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

SUMMARY RECORD OF 27th MEETING OF THE COMMITTEE OF THE RE-CONSTITUTED EXPERT APPRAISAL COMMITTEE FOR ENVIRONMENTAL APPRAISAL OF NON-COAL MINING PROJECTS CONSTITUTED UNDER THE EIA NOTIFICATION, 2006.

The 27th meeting of the Re-Constituted Expert Appraisal Committee (EAC) for Environmental APPraisal of Mining Projects (Non-Coal) of the Ministry of Environment, Forest and Climate Change was held during 20-21st February, 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 26th EAC (Non-Coal Mining) meeting held during 31st January, 2024 & 1st February 2024.

The minutes of the 26th Meeting of the EAC (NoN-Coal) held during 31st January, 2024 & 1st February 2024 were placed before the members of the EAC and confirmed by the Chairman.

Day 1: 20th February, 2024 (Tuesday)

1.1 Mukam Bauxite mine with the total production capacity of 802977.5 TPA [384615.4 TPA (ROM) & OB 418362.1 TPA] in the ML area of 110.563 ha by M/s Chhattisgarh Mineral Development Corporation Ltd located at Village Mukam, Tehsil Bodla, District Kabirdham, Chhattisgarh- For reconsideration of Environmental Clearance reg. [File No. J-11015/37/2022-IA.II(M), Online Proposal No. IA/CG/MIN/417404/2023, EIA Consultant - M/s Overseas Min-Tech Consultants]

The instant proposal is for grant of Environmental Clearance for Mukam Bauxite mine with the total production capacity of 802977.5 TPA [384615.4 TPA (ROM) & OB 418362.1 TPA] in the Mine Lease area of 110.563 ha by M/s Chhattisgarh Mineral Development Corporation Ltd located at Village Mukam, Tehsil Bodla, District Kabirdham, Chhattisgarh.

2. The details of the project as ascertained from the document submitted by the PP and revealed from the discussions held during the meetingare given as under:

i. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals. The instant proposal attracts the general conditions as state boundary of Madhya Pradesh located at 4.48 km in west direction of the mine lease area and falls under Category "A" of the schedule of the EIA Notification, 2006 and appraised at the Central level.

- The mine lease area is located between Latitude 22°22'45.72558" N to 22° 23' 26.25876" N and Longitude 81° 08' 49.47502" E to 81° 10' 16.84813" E. The mine lease area falls under the Survey of India Toposheet No: 64 F/3 and falls in Seismic Zone-II.
- iii. The PP has obtained the ToR vide file no. IA-J-11015/37/2022 IA-II(NCM) dated 09.11.2022.
- iv. Mine Lease detail:

S.No	Prospecting License/ Letter of Intent (LoI)/ Grant of Mine lease and Lr No.	Date of the Grant	Name of the Mineral(Major / Minor)	Period of Grant	Granted by	Mine lease area in Ha
1	Letter of	11/04/202	Bauxite	1 year	Chhattisgarh	110.56
	intent (LOI)	2		(further	,	3
	vide letter			extended	Government	
	no.F3-			upto		
	3/2021/ 12,			26.03.2024		
	Nava,)		
	Raipur.					

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

Private land	67.401Ha
Government land	43.162 Ha
Forest land	Nil
Total Mining lease area (MLA), ha	110.563
Private land for crusher, workshop & other infrastructure outside the MLA	NA
Additional information (if any)	NA

vi. Mining plan details

Mining Plan	Letter No.	KABIRDHAM/BAUX/KHYO-
including		1335/2022-RAIPUR.
Progressive	Date	07.09.2022
Mine Closure	Mineral & (Major/Minor)	Bauxite(Major mineral)
Plan	Mine Lease Area, Ha	110.563
(approvedby	Validity	5 years
Indian Bureau		
of		
Mines/DMG)		
Mining	Quantitative Description	
Parameters		

Method of	Opencast Semi-Mechanized
Mining	
Drilling/Blastin	Yes
g	
Geological	
Reserves	50,26,659.22 Tonnes
Mineable	22.42.288.26 Tennes
Reserves	32,13,288.26 Tonnes
Breakup of	The proposed capacity of the mines is 384615.4TPA bauxite with an
Total	area 110.563 Ha.& 418362.12 TPA of OB, 22061.83 m3 of topsoil
Excavation	and 96153.85 TPA of mineral reject will generate in the five-year plan
(Topsoil/OB/S	period.
B/IB/Mineral	
Rejects/	
Waste,	
MTPA)	
Life of mine	11 Years
Mine Bench	3 m *3 m
Height &	
Bench Width	
No. of Mine	2
Benches	
Existing	-
Depth, m bgl	
Ultimate	13m
Depth of	
Mining, m bgl	
Ground Water	Ground water table is below 30 meters ground level
Table, m bgl	
Details of	Up to the life of the mine, there is negligible chance of working going
ground water	beyond 18 m depth; hence there will not be an intersection with
intersection	ground water.
Individual	45°
bench slope	
Overall pit	60°
slope	
Details of	NA
existing/	
proposed	
Crusher	
Mineral	The sizing and sorting of saleable grade bauxite will be carried out by
Beneficiation	manual labours and no beneficiation is Required

RoM output	100-	250	mm							
size							_		1	- 1
Transportatio				scription				pacity		Quantity
n details	Drilling Machine (DTH)						100 mm 5 m/c Standby 2			
including		Excavator & loading equipment						2 m ³ 2		2
capacity of	Bul	l doz	er					1 m ³		1
dumper/tipper	Du	mper	S					18 t	1	0 standby 2
, mode of										
transport and										
distance										
Generation of	S.			Topso		Tops		Tops		Estimated
Topsoil/OB &	No.	. Y	'ear	Generat		Utiliz		Stor		Expenditure
its				(m ³) (A	,	(m ³)	· /	(m ³) (4-В)	(INR)
Management	1		ear 1	5722.1		5722		0		3000
during plan	2		ear 2	3706.1		3706		0		2000
period &	3		ear 3	4246.0		4246		0		5000
conceptual	4		ear 4	11358.8		1358	3.85	0		8000
period	5		ear 5	22061.8		0		22067		16000
		-	•			-				ely by dozer, or
			-					•		nped to places
								•	-	ver the already
										evelled area will
		-			-			-		lirectly used for
	-		-	in such	area.	The	refor	e, almo	ost th	ne land will be
		filled		1	1	-				
Generation of	S	Ye	Du	Туре	Prop	He	ei T	Fotal		ew Dump
Mineral	•	ar	mp	of	osed	0		Dum		Location
Rejects/	Ν		ld	Dump	Area	(m				
Waste & its	0				(ha)		C	Quan		
Management								ity		
during plan							,	m³)		
period &	1	Ye	Du	Waste	0.25	1(0 3	3414		17385.8998,
conceptual		ar	mp-	Dump				7.08		475910.3385
period		1	1						X=5	17375.9340,
	2	Ye	Du	Waste	0.25	1(4430		475916.1262
		ar	mp-	Dump				8.37		17347.3113,
		2	1							475926.5441
	3	Ye	Du	Waste	0.25	1(0 .	5696		17391.5199,
		ar	mp-	Dump				6.52		475900.1375
		3	1							17388.6809,
	4	Ye	Du	Waste	0.25	1(0	1279	Y=24	475904.7822
		ar	mp-	Dump			1	19.44		
		4	1							

5	Ye	Du	Waste	0.25	10	2100	
		mp-	Dump			06.52	
	5	1					
<u> </u>						I	
	1	1	Stack I	Details –	Prop	osed on	Site
S. N o.	Yea r	Stac k ID	Type of Stack	Propo sed Area (ha)	Hei ght (m)	Total Stac k Quan tity (m ³)	New Stack Location
1	Yea r 1	Stac k-1	Ore Stack	0.49	3	5722 .14	X=517480.8582Y =2475797.6728
2	Yea r 2	Stac k-1		0.49	3	3706	X=517480.8582Y =2475797.6728
3	Yea r 3	Stac k-1	Ore Stack	0.49	3	4246 .01	X=517471.0387Y =2475769.6698
4	Yea r 4	Stac k-1	Ore Stack	0.49	3	1135 8.85	X=517560.4557Y =2475751.4214
5	Yea r 5	Stac k-1	Ore Stack	0.49	3	2206 1.83	X=517480.8582Y =2475797.6728
During the first five years, about 23.014 Ha area will be covered as mining pit, out of this about 8.14 Ha area will be backfilled by OB and waste. Up to the life of the mine, about 68.01 Ha area will be covered as a pit and 40.716 Ha area will remains as virgin land within the statutory barriers and no-ore zone. Out of the total pit area of 68.01 Ha, almost are will be backfilled and reclaimed. This means 40.716 Ha. Area will be virgin i.e. undisturbed land and 68.01 Ha. Area, the backfilled levelled area both will be returned to their original owner for agriculture. There will be continuous backfilling and returning of land to the owners as the mining operation continues.							

vii. Water requirement

Total water requirement	6.5KLD	Domestic /Drinking	2.325 KLD
		Dust suppression	0.425 KLD
		Green Belt	3.750 KLD
Source	Local Suplier thr	ough Gram Panchayat.	
Permission for withdrawal/	The water requ	ired is mainly for dust	suppression and
intersection along with	drinking and o	ther domestic purpose	e during mining
details of grant and its	operations. Drink	king & domestic water w	ill be fulfilled from
validity	tube well while	other will be met from	authorized water

supplier(NoC	already	taken	from	concerned	Gram
Panchayat).					

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

Particulars	Particular's Name	Distance & Directions
Village	Mukam	0.5 km
Town	Kawardha	62 km
Highway	NH-12 Bodla to Daldali	42 km
Interstate Boundary	Madhya Pradesh state boundary	4.48 km
Railway Station/Railway	Bilaspur Railway station	110km
line	Raipur Railway station	135 km
Water Bodies	Mania Nadi	3.1 km, NWN
	Lilari Nadi	2.6km, NW
	Hanp Nadi	4.4 km, ENE
Forest	RF No. 17 (54 M), RF No. 23 (50	M) and RF No. 24 (103
	M)	

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	The Project Proponent has submitted that the mine lease area is either private land or Govt. Revenue land. In support of this, Certificate from the Chief Conservator of Forest has been obtained on 28.02.2023 regarding non involvement of forest land.
National Park	No	Phen Wildlife Sanctuary, Buffer Zone of
Wildlife Sanctuary	Yes	Kanha National Park and Kanha-
Elephant/Tiger Reserve	No	Achanakmar Tiger Corridor lies in the
Eco-Sensitive Zone(ESZ) /Eco- Sensitive Area(ESA)	No	proximity of 10 km radius periphery of mines lying within the State of Madhya Pradesh which is about 5 kms from the site of mines.
Coastal Regulation Zone (CRZ)	No	The project site is not falling near to any LTL, HTL, and CRZ area.
Schedule-I species (No.s and name of schedule-I species with authenticated letter)	Yes	PP vide letter no. 1066/2023 dated 08.12.2023 submitted the list of Flora and Fauna certified by PCCF, Madhya Pradesh & CCF, Chhattisgarh.

		The detailed study has been carried out and Wildlife Conservation and Management Plan has been prepared and submitted to PCCF (wildlife), Chhattisgarh and Director, Kanha Tiger Reserve, Mandla (M.P.) for their approval.
Wildlife Conservation Plan	Yes	Wildlife Conservation Plan is approved vide letter no.
		क्रमांक/व.प्रा./माचि./MINE-150/ 8387 Dated
		21.09.2023.

x. Green belt/plantationdetails

Proposed area for green belt/plantation	2.00 ha area for greenbelt /plantation and 250
and no. of saplings proposed	saplings per year i.e., 1250 saplings
Budget for green plant& plantation till the	Rs1.0 lakh
end of life of mine.	
Budget for nursery	-
Details of existing plantation and its	85%
survival rate	
No. of tree cuts in the mine lease area	Nil
and compensatory afforestation	

S. No	Year	Green Belt Location (s)	Area Propose d to be Covered (Ha)	Grassing proposal (m2)	Number of Plants Propose d	Expecte d Survival Rate (%)	Estimated Expenditur e (INR)
1	Year 1	Plate No. 7(A)	0.40	10208.1 5	250	85	20000
2	Year 2	Plate No. 7(B)	0.40	4600.99	250	85	20000
3	Year 3	Plate No. 7(C)	0.40	22536.6 9	250	85	20000
4	Year 4	Plate No. 7(D)	0.40	44077.8 0	250	85	20000
5	Year 5	Plate No. 7(E)	0.40	0	250	85	20000

xi. Baseline detail

Baseline Data (Air / Water / Noise / Soil / Hydro geological study/ Traffic Study/ othe				
Period of baseline data collection	March to May, 2022			

Season (Summer / Pre-monsoon / Post-monsoon /	Summer				
Winter)					
Predominant Wind direction (From)	North				
Ambient Air Quality (no. of locations) and results	No. (ofPa	arameters	Result	S
	Locations				
	7	PI	V10	51.6	to
				66.2	
				μ g/m ³	
		PI	M2.5	19.2	to
				30.6	
				μg/m ³	
		SC	02	8.1	to
				12.8	
				μg/m ³ 9.8	to
			52	9.0 16.7	10
				μg/m ³	
Noise level (no. of locations) and results	No. of	Par	ameters	Res	ults
	Locations				
		Dur	ing D	ay50.4	to
		Tim	ie [L	eq64.8	
	7	dB(
		Dur		pht36.8	
		Tim	_	eq51.2	
Water Quality (no. of locations) and results	Ground w	dB(7 No s	
water quality (no. of locations) and results	Paramete			7 110.5	,
	pH	10	7.32 – 7. [°]	76	
	TDS (mg/	(I)	296 - 340		
	Fluoride				
	(mg/l)		0.42 – 0.8	88	
	Sulphate		36 - 82		
	(mg/l)		30 - 02		
	Calcium		45.6 – 75.3		
	(mg/l)				
	-	Magnesium		7.2	
	(mg/l)				
	Surface V	Vate	r Quality	- 2 No.	S
	рН		7.4 – 7.6		
	TDS (mg/l) 292 – 352				
	COD (mg	/I)	122 – 12	6	

	DO (mg/l)	_		Т
	BOD (mg		26-28		_
			20-20		_
	Magnesiu (mg/l)	l	11.6-19.4	Ļ	
Soil Quality (no. of locations) and results	No. of	Ра	rameters	Results	
	Locations	5			
		рН		7.56 - 7.92	_
		Cor mS	nductivity, /m	42 - 52	
		Тех	kture	Sandy Loam	
	07		ganic tter (%)	0.98 to 1.18 %	0
	01			0.042 0.058	-
			ailable osphorus, ha	26.5 - 32.4	_
			•	88-176	
Traffic study (no. of locations) and results	The PP	repo	orted that	the traffi	С
	study wa	s ca	arried out	on meta	al
	road proj	ect s	site to NH	I-130A vi	а
	Daldali vi	llage	e which is	in South	-۱
	east after	trav	versing 40) km. Pos	st
	project P	CU	will be 12	235 PCU	s
	(1136 PC	Us	Existing +	99 PCU	s
	Post) on	Proj	ect site to	NH-130/	A
	metal roa	id. T	he LOS \	alue fron	n
	the propo	sed	mine ma	y be "ver	y
	good" for	Proj	ject site to	NH-130	A
		•	e addition		n
			capacity		
			s is not like	-	е
	any signif	ican	nt adverse	effect.	

xii. Public Hearing (PH) Details

Advertisement for PH with date (name of	The Pioneer (Dec 27, 2022), Nav Pradesh
major national daily and one regional	(Dec 27, 2022)
vernacular daily newspaper)	
Date of Public Hearing	31/01/2023

Venue	Government Primary School's ground,
	Village: Mukam, Tehsil: Bodla, Dist:
	Kabirdham (Chhattisgarh)
Chaired by	Additional Collector of Kabirdham
Main issues raised during PH	• Regarding leveling of land after mining.
	Regarding consent for Bauxite mine.
	 Regarding consent on providing
	Employment and compensation.
	Employment to the local people.
	Regarding not giving land for mining.
Budget proposed for addressing issues	18 lakh (CER budget)
raised during PH over 3 years	

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

Particulars	Details of Letter along with
	date of grant and validity
Consent to Establish	Will obtain after EC
Consent to Operate	Will obtain after EC
Certified Compliance Report and Inspection date	Will obtain after EC
Certified Production Details from the inception of the mine	Will obtain after EC
(in tabular form against the EC capacity)	

xiv. Rehabilitation & Resettlement (R&R)

R&R	The Project Proponent has submitted that R & R is not applicable, As there is						
details	neither any displacement of any family nor there is destruction of any						
	houses/dwellings. The Additional Collector, Kabirdham on 06.02.2023 issued						
	the Certificate regarding non applicability of R&R policy.						

xv. Court case details

Court	Case,	No	and	its	present	The	Project	Proponent	has	submitted	an
status						unde	rtaking by	way of Affid	lavit da	ated 23.11.2	022
						statin	g that sind	ce it is a fresl	n minir	ng lease ther	e is
						no liti	gation per	nding relating	g to thi	is project be	fore
						any c	ourt of law	V.			

xvi. Affidavit/Undertaking details

8	
Affidavit as per Ministry's OM dated	The PP has submitted an undertaking by way of
30.05.2018	Affidavit dated 23.11.2022 stating that no illegal
	mining activity has been or is being carried out in
	the mining lease in violation of the Mines and
	Minerals (Development and Regulation) Act, 1957,
	Water (Prevention and Control of Pollution) Act,

	1974, Air (Prevention and Control of Pollution) Act, 1981, Environment (Protection) Act, 1986 and other relevant laws.
Undertaking by PP in EIA/EMP report	The PP has submitted an undertaking by way of Affidavit dated 23.11.2022 stating that the data and information given in the application and enclosures and other documents are true to be best of their knowledge and belief and they are aware that if any part of the data and information is found to be false or misleading at any stage, the project will be rejected and clearance given if any to the project will be revoked at our risk and cost.

xvii. ADS detail and reply submitted by PP:

a. The proposal was earlier considered in the 12thEAC (Non-Coal Mining) meeting held during 21-22nd March, 2023 wherein the EAC constituted a sub-committee to ascertain the ground reality with the recommendations of sub-committee. The PP has submitted the following additional information along with the observation of site visit by the subcommittee: -

S. No.	Additional Information	Compliance by PP
I	The PP needs to submit the valid Letter of Intent (since the LoI expiring on 27.03.2023) for further consideration of the proposal before the EAC.	Government of Chhattisgarh, Mineral Resource Department vide Letter No. F-3- 03/2021/12, Dated 27.03.2023 has issued Grant Order in favour of CMDC for Mukam Bauxite Mines 110.563 ha. Which is valid for 01 year i.e. upto 26.03.2024. The Grant Order Dated 27.03.2023 has been submitted by PP.
II	The PP needs to submit the action plan for rehabilitation of mined out areas and year wise backfilling plans and sections along with the timeline.	PP has submitted the conceptual plan.
111	The PP needs to explore the possibility of deploying the Ripper and Dozer combination to eliminate the drilling and blasting in view of close proximity of the Mukam village and the Forest/Wildlife.	The PP has agreed to explore the possibility of deploying the Ripper and Dozer combination to eliminate the drilling and blasting in view of close proximity of the Mukam village and the Forest/Wildlife. As CMDC is all ready in practice in one of the Bauxite mines.
IV	The PP needs to submit the action plan to monitor the movement of tigers	An action plan has been prepared to monitor movement of tigers in the vicinity of

	in the vicinity of the mine lease area and the PP needs to ensure the tiger corridors passing in the study area from Digital Support System (DSS) available in NTCA website.	the mine lease area. The main objective of the action plan is to conserve & protect tigers and minimizing the conflict between mining activity and wildlife. To monitor the tiger movement in mine lease area & its closes vicinity and tiger movement in buffer Zone area of mine lease area i.e. 10 km radius area of mine lease falling in territorial forest jurisdiction of Chhattisgarh, which is forest area of Taregaon and Pandariya forest Range of Kawardha Forest Division has been dealt separately. An additional budget provision has been made for the prescribed works. The distance of Phen Wildlife Sanctuary from the boundary of Mukam bauxite mine lease area is 4.10 km and Kanha Achanakmar Tiger Corridor is approximately 5.89 Km. A map prepared with the help of Digital support system (DSS) available in NTCA Website showing distance has been submitted by PP.
V	The PP 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	The study area of Mukam Bauxite mine i.e. 10 km. radius area from the periphery of mine lease area situated in two states, Chhattisgarh & Madhya Pradesh. Separate wildlife conservation and Management Plan has been prepared for each state. a. The Wildlife conservation and Management Plan for study falling in Madhya Pradesh has been submitted to PCCF Wildlife M.P through the D.F.O. and Field Director Kanha National Park Mandla and it has been approved. The said Wildlife Conservation and Management Plan contains list of flora & Fauna (Containing List of schedule-I animals has been submitted by PP. A forest map of 1:50,000 scale showing 10 km radius area from the periphery of the mine lease area and the map showing the Kanha Achanakmar Tiger Corridor and Eco Sensitive zone of

VI	The PP needs to submit the map	 Phen Wildlife Sanctuary using DSS from NTCA has been submitted by PP. A copy of Wildlife Conservation and Management Plan for study area falling in M.P. has been approved and submitted by PP. b. The wildlife conservation and Management Plan for study falling in C.G. has been Submitted to PCCF Wildlife C.G. through DFO, Kabirdham and CCF, Durg and is under active consideration before the PCCF, Wildlife for approval. The said Wildlife Conservation and Management Plan contains the list Flora & Fauna (containing List of schedule-I animals has been submitted by PP). A copy of Wildlife Conservation and Management Plan for study area falling in C.G. has been submitted by PP. 1. A copy of transportation route and
	showing the transport route of the mineral from the mine lease area to the destination, impact of details of habitation at a distance of 100m from the center on both sides of road, details of no. of trips/day to and fro, capacity of the dumper/tipper to be deployed and the dimensions of the road and the carrying capacity of the road.	 detailed study report of traffic density survey & carrying capacity and impact of transportation on environment etc was submitted by PP. 2. As per approved mining plan the peak rated production of the mine is around 2,88,461.00 ton per year. Considering 300 working days in a year and 8 hours in a day the hourly production will be around 120 ton. To cope-up the hourly production CMDC will require 06 trips of 18/20 Tonner tippers/dumper. It is proposed in the approved around fleet of 10 tippers/dumpers will be required.
VII	The PP needs to submit the map indicating the location of garland drains, retaining walls and silt check dam along with the timeline for construction.	CMDC will construct garland drains, retaining walls and silt check dam as per the provisions of approved mine plan (in first five years). The map indicating the location of garland drains, retaining walls and silt check dam has been submitted by PP.
VIII	The PP needs to the revise the activity-wise time-bound action plan on the issues raised and commitment	Time-bound action plan on the issues raised and commitment made during public hearing has been submitted by PP.

	made during public hearing in compliance of the Ministry's OM F.No.22-65/2017-IA.III dated 30th September, 2020 over a period of 3 years. The PP shall ensure that the activities proposed under the public hearing is different from the CSR activities.	
IX	The PP needs to submit the employment scheme/skill development plan to be adopted for employing the local persons in mine and its action plan to implement the same. Further, PP shall provide the details of employment to be provided to the local people with timeline.	The employment scheme/skill development plan has been submitted by PP.
X	The PP needs to submit the Wildlife Conservation and Management Plan in PARIVESH portal.	CMDC has prepared Wildlife Conservation and Management Plan for both the States i.e. Madhya Pradesh and Chhattisgarh. Wildlife Conservation and Management Plan for Madhya Pradesh is being approved by PCCF(Wildlife), Madhya Pradesh and another Wildlife Conservation and Management Plan for Chhattisgarh State is under process for its approval.
XI	PP shall submit dust pollution mitigation measure for villages nearby the mine lease (eg. Mukam Village is located approx. at a distance of 0.5 km from the mine lease area).	The dust pollution mitigation measure for villages nearby the mine lease has been submitted by PP on Parivesh portal.
XII	The site visit report of the sub- committee.	The site visit report (MoM Dated 29.09.2023) of the sub-committee has been submitted by PP.

b. Observation of sub-committee based on the site visit from 17.08.2023 to 19.08.2023 and compliance of PP are as follows:

S.	Additional Information	Compliance by PP			
No.					
1	The PP shall undertake a survey to count the number of trees present in the	Tree counting has been conducted and completed by the Forest Department.			
	lease area.	Tree counting sheet duly signed by the			
		concerned DFO Kabirdham dated			

		20.10.2023 has been submitted by CMDC.
2	The PP should take permission before felling of trees and shall submit the action plan for compensatory afforestation.	It is important to mention that no forest land involve in the lease boundary of Mukam Bauxite Mine. Therefore no forest clearance and compensatory afforestation is required to operate the mine. CMDC further ensures to the committee that during the mining operation no tree within the mining lease area shall be felled.
3	During site visit, habitation and school are seen near the mine lease area. PP should submit the precaution measures with an action plan.	In this regards CMDC has informed to the sub-committee members that mining operation will be carried out through ripper and rock breaker combination. So there will be no harm to the nearby habitation. It is important to mention that at present CMDC is practicing the same combination one of its bauxite mine which is located in district Surguja.
4	To maintain the dust free environment, the committee was of the opinion that PP should include provision for permanent sprinklers for the entire mineral transportation route.	To maintain the dust free environment CMDC ensure to carry out regular water sprinkling on the haul/transport road inside the lease and even on the roads outside the lease boundary in close proximity to village. Further, to minimize the impact of dust it is proposed to develop a green belt by dense plantation throughout the safety zone.
5	The Committee was of the opinion that the PP may explore the expand the road width and accordingly a plan needs to be submitted along with timeline and cost.	Since the road outside the lease area is a public road and belongs to State Government. Chhattisgarh Mineral Development Corporation will surely approach to the Government of Chhattisgarh for its widening through District Mineral Fund (DMF) and the decision of the same will be communicated to the MoEF&CC.

6	The PP 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.	CMDC ensures that mining activities will be taken up as per approved mining plan by IBM, Raipur.
7	The PP 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.	The map showing distance of Phen and Kanha Tiger Reserve is submitted before the committee. The list of flora and fauna duly signed by APCCF (Wildlife) of Madhya Pradesh and Chhattisgarh is also submitted by CMDC. The photograph showing the distance of Tiger Corridor and the list of flora and fauna has been submitted by PP.
8	The PP needs to seek comments from the State DMG, if any illegal mining done by PP or not.	The Certificate issued by State DGM dated 01.12.2023, regarding no illegal mining activities in the Mukam Bauxite Mine by CMDC has been submitted by PP.
9	The PP needs to provide the exact distance of school and Mukam village near the mine lease area	The exact distance of school and Mukam village are around 173.50 m & 547.74 m respectively. The map showing the distance of School and Mukam Village has been submitted by PP.

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

Activities	Capital cost (lakh)	Recurring cost (Lakhs/annum)
Pollution control & Dust suppression	2.0	1
*Air, water, soil and noise monitoring	10	2.0
Plantation and green belt development	2.0	3.0
Health checkups and Emergency support	1.0	1.0
Safety Drills and PPEs	2.0	1.5

Expenditure on skill development	1.0	1.0
Trainings		
Reclamation	-	1.5
Total	18	10

xix. Details of project cost and employment:

Particulars	(Rs. In Crore)
Total cost of EMP (Capital Cost of EMP +	0.28
capital cost of Public hearing)	
Project Cost	9
Employment (No.s)	93 number

3. Observation and Recommendation of the EAC: -

The PP/Consultant presented the KML file to indicate the site features in the vicinity of the mine lease area and study area of 10km radius. The PP informed the EAC that the instant proposal attracts the general conditions as the Interstate Boundary of Chhattisgarh-Madhya Pradesh islocated at a distance of 4.48 km, W from the mine lease area. Mukam Village is located approximatey at a distance of 0.5 km from the mine lease area. The proposed mineral transportation will not be passing through the village road. The EAC noted that the PP has obtained the Letter of Intent (LoI) for the grant of mining lease from the Government of Chhattisgarh vide letter dated 11.04.2022 for mining of mineral bauxite over an area of 110.563 Ha in Village Mukam, District Kabirdham and the LoI is valid upto 26.03.2024.

The PP informed the EAC that the Phen Wildlife Sanctuary, Buffer Zone of Kanha National Park and Kanha-Achanakmar Tiger Corridor lies in the proximity of 10 km radius periphery of mine lying within the State of Madhya Pradesh which is about 5kms from the site of mines and not within the State of Chhattisgarh. The EAC also noted that the Final Notification declaring Eco Sensitive Zone around Kanha National Park and Phen Sanctuary, Madhya Pradesh was declared by the Ministry vide S.O 1198(E) dated 12.03.2021. The Eco-Sensitive Zone covers the entire notified buffer area of Kanha Tiger Reserve around Kanha National Park and Phen Wildlife Sanctuary. The Eco-Sensitive Zone is upto an extent of zero kilometres (due to interstate boundary) to 30 kilometres around the boundary of Kanha National Park, the Buffer Zone, and the Phen Wildlife Sanctuary.

The PP has submitted the Map showing distance of Phen Wildlife Sanctuary &Kanha Achanakmar Tiger Corridor from mine lease area. PP referring the letter of DFO Kabirdham dated 20.10.2023 informed to the committee that Schedule-I species such as Leopard, Elephant, Bear and Peacock present around the ML area. PP also informed that forest area, National Park, Sanctuary, Biosphere Reserve, Tiger Reserve, Elephant Reserve, Habitat for migratory birds in the state of Chhattisgarh does not come within the 10 km radius of the mining lease area.

The PP informed the EAC that the height of the bench will be 6m. The EAC asked the PP to deploy the Ripper Dozer combination to eliminate the drilling and blasting in view

of close proximity of the Mukam village and the Forest/Wildlife. The PP also informed the EAC that the ground water table is found at a depth of 30m bgl and the ultimate depth of the mining will be upto 13m and the mining activity will not intersect with groundwater table.

EAC noted that a School is located at 173.5 m & Mukam village is at 500m from the project boundary. Due to very close proximity of School &Mukam Village from the project boundary, Committee asked the PP to ensure that no blasting is undertaken near the School & Mukam village. PP also asked to ensure the basic amenities for Health, Education & Employment along with the availability of drinking water facility and three-tier Green belt plantation along the periphery of Mukam village& School.

Subsequently, Committee noted that during the Public Hearing the main issues were raised related to the leveling of land after mining, Employment and compensation to the local people for not giving land for mining. PP has submitted the EMP budget of Rs. 28 lakh (Capital cost Rs. 18 Lakh & recurring cost Rs. 10 Lakh) as mentioned in the EIA-EMP report.

Committee noted the compliance of additional information sought during the previous EAC meeting along with the compliance of the subcommittee report after visiting site. Committee also asked the PP to implement the recommendation of certified wildlife conservation plan approved by Chief Wildlife Warden, Madhya Pradesh and to be approved by the by Chief Wildlife Warden, Chhattisgarh.

Based on the above, EAC **recommended** the proposal for grant of Environmental Clearance for Mukam Bauxite mine with the total production capacity of 802977.5 TPA [384615.4 TPA (ROM) & OB 418362.1 TPA] in the ML area of 110.563 ha by M/s Chhattisgarh Mineral Development Corporation Ltd located at Village Mukam, Tehsil Bodla, District Kabirdham, Chhattisgarh under provisions of EIA Notification, 2006 and its amendments therein with following additional specific conditions in addition to the standard EC conditions applicable for Non-coal mining projects:

- i. The Environmental Clearance (EC) will be valid for 27 years from the date of issue of this EC as the life of the mine is 27 years.
- ii. PP to obtain the CTO for the total production capacity of 802977.5 TPA [384615.4 TPA (ROM) & OB 418362.1 TPA] for the Bauxite mining.
- iii. PP should implement the action plan for rehabilitation of mined out areas within the defined timeline.
- iv. PP shall not undertake felling of trees within the mine lease area.
- v. PP needs to implement the Ripper Dozer combination to eliminate the drilling and blasting in view of close proximity of the Mukam village, School and the Forest/Wildlife.
- vi. PP shall take appropriate mitigation measures in order to ensure the movement of tigers in the vicinity of the mine lease area.
- vii. PP shall obtain No Objection Certificate from Central Ground Water Authority for extraction of ground water and submit to Ministry's Regional office.
- viii. PP shall transport the mineral by covered trucks with the maximum fleet size from the dedicated route and no village road shall be used for transportation. The transportation route should not cross any habitation/Forest & Wildlife area.

- ix. PP should implement the water distribution pipeline system within the nearest Makum village and existing school.
- x. PP shall implement the activities-wise proposed budget for Public Hearing Budget (as mentioned in EIA-EMP report). The PP shall ensure that the activities proposed under the public hearing is different from the CSR activities.
- xi. PP shall implement the activities-wise proposed Capital cost of Rs. 28 Lakh (as EMP cost mentioned in the EIA-EMP report). The details of annual expenditure incurred shall be part of report to be submitted to IRO, MoEF&CC. The adoption of mitigation measures and monitoring of the same as proposed in the EMP shall be done under the supervision of the qualified environmental personnel. The implementation status of the same shall be submitted to the Ministry's Regional Office.
- xii. The Continuous Ambient Air Quality Monitoring Stations (CAAQMS) shall be installed and commissioned in consultation with CPCB. 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.
- xiii. The over burden dumps should be stabilized by plantation and ankering with geo textile/ coir nets / blankets. Plantation program needs to be scientifically planned.
- xiv. The PP needs to undertake a periodical health check up once in six months to prevent from the occupational health exposure on mine workers/local people, land, water bodies and biological environment due to mining activity with respect to hexavalent chromium and total chromium. All the health records need to be maintained digitally.
- xv. The PP needs to make provision for proper collection arrangement of runoff water from the OB dump area and mineral storage area by properly constructed garland drainage , retaining wall and setlling pond.
- xvi. The PP needs to take up works for cleaning of the garland drains, stabilizing the retaining wall regularly and also shall take necessary steps for proper terracing the OB dumps.
- xvii. The PP shall undertake adequate control measures in areas such as loading and unloading points by properly installed dust suppression system.
- xviii. The PP needs to make provision for permanent water sprinklers instead of mobile tankers all along the haul road. About, 10 nos. of fog canon/mist sprayer of atleast 40 m throw shall be installed at various locations in the mine lease area. Effective dust suppression system shall also be adopted at other parts of the mining lease to arrest the fugitive dust emission.
- xix. The PP needs to use modern equipment's such as Camera Traps for ensuring presence and movement of wild animals in the vicinity of the mine lease area as well as in study area in consultation with Wildlife Wing of Forest Department. Appropriate interventions shall be taken to minimise stress conditions for wild animals and to avoid Man-Animal conflict.
- xx. The PP should submit the wildlife conservation plan approved by Chattishgarh Wildlife Department to the regional office of the Ministry before starting the mining operation. The PP should also follow-up the status of implementation on Wildlife Conservation Plan from the Forest Officials and the same shall be submitted to the Ministry's Regional Office in the six monthly compliance report.

- xxi. The PP 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 and at other sensitive receptors and such collected data shall be submitted quarterly to the Ministry's Regional Office.
- xxii. The air pollution control equipment's like bag filters, vacuum suction hoods, dry fogging system etc. shall be installed at source, and other areas prone to air pollution. PP shall take necessary measures to avoid generation of fugitive dust emissions.
- xxiii. The PP 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.
- xxiv. The PP 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 noncompliance or infringement should be reported to the concerned authority.
- xxv. The PP shall explore the possibility of using atleast 20% of Electric vehicles/CNG/Solar instead of diesel operation within three years.
- xxvi. 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 PP shall obtain such permission.
- xxvii. The PP 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.
- xxviii. 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.
- xxix. The Project Proponent needs to complete the entire peripheral plantation under green belt, safety barrier plantation and gap plantation within five 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 Regional Office.

1.2 Expansion of Choutapalli Limestone Mine-II for enhancement of production capacity from 2.72 MTPA to 5.0 MTPA with the total Excavation of 5.582 MTPA (Limestone 5.0 MTPA + Over Burden 0.386 MTPA + Topsoil 0.196 MTPA) in the mine lease area of 156.586 Ha by M/s My Home Industries Private Limited located at Villages Choutapalli, Mattampalli Mandal and Mellacheruvu, Mellacheruvu Mandal, District Suryapet (Telangana) – For Environmental Clearance reg. [F.No. J-11015/445/2013-IA.II(M), Proposal No. IA/TG/MIN/459729/2024, EIA Consultant: B.S. Envi – Tech Pvt. Ltd]

The instant proposal is for obtaining expansion of Choutapalli Limestone Mine-II for enhancement of production capacity from 2.72 MTPA to 5.0 MTPA with the total Excavation of 5.582 MTPA (Limestone 5.0 MTPA + Over Burden 0.386 MTPA + Topsoil 0.196 MTPA) in the mine lease area of 156.586 Ha by M/s My Home Industries Private Limited located at Villages Choutapalli, Mattampalli Mandal and Mellacheruvu, Mellacheruvu Mandal, District Suryapet (Telangana).

2. The details of the project as ascertained from the document submitted by the PP and 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. The project falls under the category 'B' proposal, PP has submitted their application at central level due to the absence of SEIAA, Telangana and thus being appraised at the Central level.
- ii. The mine lease area is located between Latitude 16⁰46'36.1"- 16⁰47'40.00" N and Longitude 79⁰ 53' 49.00"- 79⁰ 54' 53.4" E. The mine lease area falls under the Survey of India Toposheet No: 56 P/13 (Scale 1:150000) and falls in Seismic Zone-II.
- iii. Details of previous Environmental Clearance (EC):
 - a) The PP submitted that initially Environmental Clearance was obtained vide Lr No J-11015/445/2013-IA.II(M) dated 14.10.2016 for a production of 2.72 MTPA in the mine lease area of 156.586ha in favour of M/s. My Home Industries Limited.
- iv. Details of Terms of Reference:
 - a) The PP obtained Terms of Reference (ToR) vide file no. SIA/TG/M IN/420479/2023 dated 26.05.2023 for Choutapalli Limestone Mine-II (156.586 ha) of My Home Industries Private Limited.
- v. Details of Mine Lease in chronological manner:

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

ſ	1	Mine	lease:	dated	Limestone	50	years	Govt of	156.586
		G.O.Ms.	No.	20.12.2016	Major	from		Telangana	
		75				03.01	.2017		
						to			
						02.01	.2067		

S.	Details of grant of Mine	Period	of Grant	Name of the	Mine lease
No	Lease deed execution	From	То	Mineral	area in Ha
1	Proceeding No.	03.01.2017	02.01.2067	Limestone	156.586
	5115/ML/LS/2012 DATED				
	03.01.2017				

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

Private land	Private Agriculture Non-Irrigated
	Land – 151.163 Ha
Government land	Govt. Waste Land – 5.423 Ha
Forest land	0
Total Mining lease area (MLA)	156.586 Ha
Private land for crusher, workshop & other	-
infrastructure outside the MLA	

vii. Mining plan details:

vii. Wiiming plair abtailo.				
Mining Plan including Progressive	Letter No.	AP/KNL/MP/LST-74/HYD		
Mine Closure Plan (approved by	Date	07.03.2023		
Indian Bureau of Mines/DMG)	Mineral &	Limestone - Major Mineral		
	(Major/Minor)			
	Mine Lease Area,	156.586 Ha		
	На			
	Validity	2022 - 2023 to 2025 -		
		2026.		
Mining Parameters Quantitative Description				
Method of Mining	Open Cast Mechanized with deep hole drilling and			
	blasting.			
Drilling/Blasting	Drilling is being carrie	Drilling is being carried out by wagon drills		
	Blast holes having 115mm diameter are drilled at			
	15° inclination in a pattern of 3.0 m Burden and 6.0			
	m spacing.			
Geological Reserves	168.09 Million			
Mineable Reserves 135.01 Million				
Breakup of Total Excavation	Total Excavation of 5.582 MTPA (Limestone: 5.0			
(Topsoil/OB/SB/IB/Mineral Rejects/	al Rejects/ MTPA+ Over Burden:0.386 MTPA+ Topsoil:0.196			
Waste, MTPA)	MTPA) in the existing area of 156.586 Ha			
Life of mine				

Mine Bench Height & Bench Width	Mine Bench Height: 7.5 m &Bench Width: 20m
No. of Mine Benches	3
Existing Depth, m bgl	23 m
Ultimate Depth of Mining, m bgl	45 m bgl
Ground Water Table, m bgl	30 m bgl
Details of ground water intersection	No
Individual bench slope	80°
Overall pit slope	45 ⁰
Details of existing/ proposed Crusher	Crusher of 1350 TPH capacity & 850 TPH located
	within cement plant area in Choutapalli Limestone
	Mine of MHIPL at a distance of 4.0 km (both ways)
	from the farthest mine pit to crusher.
Mineral Beneficiation	None
RoM output size	-75 mm
Transportation details including	Limestone Transported by dumpers and crushed
capacity of dumper/tipper, mode of	limestone is transported to cement plant through
transport and distance	closed belt conveyor. (850 TPH &1350 TPH) - at
	cement plant by a road length of 4 km
Generation of Topsoil/OB & its	The total ML area is rocky terrain covered with
Management during plan period &	around 0 m to 6.5m (maximum) top soil cover
conceptual period	except small portions of the area. The estimated
	total top soil generation during the life period of 50
	years will be about 7,66,414.45 cu. mts. Out of the
	generated top soil quantity about 27,423.19 cu.
	mts of top soil will be stored. And the remaining top
	soil quantity of 7,38,991.26 cu. mts will be used for
	afforestation development along the barrier zone
	and proposed plantation areas during the 50 years
	life period of mine and reclamation of the worked
	out Pit preparation of soil bund.
Generation of Mineral Rejects/	No mineral rejects
Waste & its Management during plan	
period & conceptual period	

viii. Waterrequirement

Total water requirement	Present requirement	Fresh	155
	= 30 m³/day	water	m ³ /day
	After expansion =	Treated	-
	125 m ³ /day	water	
Source	existing Mine pits of M	HIPL	
Permission for withdrawal/ intersection	Not APPlicable		
along with details of grant and its validity			

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

Particulars	Particular's Name	Distance & Directions
Village	Yepal Madhavaram	1.9 km – E
Town	Miryalaguda	36.5 km - WNW
Highway	NH-65 connecting Vijayawada –	1.7 km – NE
	Hyderabad	
Interstate Boundary	Telangana – Andhra Pradesh	9.32km - SW
Railway Station/Railway	Railway Station: Miryalaguda	39.8 km – WNW
line		
	Railway line: Damercherla -	1.0 km in Northern
	Vijayawada	direction
Water bodies	NSP Canal	0.05 km – W
	UraVagu	1.17 km – E
	Nearest Canal	3.13 km – ENE
	Krishna River	8.8 km – SSW
Forest	Raghunathapalem R F	– 0.2km - E

x. Presence of Environmentally Sensitive areas in the study area

Forest Land/Protected	Yes/No	Details of Certificate/letter issued by the		
Area/Environmental		concerned Department mentioning the Lr no,		
Sensitivity Zone		date of grant and remarks		
Forest Land within the mine	No	-		
lease area and (if yes) status				
of Forest Clearance				
National park	No	-		
Wildlife Sanctuary	No	-		
Elephant/Tiger Reserve	No	-		
Eco-Sensitive Zone (ESZ)	No	-		
/Eco-Sensitive Area (ESA)				
Coastal Regulation Zone	No	-		
(CRZ)				
Schedule-I species (No.s	Yes	There are Jackal, Indian Porcupine, Bonnet		
and name of schedule-I		Macaque, Grey Mongoose, Indian Chameleon,		
species with authenticated		Indian Cobra, Indian Rat Snake, Shikra, Eurasian		
letter)		Eagle Owl, Brahminy Kite, Small Minivet, River		
		Tern, Barn Owl Schedule-I species recorded in		
		study area for which Wild Life Conservation Plan		
		is being initiated.		
Wildlife Conservation Plan	Yes	Wild Life Conservation Plan is being initiated.		

xi. Green belt/plantation details:

Proposed area for green belt/plantation	Proposed Afforestation: 1.42 Ha with 2130
and no. of saplings proposed	sapling with a budget of Rs.4.26 Lakhs
Budget for green plant & plantation till	Proposed Capital Cost: Rs. 4.26 Lakhs
the end of life of mine.	Proposed Recurring Cost: Rs. 2.13 Lakhs
Budget for nursery	None
Details of existing plantation and its	Existing Greenbelt: 3.45 Ha in 7.5 m
survival rate	barrier zone of ML area
	Number of saplings:3327
	 Amount spent Rs Lakhs:6.654
	Survival rate:60%
No. of tree cuts in the mine lease area	0
and compensatory afforestation	
Particulars for Green belt/plantation	Area covered (in Ha)
7.5 m barrier & non-mineralized zone	4.87 Ha (width barrier zone all along ML
	boundary)
50 m safety zone of nallah, roads,	-
electric lines	
300 m safety zones of nearest	-
habitation villages	

xii. Baseline detail

Baseline Data (Air / V	Vater / Noise / Soil / Hydro geological study/ Traffic Study/ others)
Period of baseline	01.12.2022 to 28.02.2023
data collection	
Season (Summer /	Winter Season
Pre-monsoon /	
Post-monsoon /	
Winter)	
Predominant Wind	ESE-SE-SSE direction
direction (From)	
Ambient Air Quality	AAQ Parameters at 09Locations
(no. of locations)	
and results	PM10 = 41.6 to 70.6 μg/m3
	PM2.5 = 19.4 to 29.5 µg/m3
	SO2 = 9.0 to 14.5 µg/m3
	NO2 = 10.3 to 15.9 µg/m3
	CO: less than 1 PPm
Noise level (no. of	Noise Levels At 9 Locations
locations) and	Day time: Core zone: 71.4 to 73.9 dB (A); Buffer Zone:51.6 to
results	54.7 dB (A)
	✤ Night time: Core zone 58.6 to 68.4 dB (A); Buffer Zone:40.6 to
	44.8 dB (A)

Water Quality (no.	Ground Water Quality At 08 Locations			
of locations) and	✤ pH = 7.10 - 7.36			
results	✤ Total Hardness = 420 - 570 mg/l			
	Chlorides = 93 - 405 mg/l			
	✤ Fluoride = 0.65 – 1.38 mg/l			
	✤ Heavy Metals (Zinc) = <0.02 – 0.2 mg/l			
	Surface Water Quality At 08 Locations			
	pH: 7.18 to 7.63;			
	DO: 4.5 to 5.3 mg/l;			
	BOD:2 to 3 mg/l ;			
	COD: 11 to 19mg/l			
Soil Quality (no. of	Soil Quality 8 Locations			
locations) and	Moderate fertility			
results	 pH Value of 1:2 aqueous extract Solution - 7.80 – 8.25 			
	• E.C, mS/cm of 1:2 aqueous extract Solution - 0.138 - 0.716			
	 Mineralized Nitrogen (Available Nitrogen), kg/ha - 36 – 325 			
	 Available Phosphorous as P2O5, kg/Ha - 07 – 77 			
	 Available Potassium as K2O, Kg/Ha - 47 – 960 			
	 Organic Carbon, % - 0.1 – 0.64 			
Hydro geological	Mellacheruvu Mandal which is falling in the study area has			
study and results	Groundwater availability for both the command and non-command			
	area put together as 10980 ha.m. The groundwater utilization is			
	1215 ha.m and the balance available as 9765 ha.m. Hence the			
	stage of groundwater development for the Mellacheruvu Mandal is			
	estimated as 11% and falls under the Safe Category.			
	outilitated do 1170 and faile under the Oale Oalegory.			
	No Ground water tapping and Recharging ground water table by			
	converting mine pit into reservoir.			
Traffic study (no. of	The limestone from mine face will be transported by 40 tons			
locations) and	capacity dumpers to crusher of 1350 TPH capacity & 850 TPH			
results	located within cement plant area in Choutapalli Limestone Mine of			
	MHIPL at a distance of 4 km (both ways) from the farthest mine pit			
	to crusher. The crushed limestone will be transported to cement			
	plant through closed belt conveyor.			
	plant intough blosed beit conveyor.			

xiii. Public Hearing (PH) Details

3 ()	
Advertisement for PH with date	28.07.2023
(name of major national daily	"The New Indian Express" (English News Paper)
and one regional vernacular	and "Eeenadu" (Telugu News Paper).
daily newspaper)	
Date of PH	31.08.2023 by Telangana State Pollution Control
	Board chaired

Venue	Near the existing mine lease area, Choutupalli & Mellacheruvu Villages, Mattampalli &			
	MellacheruvuMandals, Suryapet District,			
	Telangana.			
Chaired by	Sri. S. Venkata Rao, IAS, Collector & District			
	Magistrate, Suryapet District, Telangana.			
Main issues raised during PH	Prefer Employment to locals			
	Drainage system to be developed in			
	choutapalli			
	Development of schools in villages			
	• Women to be trained in tailoring by setting up			
	training centre			
	Roads to be repaired			
	Medical camps to be arranged			
	Plantation to be taken up I village			
Budget proposed for	MHIPL has allotted Rs. 55.0 Lakhs towards the			
addressing issues raised	Public Hearing demands.			
during PH over 3 years				

Details of public hearing action plan for 3 years.

	•	<u> </u>				Desuminerset	
	Activities Ca		pital cost (Lakhs)			Recurring cost	
	(Lakhs/an			(Lakhs/annum)			
		-					
S.	Activi	ty	Year 23-24 Year 24-		4-25	-25 Year 25-26	
No							Rs In
							Lakh
							S
Swa	achh Bharat						
	Repair of	Physical	1				
1	drainage	Nos					
	system in	@Villag	Choutapalli	Choutapalli		Choutapalli	
	Choutapalli	е	-	•			
	village	Budget	3	3		3	9.0
	_	Rs					
		Lakhs					
Edu	cation and Spo	orts		I		l	
		Physical	1	1		1	3
1	Development	Nos					
	Developme	@	Mellacheruv	Yepaln	nadara	Choutapalli	
	nt of the schools in	Village	u	n .			
		Budget					
	surrounding	Rs	9	ç)	9	27*
	3 villages	Lakhs					

Wo	men welfare		-	-	-	
1	Women	Physical Nos	1	2	1	
	training – Tailoring and	@Villag e	Mellacheruv u	Yepalmadara m	Choutapalli,	
				Mattapalli		
	providing	Budget				50*
	sewing	Rs	20	20	10	
	machines	Lakhs				
Roa	ads developmer	nt			1	
	Repairing of	Physical	1	1	-	
1	roads in	Nos				
	villages	@Villag	Choutaplli	Mellacheruvu		
		е				
		Budget	5	5		10
		Rs				
		Lakhs				
Skil	lldevelopment					
	Sill	Physical				
	developmen	Nos				
1	t for 30	@Villag	Choutaplli	Mellacheruvu	Yepalamadara	
	youth for 3	е			m	
	years from	Budget	9	9	9	27
	each village	Rs				
		Lakhs				
Hea	alth care			•		
	.Medical	Physical	1	1	1	
	camps	Nos				
	special to be	@Villag	Choutaplli	Mellacheruvu	Yepalamadara	
1	opoolal to bo				m	
1	conducted	е				
1		e Budget				
1			2	2	2	6
1		Budget	2	2		6

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

Particulars	Details of Letter along with date		
	of grant and validity		
Consent to Establish	18.11.2016		

Consent to Operate	23.07.2021 valid up to
	30.06.2026.
Certified Compliance Report and Inspection date	File No: 1-25/2023/IRO-HYD/857
	dated 19.10.2023
Certified Production Details from the inception of the	23.11.2023 (submitted by PP)
mine (in tabular form against the EC	
capacity)	

xv. Rehabilitation & Resettlement:

R & R details The PP submitted that R&R is not applicable to the instant project.

xvi. Court case details:

Court Case, No	No Litigation case is pending against the proponent. MHIPL has not
and its present	received any notice under the Section 5 of Environment (Protection)
Status	Act, 1986 or relevant Sections of Air and Water Acts. However, a case
	has been filed against the Telangana Pollution Control Board in the
	Hon'ble High Court of Telangana W.P.No.23937 of 2023 praying for
	cancellation of Public Hearing. In which MHIPL is a respondent.
	However, the Court dismissed the plea and instructed to continue the
	PH through an Interim order.
Undertaking by	PP submitted that no litigation is pending against the project.
PP w.r.t court	
case	

xvii. Affidavit/Undertaking details:

Affidavit as per Ministry's OM dated 30.05.2018	The PP has submitted an undertaking by way of Affidavit dated 29.11.2023 stating that My Home Industries Private Limited shall comply with all the the statutory requirements and judgement of Hon'ble Supreme Court dated 02 nd August 2017 in Writ Petition (Civil) no. 114 of 2014 in the mattere of Common Cause versus union of India and ors
Undertaking by PP in EIA/EMP report	PP has submitted an undertaking dated 24.11.2023 in the Final EIA Report that the conditions laid in ToR by SEIAA has been addressed in the Final EIA Report.
Undertaking by Consultant in EIA/EMP report	The Consulant has submitted an undertaking dated 27.11.2023 stating that

	it has complied all the prescribed ToR issued by SEIAA in the Final EIA/EMP Report.
Plagiarism Certificate	Consultanat has submitted plagiarism certificated dated 27.11.2023 in the Final EIA Report

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

Activities	Capital cost	Recurring cost
	(Lakhs)	(Lakhs - up to
		lease period
		2067)
Air Pollution Control Measures - Dust Suppression	30	20
Measures (Atomized Water spray system and water tankers)		
Environmental Monitoring	0	9.62
Greenbelt development	4.26	3.2
Construction of retaining wall 1088 m - Rs 150/m	1.65	-
Construction and Maintenance of garland drain-1088 m	1.3	0.5
-cost of proclainer per hour for 5m length of garland		
drain is Rs 600 per hour		
Construction of settling tank and De-silting operations	2.0	0.5
Occupational Health	2.15	1.35
Total (Lakhs)	41.38	35.17

xix. Details of project cost and employment:

Particulars	(Rs. In Lakhs)
Total cost of EMP (Capital Cost of EMP	Capital Cost of EMP: Rs. 41.38 Lakhs
+ capital cost of Public hearing)	Capital cost of Public hearing: Rs.55
	Lakhs
Project Cost	100
Employment (No.s)	Existing employment - 27 persons
	additional employment -43 persons

3. Observation and Recommendation of the EAC:

The PP/EIA Consultant presented the KML file to indicate the site features in the vicinity of the mine lease area and the study area of 10 km radius. The PP showed the boundary of the mine lease area and cement Plant supported by Choutapalli Limestone Mine-II.The EAC noted that the PP has obtained the mining lease from Telangana State vide G.O. Ms.No. 75 on 20-12-2016 for 50 years from 03.01.2017 to 02.01.2067 over an area of 156.586 Ha. (Non Forest Land) consist of 151.163 Ha-Private Agriculture Non-irrigated land and 5.423 Ha is Govt. waste land). The Mine lease was executed vide

Proc.No..5115/ML/LS/2012 dated 03.01.2017. The PP has obtained the No Forest involved letter from DFO, Forest Department, Suryapet , dated 11.05.2023.

The instant mine had already obtained the Environmental Clearance for 2.72 MTPA (Limestone) from MOEFCC No. vide F.No. J-11015/445/2013-IA-II(M) dated: 14.10.2016. The mine is under operation since 22.02.2018. The PP has obtained the revised mine plan for the instant mine vide Lr.No. AP/KNL/MP/LST-74/ HYD dated 07.03.2023. The PP has obtained the certified compliance report from MOEFCC, Hyderabad vide F.No. 1-25/2023/IRO-HYD/857 dated 23.11.2023.

The PP after collecting the baseline data in Winter Season i.e. from December 2022 to February 2023 conducted the public hearing on 31.08.2023. PP informed to the committee that the afforestation has been carried out in 3.45 ha (3327 saplings) after spending budget of Rs. 6.654 lakh.

EAC noted that the PP has reached a maximum production capacity of 0.72 MTPA against the granted EC capacity of 2.72 MTPA, the committee emphasized that PP needs to achieve the existing EC capacity first before seeking the expansion. EAC also noted that the Limestone is transported to the crusher by 40-ton dumpers from the mine pit to the crusher and then to the cement plant through a closed conveyor for its captive use. The said crusher is located in the adjacent mine lease. Accordinglym, the EAC asked the PP to explore the possibility of installing the mobile crushers within the ML area instead of using the crusher located outside the instant lease area.

The committee further observed the presence of an irrigation canal passing adjacent to the ML area, and asked the PP whether it has obtained any NoC from the State Irrigation Departmement and has it conducted in vibration study that may impact the existing canal. The PP informed that they have not obtained any, EAC accordingly advised the PP to get NoC from the State Irrigation Department. The EAC emphasized that blasting activities within the mine lease area should n't impact existing canal infrastructure, the committee therefore asked the PP to conduct the balsting study for the same. Committee also asked the PP to increase their greenbelt cover by planting native fruit bearing trees within the ML area with the survival rate of 95% the native fruit bearing tree species.

The EAC enquired about the wildlife conservation plan. The PP informed that it is being initiated in light of the recen amendment in the Wildlife act which has resulted in incorporation in new schedule –I species. Accordingly, EAC asked the PP to prepare the species specific conservation plan and submit it as soon as possible.

After detailed deliberations made by the PP and the EIA Consultant, the EAC opined that PP shall achieve the maximum granted capacity as per their existing EC before seeking expansion. Based on the discussions held, the EAC **deferred** the proposal for want of following additional information: -

- i. The PP needs to achieve the previously issued EC capacity of 2.72 MTPA before seeking an expansion from 2.72 to 5 MTPA of limestone production.
- ii. The PP should explore the possibility for the incorporating mobile crushers within the ML area and submit a detail plan;
- iii. PP should submit the plan for making rainwater harvesting facility within/outside the ML area and for the near villagers.
- iv. PP needs to conduct the blasting study in order to find the impact upon the existing irrigation canal passing through the ML area.
- v. PP needs to submit the NoC from the irrigation department.
- vi. PP should prepare the species specific conservation plan&submit the proof of submission of conservation application.

1.3 Pipariya Mal Bauxite Block (e-auctioned) with production capacity of 797462.90 TPA (ROM) in the Mine lease area of 273.215 Ha by M/s Anand Mining Corporation located at Village Pipariya Mal, Taluka Bajag, District Dindori (Madhya Pradesh) – For Terms of Reference (ToR) reg. [F. No. IA-J-11015/6/2024-IA-II(NCM), Online Proposal No. IA/MP/MIN/458118/2024, EIA Consultant - Aplinka Solutions & Technologies Pvt. Ltd.]

The instant proposal is for Terms of Reference (ToR) for Pipariya Mal Bauxite Block**(e-auctioned)** with production capacity of 797462.90 TPA (ROM) in the Mine lease area of 273.215 Ha by M/s Anand Mining Corporation located at Village Pipariya Mal, Taluka Bajag, District Dindori (Madhya Pradesh).

2. The details of the project as ascertained from the document submitted by the PP and 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 mine lease area is 273.215 Ha which is greater than 250 ha and appraised at the Central level.
- ii. The mine lease area is located between Latitude: 22° 42' 54.233" to 22° 44' 19.353" North and Longitude: 81° 15' 48.455" to 81° 17' 9.117" East. The mine lease area falls under the Survey of India Toposheet No: 64F/06 and falls in Seismic Zone-II.
- iii. Details of Mine Lease in chronological manner:

S.	Prospecting	Date of	Name of	Period	Granted by	Mine
No.	License/ Letter of	The Grant	the	of Grant		lease
	Intent (LoI) / Grant		Mineral &			area in
	of Mine lease and		(Major/			Ha
	Lr No		Minor)			
1	LOI granted vide	23.08.2022	Bauxite	50	State	273.215
	letter No F3-			Years	Government	
	3/2022/12/2				-Madhya	
	Bhopal				Pradesh	

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

Private land	137.75 ha
Government land	86.355 ha (Non-Forest Land)
Forest land	49.29 Ha
Total Mining lease area (MLA), ha	273.215

v. Mining plan details:

Mining Plan including Progressive	Letter No.	E 5179 MCDR-	
Mine Closure Plan (approved by		MPC0BXT/3/2023-JBP-	
Indian Bureau of Mines/DMG)		IBM_RO_JBP	
	Date	30/06/2023	
	Mineral &	Major	
	(Major/ Minor)		
	Mine Lease	273.215	
	Area, Ha		
	Validity	Five years	
Mining Parameters	Quantitative Des	cription	
Method of Mining	Opencast mecha	anized	
Drilling/Blasting	Drilling & blasting	g is required for excavation of the	
	material.		
Geological Reserves (tons)	50018661.10; (Bauxite 47786630.60; Laterite	
	2232030.50)		
Mineable Reserves (tons)	23637090; (Ba	auxite 22395902.00; Laterite	
	1241188.00)		
Breakup of Total Excavation	Top Soil –Nil, Mi	neral Reject / Waste -267907	
(Topsoil/OB/SB/IB/Mineral Rejects/			
Waste, MTPA)			
Life of mine	50 year (Till leas	e period)	
Mine Bench Height & Bench Width	2.5 meter to 5 m	eter Bench height &5.0 meter to	
	8 meter Bench w		
No. of Mine Benches	2		
Existing Depth, m bgl	Not Applicable.		
Ultimate Depth of Mining, m bgl	10 mbgl		
Ground Water Table, m bgl	5-10		
Details of ground water intersection	GWT varies fro	om 892 - 897 mRL whereas	
		one upto 905 mRL	
Individual bench slope	80 ⁰	·	
Overall pit slope	65 ⁰		
Details of existing/ proposed Crusher	Not Applicable.		
Mineral Beneficiation		is proposed. Sorting sizing and	
	screening by portable screen/ vibratory screen		
	will be done.		
RoM output size	Less than (-130 mm)		
	· · · · ·	,	

Trans	details	including	Transp	orta	tion and Haul	age Equi	ipment's		
capac	capacity of dumper/tipper, mode of				۱o.	Туре	Make	Capacity	
transport and distance								(m3)	
				1		Dumpers	Tata	16.00	
				Minera	Mineral will be transported to industries located				
				in Ma	dhya	Pradesh and	d Chattis	shgarh via roa	ad
				within	dista	nce of 300km	IS.		
Gener	ation of	Topsoil	/OB & its	No Тор	soil/(OB will be ger	nerated a	it site during p	lan
Manag	gement o	during pla	an period &	period &	& cor	nceptual perio	od.		
conce	ptual peri	od							
Generation of Mineral Rejects/ Waste			The year	ar wis	se mineral rej	ect detail	l & dumping a	rea	
& its N	& its Management during plan period			as men	tione	d below.			
& cond	ceptual pe	eriod							
S.N Year Type of Propos			Proposed	Heigh	t	Total Dump	Dur	mp Location	
S.N Teal		Dump	Area (ha)	(in m)	(in Quantity)	Du		
1	Year 1		0.28	10		28400	Sou	uth Direction	
2	Year 2		0.28	10		28400	Sou	uth Direction	
3	Year 3	Mineral	0.68	10		67972	Sou	uth Direction]
4	Year 4	reject	0.87	10		86680	Sou	uth Direction]
5	Year 5		0.57	10		56500	Sou	uth Direction]
	Total		2.68			267952			

vi. Water requirement:

Total water requirement	20KLD	Fresh water	1.5 KLD
		Treated water	18.5 KLD
Source	Initially near	by villages and lat	ter on Mine sump water
Permission for withdrawal/	Not Applicat	ble	
intersection along with details			
of grant and its validity			

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

Particulars	Particular's Name	Distance & Directions
Village	Pipariya Mall.	Adjacent to Project Site in E
Town	Bajag	8.5km in SE
Highway	Bajag-Sagartola Road (SH-	3.5km; E
	9)	
Interstate Boundary	Madhya Pradesh	21 km South
	Chattishgarh State border	
Railway Station/Railway line	Amlai Railway station	58km in NE
Water Bodies	Chakrar Nala	5.3km; NE
Forest	Labeda RF	Adjacent to project site in W

viii. Presence of Environmentally Sensitive areas in the study area

vin. Tresence of Environmentally bensitive areas in the study area		
Forest Land/Protected	Yes/No	Details of Certificate/letter issued by the
Area/Environmental Sensitivity		concerned Department mentioning the Lr no,
Zone		date of grant and remarks
Forest Land within the mine		Forest area is 49.29 ha. The forest committee
lease area and (if yes) status of	Yes	has restricted this area as well as 50 m buffer
Forest Clearance		zone comprising of 30.45 ha as restricted area
		and will not be mined out.
National Park	No	Not present within 10 km radius
Wildlife Sanctuary	No	Not present within 10 km radius
Elephant/Tiger Reserve	No	Not present within 10 km radius
Eco-Sensitive Zone(ESZ)	No	Not present within 10 km radius
/Eco-Sensitive Area(ESA)		
Coastal Regulation Zone	No	Not present within 10 km radius
(CRZ)		
Schedule-I species (No.s and	Yes	Will be part of EIA report
name of schedule-I species		
with authenticated letter)		
Wildlife Conservation Plan	Yes	Will be part of EIA report

ix. Green belt/plantation details:

Proposed area for green belt/plantation and	39.30 ha (Tree species will be planted
no. of saplings proposed	@ 2000 saplings per ha)
Budget for green plant & plantation till the end	Will be part of EIA report
of life of mine.	
Budget for nursery	Will be part of EIA report
Details of existing plantation and its survival	It is fresh case not applicable
rate	
No. of tree cuts in the mine lease area and	Will be part of EIA report
compensatory afforestation	
Particulars for Green belt/plantation	Area covered (in Ha)
7.5 m barrier & non-mineralized zone	7.30 ha
50 m safety zone of nallah, roads, electric	0 ha
lines	
500 m safety zones of nearest habitation	32 ha
villages	

x. Baseline detail:

Baseline Data (Air / Water / Noise / Soil / Hydro geological study/ Traffic Study/ others)	
Period of baseline data collection	December 2023 to February 2024
Season (Summer / Pre-monsoon / Post- monsoon / Winter)	Winter
Predominant Wind direction (From)	North-west to south east

Ambient Air Quality (no. of locations) and results	8
Noise level (no. of locations) and results	8
Water Quality (no. of locations) and results	12(6 Surface water and 6 ground water)
Soil Quality (no. of locations) and results	5
Hydro geological study and results	0
Traffic study (no. of locations) and results	2

xi. Rehabilitation & Resettlement (R&R):

R & R details	PP will submit the details in the EIA/EMP Report.

xii. Court case details:

Court Case, No and its present	No court case
status	
Undertaking by PP w.r.t court case	No court case

xiii. Affidavit/Undertaking details:

Affidavit as per Ministry's OM dated	This is a case of fresh grant sanctioned through
30.05.2018	auction.
Undertaking by PP in EIA/EMP	Not applicable at TOR stage
report	
Undertaking by Consultant in	Not applicable at TOR stage
EIA/EMP report	
Plagiarism Certificate	Not applicable at TOR stage

xiv. Detailsof project cost and employment:

Particulars	(Rs. In Crore)
Total cost of EMP (Capital Cost of EMP +	PP will submit in EIA report
capital cost of Public hearing)	
Project Cost	INR 7.11 crore
Employment (No.s)	27 person

3. Observation and Recommendation of the EAC: -

The PP presented the KML file wherein within the ML area it showcased five blocks in the proposed Pipariya Mal Bauxite mine intended for mining the mineral. The PP stated that they will not be minining in areas that has been designated as restricted area since these areas are Forest land. The PP submitted the valid Lol issued for grant of ML by Mineral Resources Department, Govt of M.P. through e-auction for a period of 50 years. The Lol is valid for 3 years. The Mining Plan has also been approved by IBM. Committee noted that the forest land of 49.29 ha along with the buffer zone of 30.45 ha lying within the ML area declared as restricted area is Forest land and asked the PP to either submit an application for obtaining the forest clearance for forest land of 49.29 ha lying within the ML area or exclude the forest land from the total ML area. Based on the discussions held, the EAC **deferred** the proposal for want of following additional information:-

- i. PP needs to submit the proof of submission of forest clearance application for the 49.29 ha of forest landlying within the ML area of 273.215 ha or revise the Mine area after excluding the forest land.
- ii. Accordingly, PP needs to submit the revised application and all relevant documents.

1.4 Amendment in Environment Clearance dated 06.09.2023 of Chromite Block (ML Area: 406 ha) located at Villages: Kalarangiatta, Kaliapani & Mahulkhal, Forest Block-27, Tehsil: Sukinda, District: Jajpur, Odisha of M/s. Tata Steel Mining Ltd. [F. No. IA.J-11015/96/2011-IA. II (NCM), Proposal No. IA/OR/MIN/454734/2023, EIA Consultant - JM Enviro Net Pvt. Ltd.]

1 The instant proposal is for Amendment in Environment Clearance dated 06.09.2013 & 11.01.2022 of Chromite Block (ML Area: 406 ha) located at Villages: Kalarangiatta, Kaliapani & Mahulkhal, Forest Block-27, Tehsil: Sukinda, District: Jajpur, Odisha of M/s. Tata Steel Mining Ltd

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

- The mine lease area is located between Latitude 21^o 00'39.60" N to 21^o 02'05.81" N and Longitude 85^o 44'27.10" E to 85^o 46'22.37" E. The mine lease area falls under the Survey of India Toposheet No: F45N12 (73-G/12), F45N16 (73-G/16), F45T9 (73-H/9) & F45T13 (73-H/13) and falls in Seismic Zone-II.
- The proposed project activity is listed at schedule no. 1(a) Mining of Minerals and 2(b) Mineral beneficiation. The project falls under Category "A" as the mining lease area is greater than 250ha and appraised at the Central level.
- PP has obtained the Environmental Clearance for Chrome ore (0.95 to 2.4 MTPA), Pyroxenite ore (0.25 to 0.5 MTPA-RoM) and Chrome beneficiation production (0.1 to 0.65 MTPA) vide letter no. J-11015/96/2011-IA.II(M) dated 06.09.2013.
- iv. The PP thereafter obtained first amendement in EC vide letter no J-11015/96/2011-IA-II (M) dated 26.09.2016 wherein "enhancement of chrome beneficiation production from .1 to 0.65 million TPA (throughput)" was replaced with "enhancement of chrome beneficiation production from .1 to 0.65 million TPA".
- v. Thereafter on 11.01.2022 transfer of EC was obtained from "M/s Tata Steel Limited" to "M/s Tata Steel Mining Limited" under the provisions of S.O. 2817 (E) dated 13.07.2021.
- vi. Details of Mine Lease in chronological manner:

As per MMDR, Act 2015 the mine lease in the name of Tata Steel Ltd. was expired. Tata Steel Mining Ltd. has taken this lease through e-auction and same was

executed on 23.07.2020. As per the lease document , the mine lease was only issued for Chromite ore block of 406 ha.

S.	Details of grant of Mine	Period of Grant		Name of the	Mine
No.	Lease deed execution	From	То	Mineral	lease area
					in Ha
1	Mine lease deed was	23.07.2020	22.07.2070	Chromite	406 ha
	granted in favor of the Tata				
	Steel Mining Ltd.				

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

Private land	1.331 Ha
Government land	-
Forest land	404.669 Ha
Total Mining lease area (MLA), ha	406 Ha
Private land for crusher, workshop & other infrastructure outside the MLA	NA

viii. Mining plan details:

Mining Progressive Mine Plan (approved by Indian Bureau of Mines/DMG)Letter No.BBS/JJP/CR/2172/MPM/2022-23Date22.07.2022Mineral & (Major/Minor)Mineral & MajorMine Lease Area, Ha406 Ha HaValidity2022-23 to 2024-25Mining ParametersQuantitative DescriptionMethod of MiningOpencast with Shovel and dumper combination Underground: Sublevel stopping with backfillingDrilling/BlastingDrilling: Drilling is being/will be done with sharp drill bits to achieve optimum drilling performance and to reduce noise generation at source.Blasting: Blasting is being/will be done as per standards prescribed by DGMS Use of NONEL to control ground vibrations Monitoring of every BlastGeological Reserves91 Million Tonnes as on 01.04.2022Breakup of Total Excavation (Topsoil/OB/SB/IB/Mineral Rejects/ Waste, MTPA)Chromite Ore: 2.4 million TPA No topsoil generation is envisaged during the plan period.	vili. Mining plan details:			
Plan (approved by Indian Bureau of Mines/DMG) Mineral & Mineral & (Major/Minor) Major Mine Lease Area, Ha 406 Ha Validity 2022-23 to 2024-25 Mining Parameters Quantitative Description Method of Mining Opencast with Shovel and dumper combination Underground: Sublevel stopping with backfilling Drilling/Blasting Drilling: Drilling is being/will be done with sharp drill bits to achieve optimum drilling performance and to reduce noise generation at source. Blasting: Blasting techniques like presplit blasting, use of Nonel, SME (Site Mixed Emulsion) is being/will be practiced to minimize vibration, back breaks and fly rock generation. Blasting is being/will be done as per standards prescribed by DGMS Use of NONEL to control ground vibrations Monitoring of every Blast Geological Reserves 91 Million Tonnes as on 01.04.2022 Mineable Reserves 4.51 Million TPA No topsoil generation is envisaged during the plan period.	с	Letter No.	BBS/JJP/CR/2172/MPM/2022-23	
Bureau of Mines/DMG) Image (Major/Minor) Mine Lease Area, Ha 406 Ha Validity 2022-23 to 2024-25 Mining Parameters Quantitative Description Method of Mining Opencast with Shovel and dumper combination Underground: Sublevel stopping with backfilling Drilling/Blasting Drilling: Drilling is being/will be done with sharp drill bits to achieve optimum drilling performance and to reduce noise generation at source. Blasting: Blasting techniques like presplit blasting, use of Nonel, SME (Site Mixed Emulsion) is being/will be practiced to minimize vibration, back breaks and fly rock generation. Blasting is being/will be done as per standards prescribed by DGMS Use of NONEL to control ground vibrations Monitoring of every Blast Geological Reserves 91 Million Tonnes as on 01.04.2022 Mineable Reserves 4.51 Million Tonnes as on 01.04.2022 Breakup of Total Excavation (Topsoil/OB/SB/IB/Mineral Chromite Ore: 2.4 million TPA No topsoil generation is envisaged during the plan period.	Ŭ	Date	22.07.2022	
Mine Lease Area, Ha406 HaMining ParametersQuantitative DescriptionMethod of MiningOpencast with Shovel and dumper combination Underground: Sublevel stopping with backfillingDrilling/BlastingDrilling: Drilling is being/will be done with sharp drill bits to achieve optimum drilling performance and to reduce noise generation at source.Blasting: Blasting techniques like presplit blasting, use of Nonel, SME (Site Mixed Emulsion) is being/will be practiced to minimize vibration, back breaks and fly rock generation.Blasting is being/will be done as per standards prescribed by DGMS Use of NONEL to control ground vibrations Monitoring of every BlastGeological Reserves91 Million Tonnes as on 01.04.2022Breakup of Total Excavation (Topsoil/OB/SB/IB/MineralChromite Ore: 2.4 million TPA No topsoil generation is envisaged during the plan period.		Mineral &	Major	
HaValidity2022-23 to 2024-25Mining ParametersQuantitative DescriptionMethod of MiningOpencast with Shovel and dumper combination Underground: Sublevel stopping with backfillingDrilling/BlastingDrilling: Drilling is being/will be done with sharp drill bits to achieve optimum drilling performance and to reduce noise generation at source.Blasting: Blasting techniques like presplit blasting, use of Nonel, SME (Site Mixed Emulsion) is being/will be practiced to minimize vibration, back breaks and fly rock generation.Blasting is being/will be done as per standards prescribed by DGMS Use of NONEL to control ground vibrations Monitoring of every BlastGeological Reserves91 Million Tonnes as on 01.04.2022Breakup of Total Excavation (Topsoil/OB/SB/IB/MineralChromite Ore: 2.4 million TPA No topsoil generation is envisaged during the plan period.	Bureau of Mines/DMG)	(Major/Minor)		
Validity2022-23 to 2024-25Mining ParametersQuantitative DescriptionMethod of MiningOpencast with Shovel and dumper combination Underground: Sublevel stopping with backfillingDrilling/BlastingDrilling: Drilling is being/will be done with sharp drill bits to achieve optimum drilling performance and to reduce noise generation at source.Blasting: Blasting techniques like presplit blasting, use of Nonel, SME (Site Mixed Emulsion) is being/will be practiced to minimize vibration, back breaks and fly rock generation.Blasting is being/will be done as per standards prescribed 		Mine Lease Area,	406 Ha	
Mining ParametersQuantitative DescriptionMethod of MiningOpencast with Shovel and dumper combination Underground: Sublevel stopping with backfillingDrilling/BlastingDrilling: Drilling is being/will be done with sharp drill bits to achieve optimum drilling performance and to reduce noise generation at source.Blasting: Blasting Islasting: Blasting techniques like presplit blasting, use of Nonel, SME (Site Mixed Emulsion) is being/will be practiced to minimize vibration, back breaks and fly rock generation.Blasting is being/will be done as per standards prescribed by DGMS Use of NONEL to control ground vibrations Monitoring of every BlastGeological Reserves91 Million Tonnes as on 01.04.2022Mineable Reserves4.51 Million Tonnes as on 01.04.2022Breakup of Total Excavation (Topsoil/OB/SB/IB/MineralChromite Ore: 2.4 million TPA No topsoil generation is envisaged during the plan period.		На		
Method of MiningOpencast with Shovel and dumper combination Underground: Sublevel stopping with backfillingDrilling/BlastingDrilling: Drilling is being/will be done with sharp drill bits to achieve optimum drilling performance and to reduce noise generation at source.Blasting: Blasting techniques like presplit blasting, use of Nonel, SME (Site Mixed Emulsion) is being/will be practiced to minimize vibration, back breaks and fly rock generation.Blasting is being/will be done as per standards prescribed by DGMS Use of NONEL to control ground vibrations Monitoring of every BlastGeological Reserves91 Million Tonnes as on 01.04.2022Mineable Reserves4.51 Million Tonnes as on 01.04.2022Breakup of Total Excavation (Topsoil/OB/SB/IB/MineralChromite Ore: 2.4 million TPA No topsoil generation is envisaged during the plan period.		Validity	2022-23 to 2024-25	
Underground: Sublevel stopping with backfillingDrilling/BlastingDrilling: Drilling is being/will be done with sharp drill bits to achieve optimum drilling performance and to reduce noise generation at source.Blasting: Blasting techniques like presplit blasting, use of Nonel, SME (Site Mixed Emulsion) is being/will be practiced to minimize vibration, back breaks and fly rock generation.Blasting is being/will be done as per standards prescribed by DGMS Use of NONEL to control ground vibrations Monitoring of every BlastGeological Reserves91 Million Tonnes as on 01.04.2022Mineable Reserves4.51 Million Tonnes as on 01.04.2022Breakup of Total Excavation (Topsoil/OB/SB/IB/MineralChromite Ore: 2.4 million TPA No topsoil generation is envisaged during the plan period.	Mining Parameters	Quantitative Descri	iption	
Drilling/BlastingDrilling: Drilling is being/will be done with sharp drill bits to achieve optimum drilling performance and to reduce noise generation at source.Blasting: Blasting techniques like presplit blasting, use of Nonel, SME (Site Mixed Emulsion) is being/will be practiced to minimize vibration, back breaks and fly rock generation.Blasting is being/will be done as per standards prescribed by DGMS Use of NONEL to control ground vibrations Monitoring of every BlastGeological Reserves91 Million Tonnes as on 01.04.2022Breakup of Total Excavation (Topsoil/OB/SB/IB/MineralChromite Ore: 2.4 million TPA No topsoil generation is envisaged during the plan period.	Method of Mining	Opencast with Sho	vel and dumper combination	
Defining is being will be derived with only pain bidto achieve optimum drilling performance and to reduce noise generation at source.Blasting: Blasting techniques like presplit blasting, use of Nonel, SME (Site Mixed Emulsion) is being/will be practiced to minimize vibration, back breaks and fly rock generation.Blasting is being/will be done as per standards prescribed by DGMS Use of NONEL to control ground vibrations Monitoring of every BlastGeological Reserves91 Million Tonnes as on 01.04.2022Mineable Reserves4.51 Million Tonnes as on 01.04.2022Breakup of Total Excavation (Topsoil/OB/SB/IB/MineralChromite Ore: 2.4 million TPA No topsoil generation is envisaged during the plan period.		Underground: Subl	evel stopping with backfilling	
noise generation at source.Blasting: Blasting techniques like presplit blasting, use of Nonel, SME (Site Mixed Emulsion) is being/will be practiced to minimize vibration, back breaks and fly rock generation.Blasting is being/will be done as per standards prescribed by DGMS Use of NONEL to control ground vibrations Monitoring of every BlastGeological Reserves91 Million Tonnes as on 01.04.2022Mineable Reserves4.51 Million Tonnes as on 01.04.2022Breakup of Total Excavation (Topsoil/OB/SB/IB/MineralChromite Ore: 2.4 million TPA No topsoil generation is envisaged during the plan period.	Drilling/Blasting	Drilling: Drilling is I	peing/will be done with sharp drill bits	
Blasting: Blasting techniques like presplit blasting, use of Nonel, SME (Site Mixed Emulsion) is being/will be practiced to minimize vibration, back breaks and fly rock generation.Blasting is being/will be done as per standards prescribed by DGMS Use of NONEL to control ground vibrations Monitoring of every BlastGeological Reserves91 Million Tonnes as on 01.04.2022Mineable Reserves4.51 Million Tonnes as on 01.04.2022Breakup of Total Excavation (Topsoil/OB/SB/IB/MineralChromite Ore: 2.4 million TPA No topsoil generation is envisaged during the plan period.		to achieve optimur	m drilling performance and to reduce	
Nonel, SME (Site Mixed Emulsion) is being/will be practiced to minimize vibration, back breaks and fly rock generation.Blasting is being/will be done as per standards prescribed by DGMS Use of NONEL to control ground vibrations Monitoring of every BlastGeological Reserves91 Million Tonnes as on 01.04.2022Mineable Reserves4.51 Million Tonnes as on 01.04.2022Breakup of Total Excavation (Topsoil/OB/SB/IB/MineralChromite Ore: 2.4 million TPA No topsoil generation is envisaged during the plan period.		noise generation at	t source.	
practiced to minimize vibration, back breaks and fly rock generation.Blasting is being/will be done as per standards prescribed by DGMS Use of NONEL to control ground vibrations Monitoring of every BlastGeological Reserves91 Million Tonnes as on 01.04.2022Mineable Reserves4.51 Million Tonnes as on 01.04.2022Breakup of Total Excavation (Topsoil/OB/SB/IB/MineralChromite Ore: 2.4 million TPA No topsoil generation is envisaged during the plan period.		Blasting: Blasting techniques like presplit blasting, use of		
generation.Blasting is being/will be done as per standards prescribed by DGMS Use of NONEL to control ground vibrations Monitoring of every BlastGeological Reserves91 Million Tonnes as on 01.04.2022Mineable Reserves4.51 Million Tonnes as on 01.04.2022Breakup of Total Excavation (Topsoil/OB/SB/IB/MineralChromite Ore: 2.4 million TPA No topsoil generation is envisaged during the plan period.				
OBlasting is being/will be done as per standards prescribed by DGMS Use of NONEL to control ground vibrations Monitoring of every BlastGeological Reserves91 Million Tonnes as on 01.04.2022Mineable Reserves4.51 Million Tonnes as on 01.04.2022Breakup of Total Excavation (Topsoil/OB/SB/IB/MineralChromite Ore: 2.4 million TPA No topsoil generation is envisaged during the plan period.				
by DGMS Use of NONEL to control ground vibrations Monitoring of every BlastGeological Reserves91 Million Tonnes as on 01.04.2022Mineable Reserves4.51 Million Tonnes as on 01.04.2022Breakup of Total Excavation (Topsoil/OB/SB/IB/MineralChromite Ore: 2.4 million TPA No topsoil generation is envisaged during the plan period.		generation.		
Monitoring of every BlastGeological Reserves91 Million Tonnes as on 01.04.2022Mineable Reserves4.51 Million Tonnes as on 01.04.2022Breakup of Total Excavation (Topsoil/OB/SB/IB/MineralChromite Ore: 2.4 million TPA No topsoil generation is envisaged during the plan period.		Blasting is being/will be done as per standards prescribed		
Geological Reserves91 Million Tonnes as on 01.04.2022Mineable Reserves4.51 Million Tonnes as on 01.04.2022Breakup of Total Excavation (Topsoil/OB/SB/IB/MineralChromite Ore: 2.4 million TPA No topsoil generation is envisaged during the plan period.		by DGMS Use of NONEL to control ground vibrations		
Mineable Reserves4.51 Million Tonnes as on 01.04.2022Breakup of Total Excavation (Topsoil/OB/SB/IB/MineralChromite Ore: 2.4 million TPA No topsoil generation is envisaged during the plan period.		Monitoring of every Blast		
Breakup of Total ExcavationChromite Ore: 2.4 million TPA(Topsoil/OB/SB/IB/MineralNo topsoil generation is envisaged during the plan period.	Geological Reserves	91 Million Tonnes as on 01.04.2022		
(Topsoil/OB/SB/IB/Mineral No topsoil generation is envisaged during the plan period.	Mineable Reserves	4.51 Million Tonnes	s as on 01.04.2022	
i i i i i i i i i i i i i i i i i i i	Breakup of Total Excavation	Chromite Ore: 2.4 million TPA		
	(Topsoil/OB/SB/IB/Mineral	No topsoil generati	on is envisaged during the plan period.	
	Rejects/ Waste, MTPA)			

	No Mineral reject generation is envisaged during the plan period as mineral (Cr ₂ O ₃) above threshold value of 10% is being used. OB generation: 16.60 million TPA
Life of mine	6 years for opencast mine
	For underground, the life of the mine is planned till 2070
Mine Bench Height & Bench	Bench height: 10 m
Width	Bench Width: 10-11m
No. of Mine Benches	16
Existing Depth, m bgl	150m
Ultimate Depth of Mining, m	180 m
bgl	
Ground Water Table, m bgl	The water table occurs at a depth of 4 m to 9 m
Details of ground water	Yes,
intersection	
Individual bench slope	< 70 deg
Overall pit slope	< 35 deg
Details of existing/ proposed	No proposal
Crusher	
Mineral Beneficiation	0.65 MTPA
RoM output size	0 mm to 150 mm
Transportation details including capacity of dumper/tipper, mode of transport and distance	The raw material is being/will be loaded and sent to the stackyard by dumpers/tippers of 30 tonne – 60 tonne capacity and Minerals being/ will be transported by truck from conc. Stack pile to ferro alloy plant by road.
Generation of Topsoil/OB & its Management during plan period & conceptual period	During the plan period 14.42 Million CuM of waste material will be generated and backfilled in OB-II quarry within an area of 50.85 ha. At conceptual stage 25.5 Million CuM of waste material will be generated and same will be used for backfilling purpose.
Generation of Mineral Rejects/ Waste & its Management during plan period & conceptual period	No topsoil generation is envisaged during the plan period. No Mineral reject generation is envisaged during the plan period as mineral (Cr2O3) above threshold value of 10% is being used.

ix. Water requirement:

Total water	3350 KLD	Fresh water		0	
requirement		Treated water		3350	
Source	Mines recycled wat	er after treatment at	ETP		
Permission for	5643 KLD	was permitted	vide	NOC	No
withdrawal/	CGWA/NOC/MIN/C	RIG/2018/3161, D	Dated 23.0	3.2018.	The
intersection along with	same NOC was vested to Tata Steel Mining Limited for two years.				
	We have already a	oplied for fresh NOC	· · ·		

details of grant and its	
validity	
Additional information	NOC for Ground Water Withdrawal from CGWA was obtained
(if any)	dated 13.03.2018. Application for Groundwater withdrawal &
	intersection was submitted to the CGWA, Vide APPI No. 21-
	4/4977/OR/MIN/2023, dated 05.05.2023

Forest Land/ Protected Area/ Environmental Sensitivity Zone Forest Land within the mine lease area and (if yes) status of Forest Clearance	Yes/No Yes	 Details of Certificate/letter issued by the concerned Department mentioning the Lr no, date of grant and remarks Forest Clearance for 73.697 ha vide letter no 8-78/96-FC dated 27.01.1998. Forest Clearance has been obtained for 404.669 ha (330.972 ha in addition to already diverted forest land 73.697 ha) vide letter no 8-15/2016-FC dated 18.05.2018. In order to incorporate the common boundary working provision in the Mine Plan, Tata Steel Limited modified the mine plan and got it duly aPProved by Indian Bureau of Mines, Bhubaneswar vide letter BBS/JJP/CR/2172/MPM/2022-23, dated 22.07.2022. An intimation of the modification in the mine plan along with the copies of the modified mine plan, was submitted to office of IRO, MoEF&CC as per the process vide letter number TSML/MD/3887/FY23. However, to be on the safe side Tata Steel limited also applied for the change in land use pattern through the Parivesh portal as per MoEF&CC OM dated 1st November 2022, vide proposal no. FP/OR/REDIV/444442/2023.
Schedule-I species (No.s and name of schedule-I species with authenticated letter)	Yes	As per authenticated list of flora and fauna from DFO Vide Memo No. 1324/5F(Misc.)/2011, dated 11.03.2011. There are two schedule-I species i.e. <i>Elephasmaximus</i> and <i>Varanusbenghalensis</i> .
Wildlife Conservation Plan	Yes	This proposal is for Amendment in EC. Conservation Plan for both schedule-I species i.e. <i>Elephasmaximus</i> and <i>Varanusbenghalensis has been prepared</i> .

x. Presence of Environmentally Sensitive areas in the study area

xi. Green belt/plantation details:

Proposed area for	During the plan period, Greenbelt/plantation will be carried out
green belt/plantation	on 10 Ha area (OB II back fill) and 25000 saplings will be
and no. of saplings	planted @ 2500 saplings per Ha.
proposed	
	At the conceptual stage, Greenbelt/ plantation will be carried
	out up to a total area of 260.32 Ha area (On Backfilled Area:
	192.47 Ha, Stabilization of waste dump: 48.17 Ha & along the
	7.5m ML Periphery: 19.68 Ha) with total number of Saplings up
	to: 6,50,800 @ 2500 saplings per Ha.
Budget for green plant &	At conceptual stage 13.01 Crore INR @ 200 per sapling.
plantation till the end of	During the plan period 50 Lakh INR @ 200 per sapling.
life of mine.	
Budget for nursery	2 Lakh INR per Year
Details of existing	About 39 ha of area was afforested and a survival rate of
plantation and its	more than 85% is achieved.
survival rate	
No. of tree cuts in the	No of trees cutting: 1375
mine lease area and	An area of 0.7 ha will be afforested @ 2500 per ha of saplings
compensatory	
afforestation	
Particulars for Green	Area covered (in Ha)
belt/plantation	
7.5 m barrier & non-	19.68 ha
mineralized zone	

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

Particulars	Details of	of Letter along	with date of grant and validity	
Consent to Establish	Vide letter no. 17750/IND-II-NOC-5664			
	Valid up to 29.09.2018			
Consent to Operate	Vide letter no. 17340/IND-I-CON-226 dated 06.11.2023			
	Valid up to 31.03.2024			
Certified Compliance Report	The PP	has submitted	the certified compliance report	
and Inspection date	issued by the Regional Office (RO), Bhubaneshwar. Site			
	visit was conducted by RO on 02.08.2023.			
Certified Production Details	S.	Month	Chrome Ore Production	
from the inception of the mine	No.		(ROM)	
(in tabular form against the EC capacity)	1.	July 2020	-	
capacity)	2.	Aug 2020	-	
	3.	Sep., 2020	-	
	4.	Oct., 2020	36596.097	

	5.	Nov., 2020	86961.984
	6.	Dec., 2020	151514.869
	7.	Jan., 2021	208300.000
	8.	Feb., 2021	237305.000
	9.	March 2021	81175.788
	10.	April 2021	190170.395
	11.	May 2021	180170.210
	12.	June 2021	112564.000
	13.	July 2021	85350.000
	14.	August 2021	78135.000
	15.	Sep., 2021	5805.000
	16.	Oct., 2021	47411.950
	17.	Nov. 2021	126132.008
	18.	Dec., 2021	145403.865
	19.	Jan., 2022	140169.141
	20.	Feb., 2022	120541.794
	21.	March 2022	128132.757
	22.	April 2022	149480.210
	23.	May 2022	160225.245
	24.	June 2022	151538.127
	25.	July 2022	108294.123
	26.	August 2022	40125.480
	27.	Sep., 2022	40546.450
	28.	Oct., 2022	50280.210
	Sourc	ce: Deputy Direc	tor of Mines, Jajpur Road Circle
iii. Court case details:			ted (Now merged with Tata Stee

Court Case, No	A case filed by Tata Steel Mining Limited (Now merged with Tata Steel		
and its present	Limited) against the penalty raised by State Government against non-		
status	compliance of mineral dispatch requirement under Mine Development		
	and Production Agreement (MDPA).		
Undertaking by PP submitted an undertaking dated 04.02.2024 stating that there			
PP w.r.t court	only one court case pending against the project i.e. case filed by Tata		
case	Steel Mining Limited(Now merged with Tata Steel Limited) against the		
	penalty raised by State Government against noncompliance of mineral		
	dispatch requirement under Mine Development and Production		

Agreement(MDPA). Beside this, no other direction /order passed by
any Court of Law against the project and/or land in which the
amendment of the project is proposed and that for any such litigation
whatsoever, the sole responsibilities will be borne by the company

xiv. Affidavit/Undertaking details:

Affidavit as per Ministry's OM dated	PP submitted an affidavit dated 27.09.2023 to
30.05.2018	comply all the statutory requirement and
	judgement of Hon'ble Supreme Court order dated
	02.08.2017 in the WPC 114 of 2014 in the matter
	of Common Cause versus Union of India & Ors.
Undertaking by PP in EIA/EMP	Not applicable, as this proposal is for amendment
report	in EC
Undertaking by Consultant in	
EIA/EMP report	
Plagiarism Certificate	

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

Activities	Capital	Recurring cost
	cost	(Lakhs/annum)
	(Crores)	
Water pollution, control, management & conservation, Air	9.6	310
pollution, control and management, Ecology and		
Biodiversity, Social Aspects (Awareness Programmes), PH		
Action Plan (CSR Activities)		

xvi. Details of project cost and employment:

Particulars	(Rs. In Crore)
Total cost of EMP (Capital Cost of EMP + capital cost of	Existing Capital cost for EMP
Public hearing)	9.6 Crore
Project Cost	Project cost is Rs. 299 Crore
Employment (No.s)	1029

3. Observation and Recommendation of the EAC:

The EAC noted that the instant proposal is for amendment in Specific Condition No. xviii of the EC dated 06.09.2013, 26.09.2023 & 11.01.2022 w.r.t to mining within 7.5 m periphery of safety zone of Mine Lease along the part of ML boundary common with adjoining lessee.

The PP has informed the EAC that initially Environmental Clearance (EC) was obtained on 06.09.2013 for enchance of production of chrome ore from 0.95 to 2.4 million TPA and Pyroxentie ore mining from 0.25 to 0.5 million TPA (ROM) and enhancement of

chrom beneficiation production from 0.1 to 0.65 million TPA (thoughput) in favour of M/s Tata Steel Limited. The first amendment was obtained on 26.09.2016 wherein wherein *"enhancement of chrome beneficiation production from .1 to 0.65 million TPA (throughput)"* was replaced with *"enhancement of chrome beneficiation production from .1 to 0.65 million TPA"*. Therafter in accordance with MMDR, Act 2015 the mine lease in the name of M/s Tata Steel Ltd. expired. The M/s Tata Steel Mining Ltd. has taken the instant lease through e-auction and same was executed on 23.07.2020. As per the lease document , the mine lease was only issued for Chromite ore block of 406 ha.

After obtaining the lease in name of M/s Tata Steel Mining Limited, the PP obtained transfer of EC 11.01.2022 from "M/s Tata Steel Limited" to "M/s Tata Steel Mining Limited" under the provisions of S.O. 2817 (E) dated 13.07.2021. PP has also submitted the online acknowledgement generated in this regard through Parivesh Portal. EAC noted that as on date the EC is in the name of M/s Tata Steel Mining Limited whereas application has been made by M/s Tata Steel Limited without transfer of EC in its name.

The PP thereafter presented the KML file and indicated the location of proposed mining site on the 7.5 m periphery of safety zone of Mine Lease which adjoins with the another ML area of M/s Jindal Stainless Ltd. The adjoing area of M/s Jindal Stainless Ltd. is having valid EC dated 04.04.2022 issued under violation category from SEIAA, Bhubaneswar. PP also informed that they have obtained the approval of IBM Bhubaneshwar on 22.07.2022 with regard to the revised mining plan for undertaking mining in the common boundary. Further PP informed that they have obtained the permissions from DGMS vide letter dated 06.06.2022 for working in common mine boundary area of two mine. The EAC also asked the PP whether a SOP has been formulated for undertaking the mining. The PP informed the committee that Standard Operating Procedure (SoP) has been already been prepared and they have signed an agreement for complying the conditions for mining upon common boundary between Sukinda Chromite Mine of M/s Tata Steel Mining Limited & Jindal Chromite mine of M/s Jindal Stainless Limited. The EAC accordingly requested the PP to submit the SOP. EAC enquired whether any Slope stability study has been undertaken by the PP. The PP informed that they have conducted a scientific study with regard to slope stability in the year 2022.

The EAC noted that the PP has submitted the certified compliance report dated 01.11.2023 after site visit conducted on 02.08.2023. The EAC observed few non compliances in CCR and accordingly, asked the PP to submit the closure report from the Regional Office.

The EAC noted stated that upon auction PP only obtained lease for mining of chromite ore accordingly, the EAC stated that PP should not exceed the permited production capacity granted vide EC dated 06.09.2013 for Chrome ore from 0.95 to 2.4 MTPA. The EAC also stated that there shall be no change in the mining methods/technologies and PP shall adhere to existing practices for the common boundary mining. The EAC asked the PP to undertake compensatory green belt development to compensate the loss in plantation due to mining in the common boundary, The PP informed

that they will plant trees in 0.88 ha of land in lieu of the area of 7.5m boundary proposed for common boundary mining.

Based on the discussions held, the EAC **deferred** the proposal for want of following additional information:

- i. The PP needs to submit the copy of approved SOP during extraction of common boundary .
- ii. PP needs to obtain transfer of EC before seeking amendment in the existing EC.
- iii. PP needs to submit scientific study of slope stablility that it undertook with regard to common boundary mining.
- iv. PP needs to submit the action taken/closure report with regard to the noncompliances in CCR.

Day 2: 21st February, 2024 (Wednesday)

2.1 Expansion of Ramco Budawada Limestone Mine for enhancement in production capacity from 1.1 to 2.5 MTPA in the mine lease area of 160.0 ha by M/s The Ramco Cements Limited located at Village Budawada, Taluk Jaggayyapeta, District NTR (Earlier Krishna), Andhra Pradesh –Reconsideration for Environmental Clearance reg. [F. No. IA-J-11015/443/2014-IA-II(NCM), Online proposal No. IA/AP/MIN/25556/2014, EIA Consultant -B.S. Envi – Tech Pvt. Ltd]

1. The instant proposal is for expansion of Ramco Budawada Limestone Mine for enhancement in production capacity from 1.1 to 2.5 MTPA along with 1200 TPH crusher in the mine lease area of 160.0 ha with by M/s The Ramco Cements Limited located at Village Budawada, Taluk Jaggayyapeta, District NTR (Earlier Krishna), Andhra Pradesh.

2. The details of the project as ascertained from the documents submitted by the PP are given as under:

- i. The proposed project activity is listed at Schedule no. 1(a) Mining of Minerals. The instant proposal attracts the general conditions as the Interstate Boundary of Andhra Pradesh Telangana is located at a distance of 1.5km, W from the mine lease area and hence appraised at the Central level.
- ii. The mine lease area is located between Latitude 16°51'17.3" N to 16°52'10.29" N and longitude 80°03'46.9" E to 80°05'31.7" E. The mine lease area falls under the Survey of India Toposheet No 65/D/1 and falls in Seismic zone-III.
- iii. Details of previous Environmental Clearance (EC):
 - a. The PP obtained EC vide letter dated 10.02.2009 for Budhwada Limestone Mine for production capacity of 1.10 MTPA over an area of 160 ha in favour of M/s Madras Cements Ltd.
 - b. Transfer of Environmental Clearance issued on 28.04.2023 from M/s Madras Cement Ltd to M/s The Ramco Cements Limited.
 - c. Amendment of EC dated 10.02.2009 has been obtained on 07.08.2023 w.r.t establishing Railway siding facility with stacker &reclaimer facility within the

Mining lease area and to permit transportation of limestone from mine to the cement plant by road as well as by railway line for Budhwada Limestone Mine (ML area 160 Ha and production capacity 1.10 MTPA).

- d. Terms of Reference (ToR) was issued on 29.07.2015 for Budhwada Limestone Mine for enhancement in production capacity of Limestone from 1.1 MTPA to 2.5 MTPA in the mine lease area of 160.0 ha by M/s The Ramco Cements Limited.
- iv. Details of previous EAC meetings:
 - a. Earlier, the proposal was considered in the EAC meeting held during 19-20th September, 2016 wherein the EAC deferred the proposal for want of requisite information. Then, the PP submitted the information on 14.09.2017 through Parivesh portal.
 - b. Further, the proposal was considered in the EAC meeting held during 23-24th October, 2017 wherein the EAC was of the view that only 10% of the production has been achieved and proposal for expansion could not be justified by the PP. The Committee also observed that the PP did not develop the green belt around the Mining lease, which is one of the conditions of the earlier EC. PP submitted that they could not develop the green belt and achieve their rated production as they did not get permission from the other nearby mining lease owners to use the area under their control to approach their mining lease and due to this the production is less. PP also submitted that they are in process of resolving the issue pertaining to approach road. Therefore, the Committee decided to defer the proposal and instructed the PP to take steps to fulfil the conditions stipulated in earlier EC and resolve the issues pertaining to approach road. Therefore, the ACOMMIT and Therefore, the PP submitted the information on 10.08.2023, 26.10.2023 and 07.11.2023 through Parivesh portal.
 - c. The proposal was further considered in the 23rd EAC meeting (Non-Coal Mining) held during 5-7th December, 2023 wherein the proposal was deferred due to the shortcommings observed by the EAC.

S.N	Prospecting	Date of the	Name of	Period of	Grante	Min
о.	License/ Letter of	grant	the	Grant	d by	е
	Intent (LoI)/ Grant		Mineral &			leas
	of Mine lease and		(Major/			е
	Lr No		Minor)			area
						in
						Ha
1	G.O.Ms.No.291,G.	30.10.2008,	Limeston	20 years	Govt.	160
	O.Ms.No.59 &	02.05.2017 &	e (Major)	and	of	Ha
	G.O.Ms.No.39	03.06.2021		extended	Andhr	
				upto 50	а	
				years as	Prades	
				per MMDR	h	

v. Details of Mine Lease in chronological manner:

	ame	endment	
	Ac	t,2015	

S. No	Details of grant of Mine Lease deed execution	Period of Grant		Name of the Mineral	Mine lease area in Ha
		From	То		
1	Proceeding.No.436/M/2001 dated 17.03.2009	17.03.2009	16.03.2029	Limestone	160 Ha
2	Proceeding No.436/M/2001 dated 01.12.2022	17.03.2009	16.03.2059	Limestone	160 Ha

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

Forest land	160 Ha
Total Mining lease area (MLA), ha	160 Ha
	Entire lease area falls under Budawada Reserve
Additional information (if any)	forest in Jaggayyapet Mandal, N.T.R district,
	Andhra Pradesh.

vii. Mining plan details:

Letter No.	AP/KSN/MP/LST-30/HYDR	
Date	21.04.2023	
Mineral & (Major/Minor)	Major	
Mine Lease Area, Ha	160 Ha	
Validity	31.03.2024.	
Quantitative Description		
Mechanized open-cast m	ining method with conventional	
deep hole drilling and bla	sting,	
Deep hole Drilling and Co	ontrolled Blasting	
215.00 million tonnes as	on 31.01.2023	
134.06 million tonnes as on 31.01.2023		
Total excavation -91.40 million tonnes.		
Limestone – 90.37 million Tonnes		
IB/SB/waste- 1.03 million	tonnes	
53 years @ 2.50 MTPA		
However the lease period	l valid upto:16.03.2059.	
Bench Height – 8 m to 9n		
Bench Width - 25 m (max	kimum)	
6 Nos		
16m		
h 48 m (17 m RL from general ground level i.e., 65 m RL		
45-60m bgl		
	Date Mineral & (Major/Minor) Mine Lease Area, Ha Validity Quantitative Description Mechanized open-cast m deep hole drilling and bla Deep hole Drilling and Co 215.00 million tonnes as 134.06 million tonnes as Total excavation -91.40 n Limestone – 90.37 million IB/SB/waste- 1.03 million 53 years @ 2.50 MTPA However the lease period Bench Height – 8 m to 9n Bench Width - 25 m (max 6 Nos 16m	

Details of ground water intersection	Grant of Permission (NOC) for water usage and to carry out mining below groundwater table and discharge of ground water obtained from Panchayat Raj & Rural Development & Administrator vide letter No. PRR05- 11028/16/2019-SLNA-GIS-CORD, dated 13.02.2021. Renewal application submitted and order awaited.
Individual bench slope	75 [°] to 80 [°]
Overall pit slope	45°
Details of existing/ proposed	Impact crusher capacity of 1200 TPH with high efficiency
Crusher	Bag filters with maximum emission rate of 30 mg/Nm ³
Mineral Beneficiation	Not Applicable
RoM output size	(-)75 mm
Transportation details including capacity of dumper / tipper, mode of transport and distance	The ROM is transported to cement plant through tippers having 30MT capacity by road. Established the railway siding along with crusher, stacker &reclaimer facility. The crushed limestone is being transported through wagons.
Generation of Topsoil/OB & its Management during plan period & conceptual period	 A quantity of 14317 cu.m waste will be accommodated in the safety barrier area with a height of 5 m in TRCL Railway siding during this plan period. Total estimated quantity of interstitial clay is 0.44 million Cu.m to achieve production of 87.50 million tonne up to the Lease period after this modification in the aPProved mining plan period. However the Total waste of 0.45 million cum quantity (including temporary dump qty. of 0.01 million Cu.m) will be accommodated in the safety barrier area with a height of 5 m in TRCL Railway siding and will be utilized for plantation in due course of time.
Generation of Mineral Rejects/ Waste & its Management during plan period & conceptual period	The generation waste will be accommodated in the safety barrier area with a height of 5 m in TRCL Railway siding area and will be utilized for plantation in due course of time.

viii. Water requirement:

Total water	200 KLD	Fresh water	200 KLD
requirement		Treated water	
Source	Initially water requirement meet from other own captive mine.		
Permission for	Grant of Permission (NOC) for water usage and to carry out		
withdrawal/ intersection	mining below groundwater table and discharge of ground water		
along with details of	obtained from I	Panchayat Raj & Rural	Development &
grant and its validity	Administrator vid	le letter No. PRR05-1102	28/16/2019-SLNA-
	GIS-CORD, dated	d 13.02.2021.	

Renewal application submitted and order awaited.

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

Particulars	Particular's Name	Distance & Directions
Village	VSP Township	1.5Km NE
Town	Jaggayyapet	4.0Km NE
Highway	NH-65(Hyderabad-Vijayawada)	7.32 Km NE
Interstate Boundary	Andhra Pradesh – Telengana Border	1.8 Km (SW)
Railway Station/Railway line	Bonakalu railway station	27Km-NE
Water Bodies	Krishna River	3.7 km – S
	Paleru River	2.2 km – E
	AntaragangaVagu	5.6 km – NW
Forest	Budawada RF	Lease area lies in Budawada RF
	Balusupadu RF	3.0 km - NW
	Jaggayyapeta Extension RF	5.3 km - E
	Venkatayapalem Extension RF	5.6 km - SE

x. Presence of Environmentally Sensitive areas in the study area

Forest Land/ Protected	Yes/No	Details of Certificate/letter issued by the concerned
Area/ Environmental	100,110	Department mentioning the Lr no, date of grant and
Sensitivity Zone		remarks
Forest Land within the	Yes	Final Forest clearance under FC Act 1980 for entire
	162	
mine lease area and (if		lease area of 160.00 ha obtained from Ministry of
yes) status of Forest		Environment and Forest (FC division) vide
Clearance		clearance no.8-56 / 2005-FC, dated 22.12.2011 for
		Mining of Limestone.
National Park	No	-
Wildlife Sanctuary	No	-
Elephant/Tiger Reserve	No	-
Eco-Sensitive Zone(ESZ)	No	-
/Eco-Sensitive Area (ESA)		
Coastal Regulation Zone	No	-
(CRZ)		
Schedule-I species (No.s	No	-
and name of schedule-I		
species with authenticated		
letter)		
Wildlife Conservation Plan	Yes	Wildlife Conservation Plan has been submitted by
		the PP and is under process fo approval.

xi. Green belt/plantation details:

Proposed area for green	3.50 Ha. Area covered with plantation. However 1000		
belt/plantation and no. of	saplings proposed for gap filling for the year 2024-2025.		
saplings proposed			
Budget for green plant &	5 lakhs per annum.		
plantation till the end of life			
of mine.			
Budget for nursery			
Details of existing	Presently about 3.50 Ha of the lease area is developed with		
plantation and its survival	plantation. So far, about 9930 saplings have survived in the		
rate	peripheral safety zone, approach road have been planted		
	within the lease area. And survival rate is 85%		
No. of tree cuts in the	A quantity of 769.122 Cu.M. Misc. fuel from extraction of tree		
mine lease area and	growth an extent of 160 Ha of forest land, Extracted by forest		
compensatory	department themselves.		
afforestation	An amount of 2.83 cr. paid towards compensatory		
	afforestation scheme to the forest department wide Demand		
	Draft No.240763, Dated 26.06.2010		
Particulars for Green	Area covered (in Ha)		
belt/plantation			
7.5 m barrier & non-	3.5 Ha. for barrier and no non-mineralised area available		
mineralized zone	within ML.		

xii. Baseline detail:

Baseline Data (Air / Water / Noise / Soil / Hydro geological study/ Traffic Study/ others)		
Period of baseline data	eriod of baseline data December 2014 to February 2015	
collection	Fresh data collected: December 2023	
Season (Summer / Pre-	Winter Season 2014-15	
monsoon / Post-monsoon /	Fresh data collected: Winter Season 2023	
Winter)		
Predominant Wind direction	NNW-N-NNE Direction	
(From)		
Ambient Air Quality (no. of	AAQ Parameters at 08 Locations	
locations) and results	Winter Season 2014-15:	
	PM10 = 30.1 to 66.0 μg/m ³	
	PM2.5 = 17.1 to 39.7 μg/m ³	
	SO2 = 9.0 to 14.5 μg/m ³	
	NO2 = 6.0 to 13.3 μg/m ³	
	CO: less than 1 PPm	
	December 2023:	
	PM10 = 40.9 to 70.3 μg/m ³	
	PM2.5 = 19.8 to 32.8 μg/m ³	
	SO2 = 10.3 to 16.3 μg/m ³	

	NO2 = 11.3 to 17.2 μg/m ³
	CO: less than 1 PPm
Noise level (no. of locations)	Noise Levels At 9 Locations
and results	Winter Season 2014-15:
	Day time:
	 Core zone: 62.6 dB (A);
	✤ Buffer Zone:50.8 to 53.5 dB (A)
	Night time:
	✤ Core zone 57.2 dB (A);
	✤ Buffer Zone:41.3 to 44.1 dB (A)
	DECEMBER 2023:
	Day time:
	 Core zone: 71.2 dB (A);
	✤ Buffer Zone:50.6 to 53.6 dB (A)
	Night time:
	Core zone 64.5 dB (A);
	✤ Buffer Zone:40.8 to 44.2 dB (A)
Water Quality (no. of	Ground Water Quality At 08 Locations
locations) and results	Winter Season 2014-15:
	✤ pH = 7.48 - 8.28
	✤ Total Hardness = 220 - 457 mg/l
	Chlorides = 63 - 233 mg/l
	Fluoride = 0.36 – 1.1 mg/l
	Heavy Metals (Zinc) = <0.02 – 0.2 mg/l
	December 2023:
	✤ pH = 7.36 – 7.90
	✤ Total Hardness = 250 - 480mg/l
	Chlorides = 75 - 250 mg/l
	✤ Fluoride = 0.5 – 1.14 mg/l
	Heavy Metals (Zinc) = <0.02 – 0.2 mg/l
	Surface Water Quality At 07 Locations
	Winter Season 2014-15:
	✤ pH: 7.19 to 8.29;
	Total Hardness = 242 - 442mg/l
	Chlorides = 75 - 249 mg/l
	✤ Fluoride = 0.32 – 1.11 mg/l
	✤ Heavy Metals (Zinc) = <0.02 – 0.2 mg/l
	December 2023:
	✤ pH = 7.6 - 8.16
	Total Hardness = 230 - 310mg/l
	Chlorides = 70 - 113 mg/l
	✤ Fluoride = 0.72 – 0.95 mg/l
	✤ Heavy Metals (Zinc) = <0.02 – 0.2 mg/l

	Cail Quality 0 Lagations	
Soil Quality (no. of locations)	-	
and results	Moderate fertility	
	Winter Season 2014-15:	
	 pH Value of 1:2 aqueous extract Solution - 8.12 – 	
	8.39	
	• E.C, mS/cm of 1:2 aqueous extract Solution – 0.19 –	
	0.545	
	 Mineralized Nitrogen (Available Nitrogen), kg/ha - 7 	
	24	
	 Available Phosphorous as P2O5, kg/Ha – 16-42 	
	 Available Potassium as K2O, Kg/Ha – 160-340 	
	• Organic Carbon, % - 0.12-0.7	
	December 2023:	
	• pH Value of 1:2 aqueous extract Solution - 8.06-8.27	
	 E.C, mS/cm of 1:2 aqueous extract Solution – 0.204 	
	0.43	
	 Mineralized Nitrogen (Available Nitrogen), kg/ha - 12 	
	-32	
	 Available Phosphorous as P2O5, kg/Ha – 21-74 	
	 Available Potassium as K2O, Kg/Ha – 316-512 	
	• Organic Carbon, % - 0.4-0.64	
Hydro geological study and	Safe Category	
results		
Traffic study (no. of	None -The transportation of limestone from the mining	
locations) and results	lease to the cement plant by railway wagon, for which EC	
	amendment is obtained.	

xiii. Public Hearing (PH) Details:

3 ()			
Advertisement for PH with date	23.03.2016		
(name of major national daily	"Indian Express" (English News Paper) and "Sakshi"		
and one regional vernacular	(Telugu News Paper).		
daily newspaper)			
Date of PH	26.04.2016		
Venue	Proposed Enhanced Mine lease Area, Ramco		
	Budhwada Limestone Mine, Jaggayyapet Village,		
	Jaggayyapet Mandal, NTR (earlier Krishna) District,		
	Andhra Pradesh.		
Chaired by	Sri Ch.Rangayya		
	Chairman District Revenue Officer And Additional		
	District Megistrate, Krishna District, AP.		
Main issues raised during PH	Preference to be given for local educated villagers.		
	for employment in the industry.		

	Management to carryout mining operations without
	causing air, water and noise pollution. Latest
	equipment and machinery shall be utilized during
	mining operations for control the pollution control
	Management to develop the Green Belt programme
	in the project area surrounding villages
	> The industry to develop Budawada village on par
	with Jayanthipuram.
	> Supply of drinking water through RO plants to
	surrounding villages
	Skill development programmes are to be
	implemented under CSR activities. Apprenticeship,
	Project work, Trainings shall be given to local
	educated youth and provide placements to eligible
	candidates.
	> The Management for the co-operation in
	development of Jaggayyapeta Hospital and to
	adopt the hospital and provide necessary facilities.
Budget proposed for addressing	TRCL has spent amount of Rs. 188.14 Lakhs towards
issues raised during PH over 3	implementation of Public Hearing Commitments for the
years	period 2020 to 2023.
	However an additional amount of Rs.80 lakhs has been
	earmaked for the same in the next two years to come.

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

Particulars	Details of Letter along with date of grant and validity	
Consent to Establish	CTE obtained vide letter No. 285/PCB/CFE/RO-	
	VJA/HO/2009-69, Dt.08.04.2010.	
	Amendment CTE order No. 285/APPCB/CTE/RO-	
	VJA/HO/2023 dated 06.10.2023.	
Consent to Operate	Consent for Operation (Combined CFO) issued by the State	
	Pollution Control Board for production of 1.10 MTPA of	
	Limestone, vide order No. APPCB/VJA/VJA/488/	
	HO/CFO/2021, dated 07.11.2022 which is valid up to	
	31.01.2028.	
	Amendment CTO order No. APPCB-11022/134/2021-TEC-	
	CFO-APPCB dated 24.01.2024.	
Certified Compliance	Certified EC compliance obtained from MoEF&CC,	
Report and Inspection date	Regional office, Vijayawada vide file No. SO/VIJ/EPA/EC-	
	A/101/05-86/2023 and 15.06.2023	

Certified Production Details	Authenticated past production details issued by District
from the inception of the	Mines and Geology Officer, NTR District, Department of
mine (in tabular form	Mines & Geology dated 07.12.2023 been submitted by PP.
against the EC capacity)	

	xv.	Rehabil	tation a	& Rese	ttlen	nent	(R&	R):	
_				-					

R & R details	PP has submitted that no R&R issues related to the ML area.

xvi. Court case details:

Г

XVI. Court case		
Court Case, No	With regards to mineral transportation in a small stretch of land	
and its present	owned by Rashtriyalspat Nigam Limited (RINL), writ petition was filed	
status	by RINL and its details are as follows:	
	Writ. No. 5066 of 2019, dt.10.04.2019.	
	• RINL filed writ petition on 10.04.2019 against Govt. of Andhra	
	Pradesh and TRCL. The High Court of Andhra Pradesh issued	
	the order on 25.04.2019 for suspension of Memo No.	
	11031/M.III(2)/2013, Dt. 23.05.2018 and further memo No.	
	11031/M.III(2)/2013, Dt. 23.01.2019.	
	1100 f/m.m(2)/2010, Dt. 20.01.2019.	
	Lien'hie AD Lligh Court was placed to diamics the writ patition	
	Hon'ble AP High Court was pleased to dismiss the writ petition	
	filed by RINL on 14.06.2021 after hearing all the parties and also	
	was pleased to vacate the interim stay granted in the matter.	
	RINL Writ Appeal No. 424 of 2021, dt.15.07.2021 against the	
	judgment of writ. No. 5066 of 2019, dt.10.04.2019.	
	• The above appeal was heard on 22.07.2021 and Honbl'e Chief	
	Justice Bench has issued the orders to stop operations on road	
	and maintain the "Status Quo" in this matter till the next date of	
	hearing.	
	Status Quo is maintained in RINL land. Presently an alternative	
	transport route which is of a greater distance is being utilized.	
	Indertaking details:	
Affidavit as per	Ministry's OM dated PP has submitted an affidavit dated	

Affidavit as per Ministry's OM d	ated	PP has submitted an affidavit dated
30.05.2018		10.02.2024 stating that all the statutory
		requirements and judgements of the
		Hon'ble Supreme Court dated 2 nd Aug 2017
		in WPC 114 of 2014 in the matter of
		Common Cause vs Union of India and ors
		shall be complied.
Undertaking by PP in EIA/EMP report		Not applicable as the proposal is for EC
		Amendment.

xviii. Detail of Additional Detail Sought:

The instant proposal was earlier considered in the 23rd EAC meeting(Non-Coal Mining) held during 5-7thDecember, 2023 wherein the committee deferred the proposal due to some requisite information. The PP has submitted their reply on the Parivesh portal vide letter dated 16.01.2024. Further, Ministry raised ADS on 25.01.2024 and reply has been submitted on 01.02.2024. The ADS points and the reply of PP are as follows:

S	ADS Point	Reply by PP
5	ADS I UIII	Керіу бу ГТ
N		
0		
	S datad 25 01 2024	
	S dated 25.01.2024	
1	The matter has been examined in the Ministry and it is found that the PP has carried out the revalidation of baseline data only for ambient air quality. Hence, the PP is requested to submit the revalidation of baseline data for noise level, water quality and soil quality with the comparison of both old and new data along with certified test reports.	The baseline data for ambient air quality, noise level, water quality and soil quality is being submitted with the comparison of both old and new data along with certified test reports.
AD	S dated 18.12.2023	
1	The PP needs to	The PPT is being updated as per current status
	revise the information	5 1 1
	and data in the	
	technical	
	presentation as per	
	the current scenario.	
2	The PP needs to	The baseline data has been Revalidated for December 2023
-	revalidate the	and is submitted by PP.
	baseline data for one	
	month considering	
	the expansion	
	scenario and submit	
	the comparison of	
	both old and new	
	data.	
	uala.	

3	The PP needs to	The Authenticated production details upto September 2023
5	submit the	has been submitted by PP
	authenticated proof	
	for achieved	
	production of more	
	than 5,00,000 Metric	
	Tonnes in the FY	
	2023-24.	
4	The PP needs to	The location of mines with respect to Tiger Reserves and
	verify from the	Tiger corridors as per DSS of NTCA has been submitted.
	Decision Support	The Mine lease is not part of any tiger corridor/ reserves.
	System (DSS)	
	available from the	
	National Tiger	
	Conservation	
	Authority (NTCA)	
	website clarifying that	
	whether instant mine	
	lease area is a part of	
	the tiger corridor and	
	whether the	
	transportation route	
	passing through the	
	tiger dispersal route.	
5	The PP needs to	The Revised and the updated Authenticated list of Flora and
	submit the revised list	Fauna is submitted. The wildlife conservation plan was
	of authenticated flora	submitted to Chief Wildlife Warden, Govt. of A.P, Forest
	and fauna in	Department and acknowledgement was obtained on
	reference to the Wild	29.12.2023.
	Life (Protection)	
	Amendment Act,	
	2022 and shall submit	
	the proof of the	
	submission of	
	aPPlication of Wildlife	
	Conservation Plan	
	made to the Chief	
	Wildlife Warden	
	along with the	
	activities proposed	
	under Wildlife	
	Conservation Plan.	

6	The PP needs to	The Layout plan consisting of Railway line, stock yard,				yard,	
	submit the layout of	loading point, crusher is Submitted. The Preventive measure					•
	crusher and the		taken for Noise control and Dust suppression is submitted.				
	preventive measures						
	taken for noise						
	control and dust						
	suppression.						
7	The PP to submit the				n the Public H	•	•
	action plan to		•		itus of impleme		
	address the concerns	RC	L has spent	amoun	it of Rs. 188.	14 Lakhs tov	wards
	raised during public	imp	lementation c	of Publi	ic Hearing Co	mmitments fo	r the
	hearing over a period	per	iod 2020 to 2	2023. I	PP has earma	irked an addi	tional
	of 3 years and status	am	ount of Rs.80	lakhs t	for completing	the commitme	ent of
	of implementation if	Pub	olic Hearing in	the nex	t two years as i	mentioned belo	ow:
	any.		0				
		S	Activity		Year		
		No.	, loting		2023-2024	2024-2025	Tota
							I
		1	Developme	Physic			-
		1	nt of	alNo.			
				anno.			Da
			Jaggayyape				Rs.
			t & nearby	Village			48.1
			Hospitals				lakh
							S
				Budge			
				t Rs			
				Lakh			
		2	Conducting	Physic			
			free medical	alNo.			
			camps in	Village	Surrounding	Surrounding	
			surrounding	s	5	5	
			villages &		Rs.12.0 lakh	Rs.12.0 lakh	Rs.
			free	Budge			39.1
			medicines	t Rs			7
			medicines	Lakh			' lakh
		2	Conducting			Quatarinarya	
		3	Conducting	Physic		2veterinaryc	
			eye testing	alNo.	0	amps	
			camps &	-	Surrounding	Surrounding	
			veterinary	S			
			camps	-	Rs. 1.0 lakh	Rs. 1.0 lakh	Rs.
				t Rs			2.4
				Lakh			lakh
		4	Supply of	Physic			

	12.12	. 18-1			1
	drinking	alNo.			
	water				
	through RO	Village			_
	plants to				Rs.
	surrounding	Budge			18.1
	villages	t Rs			8
		Lakh			lakh
5	Domestic	Physic			
	water supply	alNo.			
	schemes and				
	pipe	Village			
	networks	village			Rs.
	TIE WOIKS	Budge			
		t Rs			24.4
		Lakh			5
					lakh
6	Providing	Physic			
	saplings to	alNo.			
	villages &	Village			
	tree guards	Budge			Rs.
		t Rs			2.75
		Lakh			lakh
7	Skill	Physic	Nearly	Nearly	
	development	-	40students	40students	
	programmes		Surrounding	Surrounding	
	under	S	Currounding	Currounding	
			Rs. 25 lakh	Rs. 25 lakh	Rs.
	Apprenticesh			RS. 20 IAKI	
	ip, Project	Budge			125.
	work,Trainin	tRsLa			3
	gsshallbegiv	kh			lakh
11	اممامه ماماس	1	1		
	entolocaledu				
	catedyouth				
8		Physic	680	680	
8	catedyouth	Physic alNo.	680	680	
8	catedyouth Admission to	alNo.			
8	catedyouth Admission to local students in	alNo. Village	680 Surrounding	680 Surrounding	
8	catedyouth Admission to local students in company	alNo. Village s	Surrounding	Surrounding	Rq
8	catedyouth Admission to local students in	alNo. Village s			Rs.
8	catedyouth Admission to local students in company	alNo. Village s Budge t	Surrounding	Surrounding	7.84
8	catedyouth Admission to local students in company	alNo. Village s Budge t Rs	Surrounding	Surrounding	
	catedyouth Admission to local students in company school	alNo. Village s Budge t Rs Lakh	Surrounding Rs.2lakh	Surrounding Rs.2lakh	7.84 Iakh
8	catedyouth Admission to local students in company school	alNo. Village s Budge t Rs Lakh Physic	Surrounding Rs.2lakh RCL will	Surrounding Rs.2lakh coordinate	7.84 lakh with
	catedyouth Admission to local students in company school School	alNo. Village s Budge t Rs Lakh Physic alNo.	Surrounding Rs.2lakh RCL will Government a	Surrounding Rs.2lakh coordinate	7.84 lakh with
	catedyouth Admission to local students in company school	alNo. Village s Budge t Rs Lakh Physic alNo.	Surrounding Rs.2lakh RCL will	Surrounding Rs.2lakh coordinate	7.84 lakh with
	catedyouth Admission to local students in company school School	alNo. Village s Budge t Rs Lakh Physic alNo.	Surrounding Rs.2lakh RCL will Government a	Surrounding Rs.2lakh coordinate	7.84 lakh with
	catedyouth Admission to local students in company school School	alNo. Village s Budge t Rs Lakh Physic alNo. Village	Surrounding Rs.2lakh RCL will Government a	Surrounding Rs.2lakh coordinate	7.84 lakh with

						1					
					tRsLa						
					kh .						
			Constru		Physic		-	is	construc		with
			of bridg	· .					funds a		made
			from Re	eddy	Village	ava	ilable	in th	e year 20	19.	
			naik		S						
					Budge						
			Thanda	atoJag	tRsLa						
			gayyap	et	kh						
						56.	5 78.0	53.5	4 40		
						3	4	7	0		
			TotalAr	nount S	pent	188	3.14		-		
			So far		•						
				nt Propo	sed in	nex	t two \	/ears	80		
8	The PP needs to	PP							roject cos	t of	Rs 4 0
0	submit the breakup of			0 lakh) a			•		•		113 4.0
	the project cost of Rs								: Capital	cost	from
	4.0 Cr.			0 MTP		Une		(111)	. Capitai	CUSI	nom
	4.0 01.	1.1	0 10 2.5		1						
		Typ	be of	Capaci	t Existir	ng	Additic	onal	Fotal	Cos	Total
			chinery	-		-			equireme	et	cost
			•	each	ry		ot from	n r	nt of		in
				unit	-		1.1 to	2.5	Machinery	/uni	Lakh
					1.10		MTPA	f	or 2.5		Rs.
					MTPA	۱			MTPA	lak	(from
								ľ		h	1.1
										Rs.	
											to 2.5
											MTP
											A)
				0.0	4		4		<u>, </u>	00	00
			ckhoe		1		1	4	2	90	90
			cavator	Cu.m							
		s-S	k 380								
		Bad	ckhoe-	1.1Cu.	1		0		1	0	0
			_	m	•		0			Ŭ	Ŭ
		220									
		220	,								
		TiP	Pers	30 MT	6		3	Ş)	60	180
		Wa	igon	115	1		0		1	0	0
			0	mm dia			-			Ĩ.	- I
			mpress								
			1101033								
		or								1	

		Cabin Drill with 550 cfm compress or	115 mm dia	0	1	1	90	90
		Bull Dozer		1	0	1	0	0
		Rock breaker	20tonn es	0	0	0	0	0
		Water ranker	10 KL	1	0	1	0	0
		Jeep		1	0	1	0	0
		BMD Truck	6 Tonne	0	1	1	40	40
		Total	1	12	6	18		400
9	The PP needs to submit the latest complete approved mining plan in Parivesh portal.	PP has sub 21.04.2023 (Reserved extent of Mandal, Ki	3 in re Forest) 160.00 ł	spect of of M/s th na. in of	Budawao e Ramco (Budawada	da Limest Cements L a R.F, Jag	one td. o	Mine ver an
10	The PP needs to submit the closure report issued by the Sub-Office for the partially complied conditions.	PP has submitted the letter dated 12.01.2024 of sub-regional office of the Ministry at Vijaywada wherein PP has been asked to expedite the submission of Wildlife Conservation Plan to Govt. of AP and Ministry. To include SPM in the fugitive emission monitoring parameters. Thus closure report is yet to be obtained.						
11	The PP needs to submit the copy of NoC obtained for abstraction of Groundwater.	PP has submitted the NoC for abstraction of Groundwater vide letter dated 13.11.2021 and valid for three years from the date of issuance.						

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

	Carital cost	Desurringer
Activities	Capital cost	Recurring
	(Crores)	cost(Lakhs/annum)
	, ,	,
Air, Water and Noise pollution Control	0.2275	2.60
Occupational Health	0.005	0.30
Env. Monitoring and Management	0	1.50

Reclamation Borrow/Mined area and)	0.50	
Greenbelt			
Total).2325	4.90	
xx. Details of project cost and employr	nent:		
Particulars	(Rs. in Crore)		
Total cost of EMP (Capital Cost of EMP + capital	l 2.9139	2.9139	
cost of public hearing)			
Project Cost	4.0		
Employment (No.s)	55 (total, inclusive	e of 17 Nos. with this	
	expansion project)	

3. Obbservation and Recommendation of the EAC:

EAC during the deliberations asked the PP/EIA Consultant to present the KML file for showing the features of the Mine lease area including the features of their vicinity. The PP presented the KML file and showed the boundary and adjacent area of the mine lease. Thereafter, PP presented the reply of the additional details sought by the EAC in its meeting held during 5-7thDecember, 2023. The PP has presented the revalidated baseline data for the month of December, 2023 and found the important air quality elements such PM10, PM2.5, SO2, No2 and CO are within the permissible limit as per the NAAQ standards for Industrial, Residential, Rural and Other areas. The comparison of old and new data too were showcased by the PP with regard to the prevalent air quality.

PP submitted the authenticated past production capacity from the year 2009-10 to September 2023-24 and the production capacity in the year 2023-24 is 7,55,632 MT (till September 2023). As per the decision support system for National Tiger Conservation Authority (NTCA) the Mine lease area is not the part of any tiger corridors/reserves. The nearest Tiger reserves / Corridor is at distance of 68.69 Km - WSW direction i.e. Amrabad Tiger Sanctuary.

The PP has obtained the revised and updated authenticated list of Flora and Fauna on 21.12.2023 as per Wild Life (Protection) Act 1972 and its subsequent amendment in 2022. The Wildlife conservation plan was submitted to ChiefWildlife Warden, Govt. of A.P, Forest Department vide acknowledgement dated 29.12.2023. PP has also submitted the layout of crusher and the preventive measures for noise control and dust suppression.

PP has addressed the concerns raised during public hearing over a period of 3 years and submitted their implementation status after spending Rs. 188.14 lakh for the period of 2020 to 2023 and an additional amount of Rs. 80 lakhs has been earmaked for the next two years. The bearkup of project cost of Rs. 4.0 Cr has been submitted by the PP.

Further PP stated that the mining operations are being carried out as per MOEFCC, IBM and DGMS norms implementing all pollution control measures to mitigate dust emissions during mining like drilling operationsby wet drilling technique. Mobile water sprinklers are used on haul roads to control fugitive dust emissions. Committee also discussed the court case and its current status along with the issue of mineral transportation in a small stretch of land owned by M/s Rashtriyalspat Nigam Limited (RINL). PP informed that approach road issue is pending at court. A writ petition was filed by RINL Writ. No. 5066 of 2019, dt.10.04.2019 against Govt. of Andhra Pradesh and TRCL. The High Court of Andhra Pradesh issued the order on 25.04.2019 for suspension of Memo No. 11031/M.III(2)/2013, Dt. 23.05.2018 and further memo No. 11031/M.III(2)/2013, Dt. 23.01.2019. Hon'ble AP High Court was pleased to dismiss the writ petition filed by RINL on 14.06.2021 after hearing all the parties and also was pleased to vacate the interim stay granted in the matter. RINL went for appeal against the same judgment in Writ No. 424 of 2021, dt.15.07.2021. The appeal was heard on 22.07.2021 and Honbl'e Chief Justice Bench issued the orders to stop operations on road and maintain the "Status Quo" in this matter till the next date of hearing. Presently an alternative transport route which is of a greater distance is being utilized.

Based on the above, EAC **recommended** the proposal for grant of Environmental Clearance for RamcoBudhwada Limestone Mine for enhancement in production capacity from 1.1 to 2.5 MTPA along with 1200 TPH crusher in the mine lease area of 160.0 ha by M/s The Ramco Cements Limited located at Village Budawada, Taluk Jaggayyapeta, District NTR (Earlier Krishna), Andhra Pradesh under provisions of EIA Notification, 2006 and its amendments therein with following additional specific conditions in addition to the standard EC conditions applicable for Non-coal mining projects:

Specific Conditions:

- i. PP shall obtain CTE/CTO from State Pollution Control Board for 2.5 MTPA production capacities for Limestone mine.
- ii. The Project Proponent needs to ensure that the machinery requirement/capacity shall match with the proposed expansion production capacity so as to avoid the sudden increase in pollution load.
- iii. PP shall ensure the compliance of expenditure to be incurred for wildlife conservation plan submitted to the State Govt. and the details expenditure shall be submitted with six monthly EC compliance report to Ministry's Sub-Regional Office.
- iv. The Project Proponent needs to explore the possibility of using advanced/ latest mining technologies available so as to minimize the ecological impacts.
- v. PP shall dissipate the noise from the mining operations within the mining lease area. PP shall provide ear muffs to all mine workers to avoid health implications and PP shall limit the exposure time of workers to excessive noise.
- vi. 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.
- vii. PP shall transport the limestone from the Mine lease to cement plant by the dedicated railway wagon.
- viii. The Continuous Ambient Air Quality Monitoring Stations (CAAQMS) shall be installed and commissioned in consultation with CPCB. 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, and at other sensitive receptors and such collected data shall be submitted quarterly to the Ministry's Regional Office
- x. The Project Proponent needs to complete the entire peripheral plantation under green belt, safety barrier plantation and gap 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 Regional Office.
- xi. The Project Proponent needs to take adequate control measures to arrest the fugitive dust arising from the crusher at the source itself. The dense plantation shall be carried out in the vicinity of the crusher. 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.
- xii. PP shall install 4 Nos. of RO plants for uninterrupted supply of drinking water to the nearby villages DP Thanda, Jayanthipuram, Ravirala&Nawabpet and submit a report with photographs to Sub-Regional Office, MoEF&CC
- xiii. PP shall submit the status of Oxygen plant constructed at Jaggayyapet Community Health Centre as well as the Ambulance facility that has been extended for the near villagers to the Sub-Regional Office, MoEF&CC.
- xiv. The Project Proponent needs to make provision for permanent water sprinklers instead of water tankers. About, 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. The Project Proponent needs to put effort to reduce water consumption by 30%.
- xv. PP shall submit the log-book detail of patient & doctors visited to established medical camps in nearby villages and amount of medicines supply to Sub-Regional Office,MoEF&CC.
- xvi. 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 as committed before the EAC.

- xvii. PP shall implement the activities-wise proposed budget for Public Hearing Budget of Rs. 80 Lakh as proposed before the EAC in time bound manner. The details of annual expenditure incurred shall be part of report to be submitted to Sub-Regional Office, MoEF&CC. PP needs to include the audited figures against the expenditure and activities to be monitored by through dedicated monitoring mechanism. The maintenance of all activities shall be covered through recurring cost of Public Hearing, and continued as a part of CSR budget.
- xviii. PP shall create a "Public Grievance Redressal and Monitoring System" for resolving any issues related to the pollution of mines and complaint has to resolve as soon as possible not beyond 30 days. In this regard, adequate awareness to be spread among the public to address their grievance to company with simple and easy manner and for which company needs to devise the mechanism. The same shall be reported to Sub-Regional Office within 3 months. A logbook to be maintained by PP on "Public Grievance Redressal and Monitoring System."
 - xix. 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.
 - xx. 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 noncompliance or infringement should be reported to the concerned authority.
- xxi. The Project Proponent shall explore the possibility of using atleast 20% of Electric vehicles/CNG/Solar instead of diesel operation within three years.
- 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.
- xxiv. The Project Proponent shall periodically maintain the garland drains, retaining wall and other water management structures in the mine lease area.

2.2 Mevasa Bauxite (Aluminous Laterite) mine with production capacity of 1,49,248 TPA in the mine lease area of 8.7305 ha by M/s Patel Kaushik Kumar located at Village

Mevasa, Taluka Kalyanpur, District Devbhumi Dwarka, Gujarat – For Reconsideration of Terms of Reference (ToR) reg.

[F.No. J-11015/36/2022-IA.II(M), Proposal No. IA/GJ/MIN/289746/2022, EIA Consultant - M/s Patel Kaushik Kumar]

1. The proposal is for Terms of Reference (ToR) for Mevasa Bauxite (Aluminous Laterite) mine with production capacity of 1,49,248 TPA (RoM) in the mine lease area of 8.7305 ha by M/s Patel Kaushik Kumar located at Village Mevasa, Taluka Kalyanpur, District Devbhumi Dwarka, Gujarat.

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

- i. The mine lease area is located between Latitude: 22°15'6.86" N to 22°15'22.03" N & Longitude: 69°17'51.10"E to 69°18'7.59" E. The mine lease area falls under the Survey of India Toposheet No: F42 J08 and falls in Seismic Zone IV.
- 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 proposal attracts the general conditions as the Protected areas notified under the wildlife (Protection) Act, 1972 i.e., Marine Sanctuary, Gulf of Kutch, Devbhumi Dwarka is located ~1.267 km from the mine lease area and appraised at the Central level.
- iii. The proposal was earlier considered in the 4th EAC (Non-Coal Mining) meeting held during 28-29 September, 2022 wherein the EAC noted that the PP vide email dated 17.09.2022 sought deferment stating that the PP was not in a position to present themselves due to unforeseen circumstances. Therefore, the EAC deferred the proposal as per the request of the PP.
- iv. The PP vide letter dated 30.01.2023 requested to the Ministry for enlisting the proposal in the upcoming EAC meeting and accordingly the proposal was reconsidered in the 11th EAC (Non-Coal Mining) held during 1-2 March, 2023 wherein the committee seeks the information related to the authenticated document/map from the Forest Department regarding the distance of the Eco-Sensitive Zone(ESZ) from the mine lease area due to close proximity of Eco-Sensitive Zone(ESZ). The EAC also opined that the Ministry may seek comments from the ESZ Division of the Ministry, therefore the Project was deferred for submitting the required additional information.Later on, the project was relisted and subsequently ADS reply submitted online on 25.01.2024 for appraisal in the 27th EAC meeting held during 20-21st February, 2024.
- v. Details of Mine Lease in chronological manner:

S.	Prospecting	Date of the	Name of the	Perio	Granted	Mine
Ν	License/ Letter of	grant	Mineral &	d of	by	leas
ο	Intent (LoI)/ Grant of		(Major/Minor)	Grant		е
	Mine lease and Lr					area
	No					in Ha

1	Letter of Intent (LoI)-	30.06.2021	Bauxite	Valid	Industries	8.73
	Order no.		(Aluminous	for 3	& Mine	05
	MMR/102021/BLK/		Laterite),	years	Departme	
	534113/CHH1		Major	from	nt,	
				the	Gandhina	
	Letter of Intent for			date of	gar,	
	grant of mining			issuan	Gujarat	
	lease in pursuant to			ce.		
	Rule 10 (2) of the					
	Mineral (Auction)					
	Rules, 2015 and this					
	Letter of Intent is					
	valid for a period of					
	3 years from the					
	date of its issuance.					

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

Private land	Yes
Total Mining lease area (MLA), ha	8.7305

vii. Mining plan details:

vii. Wiiming plan dotailo.				
Mining Plan including	Letter No.	File No. 684(4)(1)/MP-		
Progressive Mine Closure		401(370)/2021-22/GNR/160 Dated		
Plan (approved by Indian		12.04.2022 by IBM, Office of		
Bureau of Mines/DMG)		Regional Controller of Mines,		
		Gandhinagar, Gujarat		
	Date	12.04.2022		
	Mineral &	Bauxite (Aluminous Laterite) (Major)		
	(Major/Minor)			
	Mine Lease Area, Ha	8.7305		
	Validity	For a period of 5 years from the date		
		of execution of mine lease deed		
Mining Parameters	Quantitative Description	on		
Method of Mining	Open cast semi mecha	anized mining		
Drilling/Blasting	N/a			
Geological Reserves	9,94,498 Tonnes			
Mineable Reserves	6,95,530 Tonnes			

Breakup of Total Excavation (Topsoil/OB/SB/IB/Mineral Rejects/ Waste, MTPA)	S.No.	Year	Total Handling (T)	Mineral Waste Quantity (T) Grade:	ROM Quantity (T)	ROM Quantity Saleable Mineral (t)
				20 %		
		let	444700	AI2O3	47455	47455
	1	I st	114780	67325	47455	47455
	2	IIIrd	184472	127219	57253	57253
	3	III ^{ra} IV th	124157	65775	58382 84246	58382
	4	V th	297577	213331		84246
	5 To	•	268762	119514 593164	149248	149248 396584
	10	เสเ	989748	595104	396584	390304
	Top Soi	I (CUM	1): 5066			
Life of mine	5 years	·				
Mine Bench Height &	5 m & 5					
Bench Width						
No. of Mine Benches	3					
Existing Depth, m bgl						
Ultimate Depth of Mining,	22.44					
m bgl						
Ground Water Table, m bgl	28					
Details of ground water	None					
intersection						
Individual bench slope	75 ⁰					
Overall pit slope	45 ⁰					
Details of existing/						
proposed Crusher						
Mineral Beneficiation						
RoM output size			-Maximum o	<u> </u>	,	
Transportation details	-	•	nent submit			
including capacity of			the end u	-	· ·	-
dumper/tipper, mode of			gh NH 947		-	tal distance
transport and distance			is 1.658 Kr			
Generation of Topsoil/OB	•		hat there w	•		•
& its Management during			topsoil w	III DE USEC	a tor deve	lopment of
plan period & conceptual	plantatio	un.				
period	DD rone	orted 41-	ot during th	o plan naria	d waata ia	likoly to be
Generation of Mineral						
Rejects/ Waste & its	5					
Management during plan period & conceptual period						
period & conceptual period grade and has no sale value in present market but it may						

have market in future and therefore, the reject w	vill be
stacked separately at statutory barrier.	

viii. Water requirement:

Total water requirement	9KLD	Drinking &	1.0 KLD			
		Domestic				
		Plantation	3.5 KLD			
		Dust	4.5 KLD			
		suPPression				
Source	PP submitted that the required water will be purchased					
	through private tankers.					

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

Particulars	Particular's Name	Distance & Directions
Village	Virpur	1.324 km, NE
Town	Khambaliya	35 km, SE
Highway	NH-947	9.512 km , South
Railway Station/Railway line	Bhatiya	17.440 km, South
Water Bodies	Rani Nadi	1.132, SW
Forest		

x. Presence of Environmentally Sensitive areas in the study area

Forest Land/Protected	Yes/No	Details of Certificate/letter issued by the concerned
Area/Environmental		Department mentioning the Lr no, date of grant and
Sensitivity Zone		remarks
Forest Land within the mine lease area and (if yes) status of Forest Clearance	No	
National Park	No	Marine National Park – 6.233 km
Wildlife Sanctuary	Yes	 Marine Sanctuary, Gulf of Kutch - 1.267 km, W Marine National Park, Gulf of Kutch - 6.233 km, NW Final ESZ Notification on Marine National and Marine Sanctuary declared by the Ministry vide Notification S.O 2561(E) dated 22.08.2013 1) The Eco-Sensitive Zone (hereinafter referred to as the ESZ) towards landward side constitutes an area of about 208.58 square kilometre including 36 villages adjoining Marine National Park and Sanctuary and the boundary of the ESZ from coastal boundary towards landward, side

Eco-Sensitive Zone(ESZ) /Eco-Sensitive Area(ESA)	Yes	 extends up to a length of one kilometre which include either whole or part of survey numbers upto this limit of one kilometre. 2) The ESZ towards seaward side constitutes an area of 105.14 square kilometre and an area within 200 metre from boundary of Marine National Park and Sanctuary towards seaward side has been included in the said Zone. 31 rivers which flow into the Gulf of Kachchh have been included in the ESZ and the length of the rivers falling in the said Zone varies from 0 to 5 square kilometre and a width of 250 metre from the centre of the river on both sides of river has also been included in the said zone which constitute a total area of 12.53 square kilometre. Eco Sensitive Zone of Marine National Park & Sanctury is 17 m as per NOC certificate received from Forest & Environment Department,
Coastal Regulation Zone (CRZ)	No	Government of Gujarat. High Tide Line: 0.795 km Low Tide Line: 2.557 km CRZ boundary (GCZMA approved Map): 1.001 km, SW
Schedule-I species (No.s and name of schedule-I species with authenticated letter)	Yes	Number and name of schedule-1 species will be ascertained through authenticated list from forest department and will be submitted at the stage of EC Application.

xi. Green belt/plantation details:

Proposed area for green belt/plantation and no. of saplings	2.88 Ha; 500
proposed	saplings
Budget for green plant& plantation till the end of life of mine.	1,10,000

xii. Rehabilitation & Resettlement (R&R):

R & R details	PP has submitted that R&R does not involved in
	this proposal.

xiii. Court case details: No court case w.r.t project

Court Case, No and its present	PP submitted an undertaking vide letter dated
status	20.02.2023 stating that there is no pending Court
	Cases related to this respective project.

xiv. Additional detail sought details :

The proposal was earlier considerd in the 11thEAC meeting held during 1-2nd March, 2023 wherein the Committee has deferred the proposal and asked the requisite information. The Project Propoent has submitted the reply on the Parivesh portal as given under:

S.No	Observatio	Reply of PP
	n of EAC	
1.	The Ministry	The comments provided by ESZ Division of the Ministry is given as
	may seek	under:-
	comments	
	from the	
	ESZ	"Ascertaining the distance of the mining lease from the boundary of
	Division of	the ESZ, Kml file of the proposed project site provided by the IA
	the Ministry	Division carried out in-house indicates that the site falls outside the
	regarding	ESZ of the Marine Sanctuary. However, mining, other than mining
	the distance	of atomic minerals by agency of the Department of Atomic Energy,
	of the Eco-	in CRZ areas is a prohibited activity and the PD may like to ascertain
	Sensitive	the compliance with the CRZ regulations, as may be admissible."
	Zone(ESZ)	
	from the	
	mine lease	
	area and	
	also to	
	clarify	
	whether the	
	instant mine	
	falling within	
	ESZ or not.	
2.	The PP also	PP has obtained the No objection certificate (NOC) from Forest &
	needs to	Environment Department, Government of Gujarat, Gandhinagar
	submit the	dated 12.01.2024. According to this certificate the approximate
	letter from	distance from nearest declared Eco Sensitive Zone of Marine
	State forest	National Park & Sanctury is 17 m.
	department	
	regarding	
	the distance	
	of ESZ from	
	mine lease	
	area with	
	authenticat	
	ed map.	
3.	The PP	Backfilling and rehabilitation of mined area is proposed. As on date
	needs to	about 5066 m3 top soil generated has already been utilized. During

plan for backfilling and rehabilitatio n of mined out areas.	during the lea part of Backfil area fu The a	irst to third year there will no top soil generation. The waste dumps during first to third year will temporarily stored at South West part of the lease area. During fourth and fifth year dumps will stored in west part of the lease area (with proposed production year I to III). Backfilling is proposed from fourth to fifth year. The total mined out area fully rehabilitated from reclaimed area (in hectares): 3.8998 Ha The area under water reservoir considered rehabilitated (in Hectares): 1.9285 Ha.							
	is expo During Depth (G2-12	During First three year of working, no top soil generated as mineral is exposed on surface in the form of Interburden. During First Year: Depth of working: 7.3 m, Level 10 to 0 m : 3 strips of Bauxite mineral (G2-122) extracted, Production = 47455 Tonnes, Level touched =							
	Depth minera touche	Second Year: of working: 13.83 m, Le I (G2-122) extracted, d = -11.13 m Third Year:		•					
	minera touche	Depth of working: 4.0 m, Level -11.13 to -15.13 m : 1 strips of Bauxite mineral (G2-122) extracted, Production = 58382 Tonnes, Level touched = -15.13 m At the end of 3^{rd} year the maximum working depth of 15.13 m is							
	reached. After 3 rd Year, the working shifts eastwards. Interburden accumulated is filled back in the pit and rehabilitation of mine out area will starts.								
	During Fourth Year: Depth of working: 22.44 m, Level 10 to -12.44 m : 2 strips of Bauxite mineral (G2-122) extracted, Production = 84246 Tonnes, Level touched = -12.44 m.								
	During Fifth Year: Depth of working: 8.96 m, Level -12.44 to -21.4 m : 2 strips of Bauxite mineral (G2-122) extracted, Production = 149248 Tonnes, Level touched = -21.4 m								
	Year wise proposal								
	Year	Top Soil generated (m ³)	Top soil utilized (m ³)	Top soil stored (m ³)					
	1	0	0	0					
	2	0	0	0					
	3 0 0 0								
	4	4 1294 1294 0							

	5	3772				3772				0	
	-	-				g I st to 3 rd y		tho r		elide during	
	The top soil spreading is shown in the plate in the next slide due 3 rd and4 th year									side during	
	Dumps										
	S.N o	Yea r	Dun p ID			Propose d Area (Ha)	Heig ht (m)	Tota dun qua y (n	np Intit	New dump location	
	1	I	Dun p 1	n Wa e	ast	4488	15	673	20	South West	
	2	II	Dun p 2	n Wa e	ast	8481	15 1272 5		21	South West	
	3	III	Dun p 3	n Wa e	ast	4385	15	65775		South West	
	4	IV	Dun p 4	n Wa e	ast	10851	19.66	213 1	33	West (within proposed productio n year I to III)	
	5	V	Dun p 5	n Wa e	ast	11892	10.05	119 5	951	West (within proposed productio n year I to III)	
	Backfi	illing -`	Year	wise p	ropo	osal					
	S.No.	Ye	ar	Pit D	A	rea (m²)	Тор I	RL	Bot	tom RL	
	1.	IV				0851	4.22				
	2.	V		Pit-1	1	1892	10.16	0	5.1	3	
xv. Details of project	ct cost	and er	mploy	/ment:							

Particulars	(Rs. In Crore)
Project Cost	3.0

Employment (No.s) 13

3 Observation and Recommendatio of the EAC

The Project Proponent presented the KML file to indicate the site features in the study area of 10km radius. The EAC on viewing the KML file noted that the Marine Sanctuary, Gulf of Kutch is located at a distance of 1.267 km, W and the Marine National Park, Gulf of Kutch is located at a distance of 6.233 km, NW from the mine lease area. The EAC noted that as per the NoC obtained from the Forest & Environment Department of Government of Gujarat, Gandhinagar the Eco-Sensitive Zone(ESZ) of Marine National Park & Sanctuary is located at a distance of 17m from the mine lease area. The Final ESZ Notification on Marine National and Marine Sanctuary was declared by the Ministry vide Notification S.O 2561(E) dated 22.08.2013.

Further, the Committee noted the detailed plan of backfilling and rehabilitation of mined out areas. The PP informed to the Committee that during first three year of working, no top soil will be generated, as the mineral is exposed on surface in the form of interburden. At the end of 3rd year the maximum working depth of mining will be reached up to 15.13m and the work will shifts eastwards. The Interburden accumulated is filled back in the pit and rehabilitation of mine out area. During fourth and fifth year dumps will be stored in west part of the lease area and backfilling will start from fourth to fifth year.

The PP has proposed that the mining will be carried out by semi mechanized open cast mining method by forming benches without any drilling & Blasting. The transportataion of mineral has been proposed in the trucks using an approach road.

Based on the discussions held, the EAC in its meeting held during 20thFebruary & 21stFebruary, 2024, under the provisions of EIA Notification, 2006 and its subsequent amendments therein, **recommended** the proposal for grant of Terms of Reference (ToR) to Mevasa Bauxite (Aluminous Laterite) mine with production capacity of 1,49,248 TPA in the mine lease area of 8.7305 ha by M/s Patel Kaushikkumar located at Village Mevasa, Taluka Kalyanpur, District Devbhumi Dwarka, Gujarat for undertaking detailed EIA/EMP study subject to the following specific conditions in addition to the standard ToR conditions applicable for non-coal mining projects:-

Specific Conditions:

- i. Since the mine site is located within 20 km from seaboard frontier the Project Proponent shall submit No Objection Certificate from Ministry of Defence, before grant of TOR.
- ii. The Project Proponent shall conduct drone survey of the mine lease area and buffer area and submit during the appraisal for EC.
- iii. 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.

- iv. The Project Proponent needs to undertake the enumeration of the plant species within the mine lease area before cutting. The Project Proponent also needs to submit the compensatory afforestation plan for the no. of trees to be cut in the mine lease area and also to explore the possibility of tree transplantation.
- v. The Project Proponent needs to submit the ecology restoration plan for mined out pits for using as Water reservoir/ Pisciculture as well as the plan for the backfilled area.
- vi. The Project Proponent should prepare the EMP considering the scenario of pollution to be generated for normative and peak total excavation for assessing air pollution, noise level and ground vibration.
- vii. The Project Proponent needs to submit the year wise sequence of mining operation and plan for backfilling considering the site features and their impacts and mitigation.
- viii. The Project Proponent shall conduct scientific study by reputed institute by considering the geological condition, sequence of mining, plan for backfilling, pit stability, slope stability, handling and management of overburden, from the view point of environment and safety.
- ix. PP shall submit the plan for drinking water supply through dedicated pipeline inside the ML area as well for the near villagers.
- 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. Accordingly, Project Proponent shall propose to install Continuous Ambient Air Quality Monitoring Station within certain timeline.
- xi. PP shall provide the details of mining technology/methodology proposed to be adopted for Non-coal mining operations and its associated environmental benefits of using from Climate Change perspective.
- xii. Heavy metals including other parameters in surface water quality shall be analyzed and provided in EIA Report. Further, detailed mineralogical and chemical composition of the mineral and percentage of free silica from a NABL/MoEF&CC accredited laboratory.
- xiii. PP should clearly bring out that what is the specific diesel consumption ~ (Liters/Tonne of total excavation & mineral) and steps to be taken for reduction of the same. Year-wise target for reduction in the specific diesel consumption needs to be submitted.
- xiv. PP shall explore the use e-vehciles/LNG/CNG based mining machineries and trucks for mining operation and transportation of Non-coal.
- xv. PP to submit a dedicated transportation route through road, avoiding the sensitive areas, after conducting carrying capacity study of the existing road and the level of traffic as per IRC guidelines.
- xvi. PP shall submit letter from Principal Chief Conservator of Forest, State Government that the area does not falls under any corridor of Elephants & Tigers.

- xvii. The Project Proponent needs to submit the action plan for undertaking the plantation along the 7.5m barrier, safety zone of tar road/cart tracks, electric line etc., PP should also submit the details no of saplings to be planted, type of saplings proposed and the area to be covered under greenbelt/plantation along with the timeline and budget. The greenbelt/plantation plan shall be prepared in such a way that the ecology of the area shall be restored.
- xviii. The Project Proponent shall carry out the assessment of impact due to the proposed project as per the guidelines issued by the Central Ground Water Authority from time to time and submit the same as a part of the EIA/EMP. 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.
- xix. 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.
- xx. 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.
- xxi. The Project Proponent needs to submit the detailed scientific study on flora and fauna and also to highlight on the endangered species. The Project Proponent needs to verify the list as per the latest Wildlife Protection Amendment Act, 2022.
- xxii. PP shall submit the action plan to adhere the Plastic Waste Management Rules 2016 and to adhere Ministry's OM dated 18/07/2022.
- xxiii. PP to submit the status of any pending court cases or disposed of cases related to Civil court, High court, Supreme court and in any tribunal along with its implications.
- xxiv. PP shall prepare a wildlife conservation plan in consultation with the local forest department mainly focusing upon the marine eco-system.
- xxv. The Project Proponent needs to submit a letter from the Department of Geology and Mining, Government of Rajasthan 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. Patel Kaushikumar?
- xxvi. The Project Proponent needs to submit the detailed R&R plan covering all the components viz. number of Project Affected Families (PAF) and details of the land owned by them, break up of total compensation to be paid including method of calculation including the sources/references adopted and mode of payment etc.
- xxvii. The Project Proponent needs to submit the proof of the demarcation of the boundary pillars fixed on the ground.

2.3 Expansion of Bailadila Iron Ore Mine for enhancement in production capacity from 10.00 to 12 MTPA (RoM) of Iron Ore with total excavation 18 MTPA (Waste excavation of 6.00 MTPA) in the Mine Lease area of 540.05 ha by M/s NMDC Limited located at Tehsil Bacheli, District South Bastar Dantewada, Chhattisgarh – For

Environmental Clearance reg. (20% capacity expansion as per O.M dated 11.04.2022)[F.No. IA-J-11015/261/2007-IA-II(M), Proposal No. IA/CG/MIN/459662/2024, EIA Consultant - M/s. Ecomen Laboratories (P) Ltd]

1 The instant proposal is for expansion of Bailadila Iron Ore Mine for enhancement in production capacity from 10.00 to 12 MTPA (RoM) of Iron Ore with total excavation 18 MTPA(Waste excavation of 6.00 MTPA) in the Mine Lease area of 540.05 ha by M/s NMDC Limited located at Tehsil Bacheli, District South Bastar Dantewada, Chhattisgarh.

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

- i. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals and falls under Category "A" as the mining lease area is greater than 250ha and appraised at the Central level.
- The mine lease area is located between Latitude: 18°40'00.54" to 18°41'50.38" Nand Longitude: 81°10'41.83" to 81°12'31.89" E. The mine lease area falls under the Survey of India Toposheet No: E44J2 and falls in Seismic Zone-II.
- iii. The PP has obtained Environmetal Clearance on 23.07.2007 for Bailadila Iron Ore mine in the ML area of 540.05 ha for deposite 5 at Bailadila range hills at village Bacheli, in district South Bastar Dantewada, Chhattisgarh.
- iv. Mine Lease Detail:

S.	Prospecting	Date of the	Name of	Period	Granted by	Mine
No.	License/ Letter	grant	the	of		lease
	of Intent (LoI)/		Mineral &	Grant		area in
	Grant of Mine		(Major/			На
	lease and Lr No		Minor)			
1	Grant of Mine	17/12/2019	Iron Ore	20	Mineral	540.05
	lease Letter			years	Resource	
	number:F4-				Department,	
	2/2015-XII				Government of	
					Madhya	
					Pradesh, Bhopal	

S.	Details of grant of Mine	Period	of Grant	Name of the	Mine lease
No	Lease deed execution	From	То	Mineral	area in Ha
1	10/01/2020	11/09/2015	10/09/2035	Iron Ore	540.05
				(Heamatite)	

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

Forest land	540.05
Total Mining lease area (MLA)	540.05 Ha
Project has acquired forest land and revenue la	nd outside Mining Lease area for
setting up of ancillary activities related to Mining su	ch as Screening plant, loading plant
etc.	

vi. Mining plan details

Mining Plan (approved by	Letter No.	RPR/DANTEWADA/IRON/1360/MRMP/	
Indian Bureau of		2022-23	
Mines/DMG)	Date	17/07/2023	
	Mineral &	Iron Ore	
	(Major/Minor)	(Haematite)	
	Mine Lease	540.05	
	Area, Ha		
	Validity	2024-25	
Mining Parameters	Quantitative Des		
Method of Mining	Mechanized Op	•	
Drilling/Blasting		done by 250mm dia and 150mm dia blast	
g		trol blasting is being done using site mix	
	emulsion explos		
Geological Reserves	525.65 Million to		
Mineable Reserves	315.80 Million to		
Breakup of Total	12.00 MTPA –		
Excavation		Waste excavation	
(Topsoil/OB/SB/IB/Mineral	18.00 MTPA – T	otal excavation	
Rejects/ Waste, MTPA)			
Life of mine	27 years		
Mine Bench Height & Bench	12 m &		
Width	30 – 50 m		
No. of Mine Benches	9		
Existing Depth, m bgl	996m ams level		
Ultimate Depth of Mining, m	864m ams level		
bgl			
Ground Water Table, m	0.81 m to 21.02	m bgl (during summer season 2022)	
below ground level			
Details of ground water	Not APPlicable		
intersection			
Individual bench slope	82 ⁰ to 85 ⁰		
Overall pit slope	42 ⁰ to 45 ⁰		
Details of existing/	2 no.s of Gyratory Crushers inside lease area.		
proposed Crusher			
Mineral Beneficiation	• •	including mineral beneficiation is located	
	•	Lease area. No capacity expansion is	
	proposed in Scr		
RoM output size	150 mm Hemati		
Transportation details			
including capacity of			
	to crushing plan	t (85 / 100 Tons capacity dumpers).	

dumper/tipper, mode of transport and distance	Ultimate lead distance: 3.94 km The crushed ore is transported through downhill conveyor system to Screening plant located outside ML area at Bacheli. The sized ore from the plant is transported through	
Generation of Topsoil/OB & its Management during plan period & conceptual period	conveyors to Loading plant at Bacheli. The total conveyor length is 10.38 Km. The waste rock (less than 45% Fe) generation till life of mine shall be 207.09 million tons. About 70.00 million tons will be generated till lease period 2035 which will be accommodated in the 110.97 Ha area identified for waste dumping as per approved Mining Plan. The remaining waste will be dumped at other identified places as per Mining Plan approval once in 5 years. Toe walls, garland drains will be constructed at toe of dumps. Proper terracing will be done for stabilization of dumps and plantation will be with native tree species.	
Generation of Mineral	Grass seeds will be broadcasted on sloes of the dumps. Geo-coir matting will also be done.	
Generation of Mineral Rejects/ Waste & its Management during plan period & conceptual period	Sub grade ore (45% to 55% Fe) generation during plan period will be approx. 0.80 MT & during conceptual period approx. 25.063 MT and the same will be stacked separately in the lease area. Suitable blending is carried out by mixing the sub grade with high quality ore.	

vii. Water requirement

ii ii				
Dust suppression at Mining area	Fresh water	250 KLD		
etc.	Treated water			
Nalla no: 19, 19A, Galli Nalla, Bache	li nalla			
Obtained from Water Resource Department, Government of				
Chhattisgarh, Raipur vide letter r	no: 3642/29/13/2	000/31/D-4		
dated 24/08/2023.				
Water tax @ Rs.5.00 per KL is being paid to Water Resource				
Department, Dantewada.				
viii. Nearest village / town/ highway/railway station / water bodies				
Particular's Name	Distance & Dire	ections		
Bade Bacheli, Municipal Council	4.50 Km, ENE			
Dantewada	30 Km, NNE			
State Highway no: 5	4.40 Km, NNE			
Not APPlicable				
Bacheli	3.5 Km, E			
	Dust suppression at Mining area etc. Nalla no: 19, 19A, Galli Nalla, Bache Obtained from Water Resource D Chhattisgarh, Raipur vide letter r dated 24/08/2023. Water tax @ Rs.5.00 per KL is bei Department, Dantewada. own/ highway/railway station / water b Particular's Name Bade Bacheli, Municipal Council Dantewada State Highway no: 5 Not APPlicable	Dust suppression at Mining area etc.Fresh waterTreated waterTreated waterNalla no: 19, 19A, Galli Nalla, Bacheli nallaObtained from Water Resource Department, Gove Chhattisgarh, Raipur vide letter no: 3642/29/13/2 dated 24/08/2023.Water tax @ Rs.5.00 per KL is being paid to Water Department, Dantewada.cown/ highway/railway station / water bodiesParticular's NameDistance & DireBade Bacheli, Municipal Council4.50 Km, ENEDantewada30 Km, NNEState Highway no: 54.40 Km, NNENot APPlicable		

Water Bodies	Galli Nala	0.2 Km, E
	Berudi Nadi	3.00 Km, W
	Mari Nadi	7.5 Km, NW
	Jhiram Nadi	7.00 Km, SWS
	Koyar Nadi	9.00 Km, SE
	Sankani nalla/river	6.2 Km, NE
Forest	Bailadila Reserve Forest	Within lease area
	Bijapur Reserve Forest	1.0 Km, W

ix. Presence of Environmentally Sensitive areas in the study area

Forest Land /Protected	Yes/No	Details of Certificate/ letter/ Remarks
Area/ Environmental		
Sensitivity Zone		
Forest Land within the	Yes	The Forest Clearance was obtained from MoEFCC
mine lease area and (if		over 540.05 ha of lease area vide F.No: 8-38/97–FC
yes) status of Forest		dated 18-06-1999. The validity extension of the
Clearance		existing forest clearance was obtained from the Govt.
		of Chhattisgarh, Forest Department, Nava Raipur
		vide letter No. F-5-49/2015/10-2 dated 31/03/2020
		and is co-terminus with the extended lease period i.e.
		up to 11/09/2035.
National Park	No	
Wildlife Sanctuary	No	
Elephant/Tiger Reserve	No	
Eco-sensitive Zone	No	
(ESZ) / Eco-sensitive		
Area (ESA)		
Coastal Regulation	No	
Zone (CRZ)		
Schedule-I species	Yes	7 no.s. Sloth Bear, Indian Pangolin, Leopard,
(No.s and name of		Phython, Bengal Monitor Lizard, Bastar Hill Myna and
schedule-I species with		Common Peafowl. Obtained authentication of flora
authenticated letter)		and fauna by DFO, Dantewada vide letter no:2929
		dated 9/5/2023.
Wildlife Conservation	Yes	Principal Chief Conservator of Forests (Wildlife)/
Plan		Chief Wildlife Warden, Raipur has accorded approval
		for Conservation Plan of Bailadila Iron Ore Mine,
		Bacheli Complex for an amount of Rs. 14,47,32,700/-
		vide letter no. WL/Mgmt./FN-315/2017/571 dated
		04/02/2017. Bailadila Iron Ore Mine, Bacheli Complex
		has deposited Rs. 14,47,32,700/- in CAMPA account
		through RTGS transfer on 27/03/2017.

Additional	Information	The conservation plan is being implemented by State Forest
(if any)		Department by drawing the funds from CAMPA A/C as per
		Annual Plan of Operations (APO) every year.

x. Green belt/plantation details:

Proposed area for green	The Mining Lease area of Bailadila Deposit-5 is Reserve	
belt/plantation	Forest land with density of trees. At present, 237.05 ha area	
	is un-disturbed and maintained under plantation wherein gap	
	plantation works have been undertaken.	
Budget for green plant &	Rs.53.24 Crores.	
plantation till the end of life		
of mine.		
Budget for nursery	Rs.100 Lakhs	
Details of existing	Total of 1,61,430 saplings have been planted in side lease.	
plantation and its survival	Survival rate is 80%. Plantation has also been done outside	
rate	lease area.	
No. of tree cuts in the	C.A charges of Rs.214.50 lakhs have been paid to Forest	
mine lease area and	Department.	
compensatory		
afforestation		
Particulars for Green	237.05 Ha (existing)	
belt/plantation		
7.5 m barrier & non-	7.61 Ha	
mineralized zone		

xi. Baseline detail:

Baseline Data (Air	Baseline Data (Air / Water / Noise / Soil / Hydro geological study/ Traffic Study/ others)				
Period of baseline March to May 2022					
data collection					
Season (Summer	Summer				
/ Pre-monsoon /					
Post-monsoon /					
Winter)					
Predominant	South West				
Wind direction					
(From)					
Ambient Air	11 Locations.				
Quality (no. of	Results Summary given below:				
locations) and	PM ₁₀ : 40.17 μg/m ³ to 66.72 μg/m ³				
results	PM _{2.5} : 16.92 μg/m ³ to 34.56 μg/m ³				
	SO ₂ : 06.80 μg/m ³ to 14.78 μg/m ³				
	NO ₂ : 14.59 μg/m ³ to 27.62 μg/m ³				

Noise level (no.	11 Locations					
of locations) and	Result Summary given below					
results	Day Time (Lday) noise level:					
1050115	37.14 dB (A) – 67.90 dB (A)					
	Night Time (Lnight) noise leve	اد				
	27.76 dB (A) – 57.40 dB (A)	51.				
Water Quality	Surface water locations: 5					
(no. of locations)	Results summary given below	v .				
and results	Parameters	Value				
	pH at 25°C	6.90 -	7 10			
		0.90 – 190 –				
	Total Dissolved solids, mg/l	190 – .	292			
	Dissolved Oxygen, mg/l	5.40 -	7.10			
	BOD, 3 days at 27 ⁰ C	0.99 –	1.00			
	Chloride as cl-, mg/l	10 - 2	2			
	Fluoride as F, mg/l	0.12 –	0.66			
	Sulphates as SO ₄ , mg/l	9.21 -	18.50			
	Total coliform MPN/100 ml	240 - 3	380			
	Ground water locations: 5.	<u> </u>				
	Results summary given below	v:				
	Parameters Value					
	pH at 25°C	7.10				
	Total Dissolved solids,	152-18	38			
	mg/l					
	Chloride as cl-, mg/l	8.0 – 1	4.0			
	Total Hardness, mg/l	52.0 -	72.0			
	Fluoride as F, mg/l	0.21				
	Sulphates as SO ₄ , mg/l	9.80 -	11.30			
	Total coliform MPN/100 ml	Absen	t			
		1				
Soil Quality (no.	6 locations					
of locations) and	Results summary given below	v:				
results	Parameters Observed Values					
	рН	5.66 - 6.34				
	Texture	Silty clay & Sandy clay				
	Electrical Conductivity (µS/cm) 190 – 245					
	Organic Carbon (%)	0.33 0.88				
	Available Nitrogen as N (kg/	87 316				
	Available Phosphorus as P	(kg/Ha)	11.40 – 35.30			
	Available Potassium (kg/Ha) 195 244					

Hydro-geological study and results	Ground water quality and quantity is controlled by existing Hydro- geological conditions and no adverse effect of mining activity on Ground water environment is encountered. The ground water levels and quality is being carried out at 41 locations once in season for four seasons in a year.
• 、	The traffic survey was conducted at one location on Kirandul – Geedam SH road. The Passenger Car Unit (PCU) recorded 3066 PCU. As per guidelines for capacity of roads in rural areas of IRC, recommended design series volumes for single lane roads in plain terrain are 15000 PCU/day.

xii. Public Hearing (PH) Details:

The Project Proponent has already conducted the Public Hearingon 01.07.2006 for obtaining the Environmental Clearance on 23.07.2007 for Bailadila Iron Ore mine in the ML area of 540.05 ha for deposite 5 at Bailadila range hills at village Bacheli, in district South Bastar Dantewada, Chhattisgarh.

As per the office memorandum vide F.No. IA3-22/10/2022-IA.III dated 11.04.2022, PP may obtaining EC under para 7(ii) (a) of EIA notification 2006, for expansion of 20% capacity, within the existing premises/ mine lease area, without additional land acquisition & subject to fulfilment of criterias given as under:

"The project should have gone through the public hearing process, at least once, for its existing EC capacity on which expansion is being sought, except those category of projects which have been exempted as per para 7 III (i) of EIA Notification 2006 and its amendments.

Particulars		Details of Letter along with date of grant and validity					
	Consent to Establish						
Consent to Operate		valid up	valid up to 31/03/2025				
	Certifie	d Compliance Re	port and	Inspecti	on date: 16/09/2023.The CCR was issued by		
	Inspect	ion date		Gol, Mo	Gol, MoEFCC, Sub Office, Aranya Bhawan, Raipur		
				vide F.I	vide F.No: 3-20/2008(Env)/1526 dated 28/11/2023		
				addressed to MOEFCC, New Delhi.			
	Production Details from the inception of the mine				mine		
	S.no	Year	RoM Irc	on Ore	EC capacity (MTPA)		
			(Million tons)				
	1	1967-68			-		
	2	1968-69			-		
	3	1969-70			-		
	4	1970-71			-		
	5	1971-72			-		

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

6	1972-73		-	
7	1973-74		-	
8	1974-75		-	
9	1975-76		-	
10	1976-77	0.24	-	
11	1977-78	2.89	-	
12	1978-79	4.27	-	
13	1979-80	3.79	-	
14	1980-81	4.62	-	
15	1981-82	4.78	-	
16	1982-83	4.35	-	
17	1983-84	4.25	-	
18	1984-85	4.42	-	
19	1985-86	4.42	-	
20	1986-87	4.69	-	
21	1987-88	4.69	-	
22	1988-89	4.03	-	
23	1989-90	3.92	-	
24	1990-91	3.53	MoEFCC, New Delhi Letter no. J-	
05	4004.00	4.00	11015/41/82-EN, 5 dated 28/02/1991	
25	1991-92	4.92	-	
26	1992-93	4.58	-	
27	1993-94 1994-95	5.16	-	
28		5.21	-	
29 30	1995-96 1996-97	5.56 4.87	-	
30	1997-98	5.45	-	
32	1997-98	4.41	-	
33	1998-99	5.03	-	
33	2000-01	6.09	-	
35	2000-01	6.19	-	
36	2001-02	6.67		
37	2002-03	6.56	-	
38	2003-04	6.74		
39	2004-03	7.26	-	
40	2005-00	7.83		
40	2007-08	8.20	10 MTPA (MoEFCC, New Delhi Letter no.	
41	2007-08	0.20	J-11015/261/2007-IA.II (M) dated23/07/2007)	
42	2008-09	6.55		
43	2009-10	7.08		
44	2010-11	8.09		
45	2011-12	7.72		

46	2012-13	6.94	
47	2013-14	6.83	
48	2014-15	6.82	
49	2015-16	6.49	
50	2016-17	7.99	
51	2017-18	8.41	
52	2018-19	7.62	
53	2019-20	7.84	
54	2020-21	8.04	
55	2021-22	8.32	
56	2022-23	8.66	
57	2023-24 (upto	7.456	
	9/2/2024)	7.450	

xiv. Rehabilitation & Resettlement (R&R):

nitted that there
the ML area.

xv. Court case details:

Court Case, No and its present	Nil
status	
Undertaking by PP w.r.t court case	Affidavit dated 20/01/2024 submitted that "no court cases, Litigations are pending against the project". (submitted in Revised EIA/EMP Report)

xvi. Affidavit/Undertaking details:

Affidavit as per	Ministry's	OM	District Collector, South Bastar Dantewada
dated 30.05.2018			District vide letter no: 1314 dated 26/09/2019
			has issued show cause notice to Bailadila
			Deposit-5 for payment of Rs.419.97 Cr towards
			excess production done during 2000-01 to
			2006 against common cause judgement. The
			project proponent vide letter dated 10/12/2019
			has deposited part payment of Rs.426 Cr under
			protest in respect of both Bailadila Deposit-5
			and Deposit-10 mines of NMDC to Dt.
			Collector, South Bastar Dantewada. The
			project has filled writ petition bearing number
			1679/2020 dated 22/1/2020 in the Hon'ble High
			Court of Bilaspur to allow the present writ
			petition by setting aside the impugned notice
			dated 15/11/2019 for demand of penalty and

Undertaking by PP in EIA/EMP report	compensation towards excess production over the EC capacities. Undertaking dated 20.01.2024 by PP is submitted in the Revised EIA/EMP Report.
Undertaking by Consultant in EIA/EMP report	Undertaking dated 17.01.2024 is submitted by Consultant in Revised EIA/EMP Report.

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

Particulars	Capital cost (Lakhs)	Recurring cost
		(Lakhs/annum)
Air Environment	2561.38	196
Noise Environment		100
Water Environment	4314	928
Waste dump management	564.74	92
Afforestation	5423	189
Energy conservation	661.64	62
Occupational Health		37
Environmental Monitoring	160	110.50
Total	13684	1714.50

xviii. Details of project cost and employment:

Particulars	(Rs. In Crore)
Total cost of EMP (Capital Cost of EMP + capital cost of public hearing)	136.84
Project Cost	821.70
(Current Gross Block-441.58 Cr + Proposed Expansion cost -380.12 Cr)	
Employment (No. s)	917
Existing – 829 and proposed 88)	

xix. The point-wise compliance in the following table as per the Ministry's OM dated 11thApril, 2022 under para 7(ii)(a) of EIA Notification, 2006, for expansion up to 50%, within the existing premises/ mine lease area, without additional land acquisition. The OM is applicable subject to fulfilment of following criteria:

Sr.	Condition as per OM	Compliance of condition	
No			
1.	The project should have gone through the public hearing	Public Hearing was	
	process, at least once, for its existing EC capacity on	conducted on 01.07.2006	
	which expansion is being sought, except those category	for the production from	
	of projects which have been exempted as per para 7 III	6.0 MTPA to 10.0 MTPA.	
	(i) of EIA Notification 2006 and its amendments.		

r		
2.	There should not be change in Category of the project from 'B2' to 'B1' or 'A' due to proposed modernisation or expansion	There is no change in the category of the project.
3.	There is no additional land acquisition or forest land diversion involved for the proposed expansion or there is no increase in lease area with regard to mining vis-à- vis the area mentioned in the EC, based on which public hearing has been held earlier.	No Change in the Project Area.
4.	The proposed expansion shall not be more than 50% of production capacity as mentioned in the prior EC, issued on the basis of public hearing held and the same shall be allowed in minimum three phases.	PP has not obtained the expansion in production capacity on the basis of public hearing already held for the previous EC dated 01.07.2006.
5.	Predicted environmental quality parameters arising out of proposed expansion/modernization shall be within the prescribed norms and the same shall be maintained as per prescribed norms.	Conducted during March to May 2022 representing Summer season
6.	The proposed expansion should not result in reduction in the greenbelt area as stipulated in the earlier EC, or if the existing ratio of greenbelt is more than 33%, after expansion it should not reduce below 33%.	No change in the green belt area.
7.	The project proponent should have satisfactorily complied the conditions stipulated in the existing EC(s) and satisfactorily fulfilled all the commitments made during the earlier public hearing/consultation proceedings and also the commitments given while granting previous expansion, as may be applicable. This shall be duly recorded in the certified compliance report issued by the IRO/CPCB/SPCB, which should not be more than one year old at the time of submission of application	Site inspection done on 16/09/2023 and CCR was issued on 28/11/2023.
8.	Public Consultation shall be undertaken [if applicable as per table below] by obtaining response in writing, as per para 7 III (ii) (b) of EIA Notification 2006, except those category of projects which have been exempted as per para 7 III (i) of EIA Notification 2006 and its amendments.	Not applicable.
9.	Effluent monitoring including air quality monitoring systems as specified in the existing EC, if stipulated, should have been installed.	ContinuousAmbientAirQualitymonitoringsystem installed at Mine.

- xx. PP has submitted that the Transportation of iron ore is mainly through the existing KK railway line (90% i.e 10.80 MTPA and a minor quantity by State/National highway road (10%, 1.20 MTPA).
- xxi. NMDC has funded an amount of Rs:1,013 crores for the doubling of the KK line between Kirandul to Jagdalpur & Jagdalpur to Ambagaon, covering a distance of 150 km, which will enhance the capacity of the railway line from 28 MTPA to 40 MTPA.
- xxii. NMDC is also coming up with the laying of a slurry pipeline from Bacheli to Nagarnar to Visakhapatnam for transportation of 15 million tons of beneficiated ore, which will increase evacuation capacity.

3. Observation and Recommendation of the EAC

The EAC, after deliberations observed that instant project is for expansion and PP has applied under OM dated 11.04.2022 for enhancement upto 20 % (Stage-1) capacity expansion under para 7(ii) of EIA Notification, 2006. The Committee noted that existing Biodiversity Conservation & Management Plan was approved during 2017 by State Govt and highlighted that PP needs to submit the authenticated list of Schedule-I species as per the Wildlife (Protection) Amendment Act, 2022 along with its conservation plan.

EAC also asked the PP regarding the demand raised by the District Collector vide letter dated 26.09.2019. The PP stated that the District Collector, South Bastar Dantewada District vide letter no: 1314 dated 26/09/2019 has issued show cause notice to Bailadila Deposit-5 for payment of Rs.416.97 Cr towards excess production done during 2000-01 to 2006-07 against common cause judgement. With regard to the above notice, the PP vide letter no: BC/Geo/2019-20/7263 dated 10/12/2019 has deposited part payment of Rs. 426 Cr under protest in respect of Bailadila Deposit-5 and Deposit-10 mines of NMDC to District Collector, South Bastar Dantewada District, CG. Later, PP filed a writ petition bearing number: 1679/2020 dated 22/1/2020 in the High Court of Bilaspur to allow the present writ petition by setting aside the impugned notice for demand of penalty and compensation towards excess production over the EC capacities. Accordingly, the EAC asked the PP to submit the chronology of the court case along with specific amount that it has submitted with regard to the Bailadial Deposit-5, the instant mine lease which is under consideration for expansion.

The committee also observed the non-compliances enumerated in the CCR dated 28.11.2023 and accordingly advised PP to obtain closure report from Ministry's Regional Office. Based on the aforesaid discussions, the EAC **deferred** the proposal for want of following additional information: -

- i. PP needs to submit the closure report from Minstry's Regional Office with regard to non-compliances enumerated in the CCR dated 28.11.2023.
- ii. PP needs to submit an undertaking with regard to Ministry's OM dated 30.05.2018
- iii. PP needs to submit the authenticated list of Schedule-I species as per the Wildlife (Protection) amendment act, 2022 & proof of submission of Conservation Plan.

- iv. PP needs to submit the DMG authenticated past production details since inception of the mine.
- v. PP needs to submit the chronology of the court case along with specific amount that it has submitted with regard to the Bailadial Deposit-5, the instant mine lease which is under consideration for expansion.
- vi. PP needs to provide the number of crusher installed/proposed in the lease area along with their respective capacity.

Additional Agenda:

2.4 Lakhpat & Punharajpur Lignite Block and Limestone mine of M/s Gujarat Mineral Development Corporation Limited for a peak production capacity of 4.5 MTPA of Lignite and 29.81 MTPA of Limestone in the mine lease area of 2959.6715 ha, located at Villages Lakhpat, Kaner&Punharajpur, Tehsil: Lakhpat, District: Kutch, Gujarat – [F.No: IA-J-11015/29/2023-IA-II(NCM), Proposal No: IA/GJ/MIN/445103/2023; EIA Consultant: M/s Centre For Envotech and Management Consultancy Pvt. Ltd.] – Site visit Report

The instant proposal is for mining of Lignite and Limestone in Lakhpat & Punharajpur Lignite Block and Limestone mine of M/s Gujarat Mineral Development Corporation Limited for a peak production capacity of 4.5 MTPA of Lignite and 29.81 MTPA of Limestone in the mine lease area of 2959.6715 ha, located at Villages Lakhpat, Kaner&Punharajpur, Tehsil: Lakhpat, District: Kutch, Gujarat.

After detailed deliberations made by the PP during the 21st EAC-NCM meeting held П. during 18-19 October 2023, the EACopined that there are other mines also present in the study area. The EAC observed that the Lakphat Fort is located at a distance of about 200m from the mine lease area on the northern direction. The proposed capacity of Limestone is huge quantity. The EAC noted that the maximum proposed production capacity of Limestone of 29.81 MTPA will be achieved in the 12th year as per the then aPProved mining plan. The PP did not finalize the mode of transportation. The EAC was of the view that rainfall in the region is very minimal and there will be intersection of ground water aquifer during mining operation. The area is already starved of freshwater. The EAC opined that this will create further complications. The EAC observed that since there will be no overburden, backfilling the void and the closure of mine remains a challenging task. The EAC noted that a Nala is located about 200m on the Western side and Kori Creek is situated at a distance of 1 km towards Northern side and there will likely chance of sea ingress. The EAC also noted that the mine lease area is located in Seismic Zone-V. Thus the EAC was of the view that there is a need to ascertain the ground reality w.r.t water bodies in the vicinity of the mine lease area, Lakphat Fort (200m, N), handling, management and transportation of Limestone, traffic congestion, water balance and source of water, plan for final closure of mine, sea ingression, cumulative impact and hazard management. 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.

III. In view of the aforesaid recommendation of EAC, the Ministry constituted a subcommittee comprising of the following members to undertake the site visit during 24-28 January 2024:-

- 1. Shri Bandi Ramchandra Reddy, EAC Member
- 2. Prof. Devesh Walia, EAC Member
- 3. Shri Pankaj Verma, Scientist E & Member Secretary, EAC (NCM), MoEF&CC
- 4. Dr. Yogesh Kumar, Scientist C, MoEF&CC, Regional Office Gandhinagar
- 5. Shri Vidyasagar Jha, Research Officer, MoEF&CC

IV. The committee undertook the site visit during 24-28 january,2024 and observed the following in the mine lease area:-

- 1. The mine lease area is located at Lakhpat, Kaner and Kaner &Punharajpur, Tehsil: Lakhpat, District: Kutch, Gujarat. The mine lease area is 2959.6715 ha.
- 2. The lease area is adjacent to State Highway 06 which is towards its northern side and State highway 42 passes within the eastern side of the lease in southern direction. The Kori creek is located in the western and northen direction, the shortest distance between the lease area and the creek is 1 km as informed by the PP during the site visit.
- 3. The Lakhpat fort is located in the northern side from the mine lease boundary and PP stated that it is at a distance of 165m. The fort has been declared as a protected monument by the Archaeological Department.

SI.	Particulars	Length	Width	Catchment area	Remark
No.				(Ha)	
1	P1(Eastern side of	625m	450m	28.12	Check dam for
	Punharajpur village)				villagers
2	P2(Northern side of	158m	65m	1.03	Pond
	Punharajpur village)				
3	P3(NW side of Punharajpur	160m	88m	1.41	Pond
	village)				
4	Tributary of Kali River	1.7km	40m	6.80	Seasonal

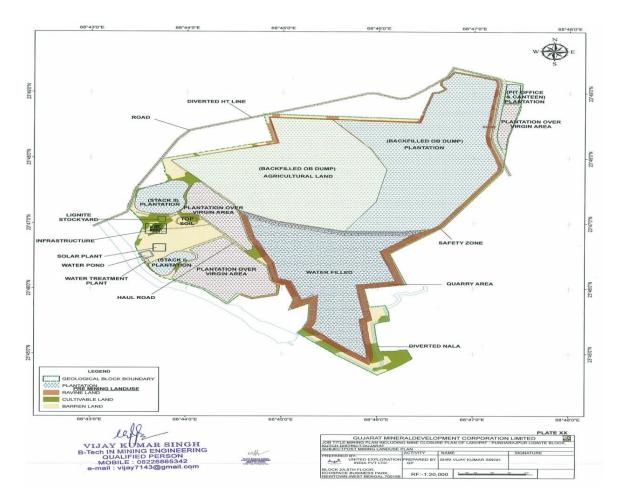
4. The committee observed the presence of water bodies within the lease area. The details submitted by the PP in this regard is given as under:-

- 5. Sparse distribution of bushy vegetations was observed across the lease area. It was informed by the PP that the region receives hardly 200-300 mm of rainfall.
- 6. The sub-committee observed that the PP has erected boundary pillars alongside the ML boundary. The committee visited a couple of boundary pillars and matched its location with the hand held GPS Device.
- 7. The sub-committee also went through the mining plan during the site visit to know the proposed sequence of mining, total excavation, depth of mining, availability of mineral both lignite as well as limestone, waste/overburden generation and its handling, stock storage and its proposed transportation at ground level. The committee

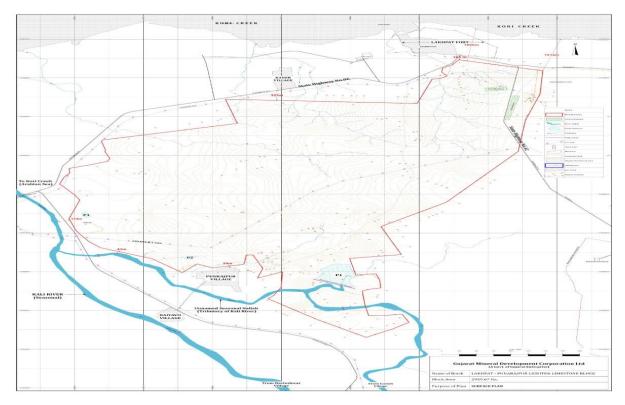
observed that the PP needs to clearly state the amount of overburden that they will handle till its reaches the RL to mine lignite.



8. The committee also noted that comprehensive material balance with regard to the overburden production and its handling was not available with the PP.



- 9. The PP also submitted the conceptual post land use mining plan that can be seen above.
- 10. The PP also provided the detailed map of the mine lease area indicating the presence of various roads, nallas creeks etc.



- 11. The committee also observed the existing pond in the southern side within the mine lease area. It was informed by the PP that they are going to shift the pond and use that area for mining purpose.
- 12. The PP also informed that the 80 % of the mined out limestone shall be suPPlied to the cement plant for which they have already floated an Expression of Interest. PP further mentioned that their cement plant is likely to start operation in the fifth year.
- 13. The committee did not observe any habitation within the mine lease area during the site visit.
- 14. The committee also noted the presence of Forest area that has been excluded from the lease.
- V. Based on the aforesaid observation, the sub-committee recommended the following:-
 - 1. The PP shall submit the comprehensive material balance with regard to the annual production of the both minerals, overburden/waste, top soil generated, depth of mining, transportation of minerals mined out yearly, quantity to be stocked for the first five years. The excavation data should match when compared with the mining plan for both the minerals i.e. lignite as well as limestone.
 - 2. The PP informed that they will by using SH 06 for transportation purpose along with NH 41, accordingly, PP shall submit the detailed transportation route for the proposed transportation of mined out minerals.
 - 3. PP shall also undertake the carrying capacity study of the existing road to indicate its viability along with its pollution potential.
 - 4. The PP shall submit the detailed timeline for shifting the pond outside the mine lease area. The capacity of the existing pond and the proposed pond along with its location needs to be provided by the PP.

- 5. PP shall undertake green belt plantation alongside the lease boundary and virgin area plantation.
- 6. PP shall also submit its action plan for mineral use in case it is unable to set up its Cement plant within next 5 years.
- 7. PP informed that mining activity will intersect ground water, accordingly PP shall undertake hydrological study to determine whether any sea water ingress will occur or not.
- 8. PP shall obtain necessary permission/NoC from Archaeological Department for mining in the northern side of lease boundary that is in close vicinity to Lakhpat Fort.
- **2.4.1** The EAC accepted the recommendations of sub committee.

List of members of Expert Appraisal Committee participated through VC

S.No. Member Member Address	Designation	20 th	21 st
-----------------------------	-------------	------------------	------------------

	Name			February, 2024	February, 2024
1	Dr. Dinesh Misra, IFS (Retd.)	Plot No 65, Sector 8, Gandhinagar, Gujarat, 382 008	Chairman	Yes	Yes
2	Sh. Niranjan 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, GMSRoad, Sewla Kalan, P.O. Majra, Dehradun, Uttarakhand-248171	Member	No	No
4	Shri. Avijit Ghosh (CMD- Heavy Engineering Corporation Limited) (Retd.)	Singhee Marg, A- 604 Shahadeo Tower, P. P. Compound, Ranchi 834001, Jharkhand	Member	Yes	Yes
5	Shri. Bandi Ramchandra Reddy(CMD- South Eastern Coalfields Limited)- (Retd.)	Flat No-503 A, Jyoti Cosmos, White Fields, Hi-Tech City, Kondapur,Hyderabad- 500081	Member	No	No
6	Prof. Pramod Kumar, Professor, Shri Aurobindo College, University of Delhi	Shri Aurobindo College, University of Delhi 1372, B-1, Vasant Kunj, New Delhi- 110070	Member	Yes	No
7	Prof. Devesh Walia, Professor, Department of Environmental Studies	Department of Environmental Studies, NEHU, Shillong-793022 Meghalaya	Member	No	yes

8	Dr. Suresh Tiwari Scientist-F	Indian Institute of Tropical Meteorology, Pune, New Delhi Branch, Prof. Ram NathVijMargRajinder Nagar, New Delhi - 110060	Member	Yes	Yes
9	Dr. K.G Asha Manjari, Professor, University of Mysore	10/B, "SPARSHA", 2nd Main, 2 nd Cross, Bhogadi IInd Stage, Mysore-570026, Karnataka	Member	Yes	Yes
10	Prof. Dev Dutt Sharma, Vice- Chancellor	Sardar Patel University, Mandi H.P. 175001	Member	No	No
11	Shri V. K. Soni, Representative of India Meteorological Department	Government of India, Ministry of Earth Sciences, India Meteorological Department, Mausam Bhawan, Lodi Road, New Delhi – 110003	Member	No	No
12	Shri Yogesh Kale, Representative of Indian Bureau of Mines	Controller of Mines, IBM Block D, Second Floor, Indira Bhavan, Civil Lines, Nagpur - 440001	Member	Yes	Yes
13	Shri Niazi Mohammed	Representative of Directorate General of Mines Safety	Member	Yes	Yes
14	Shri Pankaj Verma	2 nd Floor, Prithvi Block, Indira Paryawaran Bhawan, MoEF&CC, Jorbagh, New Delhi- 110003.	Member Secretary	Yes	Yes
