Iron Ore in Bicholim, Bordem, Lamgao, Mulgoa Mayem & Sirigao villages, Bicholim Taluka, North Goa District over an area of 478.5206 Hectare for a

Minutes of 20<sup>th</sup> EAC (Non Coal Mining) meeting held during 21-22 September, 2023

period of 50 (fifty) years in pursuant to Rule 10(2) of the Auction Rules. This letter of intent is valid for a period of 3 (three) years from the date of its issuance.

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

Private land	421.1153 Ha
Government land	57.4053 Ha
Total Mining lease area (MLA)	478.5206 Ha
Private land for crusher, workshop & other infrastructure outside the MLA	Not Applicable

vi. Details of Mining Plan:

Review and Mining Plan approved by Indian Bureau of Mines, Goa	Letter No.	No. MCDR-MPC 1 2023-GOA-IBM_RO_GOA
	Date	26.05.2023
	Mine Lease Area	478.5206 Ha
	Mineral	Iron Ore (Major Mineral)
Mining Parameters	Quantitative Description	
Method of Mining	Opencast mechanized mining without Drilling & Blasting	
Drilling/Blasting	Not Applicable	
Total Reserves and Resources	84.73 Million Tonnes	
Proved Mineral Reserve	36.071 Million Tonnes	
Life of mine	30 years	
Bench Height	7 m	
Bench Width	10 m	
Individual bench slope	70 <sup>0</sup>	
Overall pit slope	<26 <sup>0</sup>	
RoM output size	Less than 500 mm	
Crushing/Screening	Mobile Dry Crushing and Screening plant shall be available within the proposed mine to handle 4 MTPA of crude ore. The primary crusher will consist of 1 no. of Jaw crusher of capacity 120 TPH with an input feed of -500mm and shall produce output of -70 mm. It shall be followed by secondary crushers, 2 no.s of capacity 300 TPH and 200 TPH respectively. The input feed size shall be -70mm and output feed size obtained shall be -40mm. The Screening Plants of capacity -600TPH shall be installed where input the feed size shall be -70mm to obtain product of -40mm lumps & -10mm fines.	
Transportation details	ROM/Iron ore or Screened/crushed material will be transported by 10.5 Tonne trippers from Mine to Sarmanas jetty through a dedicated road. The total	



Minutes of 20<sup>th</sup> EAC (Non Coal Mining) meeting held during 21-22 September, 2023

	distance from the mine to Jetty is 5.48 km of which 0.94 km stretch is public road and remaining 4.54 km is company owned dedicated road.
Dumpers capacity	40 tonne (within mines)
Waste handling and Disposal	During the mining period, the waste generated by mining will be temporarily stacked within the mining lease area as surface dump and backfilled in the exhausted portion of the pits. The total waste to be generated during the plan period is about 69.85 million tonnes. An area of 6.7146 Ha shall be utilized for Dumps and Material stocking at the conceptual stage of mining.

vii. Water requirement:

Total water requirement	664 KLD	Pit Water	628 KLD
		Ground water	36 KLD
Source	Water from Mine Pit will be used for dust suppression, Vehicle washing and Green belt. Water for domestic requirement will be met from bore well.		
Permission	The Bore wells are registered with Goa State Water Resource department. Application for using mine pit water will be submitted.		

viii. Nearest village / town/ highway/railway station / water bodies/monument:

Particulars	Particular's Name	Distance & Directions
Village	Lamgoa	Within the lease area
Town	Bicholim Town	0.5 km, East
Road	State Highway SH-1	0.65 km, East
Railway Station	Tivim Railwaystation	10.5 km, North
Water Bodies	Asnora River	Touching lease boundary at one of the points
	Mayem Lake	0.46 km
	Mandovi River	2.3 km, SW
School	Mulgao Govt. Primary School	Within the lease area
Worship places	Namuzgah/Idgah	Within the lease area
	Shri Lairae Temple	0.86 km
Caves/Fort	300m buffer from Lamgao caves Khorjuvem Fort: 2 km	

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

Forest Land/Protected Area/Environmental Sensitivity Zone	Yes/No	Details of Certificate/letter/Remarks
Forest Land	Yes	Mayem Forest Common Boundary with the mine lease area

		<p>The following Reserve Forests are located within 10 km radius of the mine lease area such as                      Kharapal RF -6.7 km                      Kasarpal RF - 5.1 km                      Ambadgaon RF - 7.6 km</p>
<p>National Park/Wildlife Sanctuary, ESZ/ESA etc.,</p>	<p>No</p>	<p>The Project Proponent has submitted the letter from the Office of the Dy. Conservator of Forests vide Lr No: DCF(WP)/Tech/Digi/Vol-I/75/2022-23/968 dated 23.01.2023 stating that the proposed Bicholim Mineral Block-I is not situated within 10 km radius from the boundary of any the protected area in the State of Goa. PP also submitted the authenticated map dated 24.01.2023 showing the distance of the following Wildlife Sanctuary from the mine lease area.</p> <ul style="list-style-type: none"> <li>i. Madei Wild life Sanctury-14.105 km, E</li> <li>ii. Salim Ali Bird Sanctuary -10.553 km, SW</li> <li>iii. Bondla Wildlife Sanctuary -20.476 km, SE</li> </ul> <p>The Project Proponent also submitted the letter dated 22.02.2023 obtained from the Director (Environment) &amp; Member Secretary, Goa-SEIAA stating that the Authority on perusal of Draft Zonal Master Plan for Eco-Sensitive Zones of Goa 2022 noticed that Eco Sensitive Zones declared by the Ministry of Environment &amp; Forest in the State of Goa covers six Talukas such as Sattari, Dharbandora, Ponda, Sanguem, Canacona and Quepem, Bicholim taluka is not included in Draft Zonal Plan and it is not part of Eco Sensitive Zones. It is also clarified that Block-I Bicholim Mineral Block of Vedanta Ltd is also not a part of any Eco Sensitive Area.</p>
<p>Schedule-I species</p>	<p>Yes</p>	<p>The Project Proponent has submitted the letter from the Office of the Dy. Conservator of Forests vide Lr No: 5/FCA/GEN/F&amp;F/DCFN/TECH/2022-23 dated 04.04.2023 with regard to list of Flora and Fauna species present in core and buffer zone.</p> <p>The following Schedule-I species are found in the study area such as</p> <ul style="list-style-type: none"> <li>1 Common leopard (<i>Felidae</i>)</li> <li>2 White-bellied Sea-Eagle(<i>Accipitridae</i>)</li> <li>3 Indian Peafowl (<i>Phasianidae</i>)</li> <li>4 Crimson rose- Butterfly (<i>Papilionidae</i>)</li> </ul>

Minutes of 20<sup>th</sup> EAC (Non Coal Mining) meeting held during 21-22 September, 2023

Status of Wildlife Conservation Plan	Yes	Wild Life Conservation Plan is prepared and submitted for approval of Chief Wildlife Warden (CWLW) on 19.06.2023. PP has submitted the copy of the acknowledgement from Chief Wildlife Warden.
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x. Green belt/plantation details:

Proposed area for green belt/plantation	105.8894 ha
Budget for green plant& plantation till the end of life of mine.	Rs159.0Lakhs
Particulars for Green belt/plantation	Area covered (in Ha)
7.5 m barrier & non-mineralized zone	25 ha
50 m safety zone of nallah, roads, electric lines	
Additional information (if any)	80.8894 ha (on backfilled area)

xi. Details of Baseline data:

Baseline Data (Air / Water / Noise / Soil / Ground water table/ others)			
Period of baseline data collection	March, 2023 to May, 2023		
Season (Summer / Pre-monsoon / Post-monsoon / Winter)	Summer Season		
Ambient Air Quality (no. of locations) and results	No. of Locations	Parameters	Results
	9	PM10	27.0 to 56.0 µg/m <sup>3</sup>
		PM2.5	14.0 to 36.0 µg/m <sup>3</sup>
		SO2	4.0 to 13.0 µg/m <sup>3</sup>
		NO2	<4.0 to 18.0 µg/m <sup>3</sup>
Noise level (no. of locations) and results	No. of Locations	Parameters	Results
	09	During Day Time [Leq dB(A)]	43.1 to 61.7
		During Night Time [Leq dB(A)]	35.9 to 49.3
Water Quality (no. of locations) and results	Surface water quality		
	No. of Locations	Parameters	Results
	07	pH	6.35 - 7.39
		TDS (mg/l)	72 - 11240
		Fluoride (mg/l)	<0.1
		Chloride (mg/l)	18 - 5620
		Fe (mg/l)	<0.05
		Dissolved Oxygen (as O <sub>2</sub> ), mg/l	6.2 – 6.9
Biochemical Oxygen Demand		<3.0	

Minutes of 20<sup>th</sup> EAC (Non Coal Mining) meeting held during 21-22 September, 2023

		(as O <sub>2</sub> ), mg/l		
		Chemical Oxygen Demand (COD) mg/l	22.0 – 26.0	
	Groundwater Quality			
	No. of Locations	Parameters	Results	
	10	pH		5.63 – 7.07
TDS (mg/l)			20 – 150	
Fluoride (mg/l)			0.1	
Chloride (mg/l)			5.0 - 19.0	
Soil Quality (no. of locations) and results	No. of Locations	Parameters	Results	
	07	pH		5.38 to 5.78
		Electrical Conductivity (mohs/cm)		0.28 to 0.318
		Nitrogen (kg/ha)		200 to 275
		Phosphorus (kg/ha)		14.3 to 17.8
Potassium (kg/ha)			230 to 263	

xii. Public Hearing (PH) Details:

Advertisement for PH with date	07.07.2023 Regional: Bhangar Bhui, Herald, Lokmat & Free press journal (Mumbai Edition) News papers
Date of PH	11/08/2023
Venue	Narayan Zantye Multipurpose Sports Complex, Sarvan, Bicholim, Goa
Chaired by	District Collector, North Goa
Main issues raised during PH	Pollution, impact on ponds, Support for Education, Health, Agriculture Development & Skill Development, Employment.
Budget proposed for addressing issues raised during PH	Rs 309.3 Lakhs

xiii. Rehabilitation & Resettlement:

R & R details	There is presence of habitation within ML Area at Mulgao and lamgao villages. Safety Buffer of 50m will be maintained from the habitations. No Rehabilitation & Resettlement Plan is proposed during life of mine.
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xiv. Court case details:

Court Case	Yes
Additional information (if any)	<u>First Case (Suresh Zantye &amp; ors. v. State of Goa &amp; Ors.):</u>

	<ol style="list-style-type: none"><li>1. WP(Civil) 2478 of 2022 (Filing number) before the High Court of Bombay at Goa</li><li>2. The said writ petition has been filed against the State Government and seeks to challenge the identification of properties bearing survey no. 90/1(part) and 96/0 as part of the recently auctioned Bicholim mine. The petition alleges violation of Rule 5 &amp;6 of Mineral Evidence Rules and Section 10B of MMDR, Act by the State of Goa and DMG. The petitioner has prayed for quashing of auction notice to the extend it includes the property of the petitioner and grant a writ of mandamus against the Respondents.</li><li>3. Case status is pending.</li><li>4. No adverse orders have been passed.</li><li>5. As per the last order the matter has been disposed of by the HC on 17<sup>th</sup> July 2023 with a direction to the Petitioner to make a representation before the Government and the Government is to dispose of the same within four months.</li></ol> <p><u>Second Case (MSPL v. State of Goa &amp; Ors.):</u></p> <ol style="list-style-type: none"><li>1. WP 592 of 2022</li><li>2. The said writ petition seeks to challenge the constitutionality of the tender documents of Phase I auction of Goa mines. The petition alleges violation of Rule 5 &amp; 6 of Mineral Evidence Rules by the State of Goa and DMG. The petition alleges non-disclosure of essential facts such as bore hole data, approved mining plan, production data of the previous five years and exploration data. The petitioner has prayed for quashing of auction notice to the extend it fails to include the essential facts and in the alternative to stay the auction.</li><li>3. Case status is pending</li><li>4. No adverse orders have been passed.</li><li>5. As per the last order the matter was listed on 01.09.2023.</li></ol> <p><u>Third Case (Suresh Govind Gaonkar &amp; Ors v. Directorate of Mines and Geology &amp; Ors):</u></p> <ol style="list-style-type: none"><li>1. PIL WP 2029/2023 (F)</li></ol>
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Minutes of 20<sup>th</sup> EAC (Non Coal Mining) meeting held during 21-22 September, 2023

	<p>2. PIL has been filed challenging state's decision to go ahead with the auction of the mining block. The said PIL also challenges the order dated 13.01.2023 which issues LOI to the successful bidder. The primary grievances of the petitioners are that village settlement are included within the mining blocks auctioned. Hence this PIL was preferred under Article 226 and 21 of the Constitution. Vedanta Limited is Respondent No. 3 in the aforementioned PIL. The matter is listed for first hearing on 25.09.23.</p>
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xv. Affidavit/Undertaking details:

<p>Affidavit as per Ministry's OM dated 30.05.2018</p>	<p>The Project Proponent has submitted the Affidavit in a non-judicial stamp paper of Rs 100 bearing no: A807037 dated 24.04.2023 stating that they will comply to the directions issued by MoEF&amp;CC vide Office Memorandum F.No.3-50/2017.IA.III (Pt) dated 30th May, 2018 in terms of directions given Hon'ble Supreme Court in judgment dated 2nd August 2017 in Writ Petition (Civil) No. 114 of 2014 in the matter of common cause versus Union of India &amp; Ors.</p>
<p>Undertaking of Project Proponent</p>	<p>The Project Proponent has submitted an undertaking stating that the Environmental Impact Assessment Report of Block-1 Bicholim Mineral Block of M/s Vedanta Ltd was prepared by M/s Mineral Engineering Services, QCI/NABET Accredited EIA Consultant at Sr.No. 55 as per list of list of accredited consultant/organizations.</p> <p>The Project Proponent hereby undertaken that the information and data provided in the EIA report and submitted to the Ministry are factually correct and fully accountable for the same.</p>
<p>Consultant submitted an Undertaking vide letter dated 02.06.2023</p>	<p>This is to declare that the prescribed ToRs have been complied with and that the data submitted are factually correct in respect of EIA &amp; EMP report prepared for Block-1 Bicholim Mineral Block of M/s Vedanta Ltd, Goa.</p>

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

Activities	Capital cost (Crores)	Recurring cost (Lakhs/annum)
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Plantation	-	7.5
Environment monitoring	44	44
Air pollution control measures	20	300
Water Treatment	-	11
Erosion control /monsoon measures	-	221
Personal protective equipment	-	15
Maintenance of fire protection systems	-	1.5
Environment awareness & training	-	5
Health	8	16
Total	72	621

xvii. Details of project cost and employment:

Particulars	(Rs. In lakhs)
Project Cost	25000 Lakhs
Employment	716 no.s

### 3. Observation and Recommendation of the EAC:-

The Project Proponent and the Consultant presented the KML file to indicate the site features in the study area of 10 km radius. The Project Proponent has shown the boundary of the mine lease area and informed the EAC that there are two habitations such as Mulgao and Lumgao and schools are located within the mine lease area. Two schools are located in the Mulgao Village. One school is located at a distance of 138m from the Ultimate Pit Limit (UPL) and the other school is located at a distance of 190m from the Ultimate Pit Limit (UPL). No drilling and blasting is involved. Green barriers are maintained to prevent it from the environment hazards. Tributary of Asnora River is touching the mine lease area on the western side. It has been observed that area between river & bottom pit 5 is approximately 6m AMSL which obstructs the flow of water between them, even the high flood condition and at the place where river is touching the block boundary, it is 10.93m AMSL. Hence, even during high flood level, river will not interact with the pit water. The EAC noted that there are few temples, caves and fort are present in the vicinity of the mine lease area. There will be no surface dumping and will be backfilled concurrently and there are voids available for backfilling. Later on the Project Proponent has informed that the pits will be used as a settling ponds. The EAC noted that the Project Proponent is giving two contradictory statements. The EAC asked the Project Proponent to provide the design of the settling ponds in different pits.

The Project Proponent has informed the EAC that Block-I Bicholim block is an old mine and it was auctioned to Vedanta Ltd in the year 2022 and Letter of Intent (LoI) was granted on 13.01.2023. The EAC asked the Project Proponent that after the year 2018 whether any Environmental Clearance has been granted in the State of Goa. The

Project Proponent has informed the EAC after the year 2018 there was no mining in Goa and this instant case is the first case for grant of Environmental Clearance. No forest land is involved in the mine lease area. The EAC noted that the Project Proponent has submitted that Mayem Forest common boundary is sharing with the mine lease area. The EAC was of the view that involvement of forest land within the mine lease area is not clear as there are two contradictory information given by the Project Proponent. The EAC also noted that in this regard, the Project Proponent has not submitted the letter from the Forest Dept. No National Park/Wildlife Sanctuary, ESZ/ESA etc., is located within 10km radius of the study area. An application for Groundwater withdrawal was submitted to Water Resource Department submitted on 19.06.2023. No Rehabilitation and resettlement is involved in this proposal.

The Project Proponent has informed the EAC that ROM/Iron ore or Screened/crushed material will be transported by 10.5 Tonne trippers from mine to Sarmanas jetty through a dedicated road. The total distance from the mine to Jetty is 5.48 km of which 0.94 km stretch is public road and remaining 4.54 km is company owned dedicated road. Width of the road is 7.0m. Twenty four hours continuous volume count was manually undertaken during May-2023. The EAC noted that the width of the road is not adequate. About 1205 no. of trips per day will be carried out. No. of working days will be 365. The EAC was of the view that when the rainfall is 3500 mm/year it will be difficult to carry out mining for 365 days. The Project Proponent has informed the EAC that 275 working days are considered for calculation of traffic load. The EAC asked the Project Proponent to bypass the public road and also to explore the possibility of increasing the capacity of the truck so as to reduce the no. of trips. The EAC opined that the Project Proponent needs to revisit the traffic load by considering the cycle time and waiting time. The EAC also asked the Project Proponent to strengthen the road and convert the road into concrete road.

The Project Proponent also informed the EAC that the predominant wind direction was from West to East. Wildlife Conservation Plan has been prepared and submitted to Chief Wildlife Warden (CWLW) on 19.06.2023 for approval with a budget of Rs. 50 Lakhs. At the end of conceptual stage, an area of 105 ha will be under green belt/ plantation. Eco restoration will be carried out in similar to the reclaimed activity carried out in Sanquelim mine. Public hearing was carried out on 11.08.2023 and a budget of Rs 309.3 Lakhs have been earmarked to address the concerns raised during public hearing. The EAC also noted that about 4708 written objections was submitted against the project during the public hearing. The Project Proponent has informed the EAC that the issues are same but the no. of objection letters were more in number and about 5183 no.s of letters were also received in support of the project. The EAC also noted that many complaints were received against the public hearing dated 11.08.2023. The EAC asked the Project Proponent to submit the video recording of the public



hearing. There are three court cases at present regarding the auction process and one of the court case was disposed on 17.07.2023 and will abide the directions of the Hon'ble High Court. Other two cases in the matter of MSPL v. State of Goa & Ors. in WP 592 of 2022 and in the matter of Suresh Govind Gaonkar & Ors v. Directorate of Mines and Geology & Ors. in PIL WP 2029/2023 (F) are pending before the Hon'ble High Court and no adverse orders has been passed.

The Department of Mines and Geology, Goa was invited as a special invitee to discuss the present status of mining in Goa. The Deputy Director has informed that the State Govt. is looking positive to restart the mining operations in Goa. Besides 10% DMF, there is also a scheme called Goa Iron Ore permanent fund wherein 10% of the sale value of the mineral will be spent towards community based activities as per the direction of the Hon'ble Supreme Court. The State Govt. has put up a scheme for approval before the Hon'ble Supreme Court in line with Pradhan Mantri Khanij Kshetra Kalyan Yojana (PMKKKY) Scheme. This fund has to be kept for prosperity. The report with regard to illegal mining will be obtained from the SIT and will be provided to the Ministry.

After detailed deliberations made by the Project Proponent and the Consultant, the EAC noted that the handling of waste of 25.162 MTPA will be more than the Iron Ore production capacity of 3.0 MTPA. The EAC was of the view that the pollution potential will be more in handling of waste. The EAC not convinced with plan for backfilling and with the design of settling ponds as the annual rainfall is projected as 3500 mm/year. The EAC observed that the instant mine is located in dense vegetation area. The EAC also noted that the mine lease area is located close to the proximity of the habitations, school, forest (Mayem common boundary), river, temples, caves and fort. The EAC also observed that the Project Proponent has not properly worked out the traffic load. Many litigations were received against the public hearing/project. Further, the EAC also noted that mines were not in operation in Goa from the year 2018 and this instant proposal is a first case for grant of Environmental Clearance (EC) under auction after 5 years. Thus there is a need to ascertain the present scenario and ground reality with regards to handling of waste, settling ponds, location of waste dump w.r.t habitation, school and river, other surface features as forest (Mayem common boundary), temples, caves and fort, mineral transportation route and traffic congestion. The EAC was of the view that a site visit needs to be conducted by a sub-committee comprising of EAC Members and officers from MoEF&CC. The EAC opined that the Ministry may constitute a sub-committee and submit its report to enable the committee to take a decision on the proposal. Therefore, the EAC **deferred** the proposal for want of following additional information: -

- i. The site visit report of the subcommittee.

- ii. The Project Proponent needs to revisit the plan for backfilling with clearly indicating the voids area and the capacity available/required for backfilling.
- iii. The Project Proponent needs to submit the design of settling ponds by considering the annual rainfall, catchment area and its discharge.
- iv. The Project Proponent needs to bypass the public road and also to explore the possibility of increasing the capacity of the truck so as to reduce the no. of trips. The EAC opined that the Project Proponent needs to revisit the traffic load by considering the cycle time and waiting time. The Project Proponent needs to submit the action plan for strengthening the road and for converting the unpaved road into concrete road.
- v. Since the mine lease area is sharing the Mayem Forest common boundary, the Project Proponent needs to submit the letter from the State Forest Department regarding the involvement of forest land in the mine lease area.
- vi. The Project Proponent needs to submit a letter from the Department of Geology and Mining, Government of Goa clarifying whether any illegal mining within the mine lease area has been carried out or not and whether the same has been carried out by M/s. Vedanta Limited or not?
- vii. The Project Proponent needs to submit the video recording of the public hearing.

**2.3 Chettichavadi Jaghir Magnesite and Dunite Mine of M/s. Dalmia Bharat Sugar and Industries Limited for Total Excavation of 1.4 million Tonne per annum (MTPA)/ [including 0.06 million tons of Magnesite, 0.12 million tons of Dunite, Waste, O.B, Inter Burden, Top Soil etc.] in the mine lease area of 449.364 ha, located at Chettichavadi Village, Salem Taluk, Salem District, Tamil Nadu - [File No: 23-227/2018-IA.III(V), Proposal No: IA/TN/MIN/241375/2018, Consultant: Aadhi Boomi Mining & Enviro Tech (P) Ltd] - Environmental Clearance (Violation)**

The instant proposal is for mining of Magnesite and Dunite in Chettichavadi Jaghir Magnesite and Dunite Mine for Total Excavation of 1.4 million Tonne per annum (MTPA)/ [including 0.06 million tons of Magnesite, 0.12 million tons of Dunite, Waste, O.B, Inter Burden, Top Soil etc.] in the mine lease area of 449.364 ha, located at Chettichavadi Village, Salem Taluk, Salem District, Tamil Nadu.

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

Minutes of 20<sup>th</sup> EAC (Non Coal Mining) meeting held during 21-22 September, 2023

- i. The mine lease area is located between Latitude: 11°43'09.71"N to 11°44'36.233"N and Longitude: 78°07'23.268"E to 78°09'13.068" E. The mine lease area falls under the Survey of India Toposheet No: 58 I/2 and falls in Seismic Zone-III.
- ii. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals and falls under Category "A" as the mine lease area is greater than 250 ha and appraised at the Central level.
- iii. The Project Proponent obtained Terms of Reference (ToR) vide ToR Lr.No: 23-227/2018-IA.III(V) dated 05.02.2021 for mining of Magnesite and Dunite in Chettichavadi Jaghir Magnesite and Dunite Mine for Total Excavation of 1.4 million Tonne per annum (MTPA)/[including 0.06 million tons of Magnesite, 0.12 million tons of Dunite, Waste, O.B, Inter Burden, Top Soil etc.] in the mine lease area of 449.364 ha under Ministry's Notification dated S.O 804(E) dated 14.03.2017.
- vii. The proposal was earlier considered in the 43<sup>rd</sup> EAC (Non-Coal Mining) meeting held during 14 -16 December, 2021 wherein the EAC deferred the proposal. The Project Proponent submitted the information on 11.03.2022 in Parivesh. But the Project Proponent did not comply to the observation of EAC and in view of the above additional details sought by the Ministry on 27.04.2022, 22.08.2022, 12.09.2022, 04.10.2022 and 22.11.2022 to provide the valid mine lease document and thereafter the Project Proponent submitted the information on 21.12.2022 in Parivesh. Accordingly, the proposal was reconsidered in the 9<sup>th</sup> EAC (Non-Coal Mining) meeting held during 17-18 January, 2023 wherein the EAC deferred the proposal for want of requisite information. Then, the Project Proponent submitted the information on 01.09.2023 in Parivesh portal and accordingly the proposal was again reconsidered in the 20<sup>th</sup> EAC (Non Coal Mining) meeting held during 21-22 September, 2023.

Based on observation of EAC in its EAC meeting held during 17-18 January, 2023 and compliance of observation of EAC made by PP are detailed below:

S. No	Observation of EAC in its meeting held during 17-18 January, 2023	Reply by Project Proponent
1	The project to be consider after deposit of demand raised by State authorities w.r.t Hon'ble Supreme Court common cause Judgment dated 2.08.2017. PP shall submit the proof of payment.	The Project Proponent has submitted that the State Mining Dept., Dept of Geology and Mining, Guindy while confirming the validity of the mine lease vide letter dated 09.12.2022 has directed to remit the EC violation amount of Rs 18.69 Crand Surface Right Compensation amount of Rs 79 Cr after the disposal of thefollowing cases which are pending before the Hon'ble High Court of Madras (1)W.P.No. 2517/2018-Surface Right

		<p>Compensation and (2) W.A.No 834&amp;835/2020 -EC Violation.</p> <p>The Project Proponent has submitted that the said demands are being contested on the grounds amongst others that it has been imposed without opportunity of hearing. However, in case of similar demands to remit EC violation amount, Madurai Bench of Madras High Court by orders dated 18<sup>th</sup> Aug 2020 In W.P. (MD) No. 24463/2018 etc. batch has taken opposite view and held that such demands cannot be enforced without opportunity of hearing. Therefore, the matter has now been referred to larger bench to decide the said issue.</p> <p>The Writ Appeal before Madras High Court regarding demand of EC violation amount INR 11.44 Crore along with entire batch appeals from other ML holder on the same issue is posted for hearing on 12th Sep 2023.</p> <p>Further, a Writ Petition W.P 22888/2023 has been filed before Madras High Court on 27.07.2023 praying amongst others that MOEF&amp;CC should not insist for pre-payment of INR 11.24 Crore and 7.44 Crore for grant of EC (compensation demanded by State Mining Dept. for mining without EC in light of Supreme Court Order In Common Cause, dated 2<sup>nd</sup>August 2017 in Writ Petition (Civil) No. 114 of 2014). The matter is pending and posted for hearing on 20<sup>th</sup>September 2023. The Project Proponentreiterate herein that they will pay the demands upon final disposal of the matter.</p>												
2	<p>The Project Proponent needs to submit the details of all the court cases/show cause notices/ litigations in a chronological manner and its present status with the supporting court orders/ documents.</p>	<p>The Project Proponent has submitted the details of all pending court cases/show cause notices/litigations as on date and their present status with its supporting order/documents as given below in Table.</p> <table border="1" data-bbox="703 1583 1437 1883"> <thead> <tr> <th>S.No</th> <th>Case Reference</th> <th>Facts</th> <th>Current Status</th> </tr> </thead> <tbody> <tr> <td colspan="4" style="text-align: center;">MMRD</td> </tr> <tr> <td>1</td> <td>W.P.25518/2006 Madras HC</td> <td>Since Mines and Geology Dept. was not disposing of the application for renewal of mining lease, Writ Petition No. 25518 of</td> <td>The said order dated 17<sup>th</sup> August, 2006 still continues to be in force and the said W.P. No. 25518 of 2006</td> </tr> </tbody> </table>	S.No	Case Reference	Facts	Current Status	MMRD				1	W.P.25518/2006 Madras HC	Since Mines and Geology Dept. was not disposing of the application for renewal of mining lease, Writ Petition No. 25518 of	The said order dated 17 <sup>th</sup> August, 2006 still continues to be in force and the said W.P. No. 25518 of 2006
S.No	Case Reference	Facts	Current Status											
MMRD														
1	W.P.25518/2006 Madras HC	Since Mines and Geology Dept. was not disposing of the application for renewal of mining lease, Writ Petition No. 25518 of	The said order dated 17 <sup>th</sup> August, 2006 still continues to be in force and the said W.P. No. 25518 of 2006											

Minutes of 20<sup>th</sup> EAC (Non Coal Mining) meeting held during 21-22 September, 2023

			<p>2006, filed by Project Proponent Hon'ble Court granted an interim injunction in favor of the Project Proponent to operate the said mining lease under deemed extension in terms of Rule 24 A (6) of MCR 1960. Accordingly, in light of the interim relief granted by this Hon'ble Court, the Appellant continued its mining operations without any expansion and or modification.</p>	<p>is also pending as on date.</p> <p>Now State Mining Dept. issued letter dated 9th Dec 2022 hence this writ petition is now redundant.</p>
2	<p>In terms of the Supreme Court Order dated the 22nd August 2017 in Writ Petition (Civil) No. 114 of 2014, Dist. Collector Salem raised a demand vide order 18th June 2019 directing Dalmia Bharat Sugar &amp; Industries Ltd. (DBSIL), project proponent here to pay sum of INR 11.44 crore on the quantity of Dunite mined without EC for the period 1st April 2000 to 31st March 2018.</p>	<p>The said demand was challenged by the DBSIL before Hon'ble Madras High Court by WP No. 889 of 2020 wherein DBSIL. The said writ petitions were dismissed by Hon'ble High Court vide orders dated 12<sup>th</sup> June 2020. The orders dated 12th June 2020 passed by Hon'ble High Court has been challenged by DBSIL vide Writ Appeal No 834 of 2020 which are yet to be</p>	<p>Writ Petition No.29275 of 2016 Disposed by passing judgment dated 11th January 2022 by the Hon'ble Madras High Court with direction to PP to obtain EC.</p>	

Minutes of 20<sup>th</sup> EAC (Non Coal Mining) meeting held during 21-22 September, 2023

				<p>taken up for hearing. In the meanwhile, Hon'ble Madurai Bench of Madras High Court in a different batch of writ petitions challenging demands by other District Collectors in terms of the said Supreme Court Order dissented with the orders dated 12th June 2020 on the ground that raising of demand Without opportunity of hearing may not be proper. The Madurai Bench of Madras High Court recorded its reasons for dissent in its order dated 19<sup>th</sup> August 2020 in W.P(MD) No.24463 of 2018 and etc. batch and requested Hon'ble Chief Justice of Madras High Court to place the matter before an appropriate bench. District Collector has also issued notice date 8th July 2020 for recovery of the amount. We have</p>	
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Minutes of 20<sup>th</sup> EAC (Non Coal Mining) meeting held during 21-22 September, 2023

			requested to keep the recovery proceedings in abeyance in view of the matter being sub judice	
3	District Collector, Salem has also raised another demand vide order dated 08.07.2020 directing project proponent to pay sum of Rs.7.24 crore on the quantity of Magnesite mined without EC for the period 01.04.2000 to 31.03.2018.	Project Proponent has sought basis of demand from District Collector. The demand is pending for disposal in view of above-mentioned development in the similar matter.	Pending.	
4	W.P.No.2517 of 2018 before Madras H.C.  (District Collector's demand of surface compensation of Rs.79,88,39,062 from 20.08.1966 till 31.10.2017)	Project Proponent has filed W.P.No.2517 of 2018 before Madras H.C. Later on, vide orders dated 28th Feb 2022, the writ had been tagged with Writ Appeal, No. 757 of 2020. The Writ Appeal also pertains to said demand U/r 72 while stay of demand has been ordered to be continued, until vacated by Court. The demand is stayed till date.	Pending, stay order is in force	
5	W.P 22888/2023 – Dalmia Bharat Sugar & Industries Ltd. Vs Secretary, MOEF&CC	Writ Petition filed before Madras High Court praying amongst others that MOEF&CC	Posted for hearing on 20 <sup>th</sup> Sept. 2023	

Minutes of 20<sup>th</sup> EAC (Non Coal Mining) meeting held during 21-22 September, 2023

			should not insist for prepayment of INR 11.24 Crore and 7.44 Crore for grant of EC (compensation demanded by State Mining Dept. for mining without EC in light of Supreme Court Order in Common Cause, dated 22nd August 2017 in Writ Petition (Civil) No. 114 of 2014.		
Environment Protection Act					
		6	Show cause vide Proceeding Letter No. SLM0006/DEE/TNPCB/SLM/RL/2014, dated 03.06.2014 by Tamil Nadu State Pollution Control Board u/s 19 of Environment Protection Act	Notices have been issued U/s 19 of Environment Protection Act to all the directors of the Project Proponents on the alleged ground of mining without EC during the period of deemed extension while the application for second renewal of mining lease was pending.  Replies have been filed stating amongst others that mining was carried out under the provisions of deemed extension read with above mentioned order dated	Pending



Minutes of 20<sup>th</sup> EAC (Non Coal Mining) meeting held during 21-22 September, 2023

			17th August 2006 of Madras HC		
		7	Show Cause vide Proceeding Letter No. FEF/TNPBC/SLM/F/006 /20 by Tamil Nadu State Pollution Control Board U/s 19 of Environment Protection Act dated 4 <sup>th</sup> May 2020	Notices have been issued U/s 19 of Environment Protection Act to the Project Proponent. On the alleged ground of mining without EC during the period of deemed extension while the application for second renewal of mining lease was pending. Replies have been filed stating amongst others that mining was carried out under the provisions of deemed extension read with above mentioned order dated 17th August 2006 of Madras HC.	Criminal Case vide CC.No.388 of 2023 has been filed in Salem Judicial Magistrate Court No-4 by TNPBC against the DBSIL represented by Shri. P.G. Kalidass, Agent and Superintendent of Mines.
Air Act & Water Act:					
		8	Show Cause Notice dated 5 <sup>th</sup> Feb 2013 under Water Act Show Cause Notice dated 5 <sup>th</sup> Feb 2013 under Air Act	Mining Activity without EC on renewal of mining lease. Reply to the notices have been filed.	Pending
		9	Mr. S. Sakthivel of Environmental Protection Anti-Pollution Group, Salem filed Original Application No: 213/2021 before NGT Chennai	It was alleged in the application that that mining is being carried out without renewal of ML and without EC. In the said application PP along with MOEF and	The said Original Application is finally disposed of vide orders dated 18 <sup>th</sup> May 2023 with direction to PP to obtain EC before starting ML operations. The said order

Minutes of 20<sup>th</sup> EAC (Non Coal Mining) meeting held during 21-22 September, 2023

				State Mining Dept. was arrayed as Respondents.	following observation: "the Environmental Clearance was required to be obtained from the year 1994" ( <i>vis-à-vis mining project of the Applicant herein</i> ). We have moved a Review Application No. 14/2023 for correction of the said observation because under 1994 Notification EC was required for new projects. The mining projects which were existing in 1994, required EC at the time of expansion or renewal of ML. In the said Review Application, we have not sought any change in the directions to PP to first seek EC from MOEF. The matter is listed on 12 <sup>th</sup> Sep 2023.
3	The Project Proponent needs to submit the status of the credible action to be initiated by the State Govt. against the Project Proponent under the section 19 of E(P)A, 1986 in reference to the Ministry's letter dated 25.11.2020.	The Project Proponent has submitted that the credible action has been initiated by the State Govt./TNPCB under the section 19 of Environmental (Protection) Act, 1986 vide case no. CC No: 388/23 at Chief Judicial Magistrate Court no. IV, Salem dated 13.04.2023.			

Minutes of 20<sup>th</sup> EAC (Non Coal Mining) meeting held during 21-22 September, 2023

4	<p>The Project Proponent needs to submit the revised letter from the Competent Authority, Forest Department clearly mentioning the type of Schedule Species in the study area of 10 km radius and accordingly the Project Proponent needs to submit the proof of submission of Wildlife Conservation Plan made to the Forest Dept with the timeline for implementation and the budget proposed.</p>	<p>The Project Proponent has submitted the revised letter from the Tamilnadu Forest Department vide letter no C.No. 228/2021 dated 13.02.2023 mentioning the details of flora, fauna, type of forest and list of schedule - I species in the study area. It has been also mentioned that there are 10 mammals, 6 birds and 2 reptiles are found under Schedule-I category.</p> <p>The Project Proponent also submitted that based on the revised letter issued by the Tamilnadu Forest Department vide letter dated 13.02.2023, Wildlife Conservation Plan has been submitted to the Tamilnadu Forest Department vide letter dated 09.03.2023 and proof of the same also submitted. The Project Proponent earmarked a budget of Rs 13.0 Lakhs towards conservation of Schedule I fauna.</p>
5	<p>The Project Proponent needs to submit the District Survey Report for Dunite to be approved by the SEIAA, Tamil Nadu.</p>	<p>The Project Proponent has submitted the letter issued by the SEIAA-Tamil Nadu vide Lr.No: SEIAA-TN/C.No.6013/2023 dated 06.06.2023 stating that SEIAA-TN is hereby endorsing the District Survey Report prepared for the mineral - Dunite by the Dept of Geology &amp; Mining and approved by the District Administration, which establish that the mineral resource of Dunite is existing along with the magnesite in the mine lease hold area of an extent of 449.364 Ha in Chettichavadi Village. Salem District. Tamil Nadu owned by Dalmia Bharat Sugar and Industries Ltd.</p>
6	<p>The Project Proponent needs to submit the complete copy of the Approved Mining Plan dated 30.03.2021 in Parivesh.</p>	<p>The Project Proponent has submitted the copy of Review of Mining Plan including Progressive Mine Closure Plan for the period 2021-22 to 2025-26 in Parivesh portal.</p>
7	<p>The Project Proponent needs to submit the valid NABET Accreditation Certificate of the Consultant in Parivesh.</p>	<p>The Project Proponent has submitted the valid Certificate of Accreditation of the EIA Consultant Valid up to October 22, 2024.</p>
8	<p>The Project Proponent needs to submit the undertaking as per Ministry's OM dated 05.10.2011 and also the</p>	<p>The Project Proponent has submitted an undertaking vide letter dated 21.04.2023 to the effect that the conditions laid down in the Terms of Reference under violation case vide ToR letter dated 05.02.2021 for existing Magnesite and</p>

	<p>Consultant needs to submit the undertaking as per Ministry's OM dated 04.08.2009.</p>	<p>Dunite mines in S.F.No. 6, over an extent of 449.364 ha of Chettichavadi Village, Salem Taluk and District, Tamil Nadu have been complied with in the final EIA &amp; EMP report and the data submitted and information presented there in are true and correct to the best of my knowledge.</p> <p>The Consultant has submitted an undertaking vide letter dated 21.04.2023 stating that the Final EIA and EMP report has been prepared in compliance with the conditions laid down in the Terms of Reference under violation case vide letter dated 05.02.2021 including Ecological damage assessment, remediation plan, natural resource augmentation plan and community resource augmentation plan for obtaining EC from MoEF&amp;CC, New Delhi for existing Magnesite and Dunite mines in S.F.No. 6, over an extent of 449.364 ha of Chettichavadi Village, Salem Taluk and District, Tamil Nadu. The head of the accredited consultant organization also confirmed that they shall be fully accountable for mis leading information mentioned in this statement.</p>
<p>9</p>	<p>The Project Proponent needs to reupload the EIA/EMP report along with the contents of the EIA/EMP report in Parivesh.</p>	<p>The Project Proponent has submitted that the Final EIA/EMP report along with the contents has been re-uploaded in Parivesh along with ADS reply.</p>

**3. Observation and Recommendation of the EAC: -**

The EAC deliberated on the additional details submitted by the Project Proponent and the Consultant. The Project Proponent has informed the EAC that the Dept. of Geology and Mining, Guindy while confirming the validity of the mine lease vide letter dated 09.12.2022 has directed to remit the EC violation amount of Rs 18.69 Cr and Surface Right Compensation amount of Rs 79 Cr after the disposal of the following cases which are pending before the Hon'ble High Court of Madras (1) W.P.No. 2517/2018-Surface Right Compensation and (2) W.A.No 834&835/2020 -EC Violation. The Project Proponent has informed the EAC the demand will be paid subject to the outcome of disposal of the court cases. An affidavit dated 22.04.2023 has been submitted as per Ministry's OM dated 30.05.2018. The Project Proponent also informed the EAC that a Writ Petition W.P 22888/2023 has been filed before Madras High Court on 27.07.2023 praying amongst others that MOEF&CC should not insist for pre-payment of INR 11.24 Crore and 7.44 Crore for grant of EC (compensation demanded

by State Mining Dept. for mining without EC in light of Hon'ble Supreme Court Order dated 2<sup>nd</sup> August 2017 in Writ Petition (Civil) No. 114 of 2014) in the matter of Common Cause versus Uol and others. Further, the Project Proponent also informed the EAC that no stay order has been imposed by the Hon'ble High Court.

The Project Proponent has informed the EAC that they are ready to submit the bank guarantee. The EAC reiterated the Ministry's OM dated 30.05.2018 stating that *"the Environmental Clearance will not be operational till such time the Project Proponent complies with all the statutory requirements and judgment of Hon'ble Supreme Court dated the 2nd August 2017 in Writ Petition (Civil) No. 114 of 2014 in the matter of Common Cause versus Union of India and Ors"*. The EAC opined that even if the Project Proponent submits the bank guarantee the purpose of granting EC will not meet the requirement as per Ministry's OM dated 30.05.2018. The matter is pending and posted for hearing on 15<sup>th</sup> October 2023. The Project Proponent has also informed the EAC that the credible action has been initiated by the State Govt./TNPCB under the section 19 of Environmental (Protection) Act, 1986 vide case no. CC No: 388/23 dated 13.04.2023 at Chief Judicial Magistrate Court no. IV, Salem. The matter is listed on 11.10.2023.

The Project Proponent has informed the EAC that based on the revised letter issued by the Tamilnadu Forest Department vide letter dated 13.02.2023, Wildlife Conservation Plan has been submitted to the Tamilnadu Forest Department vide letter dated 09.03.2023 and the Project Proponent has showed the proof of the same. A budget of Rs 13.0 Lakhs has been earmarked towards conservation of Schedule I fauna. The Project Proponent has also showed the letter issued by the SEIAA-Tamil Nadu vide letter dated 06.06.2023 stating that SEIAA-TN is hereby endorsing the District Survey Report prepared for the mineral - Dunite by the Dept of Geology & Mining and approved by the District Administration, which establish that the mineral resource of Dunite is existing along with the magnesite in the mine lease hold area of an extent of 449.364 Ha in Chettichavadi Village. Salem District. Tamil Nadu owned by Dalmia Bharat Sugar and Industries Ltd.

After detailed deliberations made by the Project Proponent and the Consultant, the EAC was of the view that even if the Project Proponent submits the bank guarantee, the Project Proponent will not be able to comply to the statutory requirements and judgment of Hon'ble Supreme Court dated the 2<sup>nd</sup> August 2017 in Writ Petition (Civil) No. 114 of 2014 in the matter of Common Cause versus Union of India and Ors" and will not be able to start the mine operation. Therefore, the EAC **deferred** the proposal and asked the Project Proponent to submit the proof of payment of Rs. 18.69 crore as per Dept. of Geology and Mining, Guindy letter dated 09.12.2022 for further consideration of the instant proposal before the EAC.

**2.4 Bathiya Limestone Mine of M/s AAA Resources Private Limited for mining of Limestone with production capacity of 4.0 MTPA, Topsoil: 0.41 MTPA, Waste/reject: 4.43 MTPA (Total excavation: 8.84 MTPA) along with the crusher of 1400 TPH in the mine lease area of 266.302 ha, located at Bathiya, Barahiya, Karaundi, Chapna and Tamoria Villages, Tehsil: Maihar, District: Satna, Madhya Pradesh – [F.No: J-11015/44/2020-IA-II(M), Proposal No: IA/MP/MIN/405276/2022, EIA Consultant: M/s Pragathi Labs & Consultants Pvt Limited] - Environmental Clearance (EC)**

The instant proposal is for grant of Environmental Clearance of M/s AAA Resources Private Limited for mining of Limestone in Bathiya Limestone Mine with production capacity of 4.0 MTPA, Topsoil: 0.41 MTPA, Waste/reject: 4.43 MTPA (Total excavation: 8.84 MTPA) along with the crusher of 1400 TPH in the mine lease area of 266.302 ha, located at Bathiya, Barahiya, Karaundi, Chapna and Tamoria Villages, Tehsil: Maihar, District: Satna, Madhya Pradesh.

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

- i. The mine lease area located between Latitude 24°16'19.675" N - 24°18'46.795" N and Longitude 80°52'42.166" E - 80°55'18.769" E. The mine lease area falls under the Survey of India Toposheet No: 63D/15 and falls in Seismic zone-III.
- ii. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals and falls under Category 'A' as the mine lease area is greater than 250 ha and appraised at the Central level.
- iii. The proposal was earlier considered in the 11<sup>th</sup> EAC (Non-Coal Mining) meeting held during 1-2 March, 2023 wherein the EAC after detailed deliberations deferred the proposal for want of requisite information. Then, the Project Proponent submitted the information on 20.04.2023 in Parivesh portal. Accordingly, the proposal was considered in the 15<sup>th</sup>EAC (Non-Coal Mining) meeting held during 30-31 May, 2023 wherein the EAC again deferred the proposal for want of additional information. Then, the Project Proponent submitted the information on 05.09.2023 in Parivesh portal and accordingly the proposal was again considered in the 20<sup>th</sup> EAC (Non Coal Mining) meeting held during 21-22 September, 2023.

Based on observation of EAC, compliance of observation of EAC in its meeting held during 30-31 May, 2023 made by Project Proponent are detailed below:

S. No	Observation of EAC in its meeting held during 30-31 May, 2023	Reply by Project Proponent

Minutes of 20<sup>th</sup> EAC (Non Coal Mining) meeting held during 21-22 September, 2023

1	The Project Proponent needs to submit the certificate from the Chief Wildlife Warden regarding movement of tigers in the study area.	The Project Proponent has submitted the letter from the Office of the Principal Chief Conservator of Forest (Wildlife), Madhya Pradesh vide Letter no. SI.Va.Pra/Machi/GEN-506/77545 Bhopal, dated 23.08.2023 stating that the proposed mining area (2.63 km) is far from Compartment No.P-471 of Banshipur beat or Forest Range Maihar. Near proposed site of the forest range, no tiger movement has been observed for the last 10 years. On the basis of reports submitted by Divisional Forest Officer, Forest Division, Satna and Chief Conservator of Forest, Rewa Division, this office is agreed and forwarding the letter for necessary action.						
2	The Project Proponent needs to verify whether the instant mine lease area falls in the Greater Panna Landscape delineated by the Wildlife Institute of India (WII).	The Project Proponent has submitted the map showing the mine lease area in the Greater Panna Landscape delineated by the Wildlife Institute of India (WII).						
3	The Project Proponent needs to submit the approved action plan to monitor the movement of tigers in the vicinity of the mine lease area from the Chief Wildlife Warden.	<p>The Project Proponent has submitted the letter from the Office of the Principal Chief Conservator of Forest (Wildlife), Madhya Pradesh vide Letter no SI.M.Pra/Machi/Mines-157/7493 Bhopal dated 17.8.2023 stating that an action Plan has been prepared by Shri Ravikant Mishra, IFS (Retired) for conservation of Flora and Fauna in the 10 kms of limestone mining lease area (266.302 ha.) of M/s AAA Resource Pvt Ltd covering Village Bathiya, Barahiya, Karaundi, Capana and Tamoriya, Tehsil Maihar, District-Satna. The Action Plan has been prepared on the basis of condition mentioned in SI.No.1 of the decision taken in 15<sup>th</sup> meeting of Expert Appraisal Committee of Specialists. The Action Plan has been submitted along with recommendation letter of Divisional Forest Officer, Common Forest Division, Satna.</p> <p>As per recommendation letter of the Divisional Forest Officer, Common Forest Division, Satna a proposal for action plan for wildlife conservation for monitoring the tigers' movement within vicinity of 10 km of mining area an amount of Rs.16.50 lacs has been estimated, bifurcation are as under:-</p> <table border="1" data-bbox="690 1837 1372 1873"> <thead> <tr> <th data-bbox="690 1837 808 1873">S. No</th> <th data-bbox="808 1837 1203 1873">Item of Work</th> <th data-bbox="1203 1837 1372 1873">Amount</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	S. No	Item of Work	Amount			
S. No	Item of Work	Amount						

				(Rs. In Lacs)										
		1	Procurement of Camera Trap (20 Nos.)	4.0										
		2	Procurement of Batteries Memory Cards etc for Camera Trap	0.50										
		3	Procurement of hand held GPS, binoculars	2.0										
		4	Procurement of Mobile Phone	1.0										
		5	Creation of pug-mark impression pads in forest road, near water holes and other places as per requirement	2.0										
		6	Awareness generation, workshop of mine staff, workers, JFMC members & students by forest department	5.0										
		7	Honorarium and wages for camera installation in field and its data collection	2.0										
			Total	16.50										
		<p>In this regard, after final approval from India Government/State Government and before commencement of the mining and within time limit and according to amended action plan for wildlife management allocated fund Rs.16.50 lacs in one time is to be deposited in Saving Bank Account No.10571048460 (IFSC: SBIN0001308), Main Branch of State Bank of India, TT Nagar, of Madhya Pradesh Tiger Foundation Society.</p> <p>The Project Proponent also submitted the copy of the action plan to monitor the movement of Tigers in the vicinity of the Bathia mining lease area.</p>												
4	The Project Proponent needs to revisit the action plan for the purpose of local employment in a more specific manner by mentioning the skills to be imparted, physical and financial targets and timelines.	<p>The Project Proponent has submitted the revised action plan for Skill development as given below in table: -</p> <table border="1"> <thead> <tr> <th>S.No</th> <th>Skill Development program</th> <th>Through</th> <th>Number of Candidates</th> <th>Total Course Fee for a Course</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Stitching &amp; Designing course/</td> <td>NSDC / ITI</td> <td>37</td> <td>2,25,680</td> </tr> </tbody> </table>			S.No	Skill Development program	Through	Number of Candidates	Total Course Fee for a Course	1	Stitching & Designing course/	NSDC / ITI	37	2,25,680
S.No	Skill Development program	Through	Number of Candidates	Total Course Fee for a Course										
1	Stitching & Designing course/	NSDC / ITI	37	2,25,680										



Minutes of 20<sup>th</sup> EAC (Non Coal Mining) meeting held during 21-22 September, 2023

			Fashion Design and Technology			
		2	Data Feeder Consignment tracking Warehouse - Logistic	NSDC / ITI	30	1,85,360
		3	COPA (Computer Operator & Programming Assistant) / CHNM (Computer Hardware and Network Maintenance)	ITI	30	1,85,360
		4	MRAC (Mechanical, Refrigerator & Air Condition)/ Electrician/ Fitter etc.	ITI	25	2,94,000
		5	Carpenter / Mason / Diesel Mechanic etc.	ITI	45	2,78,040
		6	Heavy Vehicle Driving	Ashok Leyland Institute of Driving Training and Research, Devardha, MP	90	9,93,000
					257	21,61,440
			Contingency Amount @15%			3,24,216
			Total Budget			24,85,656
			Say (Rs. Lakh)			25.00
5	The Project Proponent needs to submit the map demarcating the land to be purchased and already purchased land. PP also needs to submit the phase wise plan for land acquisition.	The Project Proponent has submitted the map demarcating the purchased land and non-purchased land within the mine lease area. The land will be purchased for mining as per approved mining plan. It is planned to obtain surface rights of the land required for first five-year mining operations within three years in a phased manner. The balance land will be purchased subsequently.				
6	The Project Proponent needs to submit the copy of	The Project Proponent has submitted the copy of order dated 06.07.2023 pronounced by the Hon'ble				

Minutes of 20<sup>th</sup> EAC (Non Coal Mining) meeting held during 21-22 September, 2023

	withdrawal petition filed on 09.05.2023 before the Hon'ble High Court of Madhya Pradesh at Jabalpur Bench.	High Court of Madhya Pradesh at Jabalpur Bench stating that for the reasons assigned in the application, I.A No. 6358 of 2023 seeking withdrawal of the writ petition is allowed. The writ petition is accordingly dismissed as withdrawn with liberty to file a fresh petition.
7	The Project Proponent needs to submit the undertaking as committed before the EAC towards promotion of solar energy.	The Project Proponent has submitted an undertaking vide letter dated 29.08.2023 stating that the daily average load of electrical installation including crusher at mines will be 477 kW. Further, the proposed capacity is in line with Gazette Notification no. RG-39(I) dated 22.07.2022 of Madhya Pradesh Electricity Regulatory Commission (MPERC), 2022 which permits eligible consumer to install renewable energy generating systems under the net metering arrangements upto 500 kW capacity. The Project Proponent undertakes to install solar energy with capacity of 500 kW within two financial years.

iv. Details of Terms of Reference (ToR):

Date of application	Proposal No/ File No	Consideration by EAC	Details of ToR	Date of accord
30.09.2020	IA/MP/MIN/176767/2020  J-11015/44/2020-IA-II(M)	November 23-25, 2020&9-11 and 14-15 June, 2021	Terms of Reference to M/s AAA Resources Private Limited for Bathiya Limestone mine with Total excavation: 8.84 MTPA, Limestone: 4.0 MTPA, Waste/reject: 4.43 MTPA Topsoil: 0.41 MTPA in the mine lease area of 266.302 Ha at Bathiya, Barahiya, Karaundi, Chapna and Tamoria villages, Tehsil: Maihar, District: Satna, State: Madhya Pradesh.	02.07.2021

v. Details of Mine Lease:

Minutes of 20<sup>th</sup> EAC (Non Coal Mining) meeting held during 21-22 September, 2023

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 No F3-8/2011/ 12/1	03.01.2018	Limestone	50 years	Govt. of Madhya Pradesh	266.302
2	Grant of mining lease Lr No AF 3-8/ 2014/ 12/1	13.01.2021	Limestone	50 years	Govt. of Madhya Pradesh	266.302

Details of Mine Lease Deed:

S. No	Details of grant of Mine Lease deed execution	Period of Grant		Name of the Mineral	Mine lease area in Ha
		From	To		
1	Mining Lease deed executed on 28/01/2021	28/01/2021	27/01/2071	Limestone	266.302

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

Private land	258.230 ha
Government land	8.072 ha
Forest land	Nil
Total Mining lease area (MLA)	266.302 ha
Private land for crusher, workshop & other infrastructure outside the MLA	Nil

vii. Details of Mining Plan:

Mining Plan including Progressive Mine Closure Plan approved by Indian Bureau of Mines	Letter No.	MP/Satna/Limestone/MPLN/G-04/2020-21
	Date	16.09.2020
	Mineral & (Major/Minor)	Limestone (Major)
	Mine Lease Area, Ha	266.302
	Production capacity	4.0 MTPA
Mining Parameters	Quantitative Description	
Method of Mining	Opencast fully mechanized	
Drilling/Blasting	Spacing: 5.0 m Burden: 3.25 m Depth of hole: 8 m (Sub grade drilling 10% =0.8m) Charge per hole: 50 – 60 kg Powder Factor (t/kg): 5 – 6	

Minutes of 20<sup>th</sup> EAC (Non Coal Mining) meeting held during 21-22 September, 2023

	Dia. of hole: 115 mm
Geological Reserves	86.46 million tonnes
Mineable Reserves	33.96 million tonnes
Breakup of Total Excavation (Topsoil/OB/SB/IB/Mineral Rejects/ Waste, MTPA)	Total excavation: 8.84 Million Tonnes Per Annum (MTPA) includes Topsoil: 0.41 MTPA; Waste/Reject: 4.43 MTPA; Limestone: 4.0 MTPA
Life of mine	12 years
Mine Bench Height & Bench Width	8 m and 15-30 m
No. of Mine Benches	7
Existing Depth, m bgl	Not applicable
Ultimate Depth of Mining, m bgl	55 m bgl in block-1, 30 m bgl in block 10
Ground Water Table, m bgl	Pre-monsoon 11.63 m bgl; post-monsoon 7.06 m bgl
Details of ground water intersection	Mine workings will intersect water table around 7.06 m during post-monsoon and 11.63 m during pre-monsoon.
Individual bench slope	80°
Overall pit slope	45°
Details of existing/ proposed Crusher	One crusher of 1400 TPH is proposed.  The Project Proponent has submitted that the installation of crusher plant of 1400 TPH will start immediately after obtaining CTE and the installation work will be completed within 1 year.
Mineral Beneficiation	Not applicable
RoM output size	Max. 600 mm
Transportation details including capacity of dumper/tipper, mode of transport and distance	The limestone after crushing will be dispatched by tipper trucks through road to cement plant located at Bharauli for captive use.  Approximate distance is 27 km.  Capacity of dumper is 40 tonnes.  The ROM limestone will be crushed before being dispatched to the cement plant. Further, till the installation of crusher, sized limestone will be transported to cement plant for captive use.
Generation of Topsoil/OB & its Management during plan period & conceptual period	Top soil generation during plan period - 8,90,455 m <sup>3</sup> and during life of mine - 5.02 million m <sup>3</sup> .  The same will be stored temporarily for future use in plantation / reclamation.
Generation of Mineral Rejects/ Waste & its Management during	During the first five years period, 27,53,100 m <sup>3</sup> of waste will be generated. The part quantity will be

Minutes of 20<sup>th</sup> EAC (Non Coal Mining) meeting held during 21-22 September, 2023

plan period & conceptual period	used for preparing protective bund, crusher ramp etc. and remaining will be stored in temporary waste dump.  Upto conceptual period 36.70 million m <sup>3</sup> OB will be generated. Entire quantity will be used for backfilling of mine pits.
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viii. Water requirement:

Total water requirement	412 KLD	Fresh water	412 KLD
		Treated water	Nil
Source	Ground water during initial years of operation.		
Permission for withdrawal/ intersection along with details of grant and its validity	Application has been submitted to CGWA for obtaining NOC vide application no. 21-4/1658/MP/MIN/2022 on 15/11/2022 and is in under progress. Water abstraction charges are paid and application is in advance stage of processing at CGWA, HQ. Presentation before CGWA committee made on 02ndMay 2023. PP also submitted the status of application submitted to CGWA.		

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

Particulars	Particular's Name	Distance & Direction
Village	Tamoriya near block 1 and Barahiya near block 10	Adjacent
Town	Amarpatan (Block-1, Block-8 and Block-10)	5.8 km- E, 8.6 km-ENE and 9.0 km-W
Highway	Maihar - Amarpatan/Rewa road	0.1 km, N
Interstate Boundary	Uttar Pradesh	Approx. 67 km, N
Railway station / railway line	Maihar	11.6 km, W
Water bodies	Serainjinala Tamas/Tons river Bihar river Bakaulinala Pathananala	1.9 km, S 6.9 km, W 7.6 km, SE 8.0 km, N 9.2 km, WNW
	The Project Proponent has submitted that two small portions of the canal passing through the lease area will not be diverted. A safety barrier of 50 meters on either side of the canal will be left and plantation will be done on the safety barrier.	
Forest	Sirgo RF; Papra RF	8.2 km-NE; 9.2 km-SE

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

Forest	Land/Protected	Yes/No	Details of Certificate/letter issued by
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Minutes of 20<sup>th</sup> EAC (Non Coal Mining) meeting held during 21-22 September, 2023

Area/Environmental Sensitivity Zone		the concerned Department mentioning the Lr. no, date of grant and remarks
Forest Land within the mine lease area and (if yes) status of Forest Clearance	No	PP submitted that there is no forest land within ML area. PP also submitted the letter from the Forest Dept. Satna, MP vide letter no. 2409 dated 04-03-2021 in this regard.
National Park	No	PP submitted the letter from PCCF (Wildlife and Chief Wildlife Warden, MP) vide Lrno. No./B.Pra/Ma.Chi/Mine-85/ 3211 dated 08-04-2021 stating that there is no Protected Area / Tiger Reserve / Sanctuary / Biosphere / Wildlife Corridor / Ramsar Site / Elephant Reserve / Eco Sensitive Zone within 10km radius and also submitted the authenticated map of 10km radius from the Forest Dept. in this regard.
Wildlife Sanctuary	No	
Elephant/Tiger Reserve	No	
Eco-Sensitive Zone(ESZ) /Eco-Sensitive Area (ESA)	No	
Coastal Regulation Zone (CRZ)	No	--
Schedule-I species (No. and name of schedule-I species with authenticated letter)	No	PP submitted the List of Flora and Fauna authenticated by Forest Dept., Satna.
Wildlife Conservation Plan	No	Not Applicable
Additional information (if any)		The Project Proponent has submitted the action plan prepared by Sh. Ravikant Mishra IFS, CCF(Rtd), Bhopal to monitor the movement of tigers with participation of mine staff, workers, JFMC members, students and Forest Department.

xi. Details of Green belt/plantation:

Proposed area for green belt/plantation and no. of saplings proposed	Greenbelt:46.64 ha and 69,960 numbers Backfilled area: 134.85 ha and 2,02,275 numbers
Budget for green plant & plantation till the end of life of mine.	₹2.722 Cr.
Budget for nursery	Included in the above figure
Details of existing plantation and its survival rate	Not applicable
No. of tree cuts in the mine lease area and compensatory afforestation	Nil and compensatory afforestation is not applicable.
Particulars for Green belt/plantation	Area covered (in Ha)
7.5 m barrier & non-mineralized zone	46.64
50 m safety zone of nallah, roads, electric lines	
500 m safety zones of nearest habitation	

Minutes of 20<sup>th</sup> EAC (Non Coal Mining) meeting held during 21-22 September, 2023

villages	
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xii. Baseline data:

Baseline Data (Air / Water / Noise / Soil / Hydro geological study/ Traffic Study/ others)				
Period of baseline data collection		December 2020 to February 2021		
Season (Summer / Pre-monsoon / Post-monsoon / Winter)		Winter		
Predominant Wind direction (From)		North-West		
Ambient Air Quality (no. of locations) and results		10 locations Result summary: PM <sub>10</sub> : 30.7 µg/m <sup>3</sup> - 61.7 µg/m <sup>3</sup> PM <sub>2.5</sub> : 18.2 µg/m <sup>3</sup> - 36.9 µg/m <sup>3</sup> SO <sub>2</sub> : 10.8 µg/m <sup>3</sup> - 18.1 µg/m <sup>3</sup> NO <sub>2</sub> : 14.1 µg/m <sup>3</sup> - 24.8 µg/m <sup>3</sup>		
Noise level (no. of locations) and results		10 locations Result summary: Day Time (Lday) noise level: 41.8 dB (A) - 55.6 dB (A) Night Time (Lnight) noise level: 38.4 dB (A) - 52.8 dB (A).		
Water Quality (no. of locations) and results: 11 Locations (9 ground water and 2 surface water)		Parameters	Surface water (5 locations)	Ground water (5 locations)
		pH at 25°C	6.86 - 6.94	7.01 - 7.62
		Total Dissolved Solids, mg/l	-	371.5 - 960.1
		Chloride as Cl <sup>-</sup> , mg/l	48.6 - 61.2	86.5 - 282.6
		Total Hardness, mg/l	154.22 - 168.54	186.21 - 440.35
		DO, mg/l	5.6 - 6.1	-
		BOD, mg/l	less than 3 mg/l	-
		Fluoride as F, mg/l	0.4-0.5	0.6 - 1.2
		Sulphates as SO <sub>4</sub> ,mg/l	31.8 - 32.6	34.6 - 112.5
Soil Quality (no. of locations) and results: 10 locations		Parameters		Observed Values
		pH		4.92 - 7.02
		Texture		Sandy clay to clay
		Electrical Conductivity (µS/cm)	82.4 - 302.1	
		Organic Carbon (%)		0.19 - 0.46

	Available Nitrogen as N (Kg/Ha)	38.5 - 56.4
	Available Phosphorus (Kg/Ha)	38.6 - 66.9
	Potassium (Kg/Ha)	126.9 – 210.5
Hydro geological study and results	<p>Hydrogeological investigations were carried out in the study area during 27-30 November 2020 and 22-24 April 2021. Mine workings will intersect water table around 7.06 m during post-monsoon and 11.63 m during pre-monsoon. The block is falling under safe category as per GWRA, 2020. The total rain water available from the rain water harvesting from roof top areas and open area works out to 0.017 MCM (0.007 MCM + 0.010 MCM), which can meet 14.05% of nondomestic requirements (0.122 MCM) of the project. Recharge due to settling-cum-recharge ponds works out to 0.003 MCM. An amount of 7,93,347.40 m<sup>3</sup> (0.793 MCM) of rainfall collected from the reservoir area will be available for recharge resulting in post mining water table recovery in the area.</p>	
Traffic study (no. of locations) and results: 8 locations	<p>PP submitted that about 334 trucks per day would be required for transportation of limestone from mine to the captive cement plant. The traffic contribution from mine to the road network will thus is the 'to and fro' movement of 668 vehicles per day, which is equivalent to 2004 PCU per day (taking a PCU factor of 3 per vehicle). With present level of traffic route in three locations and the predicted increase in existing traffic due to the project, adequacy of road/highway during operational phase of the mine has been estimated by comparison with the recommendations stipulated by Indian Road Congress (IRC).</p> <p>The total traffic load after implementation of the mining project will be well within the IRC stipulated maximum load of 35,000 PCU/day for a four lane highway with median separator (NH-7). The estimated peak traffic in terms of PCUs is compared with the stipulated standards by IRC for traffic capacity of the roads and it can be observed that the existing road network is adequate.</p>	
Revalidation of baseline data	<p>The Project Proponent has submitted that one-month fresh baseline data has been collected</p>	



during 09<sup>th</sup> March 2023 to 09<sup>th</sup> April, 2023 for the purpose of revalidation. PP also submitted that the ambient air quality has carried out in 10 locations, soil sampling in 10 locations, Surface water in 02 locations, Ground water in 09 locations and Noise survey in 10 stations within the study area.

Ambient Air Quality				
S.No	Parameters	Winter 2021	Summer 2023	Standards ( $\mu\text{g}/\text{m}^3$ )
1	PM <sub>10</sub>	55.1-61.7 $\mu\text{g}/\text{m}^3$	64.7-72.6 $\mu\text{g}/\text{m}^3$	100
2	PM <sub>2.5</sub>	25.9-36.9 $\mu\text{g}/\text{m}^3$	34.7-46.3 $\mu\text{g}/\text{m}^3$	60
3	SO <sub>2</sub>	12.1-18.1 $\mu\text{g}/\text{m}^3$	15.9-21.3 $\mu\text{g}/\text{m}^3$	80
4	NO <sub>2</sub>	17.8-24.8 $\mu\text{g}/\text{m}^3$	21.6-28.3 $\mu\text{g}/\text{m}^3$	80

Location code	Winter 2021		Summer 2023	
	L <sub>day</sub>	L <sub>Night</sub>	L <sub>day</sub>	L <sub>Night</sub>
N1	47.6	43.8	52	40
N2	46.9	42.9	52	39
N3	50.3	47.1	56	42
N4	47.7	44.8	53	40
N5	45.3	41.9	50	38
N6	42.8	39.7	48	36
N7	55.6	52.8	61	49
N8	41.8	38.4	47	34
N9	47.2	44.1	53	39
N10	44.9	41.8	49	37
Standards Day Time dB (A):	Industrial: 75, Commercial: 65 Residential: 55, Silence: 50			
Standards Night Time dB (A):	Industrial: 70, Commercial: 55 Residential: 45, Silence: 40			

Surface Water quality			
S.No	Parameters	Winter 2021	Summer 2023
1	pH	6.86-6.94	7.10
2	EC	586.8-659.7	1310
3	DO, mg/l	5.6-6.1	4.9
4	Total Hardness, mg/l	154.2-168.5	380
5	Fluoride (mg/l)	0.4-0.5	0.9
6	Sulphate (mg/l)	31.8-32.6	74

Minutes of 20<sup>th</sup> EAC (Non Coal Mining) meeting held during 21-22 September, 2023

Ground Water quality				
S. No	Parameters	Winter 2021	Summer 2023	Standards
1	pH	7.01-7.62	7.0-7.6	6.5 to 8.5
2	Fluoride (mg/l)	0.6-1.1	1.0-1.1	1-1.5
3	Sulphate (mg/l)	34.6-112.5	45-107	200-400
4	EC	590-1560	656-1480	-
5	Total Hardness, mg/l	186.21-440.35	176-420	200 – 600
6	Chlorides, mg/l	86.5-282.6	105-225	250-1000
7	Nitrates, mg/l	3.9-22.5	11-28	45
8	Iron, mg/l	0.06-0.13	0.5-1.3	0.3

Soil quality			
S.No	Parameters	Winter 2021	Summer 2023
1	pH	6.76-7.96	6.7-7.8
2	Electrical Conductivity (µmhos/cm)	82.4-302.4	119-318
3	Organic Carbon	0.19-0.46	0.14-1.0
4	Nitrogen (kg/ha)	38.5-56.4	36.85-62.74
5	Phosphorus (kg/ha)	38.6-66.9	45.5-72.9
6	Potassium (kg/ha)	126.9-246.6	132.16-252.0

PP also submitted the test report for analysis of ambient air quality, noise level, water quality and soil analysis done by Pragathi Labs & Consultants Pvt. Ltd (Lab recognized by Ministry of Environment, Forests, Govt. of India).

xiii. Public Hearing (PH) Details:

Advertisement for PH with date (pl. mention name of major national daily and one regional vernacular daily newspaper)	DainikBhaskar, PatrikaSamachar, Nav Swadesh dated 28.05.2022 and 29.06.2022
Date of PH	20.07.2022
Venue	Near Gokul Gaushala, Village Bathiya, Tehsil Maihar, Dist. Satna, Madhya Pradesh.
Chaired by	Additional District Magistrate
Main issues raised during PH	Pollution control, Environment management, Blasting, Land compensation, Employment, Road transportation, beautification of ponds, drinking water, school,

Minutes of 20<sup>th</sup> EAC (Non Coal Mining) meeting held during 21-22 September, 2023

Budget proposed for addressing issues raised during PH	Rs. 122.50 Lakhs for 3 years
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xiv. Rehabilitation & Resettlement (R&R):

R & R details	<p>The Project Proponent submitted that the total mine lease area is 266.302 ha, out of which 258.230 Ha is private land covering 5 villages Bathiya, Barahiya, Karaundi, Chapna and Tamoria. PP reported that there are 639 PAFs (only land losers). The land purchase for the proposed limestone project and the rehabilitation and resettlement of project affected families will be implemented under the provisions of the Central and State Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Acts, Rules &amp; Policies. PP also submitted that willing seller and willing buyer will be adopted, where no land owner is compelled to sell their lands and whoever is ready, they will be paid adequate compensation based on mutually agreed, which would be more than the provisions suggested in the “Madhya Pradesh Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Rules, 2015”. Estimated total compensation will be around Rs.66.72 Crores. PAFs will be given preference in employment as per their qualification and skill set. The Project Proponent also submitted the activities for youths, women, farmers etc. for upgrading their skill set to make them employable, self-employed and / or increase their income level.</p> <p>The Project Proponent has submitted that the land will be purchased for mining in phased manner. It is planned to obtain surface rights of the land required for first five year mining operations within two years of start of operation. The balance land will be purchased in phases.</p>
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xv. Court case details:

Court Case no. and its present status	The Project Proponent has submitted the copy of order dated 06.07.2023 pronounced by the Hon’ble High Court of Madhya Pradesh at Jabalpur Bench stating that for the reasons assigned in the application, I.A No. 6358 of 2023 seeking withdrawal of the writ petition is allowed. The writ petition is accordingly dismissed as withdrawn with liberty to file a fresh petition.
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xvi. Affidavit/Undertaking details:

Affidavit as per Ministry’s OM dated 30.05.2018	PP submitted the Affidavit in a non-judicial stamp paper of Rs 100 bearing XN 118806 that M/s AAA Resources Private Limited would comply with all the statutory requirement & judgment of Hon’ble Supreme
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	Court dated 2 <sup>nd</sup> August 2017 in writ Petition (Civil) No. 114 of 2014 in the matter of common cause versus Union of India & Ors.
Undertaking by Project Proponent in EIA/EMP report	The Project Proponent submitted an undertaking stating that the information and data provided in the EIA report and submitted to the Ministry are factually correct & Project Proponent is fully accountable for the same.
Undertaking by Consultant in EIA/EMP report	The Consultant submitted an undertaking vide letter dated 08.02.2023 stating that "M/s Pragathi Labs & Consultants Pvt Ltd have gone through the EIA&EMP report of AAA Resources Private Limited prepared by M/s Vimta Labs Ltd and observed that it has complied with all the prescribed Terms of Reference vide ToR letter dated 02.07.2021 and thus we hereby give our undertaking owning the contents and data provided in the report. Due to some uneventful situation M/s Vimta Labs Limited is unable to present the case, we are undertaking the responsibility of presenting the Final EC meeting before Expert Appraisal Committee, MoEF&CC".

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

Activities	Capital cost (Rs in Crores)	Recurring cost (Rs in Crores/ annum)
Air pollution control and management	2.280	0.904
Water and wastewater control and management	0.614	0.328
Noise and vibration control and management	0.110	0.010
Soil conservation and solid waste management	0.210	0.027
Plantation & Green Belt	2.722	1.960
Total	5.936	3.229

xviii. Details of project cost and employment:

Particulars	(Rs. in Crore)
Total cost of EMP (Capital Cost of EMP + capital cost of Public hearing)	7.161
Project Cost	255.72
Employment	132 persons

**3. Observation and Recommendation of the EAC: -**

The EAC deliberated on the additional details submitted by the Project Proponent and the Consultant. The Project Proponent has informed the EAC that the letter has been obtained from the Office of the Principal Chief Conservator of Forest (Wildlife),

Madhya Pradesh vide letter dated 23.08.2023 stating that near the proposed site of the forest range, no tiger movement has been observed for the last 10 years. On the basis of reports submitted by Divisional Forest Officer, Forest Division, Satna and Chief Conservator of Forest, Rewa Division, this office is agreed and forwarding the letter for necessary action. The Project Proponent has showed the map of the mine lease area in the Greater Panna Landscape delineated by the Wildlife Institute of India (WII) and also the levels of different corridor level. The Project Proponent also informed the EAC that mineral transportation route is not passing through the tiger dispersal route. The EAC asked the Project Proponent whether any mines are operating in the study area. The Project Proponent informed the EAC that many mines are operating in the study area.

The Project Proponent has informed the EAC that an action Plan has been prepared by Shri Ravikant Mishra, IFS (Retired) for conservation of Flora and Fauna in the 10 km of limestone mining lease area. A budget of Rs.16.50 lacs has been earmarked to monitor the movement of tigers and the same has been approved by the Chief Wildlife Conservator & Principal Chief Forest Warden (Wild Life), M.P vide letter dated 17.08.2023. Action plan for skill development plan has been revised and a budget of Rs 25.0 Lakhs has been earmarked for the same. The land required for operation of mining for the first five years will be acquired within 2 years. The Project Proponent has informed the EAC that Hon'ble High Court of Madhya Pradesh at Jabalpur Bench vide order dated 06.07.2023 pronounced that for the reasons assigned in the application, I.A No. 6358 of 2023 seeking withdrawal of the writ petition is allowed. The writ petition was accordingly dismissed as withdrawn with liberty to file a fresh petition. The Project Proponent also informed the EAC that as on date there is no court case pending against the project. The Project Proponent also undertakes to install solar energy with capacity of 500 kW within two financial years and also informed that the same may be completed in advance depending on the acquisition of the land.

After detailed deliberations made by the Project Proponent and the Consultant, the EAC in its meeting held during 21-22 September, 2023 under the provisions of EIA Notification 2006 and its subsequent amendments, **recommended** the proposal for grant of Environmental Clearance to Bathiya Limestone Mine of M/s AAA Resources Private Limited for mining of Limestone with production capacity of 4.0 MTPA, Topsoil: 0.41 MTPA, Waste/reject: 4.43 MTPA (Total excavation: 8.84 MTPA) along with the crusher of 1400 TPH in the mine lease area of 266.302 ha, located at Bathiya, Barahiya, Karaundi, Chapna and Tamoria Villages, Tehsil: Maihar, District: Satna, Madhya Pradesh subject to the following specific conditions in addition to the standard EC conditions applicable for non-coal mining projects: -

- i. This Environmental Clearance will be valid upto the life of the mine i.e., 12 years.

- ii. The Project Proponent needs to implement the approved action plan to monitor the movement of Tigers in the study area with an earmarked budget of Rs 16.50 Lakhs.
- iii. No Nallah should be disturbed or diverted at any stage of the mining operation.
- iv. As committed by the Project Proponent, installation of crusher plant of 1400 TPH shall start immediately after obtaining CTE and the installation work shall be completed within 1 year.
- v. The Project Proponent needs to carry out ground vibration study through reputed institute to determine maximum charge per hole and charge to be blasted per delay so that ground vibrations are minimized and kept within permissible safe limits fixed by DGMS. Necessary permission shall be obtained from DGMS for conducting blasting.
- vi. The Project Proponent shall monitor the ground induced blasting regularly for every blast performed and the values of “peak particle velocity” and “Air Over Pressure” shall be maintained below the permissible values prescribed by the DGMS, from time to time. The data needs to be maintained and submitted along with the six monthly compliance report.
- vii. In the mining area, adequate number of check dams, retaining walls/structures, garland drains and settling ponds should be provided to arrest the wash-off with rain water in catchment area.
- viii. The Project Proponent should install the continuous ambient air quality monitoring stations (CAAQMS) as per the scientific study and in consultation with CPCB/SPCB. The real time data so generated should be displayed digitally at entry and exit gate of mine lease area for public display and shall be linked to server of CPCB/SPCB.
- ix. The Project Proponent shall monitor the air quality, noise level, water quality, water level and ground vibration during drilling and blasting at the edge of the mine, near the village, crusher and at other sensitive receptors and such collected data shall be submitted quarterly to the Ministry’s Regional Office.
- x. The Project Proponent shall strictly adhere to the skill development plan and implement the same with an earmarked budget of Rs 25.0 Lakhs.

- xi. As committed before the EAC, the Project Proponent needs to install solar energy with capacity of 500 kW within and the same may be completed in advance depending on the acquisition of the land.
- xii. The Project Proponent needs to make provision for permanent water sprinklers so as to reduce the water consumption. Further, 10 nos. of fog canon/mist sprayer of atleast 40 m throw shall be installed at various locations in the mine area. Effective dust suppression system shall also be adopted at other parts of the mining lease to arrest the fugitive dust emission.
- xiii. The air pollution control equipment's like bag filters, vacuum suction hoods, dry fogging system etc. shall be installed at Crushers, and other areas prone to air pollution. PP shall take necessary measures to avoid generation of fugitive dust emissions. The dense plantation shall be carried out in the vicinity of the crusher. The Stack emission monitoring of the Crusher shall be carried out at periodic intervals.
- xiv. The Project Proponent needs to complete the entire 7.5 m peripheral plantation and safety barrier plantation within three years from the start of mining operations. The Project Proponent should plant quality sapling of appropriate height of native and fruit bearing species. In case of tall transplants (seedlings) the seedlings should have proper trained root stock with root biomass commensurate with seedling height to ensure good growth after out planting. Plantation shall be undertaken in consultation with the State Forest Department. The Project Proponent shall make the actual count on the saplings planted and its survival rate and in case of failure of achievement of 95% survival rate, action plan for achieving the target survival rate shall be submitted to the Ministry's Integrated Regional Office.
- xv. The budget of Rs 122.50 Lakhs to address the concerns raised by the public in the public hearing to be completed within 3 years from the date of start of mining operations. PP shall comply with all action plans made for public hearing concerns and make regular maintenance and record the progressive activity outcomes. The Project proponent shall ensure that the activities proposed under the public hearing is different from the CSR activities.
- xvi. The Project Proponent shall create awareness among the local people working within the project area as well as its surrounding area on the ban of Single Use Plastic (SUP) in order to ensure the compliance of Notification published by

MoEF&CC on 12/08/2021. A report, along with photographs, on the measures taken shall also be included in the six monthly compliance report.

- xvii. The Project Proponent should adopt the proper mitigation measures as proposed under EMP with budgetary provision of Rs 5.936 Cr. The adoption of mitigation measures and monitoring of the same as proposed in the EMP shall be done under the supervision of the qualified environmental personnel. The implementation status of the same shall be submitted to the Ministry's Integrated Regional Office.
- xviii. The Project Proponent should establish in house (at project site) environment laboratory for measurement of environment parameter with respect to air quality and water (surface and ground). A dedicated team to oversee environment management shall be setup at site which should comprise of Environment Engineers, Laboratory chemist and staff for monitoring of air, water quality parameters on routine basis instead of engaging environment monitoring laboratories/consultants. Any non-compliance or infringement should be reported to the concerned authority.
- xix. The Project Proponent shall explore the possibility of using atleast 20% of Electric vehicles/CNG/Solar instead of diesel operation within three years.
- xx. NoC from the Central Ground Water Authority (CGWA)/ Concerned Local authority, as the case may be, shall be obtained before drawing the ground water for the project activities, State Pollution Control Board / Pollution Control Committees shall not issue the Consent to Operate (CTO) under Air (Prevention and Control of Pollution) Act and Water (Prevention and Control of Pollution) Act till the project proponent shall obtain such permission.
- xxi. The Project Proponent shall also organize employment-based apprenticeship/ internship training program every year with appropriate stipend for the youth and other programs to enhance the skill of the local people. The data should be maintained for the training imparted to the persons and the outcome of the training, for the assessment of the training program should be analyzed periodically and improved accordingly. The preference shall be given to the local people for the purpose of employment and PP shall strictly adhere to the skill development plan for the work force.
- xxii. The Project Proponent should periodically monitor and maintain the health records of the mine workers digitally prior to mining operations, at the time of



operation of mine and post mining operations. Regular surveillance on occupational health shall be carried out every year for mine workers. PP shall also organize medical camp for the benefit of the local people and also the monitor the health impacts due to mining activity.

- xxiii. The mining lease holders shall, after ceasing mining operations, undertake regrassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. The implementation report of the above said condition shall be submitted to the Ministry's Regional Office.

**Additional Agenda:**

**2.5 Bauxite mining project of M/s Panditrao Mines and Minerals Private Limited with production capacity of 0.80 MTPA in the mine lease area of 90.0 ha, located at Village Minche Budruk, Taluka-Budhargarh, District-Kolhapur, Maharashtra - Environmental Clearance (EC)**

The instant proposal is regarding review of the minutes of EAC (Non-Coal Mining) held during 3-4 May, 2023 and requisition for revocation of the abeyance order.

**2. Observation and Recommendation of the EAC:**

The EAC noted that earlier the Project Proponent sought deferment on consecutive two EAC meetings held during 11-12 July, 2023 and 31<sup>st</sup> July & 1<sup>st</sup> August, 2023. The EAC also noted that again the Project Proponent sought deferment vide email dated 20.09.2023 for the third time and informed that the Mr. Pandit Rao who has been authorized as Nominated owner is not feeling well and requested to defer the proposal. Based on the request of the Project Proponent vide email dated 20.09.2023 the EAC **deferred** the proposal.

**2.6 Report of the field visit undertaken by EAC sub-committee during 17-19 August, 2023 at Mukam Bauxite mine of M/s Chhattisgarh Mineral Development Corporation Ltd for mining of Bauxite with Total Excavation of 802977.5 TPA [384615.4 TPA (ROM) & OB 418362.1 TPA] in the mine lease area of 110.563 Ha, located at Village: Mukam, Tehsil- Bodla, District- Kabirdham, Chhattisgarh – [File. No: IA-J-11015/37/2022-IA-II(NCM), Proposal No: IA/CG/MIN/417404/2023] – Environmental Clearance (EC)**

The instant proposal is for grant of Environmental Clearance (EC) for mining of Bauxite in Mukam Bauxite mine of M/s Chhattisgarh Mineral Development Corporation Ltd with Total Excavation of 802977.5 TPA [384615.4 TPA (ROM) & OB 418362.1 TPA]

in the mine lease area of 110.563 Ha, located at Village: Mukam, Tehsil- Bodla, District- Kabirdham, Chhattisgarh.

2. The project was considered in the 12<sup>th</sup> EAC (Non-Coal Mining) meeting held during 21-22 March, 2023. During the meeting, the EAC observed that the Project Proponent/Consultant was unable to bring out the technical details before the EAC. The EAC felt that the issues related to Wildlife and measures for protection of tiger have not been properly addressed and due to sensitivity of the Phen Wildlife Sanctuary, BufferZone of Kanha National Park and Kanha-Achanakmar Tiger Corridor, it is necessary to ascertain the ground reality. The EAC was of the view that a site visit needs to be conducted by a sub- committee comprising of EAC Members, officers from MoEF&CC and representative of the National Tiger Conservation Authority (NTCA). The EAC opined that the Ministry may constitute a sub-committee and submit its report to enable the committee to take a decision on the proposal. Further M/s Chhattisgarh Mineral Development Corporation Ltd vide letter dated 20.07.2023 informed to the Ministry that validity of mine lease has been extended till 26.03.2024.

3. Accordingly, Ministry vide letter dated 31.07.2023 constituted a sub-committee comprising of the following members to ascertain the ground realities of the project.

1. Shri N K Vasu, EAC Member
2. Shri Bandi Ramchandra Reddy, EAC Member
3. Shri Pankaj Verma, Scientist E and MS, EAC (NCM), MoEF&CC
4. Dr Saurabh Upadhyay, Scientist C, MoEF&CC
5. Dr Purshottam R Sakhre, Scientist E, Representative of Regional Office at Nagpur.
6. Dr Anil Dashahre, Biologist, Representative of NTCA

The Committee members conducted a day-long field visit on 18.08.2023, visiting the mine site and proposed mining pits within the mine lease area. During the field visit, it was slightly raining. The project proponent gave a brief overview about the existing structure of the mine and the proposed course of action planned by them. The following officers from M/s Chhattisgarh Mineral Development Corporation Ltd along with consultant were present i.e Shri Upendra Kumar, DGM/ Agent Mines, Shri Deepak Gupta, Regional Officer, Bhanupratapur and Shri Sushil Kumar Chandraker, AGM Mines.

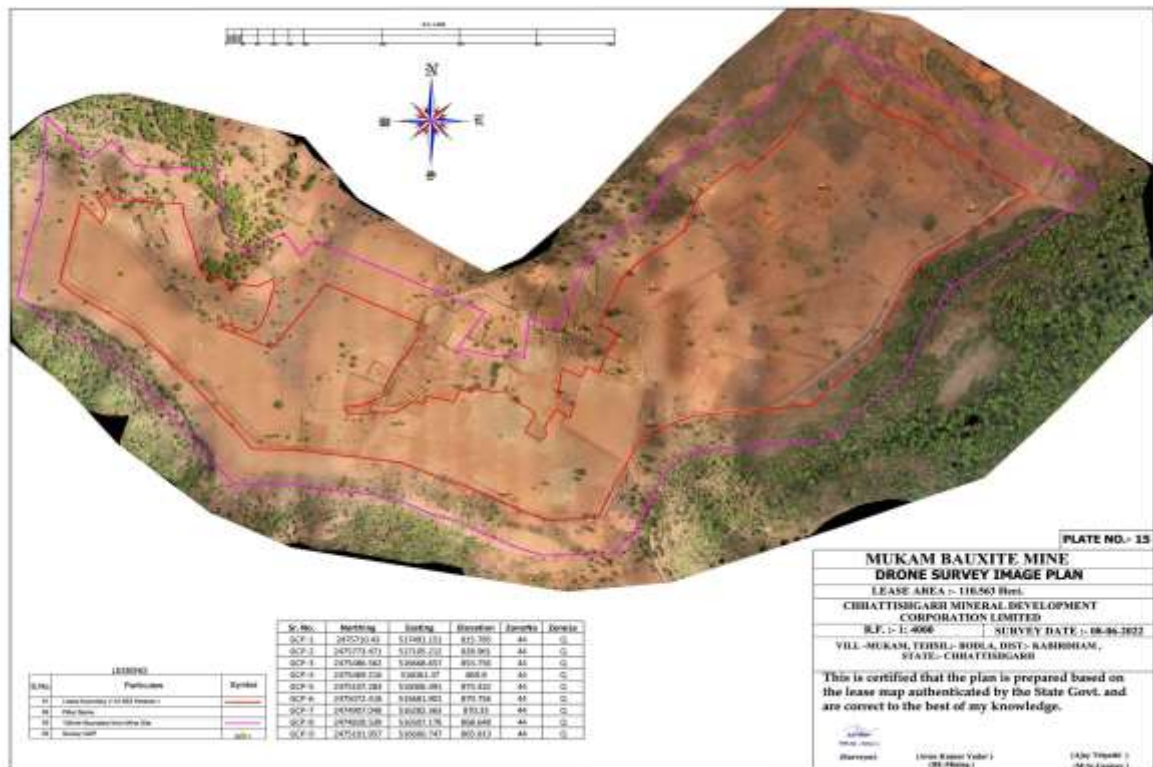
4. The sub-committee during the site visit observed the following:

Minutes of 20<sup>th</sup> EAC (Non Coal Mining) meeting held during 21-22 September, 2023

The proposed mine is located in village Mukam, Tehsil Bodla, District Kabirdham, Chhattisgarh. The village Mukam is adjacent to the site. The sub-committee found a school is situated near the mine site.

Proposed mining area with an extent of 110.0563 ha, is located at the Kawardha forest division adjoining Kanha Tiger Reserve (Phen Wildlife Sanctuary) and Boramdeo Wildlife Sanctuary.

The GPS coordinates were written on permanent point boundary pillars which is fixed on the ground. Team compared and verified the GPS coordinates recorded vis-à-vis coordinates mentioned on permanent points as well as GIS KML file of proposed mining area provided by user agency.





**Pilar no. 59 of project site**



**Village Mukam adjacent to mine site**



**Mine site near the the pillar number 68**



## **Issues of Phen Wildlife Sanctuary, BufferZone of Kanha National Park and Kanha-Achanakmar Tiger Corridor**

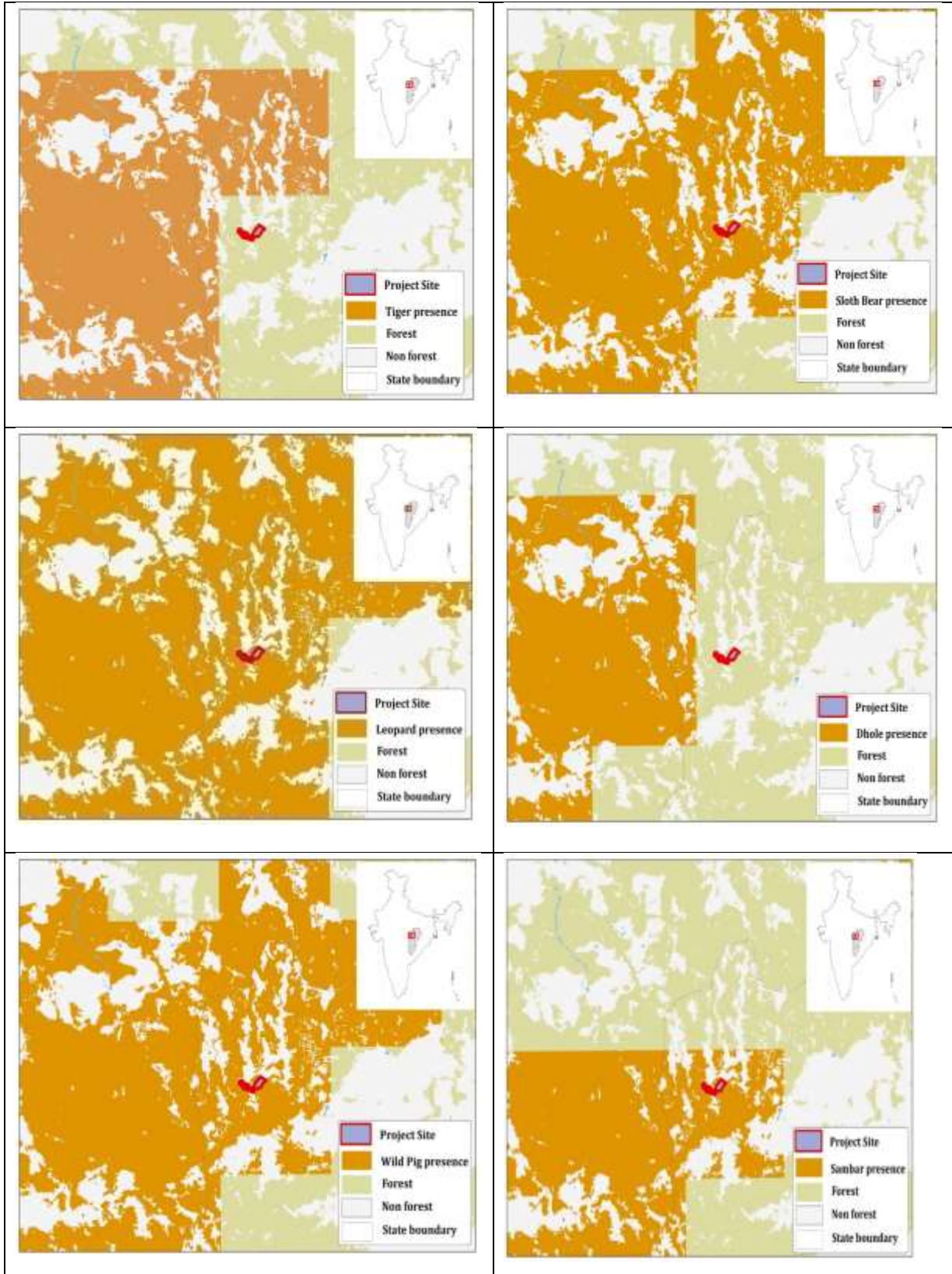
The Project Proponent has informed that Phen Wildlife Sanctuary, Buffer Zone of Kanha National Park and Kanha-Achanakmar Tiger Corridor lies in the proximity of 10 km radius periphery of mines lying within the State of Madhya Pradesh which is about 5kms from the site of mines. The proposed mining area is situated at an aerial distance of approx. 2.18 Km from Eco sensitive zone boundary of Kanha Tiger Reserve and approx. 22.14 Km away from the Boramdeo WLS proposed site is outside of Eco sensitive zone of Kanha Tiger Reserve Madhya Pradesh.

As per all India Tiger Monitoring exercise 2022 report, there is no presence of tiger, but presence of Leopard and other endangered Carnivores and herbivores is recorded in the proposed mining area.

After the GIS appraisal it has been verified that the proposed area falls with the Kanha- Achanakmar corridor (Figure-1) as per corridor/adjoining area plan of TCP of Achanakmar Tiger Reserve Chhattisgarh.



**Figure-1: Map showing mining location in Achanakmar-Kanha-Bhoramdeo corridor**



Map showing tiger and other carnivore's/ Herbivores occupied area AITE 2022

### **Mining activity observed at Mine site**

The sub-committee observed that the mining activity has been carried out at the mine site area. The project proponent has informed that the same has not been done by the M/s CMDC. The sub-committee suggested for seeking comments from State DMG, if any illegal mining done by project proponent.



**Mining activity observed at Mine site**

5. Based on its observation, the committee recommended the following: -
  1. The Project Proponent shall undertake a survey to count the number of trees present in the lease area.
  2. The project proponent should take permission before felling of trees and shall submit the action plan for compensatory afforestation.
  3. During site visit, habitation and school are seen near the mine lease area. Project proponent should submit the precaution measures with an action plan.
  4. To maintain the dust free environment, the committee was of the opinion that project proponent should include provision for permanent sprinklers for the entire mineral transportation route.
  5. The Committee was of the opinion that the project proponent may explore the expand the road width and accordingly a plan needs to be submitted along with timeline and cost.
  6. The Project Proponent needs to submit the sequence of mining as the mine lease area involves an area of 67.401 ha of agriculture land and shall submit the action plan for restoration of ecology.



Minutes of 20<sup>th</sup> EAC (Non Coal Mining) meeting held during 21-22 September, 2023

7. The Project Proponent needs to submit the letter from the State Forest Dept, Madhya Pradesh regarding the distance of the Tiger Corridor and ESZ along with the authenticated map and authenticated list of flora and fauna since the study area of the 10km radius of the buffer zone falling in the State of Madhya Pradesh. PP also needs to submit the letter from the State Forest Dept, Chhattisgarh regarding the list of flora and fauna by indicating the type of Schedule species found in the study area.
8. The project proponent needs to seek comments from the State DMG, if any illegal mining done by Project Proponent or not.
9. The project proponent needs to provide the exact distance of school and mukam village near the mine lease area.

**6. Observation and Recommendation of the EAC: -**

The EAC deliberated on the observation and recommendations of the subcommittee. After detailed deliberations, the EAC agreed to the recommendations of the subcommittee.

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**List of members of Expert Appraisal Committee participated through VC**

S.No	Member Name	Member Address	Designation	21 <sup>st</sup> Sept., 2023	22 <sup>nd</sup> Sept., 2023
1	Dr. Dinesh Misra, IFS (Retd.)	Plot No 65, Sector 8, Gandhinagar, Gujarat, 382 008	Chairman	Yes	Yes
2	Sh. Niranjana Kumar Vasu, IFS (Retd.)	816, Shanti Nagar, Opposite Durgapur Railway Station, Jaipur-Rajasthan, 302018	Member	Yes	Yes
3	Dr. Asha Rajvanshi, Scientist 'G' (Retd.), WII	B/104/106 Rock Valley Apartments, GMS Road, Sewla Kalan, P.O. Majra, Dehradun, Uttarakhand-248171	Member	Yes	Yes
4	Shri. Avijit Ghosh (CMD- Heavy Engineering Corporation Limited) (Retd.)	Singhee Marg, A- 604 Shahadeo Tower, P.P.Compound, Ranchi 834001, Jharkhand	Member	Yes	Yes

Minutes of 20<sup>th</sup> EAC (Non Coal Mining) meeting held during 21-22 September, 2023

5	Shri. BandiRamchandra Reddy (Former CMD-South Eastern Coalfields Limited)-(Retd.)	Flat No-503 A, Jyoti Cosmos, White Fields, Hi-Tech City, Kondapur, Hyderabad-500081	Member	Yes	Yes
6	Prof. Pramod Kumar, Professor, ShriAurobindo College, University of Delhi	Shri Aurobindo College, University of Delhi 1372, B-1, Vasant Kunj, New Delhi-110070	Member	No	No
7	Prof. Devesh Walia, Department of Environmental Studies	Department of Environmental Studies, NEHU, Shillong-793022 Meghalaya	Member	Yes	No
8	Dr. Suresh Tiwari Scientist-F	Indian Institute of Tropical Meteorology, Pune, New Delhi Branch, Prof. Ram Nath Viji Marg Rajinder Nagar, New Delhi - 110060	Member	No	No
9	Dr. K.G Asha Manjari, Professor, University of Mysore	10/B, "SPARSHA", 2 <sup>nd</sup> Main, 2 <sup>nd</sup> Cross, Bhogadi Ind Stage, Mysore-570026, Karnataka	Member	Yes	Yes
10	Prof. Dev Dutt Sharma, Vice-Chancellor	Sardar Patel University, Mandi H.P. 175001	Member	No	No
11	Shri V. K. Soni, Representative of India Meteorological Department	Government of India, Ministry of Earth Sciences, India Meteorological Department, Mausam Bhawan, Lodi Road, New Delhi – 110003	Member	Yes	No
12	Shri Yogesh Kale, Representative of Indian Bureau of Mines	Controller of Mines, IBM Block D, Second Floor, Indira Bhavan, Civil Lines, Nagpur - 440001	Member	Yes	Yes
13	Shri Upendra Rapolu/Shri Niaz Mohammed	Representative of Directorate General of Mines Safety	Member	Yes	Yes
14	Shri Abhir Hede, Deputy Director	Department of Mines and Geology, Govt. of Goa	Special Invitee	-	Yes
15	Shri Pankaj Verma	3 <sup>rd</sup> Floor, Vayu Block, Indira Paryawaran Bhawan, MoEF&CC, Jorbagh, New Delhi- 110003.	Member Secretary	Yes	Yes

Minutes of 20<sup>th</sup> EAC (Non Coal Mining) meeting held during 21-22 September, 2023

16	Dr. Saurabh Upadhyay	2 <sup>nd</sup> Floor, Vayu Block, Indira ParyawaranBhawan, MoEF&CC, Jorbagh, New Delhi- 110003.	Scientist C	Yes	Yes
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