

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

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**SUMMARY RECORD OF 44<sup>th</sup>MEETING OF THE COMMITTEE OF THE EXPERT APPRAISAL COMMITTEE FOR ENVIRONMENTAL APPRAISAL OF NON-COAL MINING PROJECTS CONSTITUTED UNDER THE EIA NOTIFICATION, 2006.**

The 44<sup>th</sup>meeting of the Expert Appraisal Committee for Environmental Appraisal of Mining Projects (Non-Coal) of the Ministry of Environment, Forest and Climate Change was held during 28<sup>th</sup> – 29<sup>th</sup> December, 2021 through video conference. The list of participants is annexed herewith. After login of the Committee Members through video conference link provided by NIC, discussion on each of the Agenda Items was taken up ad-seriatim.

**(1.0.0) Deliberation & Circulation on the Minutes of the 41<sup>st</sup> EAC meeting held during 15<sup>th</sup> – 16<sup>th</sup> November and 18<sup>th</sup> November, 2021 and corrigendum minutes of 42<sup>nd</sup> EAC meeting held during 30<sup>th</sup> November – 3<sup>rd</sup> December, 2021.**

The minutes of 41<sup>st</sup> EAC meeting held during 15<sup>th</sup> – 16<sup>th</sup> November and 18<sup>th</sup> November, 2021 and corrigendum minutes of 42<sup>nd</sup> EAC meeting held during 30<sup>th</sup> November – 3<sup>rd</sup> December, 2021 were placed before the members of the Committee. The Member Secretary informed the Committee regarding the following corrigendum:

<b>S. No.</b>	<b>As per 41<sup>st</sup> EAC meeting held during 15<sup>th</sup> – 16<sup>th</sup> November and 18<sup>th</sup> November, 2021 and corrigendum minutes of 42<sup>nd</sup> EAC meeting held during 30<sup>th</sup> November – 3<sup>rd</sup> December, 2021</b>	<b>EAC recommended during 44<sup>th</sup> EAC meeting held during 28<sup>th</sup> – 29<sup>th</sup> December, 2021</b>
<b>1</b>	Agenda 1.3, Page no. 18, Para 16 of 41 <sup>st</sup> EAC meeting and Corrigendum no.2, Page no. 1 of corrigendum minutes of 42 <sup>nd</sup> EAC meeting:  After detailed deliberations made by the Project Proponent and the Consultant, the Committee <b>recommended</b> the proposal for amendment of specific condition no. 6 in Environmental Clearance granted vide letter no. J-	After detailed deliberations made by the Project Proponent and the Consultant, the Committee <b>recommended</b> the proposal for removal of specific condition no.6 and amendment of standard condition no.14 in Environmental Clearance granted vide letter no. J-11015/13/2016-IA. II (M) dated 05.01.2017 of Limestone Mine with production capacity of 0.53 MTPA (ROM) in the MLA of 193.3269 ha

<p>11015/13/2016-IA. II (M) dated 05.01.2017 of Limestone Mine with production capacity of 0.53 MTPA (ROM) in the MLA of 193.3269 ha located at Villages Talli and Bambhor, Taluka Talaja, District-Bhavnagar, Gujarat by M/s. UltraTech Cement Limited till June 2025 in view of the following:</p> <ol style="list-style-type: none"> <li>1) The project proponent has committed to spend an expenditure of 13 crore in 2 years towards widening and strengthening the road which also benefits the villagers.</li> <li>2) The supporting letters that have been received from local authorities to re-open the mine.</li> <li>3) The project proponent shall monitor the air quality impact while transporting the material through villages and also look for an option for transporting the material through convoy so that safety measures can be properly taken up.</li> <li>4) The project proponent shall adhere to the safety measures proposed for reducing the accidents.</li> </ol> <p>In addition to the above, the Committee was of the opinion that no further amendment can be granted. The specific condition no. 6 must be read as '<i>The project proponent shall ensure that the road will not be damaged due to transportation of the mineral; and transport of minerals</i></p>	<p>located at Villages Talli and Bambhor, Taluka Talaja, District- Bhavnagar, Gujarat by M/s. UltraTech Cement Limited in view of the following:</p> <ol style="list-style-type: none"> <li>1) The project proponent has committed to spend an expenditure of 13 crore in 2 years towards widening and strengthening the road which also benefits the villagers.</li> <li>2) The supporting letters that have been received from local authorities to re-open the mine.</li> <li>3) The project proponent shall monitor the air quality impact while transporting the material through villages and also look for an option for transporting the material through convoy so that safety measures can be properly taken up.</li> <li>4) The project proponent shall adhere to the safety measures proposed for reducing the accidents.</li> </ol> <p>In addition to the above, the Committee was of the opinion that no further amendment can be granted. The standard condition no. 14 must be read as: "Transportation of the minerals should be done by a dedicated bypass road. Therefore, a 'bypass' road should be constructed (say, leaving a gap of at least 200 meters) for the purpose of transportation of the minerals so that the impact of sound, dust and accidents could be mitigated. However, till the bypass road is constructed for which June 2025 is the given deadline, the project proponent shall use the existing</p>
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<p><i>will be as per IRC guidelines with respect to complying with traffic congestion and density and to be completed by June 2025'. All other terms and conditions mentioned in the EC letter dated 05.01.2017 shall remain unchanged.</i></p>	<p>road network ensuring the safety of the people, no damage due to transportation of the mineral; and transport of minerals should be as per IRC guidelines with respect to complying with traffic congestion and density. Beyond June 2025, existing road shall not be used for the purpose of transportation. The project proponent shall bear the cost towards the widening and strengthening of existing public road network to be used for the transportation".</p> <p>All the other terms and conditions mentioned in the EC letter dated 05.01.2017 shall remain unchanged with following additional specific conditions:</p> <ol style="list-style-type: none"> <li>i. Removal of specific condition no.6 in EC dated 5.01.2017.</li> <li>ii. The project proponent shall take appropriate mitigation measures during excavation and transportation of mineral, Compaction of Road; Avenue Plantation along the both side of the transportation road; Regular water spraying to suppress the fugitive dust emissions; avoid over loading of tipper/dumper and spillage of material; covering of tippers with tarpaulin; regular maintenance of transportation vehicles having confirming to PUC; record of dispatch of waste material and transit slips; regular monitoring of the fugitive emissions; Personal Protective Equipment to all the workers; establishment of Driving Management Centre for training</li> </ol>
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		<p>to all drivers about safe and environment friendly driving.</p> <p>iii. The project proponent shall strictly adhere that the transport of limestone shall be from 8 AM to 6 PM with maximum speed of 25 km/hr on public road. Transportation during night time is strictly prohibited.</p> <p>iv. The project proponent shall make an arrangement for sprinkling of the water for dust suppression on haul roads and transportation roads through water sprinklers. Necessary water spraying arrangements shall be made at excavation and transfer points by deploying the mist generators or other suitable means for suppression of the dust.</p> <p>v. The Project proponent shall undertake the avenue plantation on either side of the village road with broad leaved tree sapling of not less than 12 feet height and maintenance of the same shall be carried out.</p> <p>vi. The project proponent ensure that the watch guards shall manage the traffic at the junction of the public road and should also ensure that the speed of the trucks shall not exceed 25 km/hr while passing through the proximity of the villages.</p> <p>vii. Main haulage road within the mine lease should be provided with a permanent water sprinkling arrangement for dust suppression. Other roads within the mine lease should be wetted regularly with tanker-mounted</p>
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		<p>water sprinkling system. The other areas of dust generation like crushing zone, material transfer points, material yards etc. should invariably be provided with dust suppression arrangements. The air pollution control equipment's like bag filters, vacuum suction hoods, dry fogging system etc. shall be installed at areas prone to air pollution. PP shall take necessary measures to avoid generation of fugitive dust emissions.</p> <p>viii. The project proponent shall implement the mitigation measure to control the impact due to transportation such as regular water sprinkling shall be practiced before transportation of minerals, trucks shall not be overloaded, spillage of the mineral to be avoided and covered transportation shall be done. Implementation reports with supporting documents &amp; photographs before and after shall be submitted to the Integrated Regional Office of MoEF&amp;CC before 1st July of every year for the activities carried out during previous year.</p> <p>ix. The project proponent during transportation should monitor the noise level and ground vibration as well as Ambient Air Quality throughout the route in down wind direction. Use of suitable water-soluble chemical dust suppressing agents may be explored for better effectiveness of dust control system. It shall be</p>
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		<p>ensured that air pollution level and noise and vibration levels conform to the standards prescribed by the MoEFCC/ Central Pollution Control Board.</p> <p>x. The Project Proponent should install the continuous ambient air quality monitoring stations in such numbers as per the scientific study and in consultation with CPCB.</p>
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**(1.0.1) Deliberation & Circulation on the Minutes of the 43<sup>rd</sup> EAC meeting held during 14<sup>th</sup> to 16<sup>th</sup> December, 2021.**

The minutes of 43<sup>rd</sup> EAC meeting held during 14<sup>th</sup> to 16<sup>th</sup> December, 2021 were placed before the members of the Committee.

**DAY 1: 28<sup>TH</sup> DECEMBER, 2021 (TUESDAY)**

**1.1 Proposal for Environmental Clearance of Parewar B Limestone Mine with total excavation of 14,00,000 TPA, total Limestone production - 10,00,000 TPA (SMS grade - 1,00,000 TPA, Cement grade- 9,00,000 TPA), Inter-burden (IB) - 23,860 TPA, Top Alluvium (OB)-42,804 TPA, Sub Grade/Mineral Reject 3,33,335 TPA along with 750 TPH Crusher with vibrating screen in the mine lease area of 515.20 ha located at Village Parewar, Tehsil & District Jaisalmer, Rajasthan by Wonder Cement Ltd.– [File. No: IA-J-11015/25/2021-IA-II(M) Proposal No: IA/RJ/MIN/205768/2021] –Reconsideration of Environmental Clearance (EC)**

**EAC Meeting Details:**

EAC meeting	44 <sup>th</sup>
Date of Meeting	28 <sup>th</sup> December – 29 <sup>th</sup> December, 2021

**2. Project details:**

Name of the Project	Parewar "B" Limestone Mine (ML Area – 515.20 Ha) for proposed total excavation of 1400000 TPA, total limestone production of 10,00,000 TPA (SMS grade -1,00,000 TPA, Cement grade- 9,00,000 TPA), Inter burden (IB) of 23,860 TPA, Top Alluvium(OB) of 42,804TPAand subgrade/mineral reject of 3,33,335 TPA along with 750 TPH Crusher with Vibrating
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	Screen.	
Location	Village	Parewar
	Tehsil/Taluka	Jaisalmer
	District	Jaisalmer
	State / UT	Rajasthan
	Latitudes	27°17'31.76919"N to 27°20'9.53770"N
	Longitudes	70°44'4.48756"E to 70°44'49.75482"E
	SoITopo sheet No.	40 I/11
Company Name	M/s Wonder Cement Limited	
Accredited Consultant Organization and its certificate no.	Udaipur Min- Tech Pvt. Ltd. NABET/EIA/1720/SA 092	
KML file	Submitted	
Seismic zone	III	

### 3. Category details:

Category of the project	Category "A", Project or Activity 1(a) – 3 for Mining of Mineral
Provisions	As per EIA Notification S.O. 1533 (E), dated 14th September 2006 and subsequent amendments
Mining lease Area	515.20 Ha

### 4. ToR Details:

ToR Proposal No.	IA/RJ/MIN/205768/2021
Online application date for Form-I	24 <sup>th</sup> March 2021
EAC meeting for ToR	28 <sup>th</sup> June 2021
ToR Letter No.	IA-J-11015/25/2021-IA-II (M)
ToR grant Date	26 <sup>th</sup> July, 2021
Production capacity (TPA)	Limestone: 10,00,000/- TPA (SMS grade -1.0 Lac, Cement grade- 9.0 Lac)
Soil	Top Alluvium- 42804 TPA
Waste	Inter-burden (I/B)- 23,860 TPA
Others	Sub Grade/Mineral Reject-3,33,335 TPA

Total Excavation	14,00,000/- TPA (ROM)
Crusher	750 TPH Crusher with Vibrating Screen to be setup within the mining lease area
EIA/EMP uploaded on	23 <sup>rd</sup> October 2021
Earlier EAC meeting for EC appraisal	41 <sup>st</sup> EAC meeting held during 15 <sup>th</sup> – 16 <sup>th</sup> November and 18 <sup>th</sup> November, 2021. The Committee <b>deferred</b> the proposal due to lacunae in the proposal.

#### 5. Lease Details:

Letter of Intent	The LOI for the instant mine site was granted to M/s Wonder Cement Limited in accordance with mines & Minerals (Development and Regulation) Act, 1957 and its subsequent amendment and the Mineral (Auction) Rules, 2015 through e-auction conducted by Directorate of Mines & Geology (DMG), Government of Rajasthan	
	Letter No.	P.3(4)Khan/Gr.-2/2020
	Date	25 <sup>th</sup> January 2021

#### 6. Mining plan details:

Mining Plan (approved by Indian Bureau of Mines/DMG)	Letter No.	584 (4) (3) (1867)/ 2021- KHANI-AJM
	Date	27 <sup>th</sup> May 2021
	Validity	26 <sup>th</sup> May 2026
<b>Mining Parameters</b>	<b>Quantitative Description</b>	
Method of Mining	Fully Mechanized Open Cast method	
Mineable reserves (Source: Approved Mining Plan)	Total Mineable Reserves: 147.3853 Million Tones Cement grade: 139.8435 Million Tones SMS grade: 7.5418 Million Tones	
Bench Height	3.5-6.0 m	
Bench Width	10-20 m	
Individual bench slope	85°	
Overall pit slope	45°	
Drilling/Blasting	180 m per day & 26 holes per day blast	
RoM output size	SMS Grade: 30 to 80 mm Cement Grade: 10 to 80 mm	
Life of mine	50 years	
Working days	330 days	
Transportation details	Transportation from mine pit to crusher will be done by dumpers via haul road within mine lease area and crusher to railway yard is transported by tippers through district tar road and SH-68. The limestone	



	from mines to railway yard will be transported by 25 T Tippers capacity. Material will be transported for 330 days per annum.
Dumper's capacity	25 Tonnes

### 7. Land Area Breakup:

Private land	32.00 Ha.
Government land	483.20 Ha.
Mining lease area	515.20 Ha.

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

Particulars	Particular's name	Distance & Directions
Nearest Town	Parewar	4 Km
Nearest Airport	Jaisalmer Airport	68 km
Nearest Highway	SH 68	12 Km West
	NH-15	58 Km South
Nearest Railway Station	Jaisalmer	52 km

### 9. Water requirement

Total water requirement	150.00 KLD	Fresh water	126 KLD
		Treated water	24 KLD
Purpose	Drinking & Sanitations	20.0 KLD	
	Dust Suppression during mining, Crusher Operation and Machinery Washing	100.0 KLD	
	Plantation	30.0 KLD	
Source	The sources of water i.e.Indira Gandhi Nehar project / Ramgarh Canal		
Permission	Applied for Permission from Indra Gandhi Canal Circle, Jaipur (Rajasthan)		

### 10. Presence of Environmentally Sensitive areas in the study area

Forest Area/Environmental Sensitivity Zone	Land/Protected	Yes/No	Details of Certificate/letter/Remarks
Forest Land		No	-
National Park		No	
Wildlife Sanctuary		No	

Schedule-1 species	Yes/No	Details of Certificate/letter/Remarks
Schedule-I species	No	No schedule I species found within the study area. Authenticated list of Flora and Fauna is submitted from

	District Forest Officer.
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### 11. Green belt/plantation details:

Proposed area for green belt/plantation	170 ha. (At the end of life of mine) 170 ha = (97.0 ha Mined out benches, 15.0 ha Alluvium Dump, 8.0 ha IB dump (Face Reject) & 50 ha barren land
Budget for green plant & plantation till the end of life of mine.	Capital cost: 25 lacs Recurring cost: 16 lacs
Budget for nursery	5 lacs
7.5 m barrier & non-mineralized zone	5.00 Ha

### 12. Baseline detail

Baseline Data (Air / Water / Noise / Soil / Ground water table/ others)		
Period of baseline data collection	March to April 2021 and June 2021	
Season (Summer / Pre-monsoon / Post-monsoon / Winter)	Summer Season	
Air quality monitoring	PM <sub>10</sub>	53.3 - 76.0 µg/m <sup>3</sup>
	PM <sub>2.5</sub>	19.0 - 32.70 µg/m <sup>3</sup>
	SO <sub>x</sub>	3.30 - 18.0 µg/m <sup>3</sup>
	NO <sub>x</sub>	5.10- 17.8 µg/m <sup>3</sup>
Surface water quality monitoring	pH	7.4 – 7.9
	DO	5.7 - 6.3 mg/l
	BOD	2.82– 3.82 mg/l
	COD	11.22 - 15.25 mg/l
Noise monitoring	Day time	50.4 - 69.2 dB(A)
	Night time	40.1 - 57.3 dB(A)
Soil quality monitoring	pH	7.07 - 7.47
	Nitrogen	10.71 - 21.42 kg/ha
	Phosphorus	5.11 - 14.40 kg/ha
	Potassium	40 - 110 kg/ha
Sandstorm speed	Summer	20-60 km/hr.
	Winter	6-20 km/hr.
Correlation to impact on water property (Additional water quality data was collected for one week as per ADS dated 26.11.2021)	The Biological Oxygen Demand and turbidity of collected water samples is between range from 0.4 to 1.3 mg/l and <1 NTU respectively. The analysed values are well within the prescribed standard of IS 10500:2012 standard. Hence, there is negligible value of BOD level in surface water the less effect on	

	water quality for aquatic life and other uses.
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### 13. Public Hearing Details:

Advertisement for PH with date	13 <sup>th</sup> August 2021
Date of PH	15 <sup>th</sup> September 2021
Venue	Rajiv Gandhi Atal Seva Kendra village-Parewar, Tehsil & District-Jaisalmer (Rajasthan)
Chaired by	Shri. Hari Singh Meena, Additional District Collector, Jaisalmer
Main issues raised during PH	Employment in industry, Social & Economic development work in nearby area in the field of Education, Health etc., Pollution etc.
Budget proposed for addressing issues raised during PH	212 Lacs

### 14. Court case details:

Court Case	No court case/litigation is pending against the project.
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### 15. Affidavit/Undertaking details:

Affidavit on a Non-Judicial stamp paper of Rs. 100 bearing AZ 265110 dated 08.11.2021 as per Ministry's OM dated 30.05.2018	The company hereby undertake by affidavit that it will comply with all the statutory requirement & judgment of Hon'ble Supreme Court dated 2 <sup>nd</sup> August 2017 in writ Petition (civil) No. 114 of 2014 in the matter of common cause versus Union of India & Ors.
PP submitted an undertaking dated 16.10.2021	The conditions laid down in Terms of Reference prescribed by MoEF&CC, New Delhi vide letter no. J-11015/25/2021-IA.II (M) dated 26.07.2021 have been complied with, and the data submitted and information presented in this report are factually correct.
Consultant submitted an Undertaking dated 08.11.2021	The Consultant submitted an undertaking to the effect that the data and the information provided in the EC application of Parewar B Limestone mine are to the best of consultant's knowledge and if any information is found to be false at any stage, then, EC would be rejected.

**16. ADS details:** The proposal for Environmental Clearance was earlier considered in the 41<sup>st</sup>EAC meeting held during 15<sup>th</sup> – 16<sup>th</sup> November and 18<sup>th</sup> November, 2021. The Committee **deferred** the proposal due to the following:

S.No	ADS dated	ADS reply dated 13.12.2021																								
	<b>26.11.2021</b>																									
1	The project proponent needs to properly demonstrate the EMP for Kachcha road, plantation to control particulate generation, vehicletyre washing etc.	The 1.2 km Kachcha road will be converted into Bitumen Road/ Tar Road. The width of the road will be 9 m. Undertaking in this regard is submitted.																								
		It is also proposed to create avenue fast growing tree plantation on two sides of the road to control the particulate matter emission. The following native/ local plant species will be planted in consultation with forest department and in line with the CPCB guidelines.																								
		<table border="1"> <thead> <tr> <th>S.No.</th> <th>Local Name</th> <th>Species</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Rohira</td> <td>Tecomellaundulata</td> </tr> <tr> <td>2</td> <td>Kumatiyo/gum arabic</td> <td>Acacia senegal</td> </tr> <tr> <td>3</td> <td>Jaal/peelu/dhalu</td> <td>Salvadorapersica</td> </tr> <tr> <td>4</td> <td>Kharojaal</td> <td>Salvadoraoleoides</td> </tr> <tr> <td>5</td> <td>Neem</td> <td>Azadirachtaindica</td> </tr> <tr> <td>6</td> <td>Shisham/chirhol</td> <td>Dalbergiasissoo</td> </tr> <tr> <td>7</td> <td>Kair/ker/kareel</td> <td>Capparis decidua</td> </tr> </tbody> </table>	S.No.	Local Name	Species	1	Rohira	Tecomellaundulata	2	Kumatiyo/gum arabic	Acacia senegal	3	Jaal/peelu/dhalu	Salvadorapersica	4	Kharojaal	Salvadoraoleoides	5	Neem	Azadirachtaindica	6	Shisham/chirhol	Dalbergiasissoo	7	Kair/ker/kareel	Capparis decidua
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2	The project proponent needs to collect and submit the water quality data at least for one week as issues related to turbidity and BOD has not been generated properlyand addressed. Also submit the correlation to the impact on water properly.	<p>The water sampling for one week has been carried out at 5 locations within the 10 km radius study area of mine. Analysis report is submitted with the ADS reply.</p> <p><b>Correlation to impact on water property:</b> The Biological Oxygen Demand and turbidity of collected water samples is between range from 0.4 to 1.3 mg/l and&lt;1 NTU respectively. The analyzed values area well within the prescribed IS standard. Hence there is insignificant impact on surface water quality and aquatic life.</p>																								
3	The project proponent needs to submit the air quality data along with the snapshot for over a period of 1 week at	The Ambient Air Quality monitoring at Railway Siding, Mine site, Parewar Village, KabirBasti, Naga Village, Joga Village, Kakab and sonu Village have been carried for one week from 29 <sup>th</sup> November 2021 to 4 <sup>th</sup> December 2021. Details are submitted with the ADS reply.																								

	the railway siding, in the mining area and near the villages.	
<b>4</b>	The project proponent needs to revise the EMP cost by removing the cost of monitoring and the laboratory and adding the plantation cost at the mine. The plantation cost should be worked out for entire 170 Ha of area[97.0 ha for mined out pit / benches including 28 ha temporary backfilled, 15 Ha on Alluvium Dump area, 8.0 Ha on IB dump (Face Reject) area, & 50.0 ha (7.5 mtr statutory barrier zone & barren land) and deepest mined out area for Rainwater storage of 78.957 Ha and Balance mined out area (243.726 ha) for levelling and regressing]as shown in table submitted including the peripheral plantation in 5 years. The cost of plantation is to be submittedyear-wise and phase-wise in the EMP budget.	The Monitoring cost has been considered separately in our revised EMP Budget and presented in a table in ADS reply. The plantation cost worked out for entire 170 Ha of area. The Year wise detailed Green Belt development plan/ year wise & phase wise along with capital and recurring cost has been prepared and submitted with ADS reply.
<b>5</b>	The project proponent needs to include the plantation	The Year wise Plantation detail with budgetary provisions along the existing road connecting mine lease to SH-68 (Jaisalmer - Tanotmata road) towards

	<p>along the existing road connecting mine lease to SH-68 (Jaisalmer-Tanotmata road) towards Sanu Railway Siding which is 12 Km stretch and 1.2 Km long kachcha road in EMP. The regular monitoring cost of air quality, soil quality, water quality and noise level needs to be included in the monitoring budget for post environmental monitoring budget. This should be added to the railway siding regular monitoring. Separate environmental monitoring cost needs to be envisaged with capital and recurring cost.</p>	<p>Sanu Railway Siding which 12 km covering 10.8 Km road and 1.2 Km long kachcha road has been prepared and submitted with ADS reply.</p>
<p><b>6</b></p>	<p>The project proponent needs to submit the traffic density on the road and safety concerns including the safety precautions. Traffic density needs to be worked out including the traffic in village and safety precautions within the village and all along the road</p>	<p>The traffic density monitoring has been carried out at following two locations:</p> <ol style="list-style-type: none"> <li>1) Monitoring Location (T-1): At Junction of SH-68(JaisalmerTanot Mata BRO Road) &amp; Road towards Railway Siding. (Dt.3/12/2021)</li> <li>2) Monitoring Location(T-2): Near junction of SH-68(Jaisalmer-Tanot Mata BRO Road) &amp;Dist Tar Road towards Village Parewar&amp; Mine Site. (Dt.1/12/2021)</li> </ol> <p>Traffic density measurements were made continuously for 24 hours and exiting total no of vehicle of PUC/hour is submitted with ADS reply.</p>

	should be prepared and should be a part of EMP.	
<b>7</b>	The project proponent needs to submit the undertaking of commitment for converting the 1.2 Km long Kachcha road to tar road to avoid air pollution.	The Undertaking of commitment for converting the 1.2 Km long Kachcha road to tar road to avoid air pollution is submitted.
<b>8</b>	The project proponent needs to revise the EMP for public hearing by revisiting the specific activity wise budget with capital (for a period of 3 years) and recurring cost (throughout the life of mine).	Detailed 3 Years revised EMP budget on the basis of for public Hearing issue raised in Public Hearing is submitted.
<b>9</b>	Since the mineral is limestone, the particulate matter at the railway siding and silica content needs to be estimated. If there is any village near-by the railway siding (within 5 Km radius), then cumulative impact of total operation of railway siding (RSMML and Wonder Cement) be worked out and presented. EMP, if required, accordingly should also be prepared.	The particulate and silica monitoring at railway siding have been carried out the results are presented as annexure 3 &4. The results show that Particulate matter is well within the permissible limit of National Ambient Air Quality standard. Silica content is found to be Below detectable limit (Monitoring report is submitted) Sanu village is the only village at a distance of 1 km from the Sanu railway siding which is falling within the 5 km radius of the Sanu railway siding. The cumulative modelling of total mineral transportation of Wonder cement limited and Rajasthan State Mines & Minerals (RSMM) have been carried out and submitted.

<p><b>10</b></p>	<p>The project proponent needs to submit the possibility of using silos at the dedicated railway siding to reduce fugitive emissions.</p>	<p>The possibility to construct the silo at railway siding for loading the limestone in to the railway wagon, as suggested by EAC committee has been investigated. The silos are generally used for storage of materials of fine size particles like cement, fly ash and fine raw material.</p> <p>The limestone material to be handled at railway siding will be coarse size of 10-80 mm i.e (e.g. 10-80 mm for cement grade and 30-80 mm for SMS grade). This is the screened material and presence of fines is negligible, so dust generation during handling will be negligible. There will not be permanent storage of lime stone at railway siding. Material received from mines will be immediately transferred to rail wagons. Further only requisite / minimum quantity of limestone that required to be transported for loading of our rack will be sent to the railway siding hence we are not anticipating stacking limestone at railway siding for longer period.</p> <p>Water mist sprinkling system will be installed during limestone loading at mining site and at during un loading at crusher site. The material which is crushed in the limestone crusher (along with vibrating screen) has the provision of bag filters &amp; water sprinkler for arresting fine dust. The resultant limestone of coarse size will have insignificant fine dust compositions which will not results fugitive emission. Meanwhile we are arranging the water spray system at loading point at railway siding and at mines loading point. The same practice is being adopted by other existing companies while loading of sized limestone.</p> <p>Further it is proposed to carry out the regular environmental monitoring at railway siding for which the budget provision is already considered and submitted.</p>
<p><b>11</b></p>	<p>The project proponent needs to examine the impacts of using the road passing Parewar village and scenario to be submitted.</p>	<p>Transportation impact has been considered for incremental GLC concentration in Air Quality Impact Assessment. The incremental GLC of PM 10 &amp; PM 2.5 at Parewar village is 0.15 ug/m<sup>3</sup> &amp; 0.40 ug/m<sup>3</sup> respectively. The Resultant GLC (Ground level concentration ) is 70.65 ug/m<sup>3</sup> &amp; 30.9 ug/m<sup>3</sup> which is well within the permission limit of NAAQ standard. Only about 280 m stretch of road is passing at the</p>



	edge of Parewar village. The road passing Parewar village is outside/ at the edge of Parewar village hence no impact on the Parewar village is anticipated.
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**17. Details of the EMP:**

S. No.	Particulars	Rupees in Lakh	
		Capital Cost in Rupees Lakh	Recurring Cost in Rupees Lakh
1	Installation of Bag Filter in crusher, transfer points and close conveyor belt	100	10
2	Acoustical measures at crusher control room	25	4
3	Water mist sprinkler at limestone unloading hopper at crusher, transfer point and belt conveyors	20	5
4	Water sprinkler at limestone transfer point	20	5
5	Water sprinkler at limestone at belt conveyors	15	5
6	Truck mounted water sprinkler for mining area	30	10
7	Fixed water pipeline with sprinkling nozzles on two edges of haul roads	25	5
8	Tippers Tyre Washing System	30	5
9	Oil Water Separator at heavy earth moving machinery washing area	15	5
10	Construction of garland drain	25	5
11	Construction of silting pit for storm water drainage system	15	4
12	Sewage Water Treatment System	50	5
13	Construction of Rainwater harvesting structures	<b>20</b>	<b>5</b>
14	Miscellaneous Work	25	10
	<b>Sub Total</b>	<b>415</b>	<b>83</b>
15	<b>Budget for Plantation/Greenbelt Development in Mine Lease Area</b>		
15.1	Plantation & Green belt (2.0 ha, 5000 nos) in I <sup>st</sup> year i.e 2022-23 on 7.5 Statutory boundary and Non Mineralised Zone (crusher area).	25	5
15.2	Plantation & Green belt (2.0 ha, 5000 nos plant) in II <sup>nd</sup> year i.e FY 2023-24 on 7.5 Statutory boundary and Non Mineralised Zone (crusher area)	25	5
15.3	Plantation & Green belt (2.0 ha, 5000 nos plant) in III <sup>rd</sup> year i.e FY 2024-25 on 7.5 Statutory boundary and Non Mineralised Zone	25	5
15.4	Plantation & Green belt (2.0 ha, 5000 nos plant.)	25	5

	IV <sup>th</sup> year i.e in FY 2025-26 on 7.5 Statutory boundary and Non Mineralised Zone .		
15.5	Plantation & Green belt (2.0 ha, 5000 nos plant) V <sup>th</sup> year i.e in FY 2026-27 on 7.5 Statutory boundary and Non Mineralised Zone .	25	5
15.6	Plantation & Green belt (160 ha, 242500 nos plant) onwards from FY 2027-28 upto End of Mine Life as per Green Belt Plan	2000	400
15.7	Drip Irrigation system for maintenance of Plants	30	5
	<b>Sub Total</b>	<b>2155</b>	<b>430</b>
16	<b>Budget for Plantation/Greenbelt Development in along the existing road connecting mine lease to SH-68 towards Sanu Railway Siding which is 10.8 Km stretch and 1.2 Km long kachcha road in EMP 4000 trees at a distance of 3 meter on each side of road and total 8000 trees will planted.</b>		
16.1	I <sup>st</sup> Year ( in FY 2022 - 2023) 6000 nos plant	78	18
16.2	II <sup>nd</sup> Year( in FY 2023 - 2024) 1000 nos plant	13	3
16.3	III <sup>rd</sup> Year( in FY 2024 - 2025) 1000 nos plant	13	3
	<b>Sub Total</b>	<b>104</b>	<b>24</b>
17	<b>EMP Cost for public hearing</b>		
17.1	EMP Cost for Public Hearing Action Plan for 3 Years	211.98 25	52.265
	<b>Sub Total</b>	<b>211.98 25</b>	<b>52.265</b>
18	<b>Post Environmental Monitoring Cost of Air quality, Soil quality, Water quality and Noise level in Mining Area Including Railway Siding</b>		
18.1	Establishment of Environmental Laboratory and Monitoring Equipment's for Ambient Air, Water, Noise, Soil etc.	50	2
18.2	Establishment of 4 Nos. of AAQMS Manual Ambient Air Monitoring Station	25	2.5
18.3	Establishment of 2 Nos. of online Continuous AAQMS Monitoring Station	120	10
18.4	Post Environmental Monitoring of Water Quality including Surface water, Waste Water Quality (STP & Oil water Separator etc)	-	5
18.5	Post Environmental Monitoring of Ambient Air Noise, Work Zone Noise, Personal Noise etc	-	4
18.6	Post Environmental monitoring for Soil	-	2
18.7	Post Monitoring of Blast Vibration	5	2
	<b>Sub Total</b>	<b>200</b>	<b>27.5</b>
19	<b>EMP Cost for Kachcha road</b>		

19.1	Conversion of Kaccha WBM road into Tar road	<b>30</b>	<b>2</b>
19.2	Plantation Cost is already considering in point No. 8 as per Our Green belt Development Plan	<b>0</b>	<b>0</b>
19.3	Water sprinkling and other miscellaneous cost for control of particulate emission	<b>3</b>	<b>1</b>
	<b>Sub Total</b>	<b>33</b>	<b>3</b>
<b>20</b>	<b>EMP Cost for Road Safety Precautions</b>		
20.1	Development of Road Breaker in road for controlling of speed	10	2
20.2	Signage /instruction of road safety in road side to control speed limit/ Follow the traffic rule /use of helmets etc.	2	0.5
20.3	Any other miscellaneous for road safety work	2	1
	<b>Sub Total</b>	<b>14</b>	<b>3.5</b>
	<b>Grand Total</b>	<b>3133</b>	<b>624</b>

**18. Details of project cost and employment:**

<b>Particulars</b>	<b>Budget (Rs. In Crore)</b>
Capital Cost for Environment Protection	29.21
Budget for addressing the Public Hearing issues	Capital for 3 years - 2.12 Crore and recurring cost/on wards 4 <sup>th</sup> year - 0.52 Cr.
Total Cost for EMP	EMP :29.21Crore + ESR : 2.12 Crore Total: 31.33 Crore
Recurring Cost for EMP	5.72 Crore for EPM + 0.52 Crore for ESR = 6.24 Cr.
Project Cost	35.27
Employment	130 persons

**19. Observation and Recommendation of the Committee:**

The proposal for Environmental Clearance was considered in the 44<sup>th</sup>EAC (Non-Coal Mining) meeting held during 28<sup>th</sup> – 29<sup>th</sup>December, 2021. After detailed deliberations made by the Project Proponent and the Consultant, the Committee observed that the project proponent presented the EMP budget of Rs. 211.9825 Lakhs for addressing public concerns allocated for ambulance, health facilities, annual camp, water supply, roads etc. which seems to be under-budgeted and needs to be revised to about 3 crores as per the suggestions made. The Committee also noted that the reply for ADS dated 26.11.2021 point no. 10 i.e., 'The project proponent needs to submit the possibility of using silos at the dedicated railway siding to reduce fugitive emissions' was not satisfactory. Therefore, the Committee **deferred** the proposal due to want of following information:

- 1) The project proponent needs to revise and submit the EMP budget for ambulance, health facilities, annual camp, water supply, roads etc. which seems to be under-budgeted and needs to be revised to about 3 crores as per the suggestions made.
- 2) The project proponent needs to submit a detailed note on size of the material transported its transit storage at siding before loading and the measures proposed for fugitive emissions.
- 3) The project proponent needs to submit a detailed note regarding impacts due to transportation near Parewar village and protective measures suggested near the villages such as regarding plantation, regulation of speed to 25 km/hr, installation of cameras to regulate the speed for the entire stretch. Also, the road should be 9 m wide with a divider with proper safety measures. The budget of the same needs to be included in the EMP.
- 4) The project proponent needs to submit a written commitment that the project proponent will not access the current private land for next 20 years and will permit the agricultural practices to continue without any environmental impacts.
- 5) The project proponent needs to submit the details of separation of -10mm sized material and above. The project proponent also needs to submit the control measures taken and the possible impacts with control measure.
- 6) The project proponent needs to submit the impacts on Kabirbasti which is 1.2 km in the downwind direction (North) from the mine boundary.
- 7) The project proponent needs to re-check and submit the correct water quality data with a NABL accredited laboratory.

**1.2 Proposal for Amendment of Environmental Clearance for continuation of iron ore transportation through road for another 5 years from 23.01.2022 for Dhobil Iron Ore Mining Project in the mine lease area of 513.036 ha located at Village Dhobil, Tehsil Manoharpur, District West Singhbhum, Jharkhand by M/s SAIL - Bokaro Steel Plant – [File. No: J-11015/251/2009-IA.II(M); Proposal No: IA/JH/MIN/242657/2021] - Amendment of Environmental Clearance**

**EAC Meeting Details:**

EAC meeting	44 <sup>th</sup>
Date of Meeting	28 <sup>th</sup> December – 29 <sup>th</sup> December, 2021

**2. Project details:**

Name of the Proposal	Proposal for Amendment of Environmental Clearance for continuation of iron ore transportation through road for another 5 years from 23.01.2022 for Dhobil Iron Ore Mining Project in the mine lease area of 513.036 ha	
Location	Village	Dhobil
	Tehsil	Manoharpur
	District	West Singhbhum
	State / UT	Jharkhand
	Latitudes	22 <sup>o</sup> 15' 53.3" N to 22 <sup>o</sup> 15' 53.1" N
	Longitudes	85 <sup>o</sup> 16'27.1" E to 85 <sup>o</sup> 16'27.9" E
	SoI Topo sheet No.	73F/7
Company's Name	M/s SAIL-Bokaro Steel Plant	
Accredited Consultant and certificate no.	MECON Limited NABET/EIA/2023/RA0195	
KML file	Submitted	

### 3. Category details:

Category of the project	Category "A", Project or Activity 1(a) – 3 for Mining of Mineral and 2(b) Mineral beneficiation
Provisions	EIA Notification dated 14 <sup>th</sup> September 2006
Mining lease Area	513.036 ha

### 4. EC Details:

Date of online application	03.12.2021
EC Letter Details	1) EC vide letter no. J-11015/251/2009-IA.II(M) dated 24.01.2012 & Modification dated 01.05.2012 for production of 0.75 million tonnes per year (MTPA) of iron ore involving mine lease area of 513.036 ha and initially allowed ore transport by road for 5 years. 2) EC Amendment vide letter no. J-11015/251/2009-IA.II(M) dated 19.04.2017 for allowing transportation of iron ore by road for further 5 years w.e.f. 23.01.2017 with a condition that the project proponent will put in place the conveyor system for transportation of iron ore within 5 years.
Production capacity	~0.248 Mm <sup>3</sup> /yr as per the Plan period 2022-23 to 2026-27
Waste	~0.017 Mm <sup>3</sup> /yr as per the Plan period 2022-23 to 2026-27
Crusher	Mobile crushing & screening systems

Earlier EAC meeting	42 <sup>nd</sup> EAC meeting held during 30 <sup>th</sup> November to 3 <sup>rd</sup> December, 2021 wherein the Committee <b>returned the proposal in the present form</b> . The Committee was of the view that the project proponent needs to submit afresh application for the above-mentioned requests along with the following information: 1) The Project Proponent needs to submit the certified compliance report by IRO and also submit the compliance particularly for road transportation. PP should also submit the Action Plan for Compliance of EC Conditions including Road Transportation. 2) The project proponent needs to submit EIA Report and corresponding EMP for the same for due diligence by the committee, supported by Approved Mining Plan for the Dump Mining and revised mineral extraction from the Mine
Reason for Amendment	Bokaro Steel Plant for continuation of iron ore transportation through road for another 5 years beyond 22 <sup>nd</sup> January 2022 without change in EC production capacity of 0.75 MTPA

#### 5. Lease Details:

Initial mine lease details	Name of Lessee	Shri Amarendu Prakash
	Mineral	Iron ore (Hematite)
	Area	513.036 ha (Forest Area)
	Date	08.03.1948 to 07.03.1978
	Lease deed execution date	08.03.1948
1 <sup>st</sup> Renewal of mine lease	Date	08.03.1978 to 07.03.1998
	Lease deed execution date	06.04.1980
2 <sup>nd</sup> Renewal of mine lease	Date	08.03.1998 to 07.03.2018
	Lease deed execution date	21.04.2018
1 <sup>st</sup> Extension of mine lease	Date	08.03.2018 to 07.03.2038
	Lease deed execution date	21.04.2018
Validity of mine lease	Till 07.03.2038	

#### 6. Mining plan details:

Mining Plan (approved by Indian Bureau of)	Letter No.	RAN/WSB/Fe/MP-10/2021-22
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Mines/DMG)	Date	15/11/2021
	Plan period	2022-23 to 2026-27
<b>Mining Parameters</b>	<b>Quantitative Description</b>	
Bench Height	6 m	
Bench Width	10 m	
Method of Mining	Mechanized Open cast mining by conventional shovel dumper combination with drilling / blasting / loading/ transportation	
Overall pit slope	<45 <sup>0</sup>	
Drilling/Blasting	Yes, mechanized open cast mining with 100 mm diameter wagon drill hole drilling and blasting along with shovel – dumper combination is practiced	
RoM output size	+10 to -40 mm	
Life of mine	15 years	
Transportation details	Through road up to Manoharpur Railway Siding (~31 km) and then by railway wagons to Bokaro Steel Plant (BSL)& other Steel Plants of SAIL. On completion of Conveyor System, ore transport by road will be phased out. Iron ore will be transported to railway siding by covered conveyor and then by railway wagons to BSL & Steel Plants of SAIL.	
Dumpers capacity	25tonne	

#### 7. Land Area Breakup:

Private land	-
Government land	513.036 ha (29.411 Ha , Reserve Forest area)
Total Mining lease area	513.036 ha

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

Particulars	Particular's Name	Distance &Directions
Village	Dhobil	-
Town	Manoharpur	~31 km on NW
Highway	NH-143	~90 km on NW
Existing Railway Station	Manoharpur	~31 km on NW
Water Body	HamsadagarNala&Koina river	~4.5 km on N& ~3.0 km E

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

Forest Land/Protected	Yes/No	Details of Certificate/letter/Remarks
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<b>Area/Environmental Sensitivity Zone</b>		
Forest Land	Yes	Forest Clearance (Stage II) has been obtained from MoEF&CC vide letter no. 8-20/98-FC dated 21.10.1998 which is valid up to 07.03.2038 for 29.411 ha. (29.411 Ha, Reserve Forest area) - Working restricted within 29.411 ha only.
National park	No	
Wildlife Sanctuary	No	

<b>Schedule-1 species</b>	<b>Yes/No</b>	<b>Details of Certificate/letter/Remarks</b>
Schedule-I species	Yes	The Mine is located in the Singhbhum Elephant Reserve. Schedule-I animals present in Buffer Zone are Wild Boar, Indian Elephant, Sloth Bear, Indian Mole Rat, Leopard, Wolf, Deer. No Schedule-I animals found in Core Zone.

#### 10. Green belt/plantation details:

Proposed area for green belt/plantation	27.49 ha at the end of Mining as per the Review of Mining Plan
Budget for green plant & plantation till the end of life of mine.	Rs.1.37 Crores approx.
Budget for nursery	Nil as saplings will be purchased from State Forest Deptt.
<b>Particulars for Green belt/plantation</b>	<b>Area covered (in Ha)</b>
7.5 m barrier & non-mineralized zone	27.49ha

#### 11. Court case details:

Court Case	<ul style="list-style-type: none"> <li>Common Cause Matter &amp; Judgment of Supreme Court of India dated 02.08.2017. Status: Stay order issued by the Court for continuation of Mining Operation.</li> <li>JSPCB filed a case for violation of E(P) Act, 1986 for credible action Status: Matter is pending at Chief Judicial Magistrate, Chaibasa</li> <li>Direction under section-5 of EP Act, 1986 issued by MoEFCC on 08.3.2017 Status: Direction resolved</li> </ul>
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#### 12. Affidavit/Undertaking details:

Affidavit on a Non-Judicial stamp paper of Rs.20 dated 02.11.2021	The company hereby undertake by affidavit that it will comply with all the statutory requirement & judgment of Hon'ble Supreme Court dated 2 <sup>nd</sup> August 2017 in writ Petition
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	(civil) No. 114 of 2014 in the matter of common cause versus Union of India &Ors.
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**13. Previous EC compliance and production details:**

Particulars	Letter no. and date
Certified EC compliance report	PP has submitted the certified EC compliance report obtained from Integrated Regional Office, Ranchi vide letter no. 103-356/12/EPE/4911 dated 27.09.2021
Past production details	Certified by DMO, Chaibasa vide memo no. 1732/M dated 13.12.2019 for the period 1993-94 to 2013-14. Certified production figure issued vide letter no.1222/M dated 29.10.2021for the period 2014-15 to 2020-21.

**14. Details of project cost and employment:**

Particulars	Details
Recurring Cost for EMP	Rs. 0.6 Crores per year
Project Cost	Rs.26.62 Crores
Employment	709 persons

**15. Observation and Recommendation of the Committee:**

The proposal for Amendment in Environmental Clearance was considered in the 44<sup>th</sup> EAC (Non-Coal Mining) meeting held during 28<sup>th</sup> – 29<sup>th</sup> December, 2021. After detailed deliberations made by the Project Proponent and the Consultant, the Committee observed that earlier the proposal was considered in 42<sup>nd</sup> EAC meeting held during 30<sup>th</sup> November to 3<sup>rd</sup> December, 2021 wherein the Committee returned the proposal in the present form and asked to submit the following: (a) The Project proponent needs to submit the certified compliance report by IRO and also submit the compliance particularly for road transportation. The project proponent should also submit the Action Plan for Compliance of EC Conditions including Road Transportation. (b) The project proponent needs to submit EIA Report and corresponding EMP for the same for due diligence by the committee, supported by Approved Mining Plan for the Dump Mining and revised mineral extraction from the Mine. During the presentation, the project proponent informed the Committee that Action Taken Report on recommendations/observations of IRO was submitted by PP to IRO, but it has not been re-certified yet. The IRO report submitted by project proponent was not satisfactory. Therefore, the Committee **deferred** the proposal due to want of following information:

- 1) The project proponent needs to submit the latest re-certified compliance report.

- 2) Due diligence for further continuation of road has to be substantiated to data of noise and vibration, deposition of particles on the trees along the both side of road due to transportation and mitigation measures for the same.
- 3) Placement of continuous air quality and noise quality monitoring stations along the route and at least a week data through these monitoring stations needs to be submitted.

**1.3 Proposal for Amendment in Terms of Reference vide letter No. 23-228/2018-IA.III (V) dated 08<sup>th</sup>July, 2021 for Limestone Mine with the production capacity of 1,25,400 TPA in the mine lease area of 29.4151 ha located at VillageSolnaranSutarmurgKhrew, Tehsil Pampore, District Pulwama by Mr. Riyaz Ahmad Panjra– [File. No: 23-228/2018-1A.III (V) Proposal No: IA/JK/MIN/242279/2021] - Amendment of Terms of Reference**

**EAC Meeting Details:**

EAC meeting	44 <sup>th</sup>
Date of Meeting	28 <sup>th</sup> December – 29 <sup>th</sup> December, 2021

**2. Project details:**

Name of the Project	Proposal for Amendment in Terms of Reference vide letter No. 23-228/2018-IA.III (V) dated 08th July, 2021 for Limestone Mine with the production capacity of 1,25,400 TPA in the mine lease area of 29.4151 ha.	
Location	Village	SulnarSatur Marg Khrew
	Tehsil/Taluka	Pampore
	District	Pulwama
	State / UT	Jammu & Kashmir
	Latitudes	34002'08.11"N to 34002'31.39" N
	Longitudes	75001'51.45" E to 75002'40.47" E.
	SoITopo sheet No.	43 N/4 (OSM sheet no. I43J4).
Company Name	Proprietor- Mr. Riyaz Ahmad Panjra	
Accredited Consultant Organisation and its certificate no.	Perfact Enviro Solutions Pvt Ltd. (NABET/EIA/1922/SA 0143)	
KML file	Submitted	
Seismic zone	V	

**3. Category details:**

Category of the project	Category "B", Project or Activity 1(a) for Mining of Mineral
Provisions	As per EIA Notification S.O. 1533 (E), dated 14th September 2006 and subsequent amendments
Mining lease Area	29.4151 ha
General condition	Dachigam National Park is 4.85 Km (North) from the lease area.

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

Date of application	Proposal No	Consideration	Details	Date of accord
23.03.2018	IA/JK/MIN/73601/2018	-	Limestone mine (MLA – 29.4151 Ha) for proposed production of 1,25, 400 TPA of M/s Cemtac Cements Pvt. Ltd.	08.07.2021
Reason for amendment	<p>a) As per approved mining plan and DGPS survey therein, there is small displacement in the boundary pillars. As per approved mining plan the production has been increased up to 0.16 MTPA till the validity of the mining plan i.e. 08.09.2022.</p> <p>b) Further, increase in production is required to match-up with the enhanced capacity of the proponent cement plant. Accordingly, annual production will be increased progressively to reach 0.90 MTPA (max production) during 2026-27. The PP has already got the EC for expansion of cement plant from capacity 200 TPD to 2500 TPD in two phases (Phase I increment up to 300 TPD and Phase II increment up to 2000 TPD) on 19.05.2016.</p>			

**5. Lease Details:**

Grant of Mine lease	Mine lease has been granted for 29.4151 ha. The Lease of Limestone mine was granted vide Govt. order no 104 IND of 2002 dated 28.03.2002. Lease agreement was executed on 09.09.2002.
Validity of mine lease	50 Years, i.e. (08-09-2052) as per MMDR Act 2015, the extension letter is yet to be received from the state government.

Additional information	Letter from Joint Director, Kashmir addressed to the Director Geology & Mining Department, Jammu dated 10.07.2020 was received by the project proponent regarding grant for extension of mining lease for the period of 50 years.
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## 6. Mining plan details:

Mining Plan(approved by Indian Bureau of Mines/DMG)	Letter No.	614(2)/MS-B-159/07-DDN
	Date	08.03.2021
	Validity	08.09.2022
<b>Mining Parameters</b>	<b>Quantitative Description</b>	
Bench Height	6 m	
Bench Width	8 m	
Method of Mining	Open cast mining with drilling & blasting	
Individual bench slope	75 deg	
Overall pit slope	The face slope will be at 75 degree and overall bench slope will maintain at 330 degree.	
Drilling/Blasting	Fully Mechanized open cast using HEMM and drilling blasting.	
RoM output size	600 mm x 900 mm	
Life of mine	37 Years	
Transportation details	The broken material will be transported using 50 Dumpers	
Dumpers capacity	9 tons	

## 7. Land Area Breakup:

Private land	-
Government land	29.4151 Barren land
Mining lease area	29.4151 ha

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

Particulars	Particular's name	Distance & Directions
Nearest Town	Nagendra	0.68km NNW
Nearest Highway	N. H. 1 A	10.26 Km SW
Nearest Railway Station	Pampore Railway station	13.43 km WSW
Nearest water bodies	Jhelum River tributary	2.20 km E

## 9. Water requirement

Total water requirement	26 KLD	Sprinkling Wet drilling, Plantation	23
		Drinking & Domestic Water	3

Source	Water will be sourced from own cement plant for which application for water approval is under process.
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**10. Presence of Environmentally Sensitive areas in the study area**

Forest Area/Environmental Sensitivity Zone	Land/Protected	Yes/No	Details of Certificate/letter/Remarks
Forest Land		No	Dachigam National park 4.5 km South direction
National Park		Yes	
Wildlife Sanctuary		No	

Schedule-1 species	Yes/No	Details of Certificate/letter/Remarks
Schedule-I species	Yes	There are 8 schedule 1 species
Wildlife Conservation Plan	No	Yet to be prepared

**11. Green belt/plantation details:**

Proposed area for green belt/plantation	Up to initial 3 years of mining 2.84 ha of safety zone will be covered by plantation. In addition at the end of the conceptual period entire mined-out land 26.49 ha will be afforested.
Budget for green plant & plantation till the end of life of mine.	Rs – 1 cr (Tentative cost)
Budget for nursery	Will be procured from Forest nursery
7.5 m barrier & non-mineralized zone	2.8491 ha

**12. Court case details:**

Court Case	No court case/litigation is pending against the project.
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**13. Certified past production details:** There has been past production during 2003-2017. The authenticated past production has been received by the Department of Geology and Mining, Srinagar vide letter no. MJM/DGM/Sgr/F-28/498 Dated 08-02-2018.

S. No.	Period	Dispatches (Tons)
01	2003 to 2004	120
02	2004 to 2005	32
03	2005 to 2006	220
04	2006 to 2007	1670
05	2007 to 2008	2680
06	2008 to 2009	6872
07	2009 to 2010	4525

08	2010 to 2011	6321
09	2011 to 2012	11940
10	2012 to 2013	12000
11	2013 to 2014	33519.89
12	2014 to 2015	21958
13	2015 to 2016	25054
14	2016 to 2017	35295
<b>Total</b>		<b>162206.89</b>

**14. Details of project cost and employment:**

Particulars	Budget
Project Cost	Rs. 2.0 Crore
Employment	68 persons

**15. Observation and Recommendation of the proposal:**

The proposal for amendment in Terms of Reference was considered in the 44<sup>th</sup> EAC meeting held during 28<sup>th</sup> to 29<sup>th</sup> December, 2021. After detailed deliberations made by the Project Proponent and the Consultant, the Committee observed that the mining plan has not been approved yet for total excavation of 0.90 MTPA. The Committee was of the view that the project proponent shall submit the approved mining plan for the proposed production for further appraisal of the proposal. Therefore, the Committee **deferred** the proposal.

**1.4 Proposal for Amendment of Terms of Reference for addition of top soil in the total excavation of Para Magra Ganeshpura Quartz & Feldspar Mining Project Mine with the total excavation of 2,45,092.8 TPA (ROM)(Topsoil- 48,742.8 MT, Quartz 42,120, Feldspar- 42,120 MT, Reject – 21,060 MT, Overburden – 91,050 MT) in the mine lease area of 136 ha located at Village Ganeshpura, Tehsil Kekri, District Ajmer, Rajasthan by M/s Stone Metals Private Ltd. – [File. No: IA J-11015/171/2018-IA.II(M); Proposal No: IA/RJ/MIN/243536/2021] - Amendment of Terms of Reference**

**EAC Meeting Details:**

EAC meeting	44 <sup>th</sup>
Date of Meeting	28 <sup>th</sup> December – 29 <sup>th</sup> December, 2021

**2. Project details:**

Name of the Project	Proposal for Amendment of Terms of Reference for addition of top soil in the total excavation of Para Magra Ganeshpura Quartz & Feldspar Mining Project Mine with the total excavation of 2,45,092.8
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	TPA (ROM) (Topsoil- 48,742.8 MT, Quartz 42,120, Feldspar- 42,120 MT, Reject – 21,060 MT, Overburden – 91,050 MT) in the mine lease area of 136 ha	
Location	Village	Ganeshpura, Tehsil, District,
	Tehsil/Taluka	Kekri
	District	Ajmer
	State / UT	Rajasthan
	Latitudes	25°52'11.96"N to 25° 52'27.28" N
	Longitudes	75°13'33.27" E to 75°12'34.58"E
	SoI Topo sheet No.	45O/1
Company Name	M/s Stone Metals Pvt. Ltd.	
Accredited Consultant Organisation and its certificate no.	Fulgro Environmental & Engg Services India Pvt. Ltd. NABET/EIA/1922/RA 0148 valid till Feb 09, 2022	
KML file	Submitted	
Seismic zone	II	

**3. Category details:**

Category of the project	Category "B", Project or Activity 1(a) for Mining of Mineral
Provisions	As per EIA Notification S.O. 1533 (E), dated 14th September 2006 and subsequent amendments
Mining lease Area	136 ha

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

Date of application	Proposal No	Consideration	Details	Date of accord
05.10.2018	IA/RJ/MIN/81518/2018	38th meeting held during November 15-16, 2018 and 12 <sup>th</sup> meeting held during December 19-20, 2019	Total exaction of 1, 96, 350 TPA (Quartz & Feldspar – 84,240 MT (ROM), Reject – 21060 MT, Overburden – 91050 MT) from Ganeshpura Mines (M.L. No. 08/95; Area: 136 Ha; 15000 TPA) located in Village: Ganeshpura, Tehsil: Kekri, District: Ajmer (Rajasthan) by M/s Stone Metals Private	14.02.2020

		Ltd	
Reason for amendment	Earlier the ToR was granted to the said project namely “Para MagraGaneshpura Quartz & Feldspar Mining Project (ML. No. 08/95)” mine lease area: 136.00 hectare located at near Village- Ganeshpura, Tehsil- Kekri& District- Ajmer, Rajasthan in line of MoEF& CC notification, S.O. 1530(E) dated 6th April, 2018, accordingly final EIA/EMP was submitted on dated 4/8/2021 and subsequently the project was listed at agenda item no. 1.4 of 38th EAC meeting held on dated 29 <sup>th</sup> September 2021. The Committee advisedto include the quantity of top soil in the total excavation.		
Production capacity of minerals	Quartz: 42,120 TPA Feldspar: 42,120 TPA Total: 84,240 TPA		
Soil	As per approved mining scheme 81,885 MT soil willbe generated during the 5 years of mining.		
Waste/OB	As per approved mining plan 1, 26,944.96 MT Waste and 2, 40,874.2 MT over-burden will be generated during the 5 years of mining.		
Total Excavation	Proposed Total Production Capacity: 2,45,092.8 TPA (ROM) (Topsoil- 48,742.8 MT, Quartz 42,120, Feldpsar- 42,120 MT, Reject – 21,060 MT, Overburden – 91,050 MT)		

#### 5. Lease Details:

Application for the Mining lease area and Date	Initially, Mining lease was sanctioned in favor of Sh. Padam Chand Agarwal S/o Sh. Laxmi Chand Agarwal vide letter no.-DMG/AJ/CC-5/F-1(1)08/1995/1099 dated 28/07/1998, executed on dated 20/8/1998 and registered on dated 27/08/1998 for a period of 20 year (27/08/1998 to 26/08/2018) for mineral Quartz and Feldspar for an area of 136 Ha.
Validity of mine lease	26/08/2048
First lease transfer	Lease was transferred in favor of Sh. Sanjay Choudhary S/o Sh. BhagchandChoudhary vide govt. order no.-DMG/AJ/CC-1/F.1(1)/08/1995/2592 on dated 06/10/2005 executed on dated 08/12/2005 and registered on dated 04/01/2006.
Second lease transfer	The lease was again transferred in the name of M/s Stone Metals Pvt. Ltd. having registered office 17, KashinathMullik Lane, Kolkata-700073 vide govt. order no.DMG/AJ/CC-5/F.1(1)/08/1995/1565 dated 05/07/2011 and executed on dated 18/07/2011 and transfer agreement was registered on dated 18/07/2011.

#### 6. Mining plan details:



Mining Plan(approved by Indian Bureau of Mines/DMG)	Letter No.	Modified Mining Scheme with Progressive Mine Closure Plan approved by SME, Ajmer in favor of M/s Stone Metals Pvt. Ltd. vide order no. SME/AJ/Mining Plan/F-A-521/2020/3292
	Date	18/08/2021
	Validity	2020-21 to 2024-25
<b>Mining Parameters</b>	<b>Quantitative Description</b>	
Bench Height	3 m	
Bench Width	>3 m	
Method of Mining	Open cast semi-mechanized	
Individual bench slope	45°	
Overall pit slope	60°	
Drilling/Blasting	Yes	
RoM output size	8.660 Ha (Pit area at the end of life of mine)	
Life of mine	21 Years	
Transportation details	Via roads	
Dumpers capacity	20 Tonne	

#### 7. Land Area Breakup:

Private land	57.297458 Ha
Government land	78.702542 Ha
Total Mining lease area (MLA)	136 Ha
Private land for crusher, workshop & other infrastructure outside the MLA	No, the crusher is not proposed

#### 8. / town/ highway/railway station / water bodies:

Particulars	Particular's Name	Distance & Directions
Nearest village	Ganeshpura village	~1.16 Km towards South-West direction
	Kekri	~12.00 Km towards NNW direction
Nearest Highway	SH-26	~2.60 Km towards West direction
Nearest Railway Station	Gulabpura Railway Station	~55.50 Km towards West direction
Nearest water bodies	Khari River	~2.65 Km towards South direction

#### 9. Water requirement

Total water requirement	50.47 m <sup>3</sup> /day	Fresh water	50.47 m <sup>3</sup> /day
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	Treated water	--
Source	Tanker water supply from nearby village Ganeshpura, pit water (existing pit)&seasonal pond water existing within the mine lease area.	
Additional information	There is an existing pit (Pit no. 01) in the mine lease area near to Pillar no. B-C and in general water remains available in that pit. Water from this exiting pit will be utilized for dust suppression and green belt purpose.	

#### 10. Presence of Environmentally Sensitive areas in the study area

Forest Land/Protected Area/Environmental Sensitivity Zone	Yes/ No	Details of Certificate/letter/Remarks
Forest Land	Yes	SaawarSuunderpura P/F ~5.96 Km towards South-East direction from the mine lease area as per the toposheet. Ghatiali R/F~7.20 Km towards SSE direction from the mine lease areaas per the toposheet
National Park	No	As per the DCF certificate issued by DCF Ajmer vide no. 1267 dated 4/3/2021.
Wildlife Sanctuary	No	

Schedule-1 species	Yes/No	Details of Certificate/letter/Remarks
Schedule-I species	No as per the authenticated list of flora and fauna from DCF Office, Ajmer	Vide letter no. 1268 dated 04/03/2021

#### 11. Green belt/plantation details:

Proposed area for green belt/plantation	44.88 Ha
Budget for green plant& plantation till the end of life of mine.	1.98 Crore
Budget for nursery	--

Particulars for Green belt/plantation	Area covered (in Ha)
7.5 m barrier & non-mineralized zone	3.7605 (Barrier Zone) 22.8489 (non-mineralized)
50 m safety zone of nallah, roads, electric lines	0.5288 (around Seasonal Pond) 5.0817 (safety zone HT Line) 12.6601 (Kachharasta&MetalledRoad )

#### 12. Court case details:

Court Case	No court case/litigation is pending against the project.
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**13. Certified compliance report and past production details:**

Particulars	Letter no. and date
Certified EC compliance report	File No. IV/ENV/R/MINE- 105/ 182/99 88+089 Dated: 12.07.2021
Certified past production	Certified past production details are submitted vide letter dated 16.07.2021 duly authenticated by DMG, Sawar.

**14. Details of project cost and employment:**

Particulars	Details
Project Cost	50 Lacs
Employment	38

**15. Observation and Recommendation of the proposal:**

The proposal for amendment in Terms of Reference was considered in the 44<sup>th</sup> EAC meeting held during 28<sup>th</sup> to 29<sup>th</sup> December, 2021. After detailed deliberations made by the Project Proponent and the Consultant, the Committee **recommended** the proposal for Amendment of Terms of Reference for addition of top soil in the total excavation of Para Magra Ganeshpura Quartz & Feldspar Mining Project Mine with the total excavation of 2,45,092.8 TPA (ROM)(Topsoil- 48,742.8 MT, Quartz 42,120, Feldspar- 42,120 MT, Reject – 21,060 MT, Overburden – 91,050 MT) in the mine lease area of 136 ha located at Village Ganeshpura, Tehsil Kekri, District Ajmer, Rajasthan by M/s Stone Metals Private Ltd. along with the following additional specific conditions: -

- i. Utilization of entire top soil re-use and plantation has to be documented in the EIA/EMP report. No top soil shall be wasted.
- ii. Total excavation shall be 2,45,092.8 TPA (ROM)(Topsoil- 48,742.8 MT, Quartz 42,120, Feldspar- 42,120 MT, Reject – 21,060 MT, Overburden – 91,050 MT).
- iii. All other terms and conditions mentioned in the ToR letter dated 14.02.2020 shall remain the same.

**1.5 Proposal for Environmental Clearance for Granite (Building Stone) Quarry Mine in the mine lease area of 4.7134 Ha located at S.F. Nos. 301/2, 285/1-2 in Mazhuvannur Village Block No. 29 and S. F. Nos. 410/8-2, 410/7-2, 410/5-2 in Arackappady Village, Block No.28, Mazhuvannur Grama Panchayath, Kunnathunad Taluk, Ernakulam District, Kerala by M/s United Granite – [File. No: IA-J-11015/118/2021-IA-II(NCM), Proposal No: IA/KL/MIN/243307/2019] - Environmental Clearance**

**EAC Meeting Details:**

EAC meeting	44 <sup>th</sup>
Date of Meeting	28 <sup>th</sup> December – 29 <sup>th</sup> December, 2021

The proposal of M/s United Granite is for grant of Environmental Clearance for Granite (Building Stone) Quarry Mine in the mine lease area of 4.7134 Ha located at S.F. Nos. 301/2, 285/1-2 in Mazhuvannur Village Block No. 29 and S. F. Nos. 410/8-2, 410/7-2, 410/5-2 in Arackappady Village, Block No.28, Mazhuvannur Grama Panchayath, Kunnathunad Taluk, Ernakulam District, Kerala. The mine lease area is located between Latitude 10°02'34.20N to 10°02'.40.25"N and Longitude 76°28'20.89"E to 76°28' 31.82"E. The mine lease area falls under the Survey of India Toposheet No: 58 B08, 58B12, 58C05, 58C09 and falls in Seismic Zone-III. The consultant for this project is Ecotech Labs Pvt Ltd, certificate No.NABET/EIA/1922/RA 0130 with validity from 27-05-2019 to 16-03-2022.

2. M/s United Granite has made an online application vide proposal no: IA/KL/MIN/243307/2019 dated 07.12.2021 and submitted Form 1, form 2, EIA/EMP report and pre-feasibility report, DSR as per 2016 Notification for the project mentioned above. The category of the project is Category "B", Project or Activity 1(a) – 4 for Mining of Mineral as per EIA Notification S.O. 1533 (E), dated 14<sup>th</sup> September 2006 and subsequent amendments. The project proponent applied at MoEF&CC as SEIAA, Kerala does not exist at present.

3. The Project Proponent submitted that the Letter of Intent (LOI) for this Granite stone quarry project issued by Dept. of Mining and Geology Directorate, Thiruvananthapuram District, Letter No.12077/M3/2015, dated. 21.01.2016. The Mining plan is approved by Department of Geology and Mining, Ernakulam District vide letter No.DOE/622/E2/2016, dated 20.09.2017. The Project Proponent also submitted that a total quantity of 30,366 cu.m of topsoil is proposed to be removed during the mining operations. About 20,224 cu.m of overburden will be generated throughout the minelife. The highest elevation of the Lease area is 120 m MSL and lowest is 50 m MSL. The soil & overburden thickness varies from average 1.5 m to 1 m. The mine lease area of 4.7134 Ha is a private land.

4. The Project Proponent submitted that mining is carried out by opencast semi mechanized NONEL Blasting technique, adopting all safety measures. 5 Mtr. high and 5 Mtr.wide benches will be made for mining. Life of mine is 17.36 years. Heavy duty vehicles will be engaged for transfer of mined out material. The total Geological reserve is 56, 00,656 MT and mineable reserve is 23, 15,157 MT. Targeted annual production is 1, 40,000 MT. The total water requirement for the project activity is 15 KLD i.e. for plantation – 2 KLD, dust suppression – 12 KLD and for domestic purpose – 1KLD. This will be obtained from open well. The project proponent submitted that total project cost is Rs. 4.50 Crore and manpower requirement is 23 persons.

## 5. Observation and Recommendation of the Committee:

The proposal for Environmental Clearance was considered in the 44<sup>th</sup> EAC meeting held during 28<sup>th</sup> to 29<sup>th</sup> December, 2021. The Member Secretary informed the Committee that the project proponent had sought deferment of the proposal due to non-availability of authenticated District Survey Report as per Ministry's Notification S.O 3611(E) dated 25.07.2018 vide E-mail dated 27.12.2021. Therefore, the Committee **deferred** the proposal.

**1.6 Proposal for Environmental Clearance for Granite (Building Stone) Quarry Mine in the mine lease area of 4.7134 Ha located at S.F. Nos. 301/2, 285/1-2 in Mazhuvannur Village Block No. 29 and S. F. Nos. 410/8-2, 410/7-2, 410/5-2 in Arackappady Village, Block No.28, Mazhuvannur Grama Panchayath, Kunnathunad Taluk, Ernakulam District, Kerala by M/s United Granite – [File No: IA-J-11015/116/2021-IA-II(NCM), Proposal No: IA/KL/MIN/243777/2019] - Environmental Clearance**

### EAC Meeting Details:

EAC meeting	44 <sup>th</sup>
Date of Meeting	28 <sup>th</sup> December – 29 <sup>th</sup> December, 2021

The proposal of M/s United Granite is for grant of Environmental Clearance for Granite (Building Stone) Quarry Mine in the mine lease area of 4.7134 Ha located at S.F. Nos. 301/2, 285/1-2 in Mazhuvannur Village Block No. 29 and S. F. Nos. 410/8-2, 410/7-2, 410/5-2 in Arackappady Village, Block No.28, Mazhuvannur Grama Panchayath, Kunnathunad Taluk, Ernakulam District, Kerala. The mine lease area is located between Latitude 10°02'34.20N to 10°02'.40.25"N and Longitude 76°28'20.89"E to 76°28' 31.82"E. The mine lease area falls under the Survey of India Toposheet No: 58 B08, 58B12, 58C05, 58C09 and falls in Seismic Zone-III. The consultant for this project is Ecotech Labs Pvt Ltd, certificate No.NABET/EIA/1922/RA 0130 with validity from 27-05-2019 to 16-03-2022.

## 2. Observation and Recommendation of the Committee:

The proposal for Environmental Clearance was considered in the 44<sup>th</sup> EAC meeting held during 28<sup>th</sup> to 29<sup>th</sup> December, 2021. The Member Secretary informed the Committee that the project proponent had applied for this proposal twice and the instant proposal is the duplicate of agenda item no. 1.5. Therefore, the Committee **returned the proposal in the present form.**

**1.7 Proposal for Environmental clearance for Granite (Building Stone) Quarry Mine in the mining lease area of 0.9751 ha located at Block No.03, Resurvey No.1169/119,1169/124 in Melmuri Village, Ernad Taluk, Malappuram**

**District, Kerala by Shri A. Jayarajan– [File. No: IA-J-11015/115/2021-IA-II(NCM), Proposal No: IA/KL/MIN/243772/2020] – Environmental Clearance**

**EAC Meeting Details:**

EAC meeting	44 <sup>th</sup>
Date of Meeting	28 <sup>th</sup> December – 29 <sup>th</sup> December, 2021

The proposal of Shri A. Jayarajanis for grant of Environmental Clearance for Granite (Building Stone) Quarry Mine in the mining lease area of 0.9751 ha located at Block No.03, Resurvey No. 1169/119, 1169/124 in Melmuri Village, Ernad Taluk, Malappuram District, Kerala. The mine lease area is located between Latitude 11°4'34.73"N to 11°4'39.52"N and Longitude 76°3'30.75"E to 76°3'34.20"E. The consultant for this project is Ecotech Labs Pvt Ltd, certificate No.NABET/EIA/1922/RA 0130 with validity from 27-05-2019 to 16-03-2022.

2. M/s United Granite has made an online application vide proposal no: IA/KL/MIN/243772/2020 dated 08.12.2021 and submitted Form 1, form 2, EIA/EMP report and pre-feasibility report, cluster certificate dated 27/10/2021 DSR as per 2016 Notification for the project mentioned above. The category of the project is Category "B", Project or Activity 1(a) – 4 for Mining of Mineral as per EIA Notification S.O. 1533 (E), dated 14<sup>th</sup> September 2006 and subsequent amendments. The project proponent applied at MoEF&CC as SEIAA, Kerala does not exist at present.

3. The Project Proponent submitted that the Letter of Intent (LOI) for this Granite (Building Stone) Quarry Mine issued by Dept. of Mining and Geology Directorate, Malappuram District, Letter No. DOM/M-1131/2020 dated 25.11.2020. The Mining plan is approved by Department of Geology and Mining, Malappuram District vide letter no.DOM/113t/2020, dated 13/10/2021. The Project Proponent also submitted that a total quantity of 6,281 Tons of topsoil is proposed to be removed during the mining operations. About 5,234 Tons of overburden will be generated throughout the mine life. The highest elevation of the Lease area is 125 m MSL and lowest is 100 m MSL. As the proposed area is hillock, the drainage of the Lease area is towards North direction. The mine lease area of 0.9751 ha is a private land.

4. The Project Proponent submitted that mining is carried out by opencast semi mechanized. Life of mine is 5 years. Heavy duty vehicles will be engaged for transfer of mined out material. The total Geological reserve is 6,43,187.5 MT and mineable reserve is : 4,31,732.5 MT. Targeted annual production is 86,000 MT. The total water requirement for the project activity is 2.5 KLD i.e. for plantation – 1 KLD, dust suppression – 1 KLD and for domestic purpose – 0.5 KLD. This will be obtained from open well and rainwater harvesting pit. The project proponent submitted that total project cost is Rs. 1.18 Crore and manpower requirement is 20 persons.

**5. Observation and Recommendation of the Committee:**

The proposal for Environmental Clearance was considered in the 44<sup>th</sup> EAC meeting held during 28<sup>th</sup> to 29<sup>th</sup> December, 2021. The Member Secretary informed the Committee that the project proponent had sought deferment of the proposal due to non-availability of authenticated District Survey Report as per Ministry's Notification S.O 3611(E) dated 25.07.2018 vide E-mail dated 27.12.2021. Therefore, the Committee **deferred** the proposal.

**1.8 Proposal for validity extension of Environmental Clearance for Building stone quarry project in the mining lease area of 9.7165 ha located at Kakkad Village, KarasseryPanchayath, Kozhikode Taluk, Kozhikode District, Kerala by M/s Alpha Bricks & Metals-[File. No: IA-J-11015/117/2021-IA-II(NCM), Proposal No: IA/KL/MIN/244227/2021] - Validity Extension of Environmental Clearance**

**EAC Meeting Details:**

EAC meeting	44 <sup>th</sup>
Date of Meeting	28 <sup>th</sup> December – 29 <sup>th</sup> December, 2021

The proposal of M/s Alpha Bricks & Metals for grant of validity extension of Environmental Clearance for Building stone quarry project in the mining lease area of 9.7165 ha located at Kakkad Village, KarasseryPanchayath, Kozhikode Taluk, Kozhikode District, Kerala. The mine lease area is located between Latitude 11°18'5.46"N to 11°18'22.73"N and Longitude 75° 59'42.93"E to 75° 59'55.72"E. The mine lease area falls in seismic zone III. The consultant for this project is Ecotech Labs Pvt. Ltd, certificate no.NABET/EIA/1922/RA 0130 with validity from 27-05-2019 to 16-03-2022.

2. M/s Alpha Bricks & Metals has made an online application vide proposal no: IA/KL/MIN/244227/2021 dated 10.12.2021 and submitted Form 6, form 1, EC letter dated 10.08.2015, CTO, approved mining plan, authorization letter for the project mentioned above. The category of the project is Category "B", Project or Activity 1(a) – 4 for Mining of Mineral as per EIA Notification S.O. 1533 (E), dated 14<sup>th</sup> September 2006 and subsequent amendments. The project proponent applied at MoEF&CC as SEIAA, Kerala does not exist at present.

3. The Project Proponent submitted that Environmental Clearance was granted by SEIAA, Kerala vide letter no. 338/SEIAA/EC4/2170/2014 dated 10.08.2015 which was valid till 09.08.2020. The project proponent submitted that the Letter of Intent (LOI) was issued on 10/03/2014 which is valid till 01/04/2029. The Mining plan is approved by Department of Geology and Mining, Kozhikode District vide letter no.DOM/113t/2020, dated 13/10/2021. The Project Proponent also submitted that a part of the proposed land is already under mining and the top soil in pit-1 is 1.4 m thickness and the overburden thickness is 0.9 m. About 12820 cu.m overburden will

be generated throughout the mine life which will be utilized within the pit for lying haul roads. At the end use, overburden can be reutilized as soil base for plantation. The mine lease area of 0.9751 ha is a private land.

4. The Project Proponent submitted that mining is carried out by opencast semi mechanized NONEL Blasting technique, adopting all safety measures. 5 Mtr. high and 5 m wide benches will be made for mining. Mining plan is approved by Indian Bureau of Mines vide Letter No. DOZ/M-696/15 dated 21-04-2021. Life of mine is 10 years. Heavy duty vehicles will be engaged for transfer of mined out material. The total Geological Reserve is 51, 23,449MT and mineable reserve is 19, 60,728 MT. Targeted annual production is 2, 00,000 MT. The total water requirement for the project activity is 10 KLD for plantation – 1.6 KLD, Dust Suppression – 7 KLD and for Domestic purpose – 1.4 KLD. This will be obtained from open well.

#### 5. Observation and Recommendation of the Committee:

The proposal for Environmental Clearance was considered in the 44<sup>th</sup> EAC meeting held during 28<sup>th</sup> to 29<sup>th</sup> December, 2021. The Member Secretary informed the Committee that the project proponent had sought deferment of the proposal due to non-availability of authenticated District Survey Report as per Ministry's Notification S.O 3611(E) dated 25.07.2018 vide E-mail dated 27.12.2021. Therefore, the Committee **deferred** the proposal.

#### **1.9 Proposal for Validity Extension of Environmental Clearance for Granite Building Stone Quarry of Shri HabeebuRahiman for an area of 2.9110 ha situated at Survey no. 78/2A pt of Kumaranellur Village, Kozhikode Taluk, Kozhikode District, Kerala– [File No: IA-J-11015/88/2021-IA-II(NCM), Proposal No: IA/KL/MIN/232752/2021] –Validity Extension of Environmental Clearance**

#### **EAC Meeting Details:**

EAC meeting	44 <sup>th</sup>
Date of Meeting	28 <sup>th</sup> December – 29 <sup>th</sup> December, 2021

The proposal of Shri HabeebuRahimanis for grant of Validity Extension of Environmental Clearance for Granite Building Stone Quarry for an area of 2.9110 ha situated at Survey no. 78/2A pt of Kumaranellur Village, Kozhikode Taluk, Kozhikode District, Kerala. The mine lease area is located between Latitude 11°18'27.64"N to 11°18'34.38"N and Longitude 76°1'33.08"E to 76°1'43.05"E. The mine lease area falls in Seismic Zone III. The category of the project is Category "B", Project or Activity 1(a) – 4 for Mining of Mineral as per EIA Notification S.O. 1533 (E), dated 14<sup>th</sup> September 2006 and subsequent amendments. The project proponent applied at MoEF&CC as SEIAA, Kerala does not exist at present.



2. Shri HabeebuRahiman had made an online application vide proposal no: IA/KL/MIN/232752/2021 dated 04.12.2021 for validity extension of EC vide letter no. 646/EC4/4942/2014/SEIAA dated 03/02/2016 which was valid till 02/02/2021. The proposal was earlier considered in 41<sup>st</sup> EAC held during 15<sup>th</sup>– 16<sup>th</sup> November and 18<sup>th</sup> November, 2021. The extract of the minutes of 41<sup>st</sup> EAC meeting is as follows: 'After detailed deliberations, the Committee observed the mining activities outside the mine lease area through KML file. The Committee also noted that the Environmental Clearance vide letter no. 646/EC4/4942/2014/SEIAA dated 03/02/2016 was valid till 02/02/2021. The project proponent submitted that the validity of EC is now till 02/02/2022 as per Ministry's Notification S.O. 221(E) dated 18<sup>th</sup> January, 2021. The relevant extract of the notification is as follows: "Notwithstanding anything contained in this notification, the period from the 1st April, 2020 to the 31<sup>st</sup> March, 2021 shall not be considered for the purpose of calculation of the period of validity of Prior Environmental Clearances granted under the provisions of this notification in view of outbreak of Corona Virus (COVID-19) and subsequent lockdowns (total or partial) declared for its control, however, all activities undertaken during this period in respect of the Environmental Clearance granted shall be treated as valid." The Committee also observed that plantation was unsatisfactory. Therefore, the Committee **deferred** the proposal due to want of following information: (a) the project proponent needs to submit the letter from DMG that there are no mining activities outside the mine lease area. (b) The project proponent needs to submit an action plan showing how to comply with the plantation requirement. (c) The project proponent needs to submit the past production details financial year wise duly certified by the concerned authority.' The project proponent did not submit the above-mentioned information.

3. The project proponent submitted that the total excavation is 398960 MT (building stone: 56994.3 MTA, soil: 8488.9 cum and waste 3638.1 cum. The LOI was granted vide letter no. 131/2016-17 dated 21/03/2016 and is valid till 20/03/2028. The PP submitted the approved mining plan dated 27/02/2020 which will be valid till 01/07/2024. The mine lease area of 2.9110 ha is a private land.

#### 4. **Observation and Recommendation of the Committee:**

The proposal for Validity Extension of Environmental Clearance was considered in the 44<sup>th</sup> EAC meeting held during 28<sup>th</sup> – 29<sup>th</sup> December, 2021. The Committee observed that the ADS reply was not available/accessible on the Parivesh portal. The Committee was of the view that the project proponent shall upload the ADS reply as well as all the relevant documents for validity extension of Environmental Clearance on Parivesh portal for further appraisal. The Committee advised the Ministry to get the complete file of the instant proposal from State Authority for detailed examination. Therefore, the Committee **deferred** the proposal.

**1.10 Proposal of My Home Industries Private Limited for mining of Limestone with total excavation of 1.036 MTPA (Limestone: 1.0 MTPA + Top Soil: 0.036 MTPA) in the mine lease area of 252.407 ha, located at Villages Mellacheruvu and Yepalamadhavaram, Mellacheruvu Tehsil, Suryapet District, Telangana – [File. No: J-11015/21/2017-IA.II(M), Proposal No: IA/TG/MIN/106308/2019, Consultant: B.S.Envi-Tech Pvt. Ltd] – Reconsideration of Environmental Clearance(EC).**

**EAC Meeting Details:**

EAC meeting	44 <sup>th</sup>
Date of Meeting	28 <sup>th</sup> – 29 <sup>th</sup> December, 2021

The proposal of M/s My Home Industries Private Limited is for mining of Limestone with total excavation of 1.036 MTPA (Limestone: 1.0 MTPA + Top Soil: 0.036 MTPA) in the mine lease area of 252.407ha located at Villages Mellacheruvu and Yepalamadhavaram, Mellacheruvu Tehsil, Suryapet District, Telangana. The mine lease area is located between Latitude 16°47'13.20"N- 16°48'41.90"N and Longitude 79°55'57.30"E - 79°57'0.70"E. The mine lease area falls under the Survey of India Toposheet No: 56 P/13 and falls in Seismic Zone-II. The PP presented the KML file during the presentation to indicate the location of mine lease on Google Earth.

2. The Project Proponent initially made an online application vide proposal no. IA/TG/MIN/106308/2019 dated 19.03.2021 and submitted Form-2 and EIA report under the provisions of the EIA Notification, 2006 for the project mentioned above. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals under Category "A" of the schedule of the EIA Notification, 2006 as the mining lease area is greater than 100 ha and appraised at the Central level.

3. The proposal was earlier considered in the 34<sup>th</sup> EAC Meeting held during 27<sup>th</sup> to 30<sup>th</sup> July, 2021 and during presentation the EAC noted that the total mine lease area is 252.407ha out of which 210.067ha is Agriculture land, 25.839ha is Govt land and 16.501ha is government dis reserve forest land and mine lease area is in the vicinity of Nagarjunasagar Left Irrigation Canal, the area may be treated as a good agricultural land. Thus, after detailed deliberations made by the Project Proponent and the Consultant, the Committee deferred the proposal for want of following requisite information. Project Proponent resubmitted the proposal vide IA/TG/MIN/106308/2019 dated 06.11.2021 along with the information sought in the 34<sup>th</sup> EAC Meeting held during 27<sup>th</sup> to 30<sup>th</sup> July, 2021. Then, the proposal was again considered in the 42<sup>nd</sup>EAC (Non-Coal Mining) meeting held during 30<sup>th</sup> November – 3<sup>rd</sup> December, 2021. After detailed deliberations made by the Project Proponent and the Consultant, the Committee deferred the proposal for want of following requisite

information. (i). The Project Proponent needs to submit the revised R&R plan covering all the components. PP should clearly mention the number of Project Affected Person (PAP) and details of the land owned by them break up of total compensation to be paid including method of calculation including the sources/references adopted and mode of payment etc. PP needs to submit the plan for Socio economic development of the neighbourhood habitats based on the need-based survey along with the time bound action plan,(ii). The Project Proponent should bring out the action plan for earmarked budget of Rs 30.0 Lakhs towards Skill development. PP should prepare a plan in such a way that it will include 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,(iii). The Project Proponent should submit the revised year-wise, activity wise and time bound budget earmarked for EMP, (iv). The Project Proponent needs to submit the preventive measures taken for protection of Nagarjunasagar Left Bank irrigation canal (50m, E), (v). The Project Proponent should revisit the action plan for utilization of creation of water body of 124.45ha even after the life of the mine for benefit of the agriculture and to improve the quality of local people. PP should allocate separate budget which should be made available to the State Government, (vi). The Project Proponent should bring out the action plan for converting the diesel operating machineries and vehicles to CNG/Electrical equipment's, (vii). As committed by the Project Proponent during the meeting, PP needs to submit an undertaking that the weighbridge will be installed within the mine lease area and will be utilized for the subject mine. Accordingly, PP needs to submit the revised plan and (viii). The Project Proponent should submit an undertaking that the agricultural activities will be allowed in the undisturbed area even after the purchasing the land from land owners with appropriate protection measures and approach road.

4. The Project Proponent vide Letter no: MHIPL/ML252.407HA/MoEF&CC/EC/2021 dated 18.12.2021 submitted the information on PARIVESH Portal. The proposal was reconsidered in the 44<sup>th</sup>EAC (Non-Coal Mining) meeting held during 28<sup>th</sup>– 29<sup>th</sup>December, 2021, wherein PP submitted the following:

**Point (i). The Project Proponent needs to submit the revised R&R plan covering all the components. PP should clearly mention the number of Project Affected Person (PAP) and details of the land owned by them break up of total compensation to be paid including method of calculation including the sources/references adopted and mode of payment etc. PP needs to submit the plan for Socio economic development of the neighbourhood habitats based on the need-based survey along with the time bound action plan.**

**Reply by PP:**PP submitted that total mine lease area is 252.407 Ha, out of which 210.067 Ha is private agricultural land, 25.839 Ha is Govt. Land and 16.501 Ha is Govt. waste land (De-Forest land). PP submitted that out of 210.067 ha, 97.5717 ha already purchased from the private landowners and acquisition of balance area of

112.4953 Ha is under process. The total no. of Project Affected People (PAPs) are 103. PP submitted that they will provide the compensation for land of Rs. 20-30 Lakhs/acre to the project affected people. PP earmarked a budget of Rs.6950 lakhs for acquiring balance land of 112.4953 Ha. PP submitted that M/s MHIPL will provide employment to about 20 No.s of land sellers under unskilled category. Further direct and indirect employment opportunity will be given on priority basis to land sellers, based on eligibility and skills. PP carried out need-based survey in the neighbouring villages of Mellacheruvu and Yepalmadharam. Based on the needs of villagers such as Supply of drinking water during summer season, Drainage improvement, Borewell drilling at two locations, School ground improvement, Library – books, almirahs, whitewash painting and renovation, Bus Shelter construction, ZP high school – Play Ground improvement and Booster for network tower, PP earmarked a budget of Rs.25 lakhs for 3 years and activities will be prioritized in consultation with the local panchayat.

**Point (ii). The Project Proponent should bring out the action plan for earmarked budget of Rs 30.0 Lakhs towards Skill development. PP should prepare a plan in such a way that it will include 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**

**Reply by PP:**PP earmarked a budget of Rs 30.0 Lakhs to be spent in 3 years towards skill development program and proposes to provide training in the field of fitting, electrical maintenance, welding, and automobile for 30 local people within 10km radius by providing a stipend of Rs. 8,000 per month to each candidate.

**Point(iii). The Project Proponent should submit the revised year-wise, activity wise and time bound budget earmarked for EMP**

**Reply by PP:**PP earmarked a budget of Rs 138.0 Lakhs as Capital cost and submitted that the Recurring cost of EMP is revised from Rs 545.54 Lakhs to Rs 600.86 Lakhs. PP has submitted the year wise activities and budget which includes 1) Air Pollution Control measures (Capital: Rs 40 Lakhs&Recurring/year: Rs 500.0 Lakhs), 2) Greenbelt (7.5 m barrier zone and Backfilling area) (Capital: Rs 78.0 Lakhs & Recurring/year: Rs 74.89 Lakhs)and 3) Rainwater Harvesting Structures & Garland Drain (Capital: Rs 20 Lakhs & Recurring/year: Rs 26.0 Lakhs).

**Point(iv). The Project Proponent needs to submit the preventive measures taken for protection of Nagarjunasagar Left Bank irrigation canal (50m, E)**

**Reply by PP:**PP submitted that Nagarjunasagar Left Bank canal is located at a distance of about 50m in the north and eastern side of the mining lease area. Water in this canal is released only during agricultural period for the purpose of irrigation. The MSL of the canal is 106m, the MSL of Mining Lease area ranges between 91 to 103m. The slope of the mine is towards SW direction whereas the canal is located

on the NE direction. PP also submitted that no water will be discharged in to any natural drainage systems surrounding the mine lease boundary. A garland drain will be constructed along the boundaries of mine pit as the mine progresses. PP submitted that the mining lease is granted leaving this distance of 50 m as per the requirement of DGMS. The 50 m safety distance falls outside the mining lease and is not part of mining lease area. In addition to the above, 7.5 m barrier zone will be left as unmined along the mining lease boundary with development of a greenbelt which strengthens the soils near the canal. The canal is a lined canal. Mining will be carrying out by adopting controlled blasting. PP also submitted that detailed blasting studies will be under taken through NITK-Suratkal. Controlled blasting techniques and specific recommendations for controlled blasting will be strictly followed to minimize the impact of ground vibrations towards canal.

**Point(v). The Project Proponent should revisit the action plan for utilization of creation of water body of 124.45ha even after the life of the mine for benefit of the agriculture and to improve the quality of local people. PP should allocate separate budget which should be made available to the State Government**

**Reply by PP:** PP submitted that water body will be formed only after reaching the pit limits and void will be filled up with water in the 50 years of lease period. PP reported that 124.45 ha will be converted into permanent water body as a source of surface water to the farmers and nearby villages. PP submitted that from the 10<sup>th</sup> year onwards i.e., after the start of the mine operations pit one having an area of 19.45ha will be converted as a water reservoir and it will be made available to the farmers and PIT-2: 105.00 Ha and PIT-3: 1.84 Ha will be made available as water reservoir after 50 years. Protection bunds will be provided around the water bodies to ensure safety of animals and human. PP also submitted that water pumping arrangement will be provided at a cost of Rs.10 Lakh, for pumping out water from the mine pit for agriculture activities in the nearby area. During the final mine closure plan, pump house set-up will be handed over to the local body of State Government.

**Point(vi). The Project Proponent should bring out the action plan for converting the diesel operating machineries and vehicles to CNG/Electrical equipment's**

**Reply by PP:** PP submitted that use of electric equipment will be explored and implemented subject to availability of such equipment. Use of CNG operated equipment will also be examined subjected to uninterrupted & assured supply of CNG is available.

**Point(vii). As committed by the Project Proponent during the meeting, PP needs to submit an undertaking that the weighbridge will be installed within the mine lease area and will be utilized for the subject mine. Accordingly, PP needs to submit the revised plan.**

**Reply by PP:PP** submitted an undertaking vide Letter no: MHIPL/252.407HA/Undertaking/EC/2021/002 dated 18.12.2021 stating that separate weighbridge will be installed within the mining lease area (MLA-252.407 ha) and will be utilized exclusively for this mine only. PP also submitted the revised plan showing the location of weighbridge on the southern side within the mining lease area.

**Point(viii). The Project Proponent should submit an undertaking that the agricultural activities will be allowed in the undisturbed area even after the purchasing the land from land owners with appropriate protection measures and approach road.**

**Reply by PP:PP** submitted an undertaking vide Letter no: MHIPL/252.407HA/Undertaking/EC/2021/001 dated 18.12.2021 stating that PP will explore the possibility and permit for continuing agricultural practices in undisturbed part of mining lease area with appropriate protection measures and approach road in compliance with the DGMS requirements.

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

Date of application	Proposal No	Consideration	Details	Date of accord
28.02.2017	IA/TG/MIN/62819/2017	April 27-28, 2017 & February 20-21, 2019	Production of 1.0 MTPA of Limestone (MLA: 252.407 Ha)	23.03.2019
24.05.2019	IA/TG/MIN/106308/2019	July 31, 2019	Amendment in ToR for including Total Excavation 1.036 MTPA [Limestone: 1.0 MTPA (ROM) & Topsoil: 0.036 MTPA)	03.09.2019

**6. Details of Mine lease.**

S.no	Grant of mine lease order	Date of the grant	Name of the Mineral	Period of Grant	Granted by	Mine lease area in Ha
1	Prospecting License vide G.O Ms.No.114, Ind. & Com. (M.I) Dept	19.07.2012	Limestone	3 years	Govt of Telangana	935.16 Acres
2	Grant of Mining	24.09.201	Limestone	50 years	Govt of	Ac

	lease issued by Industries & Commerce (M-II) Department, vide Memo no. 5863/M.II(1)/2016-1	6	e		Telangana	623.28 Gts or 252.407 ha
3	Grant of mine lease order issued by the Office of the Asst. Director of Mines and Geology, Suryapet (I/C), vide proceedings no. 3779/ML/LS/2015	08.03.2021	Limestone	08.03.2021 to 07.03.2021	Govt., of Telangana	252.407ha

**7. Details of executed Mine leases.**

S.no	Date of grant of Lease execution	Period of Grant		Details
		From	To	
1	Date of entering into original lease deed.	08.03.2021	07.03.2021	Lease deed executed on 08.03.2021 vide AF 493175 between the Governor of Telangana acting through Assistant Director of Mines and Geology, Suryapet and M/s My Home Industries Private Limited.

**8. Details of Mine Plan.**

S.no	Mining Plan along with the Conceptual Plan Approved By	Letter no	Dated of Approval	For a period	Details
1	Mining Plan (Including Progressive Mine Closure Plan) approved	AP/NLG/MP/Lst-75/Hyd.	20.07.2017	5 years	Limestone, 252.407 Ha

	by Regional Controller of Mines, Hyderabad, Regional Office Indian Bureau of Mines.				
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9. The Project Proponent submitted that mining operations will be carried out opencast, fully mechanized method. PP reported that the total geological reserve is 353.40 Million Tonnes and Mineable Reserve is 150.37 Million Tonnes. Based on the present proposed rate of production of 1.0 MTPA, the anticipated life of mine is 150 years as per the approved mine plan. Though the life of mine is for 150 years as per reserves availability, mine workings will be carried out for lease period of 50 years only. PP reported that the normative production considered as 238 TPH (Avg.) at mine operation for 300 days as per the approved mining plan. Peak production considered as 274 TPH based on total fleet of machinery capacity as per approved mining plan. The mine will be worked with bench height of 9 m and the width will be as per Mining Regulations. An overall ultimate pit slope angle of 45° would be maintained during the entire mining operations. Hydraulic excavators will be deployed to load blasted limestone into dumpers. The loaded limestone will be sent to crusher through haul roads. The stock pile material will be drawn by the cement plant for clinkerization. The limestone from the mine will be transported by road to the existing crusher located at Mellacheruvu Limestone mine, at a distance of 4.0 km by 25 tons trucks. PP submitted an undertaking vide Letter Reference: MHIPL/252.407HA/Undertaking/EC/2021/002 dated 18.12.2021 that separate weighbridge will be installed within this mining lease area (MLA-252.407 ha) and will be utilized exclusively for this mine only. No overburden is anticipated. Top soil of 1.548 million m<sup>3</sup> will be generated for the Lease period. Out of this about 0.175 million m<sup>3</sup> of top soil will be used for spreading over an area of 8 Ha of 7.5 m barrier zone along the Mine lease boundary and about 1.457 million m<sup>3</sup> of top soil will be used for reclamation of worked out pit (backfilling) over an area of 20.0 Ha in the northern side of the lease area. No dumping proposal during the lease period. The limestone will be worked to a maximum depth of 45m at the end of the lease period, as per the present approved mining plan. The working pit will intersect ground water table after reaching about a depth of 30m below ground level which is after 20 years of mine working. PP submitted that necessary permission from CGWA will be obtained before working the mine below water table. PP also submitted that Nagarjunasagar Left Bank canal is located at a distance of about 50m in the north and eastern side of the mining lease area. Water in this canal is released only during agricultural period for the purpose of irrigation. The MSL of the canal is 106m, the MSL of Mining Lease area ranges between 91 to 103m. The slope of the mine is towards SW direction whereas the canal is located on the NE direction. PP also submitted that no water will be discharged in to any natural drainage systems surrounding the mine lease boundary. A garland drain will be constructed along the boundaries of mine pit as the mine progresses. PP submitted that the mining lease is granted leaving this distance



of 50 m as per the requirement of DGMS. The 50 m safety distance falls outside the mining lease and is not part of mining lease area. In addition to the above, 7.5 m barrier zone will be left as unmined along the mining lease boundary with development of a greenbelt which strengthens the soils near the canal.

**10.** The Project Proponent submitted that the cost benefit analysis has been carried out and estimated that the benefit to Farmer if land is retained and cultivated for 50 years will be Rs 84.37 Crores and Benefit to the farmer if land is sold (with returns for 50 years) will be Rs 543.88 Crores. PP submitted an undertaking vide Letter Reference: MHIPL/ 252.407HA/Undertaking/EC/2021/001 dated 18.12.2021 that PP will explore the possibility and permit for continuing agricultural practices in undisturbed part of mining lease area with appropriate protection measures and approach road in compliance with the DGMS requirements. PP also submitted that the area of 95.016ha will remain undisturbed during life of mine as per current working plan / approved mining plan. PP reported that 124.45 ha will be converted into permanent water body as a source of surface water to the farmers and nearby villages. PP submitted that from the 10th year onwards i.e. after the start of the mine operations pit one having an area of 19.45ha will be converted as a water reservoir and it will be made available to the farmers and PIT-2: 105.00 Ha and PIT-3: 1.84 Ha – will be made available as water reservoir after 50 years. Protection bunds will be provided around the water bodies to ensure safety of animals and human. PP also submitted that water pumping arrangement will be provided at a cost of Rs.10 Lakh, for pumping out water from the mine pit for agriculture activities in the nearby area. During the final mine closure plan, pump house set-up will be handed over to the local body of State Government.

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

<b>Particulars</b>	<b>Details</b>	<b>Distance &amp; Direction</b>
Nearest Village	Yepal Madhavaram	1.0 km, SW
Nearest Town	Miryalaguda	38.4 km, WNW
Nearest Highway	National Highway – (NH-9) connecting Vijayawada – Hyderabad	20.0 km, NE
Nearest Railway station	Miryalaguda	43.0 km, WNW
Nearest water bodies	Krishna River	11.8 km, SSW

**12.** The Project Proponent submitted that the total water requirement is 100m<sup>3</sup>/day. Drinking water facilities will be provided from the Cement plant and water required for dust suppression and greenbelt development. Water will be sourced from existing mine pits of other mines belonging to M/s My Home Industries Private Limited.

**13.** The Project Proponent submitted the revised greenbelt/plantation and reported that the total area under greenbelt/plantation will be 28.0 ha, out of which 6.015 ha will be under 7.5 m barrier zone and 20.0 ha over backfilled area. PP submitted that as on date, 1798 nos. of saplings exist in 1.9850 ha. PP also reported that total of 3,800 nos. of saplings will be planted over an area of 6.015 ha and 16,666 nos. of saplings will be planted over an area of 20.0 ha. PP earmarked budget for green belt as Rs. 78.0 Lakhs as Capital cost and Rs. 19.54 Lakhs as recurring cost per annum. PP submitted the Affidavit cum undertaking in a non-judicial stamp paper of Rs 100 bearing U 891103 dated 27.10.2021 that in the peripheral area plantation will be completed within 3 years from the start of mining operations in the acquired land with suitable native species and the balance area will be brought under greenbelt after acquiring the same.

**14.** The Project Proponent submitted that the total mine lease area is 252.407 Ha, out of which 210.067 Ha is private agricultural patta land, 25.839 Ha is Govt. waste Land and 16.501 Ha is Govt. waste land (De-Forest land). PP reported that no forest land is involved in the mine lease area. PP submitted the NoC from the District Forest Officer, Suryapet, Office of Forest Department, Govt. of Telangana, vide letter No 476/2018/S3 dated 27.12.2018 that the 49.00 acres is falling in Dis-reserved forest area and this division have no objection over the land situated in the above project area. PP also submitted the letter from the Principal Chief Conservator of Forests (PCCF), Office of the Forest Department, Govt of Telangana vide Rc.No: 4852/2017/FCA-6, dt 06.07.2021 stating that M/s MHIL is carrying out its mining in Sy.No.4 (218.767 acres i.e., another application of 89.37 ha) and Sy.No.1D (40.862 acres, current mining lease of 252.407 ha) which is a part of 800 acre land which was dis-reserved in 1970. Balance area of 252.407 ha is outside RF. The current status of the land is Dis-reserved land which was handed over to revenue departments and then Sy.No..4 (218.767 acres) and Sy.No.1D (40.862 acres) was leased to the M/s MHIL for carrying out mining operations. The proposed mining area is 8m away from the boundary of Yapalamadharam RF Block, Compt.No.04. There are no National Park/Wild life Sanctuary/Eco-Sensitive Zone (Proposed or declared)/Migration Routes/Tiger Corridors etc. around 10km radius of proposed mining area. PP also submitted the letter by the Revenue Department, Government of Telangana vide Lr No. B/367/2021 dated 03.09.2021 that Govt land over an extent of Ac. 40.31 Gts (16.501 ha) in Sy. No 1D (P) of Yepalamadhavaram (V), Mellacheruvu Mandal, Suryapet District is rocky land unfit for cultivation and is classified as waste land.

**15.** The Project Proponent reported that there are no Schedule-I species found in the study area. PP submitted the letter from the Principal Chief Conservator of Forests (PCCF), Office of the Forest Department, Govt of Telangana vide Rc.No: 4852/2017/FCA-6, Dt 06.07.2021 that there are no endangered flora and fauna in and around the proposed project site. PP also submitted the revised authenticated

letter for flora and fauna issued by PCCF, TS Forest Dept vide letter Rc.No.4852/2017/FCA-6(II) dated 23.10.2021 by indicating the schedule type of fauna as per the said letter there are no schedule-I species existing in the study area.

**16.** The primary baseline data for specific micro-meteorology data, ambient air quality, waste quality, noise level, soil and flora & fauna has been collected during Summer season. The Monitoring results of ambient air, surface water, soil, ambient noise and ground water for the month of March to May, 2019 have been reported and no major divergence was observed with respect to concentration values of various parameters of collected samples.

Period	Parameters				
AAQ parameters at 9 locations	Pollutant	Min, µg/m <sup>3</sup>	Max, µg/m <sup>3</sup>	98 %ile, µg/m <sup>3</sup>	Standard, µg/m <sup>3</sup>
	PM2.5	18.0	30.0	27.2	60
	PM10	40.5	61.1	60.6	100
	SO2	8.1	13.6	13.2	80
	NOx	10.9	15.0	14.9	80
AAQ modelling (Incremental GLC)	Pollutant	Baseline Concentration, µg/m <sup>3</sup>	Incremental Concentration, µg/m <sup>3</sup>	Total GLC, µg/m <sup>3</sup>	Standard
	PM2.5	27.2	16.29	43.49	60
	PM10	60.5	39.2	99.8	100
	SO2	13.2	3.31	26.91	80
	NOx	14.9	12.01	16.51	80
Noise level at 8 locations	Day Time: 51.7 to 54.5 Leq dB (A) Night Time: 42.3 to 42.8 Leq dB (A)				
Ground water quality at 12 locations	pH ranged from 6.8-7.52, TDS ranged from 492 - 1876 mg/l, Chlorides ranged from 61.0 - 479 mg/l, Fluorides ranged from 0.32-1.36 mg/l. The parameters thus analysed were compared with IS-10500. All the samples were found to be well within the limits.				
Surface water quality at 2 locations	pH ranged from 7.04 - 7.29, BOD found to be 4.0 mg/l, COD ranges between 16.0-20.0 mg/l				
Soil quality at 13 locations	pH ranges between 6.97 to 7.51, Organic carbon content of the soil samples found to be in the range of 0.33-1.11%, Soils in the area were found to be sandy loam, Clay, Loamy fine sand in texture with sand percentage in the range between 21-82%, silt between 10-36% and Clay 8-43%.				

## 17. Public Hearing (PH) Details

Advertisement for PH with date	03.12.2020 in The Indian Express (English News Paper) and Namasthe Telangana (Telugu News Paper).
Date of PH	05.01.2021 by Telangana State Pollution Control Board
Venue	Proposed Mining Lease Area near Yepalamadhavaram Village
Chaired by	The Collector & District Magistrate, Suryapet District.
Main issues raised during PH	Employment, Environmental control measures and Social welfare measures
Budget proposed for addressing issues raised during PH	Rs 59.0 Lakhs
Additional information (if any)	<p>PP revised the budget for implementation of Public Hearing commitments as per the advice of EAC (Non-Coal Mining)</p> <p>a. Rs 72 Lakhs allotted as Capital expenditure related to environment protection, COVID health care facilities, drinking water facilities, plantation in public area, education and communication facilities for the betterment of schools nearby and to facilitate the online education system by providing Wi-Fi connectivity, smart classrooms, digital library and desktops/tablets.</p> <p>b. Rs 59 Lakhs Separate budget for skill development program and other concerns expressed by the people</p>

**18. Public hearing action plan as per MoEF&CC O.M. dated 30/09/2020**

S. No	Activity		1 <sup>st</sup> year	2 <sup>nd</sup> year	3 <sup>rd</sup> year	Total
<b>EDUCATION AND SPORTS</b>						
1	Repairing to school infrastructural facilities in 2 schools at 1 village	Physical Nos	1	1	-	2
		@Village	Yepala madharam	Yepala madharam	-	
		Budget Rs	2.5	2.5	-	5

S. No	Activity		1 <sup>st</sup> year	2 <sup>nd</sup> year	3 <sup>rd</sup> year	Total
		Lakhs				
2	Permanent building for Library at 1 village (25ft x 25ft)	Physical Nos	-	1	-	1
		@Village	-	Mellacheruvu		
		Budget Rs Lakhs	-	10	-	10
<b>DRINKING WATER</b>						
1	Two Mineral Water Plant (in 1 villages @ Rs. 4 lakh each.)	Physical Nos	2	-	-	2
		@Village	Yepalamadharam	-	-	
		Budget Rs Lakhs	8	-	-	8
<b>SKILL DEVELOPMENT</b>						
1	Providing skill development training to ITI & diploma passed local youth (for 10 members) per year  Three batches of 10 each for 3 years. Monthly stipend @ Rs.20,000 / pm for 2 year to each of the trainee. And Rs.10,000 / pm for last year to each of the trainee.	Physical Nos	10 students/year	10 students/year	10 students/year	30
		@Village	Local Youth from 10 km radius			
		Budget Rs Lakhs	2.0	2.0	1.0	5.0
<b>HEALTH CARE</b>						
1	Conduct of medical camps twice in a year	Physical Nos	3	3	4	10.0
		@Village	Yepalamadharam	Mellacheruvu	Choutapa	

S. No	Activity		1 <sup>st</sup> year	2 <sup>nd</sup> year	3 <sup>rd</sup> year	Total
	in three different locations in the impact zone. (in 3 villages @ Rs. 50,000 each.)	e	haram		lli	
	Medical camps with distribution of medicines	Budget Rs Lakhs	3	3	4	10.0
<b>OTHERS</b>						
1	Construction of Community hall (40 X 25 ft with asbestos roofing) at Yepala madharam	Physical Nos	-	-	1	1.0
		@Village	-	-	Yepala madharam	
		Budget Rs Lakhs	0	0	10.0	10.0
2	Construction of a hall adjacent to the existing TTD Kalyana Mandapam to cater to the needs of the people who perform functions and construction of this dining hall at one village	Physical Nos	-	1	-	1.0
		@Village		Mellacheruvu		
		Budget Rs Lakhs	0	10	-	10.0
3	Development / construction of public buildings like panchayat / community center / libraries in 3 villages@ Rs. 2.0 lakhs each.)	Physical Nos	1 building	1 building	1 building	3.0
		@Village	Mellacheruvu, Yepalamad havaram & Choutapalli	-	-	
		Budget Rs Lakhs	6	-	-	6.0

S. No	Activity		1 <sup>st</sup> year	2 <sup>nd</sup> year	3 <sup>rd</sup> year	Total
4	Restoration of Ambedkar statue, a bronze statue of Dr. Ambedkar at 1 villages	Physical Nos	1	-	-	1.0
		@Village	Yepalamadharam	-	-	
		Budget Rs Lakhs	1.0	-	-	1.0
5	Establish walking track to enable the youth to improve their physical fitness. Construction of a Sports Complex.	Physical Nos	Walking track	-	-	1.0
		@Village	Yepalamadharam	-	-	
		Budget Rs Lakhs	2.0	-	-	2.0
TOTAL BUDGET (In lakhs of rupees) – Implementation period - 3 years						59.0

**19.** The Project Proponent submitted that the total mine lease area is 252.407 Ha, out of which 210.067 Ha is private agricultural land, 25.839 Ha is Govt. waste Land and 16.501 Ha is Govt. waste land (De-Forest land). PP submitted that out of 210.067 ha, 97.5717 ha already purchased from the private landowners and acquisition of balance area of 112.4953 Ha is under process. PP reported that the total no. of Project Affected People (PAPs) are 103. PP submitted that they will provide the compensation for land of Rs. 20-30 Lakhs/acre to the project affected people. PP earmarked a budget of Rs.6950 lakhs for acquiring balance land of 112.4953 Ha. PP submitted that M/s MHIPL will provide employment to about 20 No.s of land sellers under unskilled category. Further direct and indirect employment opportunity will be given on priority basis to land sellers, based on eligibility and skills. PP carried out need-based survey in the neighbouring villages of Mellacheruvu and Yepalmadharam. Based on the needs of villagers such as Supply of drinking water during summer season, Drainage improvement, Borewell drilling at two locations, School ground improvement, Library – books, almirahs, whitewash painting and renovation, Bus Shelter construction, ZP high school – Play Ground improvement and Booster for network tower, PP earmarked a budget of Rs.25 lakhs for 3 years and activities will be prioritized in consultation with the local panchayat. PP also earmarked a budget of Rs 30.0 Lakhs to be spent in 3 years towards skill development program and proposes to provide training in the field of fitting, electrical maintenance, welding, and automobile for 30 local people within 10km radius by providing a stipend of Rs. 8,000 per month to each candidate.

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

**21.** The Project Proponent submitted the Affidavit in a non-judicial stamp paper of Rs 100 bearing W 270219 dated 25.05.2020 that 'M/s My Home Industries Private Limited shall comply with all the statutory requirement & judgment of Hon'ble Supreme Court dated 2nd August 2017 in writ Petition (civil) No. 114 of 2014 in the matter of common cause versus Union of India & Ors'.

**22.** The Project Proponent submitted the undertaking dated 25.02.2021 that the information and data submitted is factually correct and M/s My Home Industries Private Limited owns the contents of the report. The Consultant submitted the declaration dated 25.02.2021 that the Consultant organization shall be fully responsible for any mis-leading information mentioned in this statement.

**23.** The Project Proponent earmarked a budget of Rs 138.0 Lakhs as Capital cost and submitted that the Recurring cost of EMP is revised from Rs 545.54 Lakhs to Rs 600.86 Lakhs. PP has submitted the year wise activities and budget which includes 1) Air Pollution Control measures (Capital: Rs 40 Lakhs&Recurring/year: Rs 500.0 Lakhs), 2) Greenbelt (7.5 m barrier zone and Backfilling area) (Capital: Rs 78.0 Lakhs & Recurring/year: Rs 74.89 Lakhs)and 3) Rainwater Harvesting Structures & Garland Drain (Capital: Rs 20 Lakhs & Recurring/year: Rs 26.0 Lakhs).

**24. Details of project cost and employment:**

Particulars	Budget (Rs. In Crore)
Capital Cost for Environment Protection	Rs. 1.38
Budget for addressing the Public Hearing issues	Rs. 0.59
Total Cost for EMP	Rs. 1.38
Recurring Cost for EMP	Rs. 6.0008
Project Cost	Rs. 10
Employment	51 persons

**25. Observation and Recommendation of the Committee:**

The proposal for Environmental Clearance was considered in the 44<sup>th</sup>EAC (Non-Coal Mining) meeting held during 28<sup>th</sup>– 29<sup>th</sup>December, 2021. After detailed deliberations made by the Project Proponent and the Consultant, the Committee **recommended** the proposal for grant of Environmental Clearance for M/s My Home Industries Private Limited for mining of Limestone with total excavation of 1.036 MTPA (Limestone: 1.0 MTPA + Top Soil: 0.036 MTPA) in the mine lease area of 252.407ha located at Villages Mellacheruvu and Yepalamadhavaram, Mellacheruvu Tehsil, Suryapet District, Telanganasubject to the following specific conditions in addition to the standard EC conditions applicable for non-coal mining projects:

- i. The Project Proponent will allow the farmers to continue the farming on the northern side with proper safety measures to protect the farmers as and when



the PP approach the farming area safety distance has to be maintained between the mine working and the farming land as per DGMS Guidelines.

- ii. PP shall maintain the safety distance of 200m on side of the Nagarjunasagar Left Bank canal with the dense plantation inside the mine lease area. In order to properly maintain the safety barrier between the Nagarjunasagar Left Bank canal and the mine lease area, the Project Proponent shall create greenbelt on the eastern side with safety distance of 50m with thick plantation instead of 7.5m and atleast 10% of the fruit bearing trees shall be planted.
- iii. Since the Nagarjunasagar Left Bank canal is used for irrigation, the Project Proponent should take all precautionary measures to prevent any damage to canal and pollution in the canal.
- iv. The Project Proponent shall ensure the safety zone with the proper fencing around the mine towards the RF Block located about 8m away from the boundary of Yapalamadharam RF Block, Compt.No.04 from the mine lease area.
- v. The Project Proponent should install the continuous ambient air quality monitoring stations in such numbers as per the scientific study and in consultation with CPCB.
- vi. The Project Proponent shall monitor the ground induced blasting vibrations at the sensitive receptors in the vicinity regularly for every blast performed and the values of “peak particle velocity” and “Air Over Pressure” shall be maintained below the permissible values prescribed by the DGMS, from time to time. The recommendations/preventive measures to be prescribed by the NITK-Suratkal for the blasting study, if any shall be complied by the Project Proponent and implementation status to prevent the damage towards Nagarjunasagar Left Bank canal should be submitted to the IRO.
- vii. The Project Proponent shall carry out the plantation with the survival rate of not less than 90% by planting 10 ft seedlings. Causalities should be replaced with new saplings every year and be counted separately other than the total proposed saplings. PP shall complete the peripheral plantation within 6 months from the start of mining operations. The data for such saplings should be furnished during six monthly compliance report along with the progressive plantation. PP shall undertake the progressive bench plantation up to HFL for eco restoration of water bodies.
- viii. The budget of Rs 59.0 Lakhs to address the concerns raised by the public including in the public hearing to be completed within 3 years from the date of start of mining operations. PP shall comply with all action plans made for public hearing concerns and make regular maintenance and record the progressive activity outcomes.

- ix. The Project Proponent shall adhere to the proposed Skill development programme earmarked with a budget of Rs 30.0 Lakhs to enhance the skill of the local people. The data should be maintained for the training imparted to the persons and the outcome of the training, for the assessment of the training program should be analyzed periodically and improved accordingly.
- x. The Project Proponent should implement the Rehabilitation of project affected families (PAFs) and payment of compensation to PAFs as per the policy and guidelines of the Central/State Government, as provided under the law.
- xi. The Project Proponent should explore the possibility of using CNG/electric vehicles instead of Diesel for cleaner production options to reduce the emission.
- xii. Regular surveillance on Silicosis shall be carried through regular occupational health check-up every year for mine workers.

**Day 2: 29<sup>th</sup> December, 2021 (Wednesday)**

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

**EAC Meeting Details:**

EAC meeting	44 <sup>th</sup>
Date of Meeting	28 <sup>th</sup> – 29 <sup>th</sup> December, 2021

The proposal of Shri Prabodh Mohanty is for grant of Environmental Clearance for KJST Iron Ore & Bauxite Mine with expansion in Iron Ore production capacity from 2.0169 to 2.80 MTPA ROM (2.41 MTPA Iron Ore + 0.39 MTPA mineral Reject), Iron Ore waste 1.50 MTPA, Top Soil 0.008 MTPA and Bauxite Production Capacity 0.13 MTPA (ROM), Bauxite waste 0.10 MTPA (Total Excavation: 4.538 MTPA) along with 3 crushing unit (2 existing & 1 proposed) and 5 screening units (3 existing & 2 proposed within the mine lease area of 188.268 ha, located at Villages Kalmanga, Jaldihi, Sidimba and Tantigram, Tehsil: Koira, District: Sundargarh, Odisha. The mine lease area is located between Latitude 21°51'03.36" N to 21°51'58.28" N

&Longitude 85°14'00.58" E to 85°15'08.91" E. The mine lease area falls within the Survey of India Topo-sheet No. F45N1 & F45N5 and falls in seismic zone-II. The PP presented the KML file during the presentation to indicate the location of mine lease on Google Earth.

2. The Project Proponent has made an online application vide proposal no. IA/OR/MIN/7291/2011 dated 08.12.2021 and submitted Form-2&EIA report under the provisions of the EIA Notification, 2006. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals and falls under Category "A" as the mining lease area is greater than 100ha and appraised at the Central level.

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

Date of application	Proposal/ File No	Consideration	Details	Date of accord
08.06.2007	IA/OR/MIN/11500/2006  F.No.J-11015/417/2006-IA.II(M)	18 <sup>th</sup> - 20 <sup>th</sup> June, 2007	Environmental Clearance granted for an annual production capacity of 7,00,000 tonnes (0.7 million tonnes) of iron ore and 50,000 tonnes (0.05 million tonnes) of bauxite by opencast semi-mechanized method involving mine lease area of 188.523 ha,	28.01.2008
30.03.2015	J-11015/121/2011. IA-II (M)	29 <sup>th</sup> – 30 <sup>th</sup> , April 2015	Amendment in EC dated 28.01.2008 w.r.t "deletion of specific condition (ii) Environmental Clearance is subject to obtaining clearance under the Wildlife (Protection) Act, 1972 from the competent authority.	24.06.2015
11.04.2011	J-11015/121/2011. IA-II (M)	27-28 January, 2014 & 20-21 March, 2014	Expansion of production of iron ore from 0.7 MTPA to 2.0169 MTPA, Bauxite Ore from 50,000 TPA to 1,30,000 TPA in the mine lease area of	24.06.2015

			188.523 ha excluding 11.006 ha of forest land for which FC is not available	
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**4. The details of the Terms of References (TOR) are furnished as below:**

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

5. The Project Proponent submitted that originally, Mining Lease for Iron & Manganese Ore over an area of 333.063 ha was granted by Govt of Odisha, Mining & Geology Department vide letter no 13775/MG. Bhubaneswar on 27.11.1986 in favor of Sri. S.N. Mohanty. Lease deed was executed on 20.01.1987 for a period of 20 years from 20.01.1987 to 19.01.2007. Subsequently on 07.02.1987, Lessee applied for inclusion of bauxite in the principal lease deed executed on 20.01.1987 for iron & manganese ore and same was included vide State Govt letter No 9870 /MG. Bhuvneshwar dated 13.10.1989. An additional lease deed was executed on 11.12.1989 co-terminus with the principal lease deed. Lease was inherited by Shri Probodh Mohanty vide Government of Odisha order dated 11.03.1999 subsequent to the demise of original lessee S.N Mohanty. First Lease Period was expired on 19.01.2007. Out of 333.063 ha, first renewal of mining lease over an area of 188.523 ha was applied on 06.12.2005 for 20 years (From 20.01.2007 to 19.01.2027) by Sri Prabodh Mohanty. Final mine closure plan for the area (144.54 ha) approved by IBM vide their letter No. FMCP/OTF.MECH/09-ORI/BHU/2010-11 dated 12.01.2011. Certificate was obtained from IBM regarding surrendered area under Rule 29A of MCR, 1960 vide their letter no T/FMCP/C/1/BHU-2011 dated 11.01.2012. Surrendered proposal over 144.54 ha had been accepted by the Department of Steel & Mines, Govt. of Odisha, Bhubaneswar vide their letter No. 271/SM/Bhubaneswar Dt: 13.01.2016. The Govt. of Odisha in Department of Steel & Mines letter No. 5630/III(B) SM-21/2007/SM, Bhubaneswar dated 05.07.2016 issued orders extending the lease period of KJST Iron, Manganese & Bauxite Mines up to 19.01.2037 over an area of 188.523ha as per Section 8 (A) of MMDR Act-2015. After DGPS verification undertaken by Odisha Space Application Centre (ORSAC), Dept. of Science & Technology, Govt. of Odisha, the extended area was determined to be 188.268 ha and the surrendered area comes to 144.788 ha. The supplementary lease deed of ML area over 188.268 ha has been executed on 14.07.2016 for 50 years in all total w.e.f. 20.01.1987 to 19.01.2037 as per section 8A of the Mines and Minerals (Development & Regulation) amendment Act 2015 in favor of Shri Prabodh Mohanty, Son of Late S.N. Mohanty (Original Lessee).

## 6. Land Area Breakup

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

## 7. Details of Mine Plan

S.no	Mining Plan along with the Conceptual Plan Approved By	Letter no	Dated of Approval	For a period	Details
1	Review of Mining Plan including Progressive Mine Closure Plan	RMP/A/17-ORI/BHU/2020-21/1957	20.10.2020	2021-22 to 2025-26	188.268 ha

8. The Project Proponent submitted that it is proposed to continue the mining operations by opencast fully mechanized method. PP reported that the estimated, iron ore resource is 36.868 Million Tonnes and reserve is 32.754 Million Tonnes and Bauxite resource is 1.345 Million Tonnes and reserve is 1.023 Million Tonnes. Life of the mine will be 12 years. PP reported that the bench height of 8m and bench width of 14m will be maintained. Overall pit slope will be 33°. DTH drill of 100mm – 115mm dia will be used for deep/blast hole drilling. Blasted iron ore will be transported to the screening & crushing sites and manual processing site and similarly, bauxite will be transported to the manual processing site. Dumpers of 25t to 35t capacity will be deployed for transportation of ROM ore to the stacking and waste dumping site. PP reported that a total of 37,051 tonnes of top soil has been generated from the inception of mine and during plan period about 15,114m<sup>3</sup> of top soil will be generated which will be stacked initially in the existing topsoil stack and spread subsequently over the waste dump as well as bauxite mined out area concurrently for plantation along the dump slopes. PP also reported that about 35,39,747 tonne of Iron ore waste have been produced since inception of mine. Dump-1 is active but stable and not rehabilitated till date. Total 3,48,025 tonnes of Bauxite waste have been produced since inception of mine. Bauxite mined out area was 0.423 ha which has been reclaimed partly by way of plantation. Overburden/waste generated in iron ore quarries will be dumped permanently at the north-eastern part of the lease area. Overburden/waste generated in bauxite quarry will be utilized for back-filling of the mined-out area concurrently. During the plan period, dry crushing & screening process will be adopted in the lease area for production of sized ore. Sub-grade iron ore (+45-55%Fe) of plan period will be stacked initially and dispatched subsequently after blending with upper grade ores or as such depending upon the market demand. Oversized lumps (40-200mm) obtained from the ore plot as well as screens will be fed in to the three mobile crushing units of 250tph (1 no.) and 200tph (2 nos.) to produce the lumps of 5-18mm and fines of -5mm. Saleable ore obtained from the crusher/screen will be dispatched to the steel plants, sponge iron plants etc. through contractual trucks/train.

**9. Details of Depth of Mining and Ground water level:**

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

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

Particulars	Details	Distance & Direction
Nearest Village	Habitation of Village Tinto	~500 m in ESE direction
Nearest Town/ City	Koira	~ 4.6 km in North direction
Nearest Highway	NH-215	~4.5 km in North direction
Nearest Railway Station	Barsuan Railway Station	~12 km in NW direction
Water Bodies	Jokanal Nala	~1.8 km in SE Direction
	Boream Nala	~2.0 km in East direction
	Khuntachira Nala	~2.3 km in East Direction
	Teherei Nala	~2.8 km in NE direction
	Kundra Nala	~2.8 km in SSE Direction
	Raura Nala	~3.0 km in SE Direction
	Khajurdihi Nala	~4.0 km in East direction
	Juruli Nala	~4.5 km in SE Direction
	Porhadihi Nala	~5.0 km in East Direction
	Karo Nala	~5.5 km in NNW Direction
	Sakarnada Nadi	~5.5 km in SW direction
	Badamgarh Nala	~6.0 km in SE Direction
	Champajhar Nala	~6.0 km in SSE Direction
	Archanda Nala	~6.5 km in East Direction
	Barapokhari Nala	~6.5 km in SW Direction
	Suna Nala	~7.8 km in ESE direction
	Gahirajala Nala	~7.8 km in ENE Direction
	Raikirnala Munibi Nala	~8.0 km in SSW Direction
Sarsni Nala	~8.5 km in SSE direction	
Garhgi Nalah	~9.0 km in SSW Direction	
Phulamanali Nala	~9.5 km in SW Direction	
Ananka Nala	~9.5 km in South Direction	

**11. Water requirement**

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

**12.** The Project Proponent reported that the entire mine lease area of 188.268 ha is forest land. PP obtained Stage-II Forest Clearance for 188.523 ha (PRF-64.347+DLC-110.401+KF-13.775ha). Temporary working permission (TWP) over already broken upon forest area of 18.814 ha obtained vide letter no F.No.8-45/2007-Fc dated.12.06.2008 for a period of one year. Stage-I Forest Clearance was obtained from MoEF (FC Division) for 177.517 ha area vide letter No 8-45/2007-FC(Pt) on 06.11.2008. Final Clearance for the diversion of 177.517 ha (101.658 ha + 75.859 ha) of forest land excluding safety zone & area for public use over 11.006 ha vide letter no 8-45/2007-FC (PT) on 31.07.2009. Stage-I forest clearance over 11.006 ha consisting of 9.778 ha safety zone and 1.228 ha area for public purpose from MoEF&CC vide letter no 8-45/2007- FC (Vol) on 29.06.2017. Final clearance over 11.006 ha consisting of 9.778 ha safety zone and 1.228 ha area for public purpose from MoEF&CC vide letter no 8- 45/2007-FC (Vol) on 26.08.2019. PP reported that the following Reserve Forest such as Sarakanda RF (~0.2 km, W), Khajurdihi RF (~1.8 km, SE), Reserve Forest (~2.0 km, N), Kathamala RF (~4.8 km, N), Mendhamaruni RF (~6.5 km, NNE), Torha RF (8.0 km, West), Karo RF (~9.0 km, NNW) are exists within the 10km radius. PP also reported that there are No National Park/Sanctuaries, Biosphere Reserves, Ramsar Site, Tiger/Elephant Reserves (existing as well as proposed), Wildlife Corridors, falls within the 10km radius. In support of this, PP also submitted the letter obtained from the O/o PCCF(Wildlife)& Chief Wildlife Warden vide Lr no 9962/1 WL (C) SSP - 123/2011 dated 18.12.2013 and from the O/o PCCF(Wildlife)& Chief Wildlife Warden Lr no 8891/CWLV-FDWC-FD-0078-2021 dated 13.09.2021 along with the authenticated map.

**13.** The Project Proponent reported that there is no Schedule-I species found in the core and buffer zone. PP also submitted the authenticated list of Flora and Fauna obtained from the O/o of PCCF (Wildlife)& Chief Wildlife Warden vide letter no 9962/1 WL (C) SSP - 123/2011 dated 18.12.2013 and from the O/o Divisional Forest Officer, Bonai Division vide letter no 5360/6F-(Mg) dated 07.07.2021. Further, PP submitted the Certificate obtained from the DFO, Bonai Division that the 10kms



around buffer zone does not form a part of any National Park, Biosphere Reserve, Sanctuary, Wildlife Corridor, Tiger/Elephant Reserves (existing/proposed). Clearance as per wildlife act 1972 is not applicable for this project. However, the user agency is participating in the Regional Wildlife Management Plan. PP submitted the Approval of Wildlife Conservation Plan approved by the PCCF (WL) & Chief Wildlife Warden, Orissa for Rs 70.0 Lakhs.

**14.** The Project Proponent reported that the total area proposed under greenbelt/plantation will be 151.709 ha, in which area under greenbelt is 6.412 ha and area under plantation is 145.299 ha (25.124 ha on backfilled area, 72.031 ha on bench slope, 19.515 ha on waste dump, 2.580 ha on Safety zone of 10 m width along the public road, 0.371 ha under Orchard and 24.890 ha area under Infrastructure, Processing plant & magazine demolished area as well as top soil and mineral stack removal area. As on date, 10.813 ha area has been covered under greenbelt and plantation. PP also reported at present there are 24,250 no. of plants have been planted over an area of 9.861 ha. An amount of Rs. 20.25 lakhs (Capital Cost) have been spent under greenbelt on 7.5 m lease periphery and 10 m safety zone along road. PP earmarked a budget of Rs. 350.0 lakhs towards greenbelt & plantation till the end of life of mine. PP also submitted an Affidavit cum undertaking in a non-judicial stamp paper of Rs 100 bearing M 107305 dated 19.11.2021 that we have planted all gap plantations within the safety zone with more than 800 no.s of saplings within last 6 months and more plantations within safety zone and within lease area under progress. Saplings are grown above 6 ft height and the survival rate is satisfactory and is above 90%. PP initiated the plantation within the periphery of the mine lease area in consultation with the local Forest Department. PP also submitted that the remaining plantation will be completed within 6 months from the date of issue of EC.

**15. Baseline Details:**

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

Period	December, 2020 to February, 2021				
AAQ parameters at 8 locations	Pollutant	Min, µg/m <sup>3</sup>	Max, µg/m <sup>3</sup>	98 %le, µg/m <sup>3</sup>	Standard, µg/m <sup>3</sup>
	PM2.5	25.6	53.6	53.0	60
	PM10	55.2	90.4	89.6	100
	SO2	5.2	13.1	12.9	80
	NOx	9.1	26.2	25.9	80

AAQ modelling (Incremental GLC)	Pollutant	Baseline Concentration, µg/m <sup>3</sup>	Incremental Concentration, µg/m <sup>3</sup>	Total GLC, µg/m <sup>3</sup>	Standard
	PM2.5	53.6	0.8	54.4	60
	PM10	90.4	2.0	92.4	100
	SO2	13.1	1.2	14.4	80
	NOx	26.2	2.4	28.7	80
Noise level at 8 locations	Day Time: 48.7 to 61.4 Leq dB (A) Night Time: 40.8 to 46.2 Leq dB (A)				
Ground water quality at 8 locations	PP submitted that pH varied from 6.45 to 7.21. Total hardness varied from 32 mg/l to 100 mg/l. Total Dissolved Solids varied from 63 mg/l to 175 mg/l. The water samples contain, chloride from 4.21 to 27.49 mg/l, Fluoride from 0.08 to 0.66 mg/l, SO4 varies from BDL (DL 1.0 mg/l) to 38.55 mg/l, Ca from 10.02 to 26.45 mg/l, Mg varies from 1.70 to 10.69 mg/l. The analysis revealed that ground water found potable. All the groundwater samples showed more or less similar and good quality of water.				
Surface water quality at 8 locations	PP submitted that pH varied from 6.66 to 7.02 indicating slightly acidic. The colour and turbidity found to be in the permissible limit and odour found agreeable at all the locations. BOD varied from 1.20 to 6.60 mg/l & COD varied from 4.0 to 20.0 mg/l indicating that water is clear.				
Soil quality at 9 locations	PP submitted that the soil samples exhibit brown and blackish which indicates good fertility and presence of organic matter in the soil samples. The organic matter (0.63% to 1.05%) and organic carbon (0.37% to 0.61%) present in the soil observed to be appropriate for the plant growth. The texture of the soil samples were loam, sandy loam and sandy clay loam. pH of the soil found to be slightly acidic ranging from 5.21 to 6.85. The analysis indicated that the soil quality within the study area is of a good quality and contains sufficient macronutrients which are vital for healthy plant life.				

#### 16. Public Hearing (PH) Details:

Advertisement for PH with date	27.08.2021 The New Indian Express and Dharitri
Date of PH	29.09.2021 at 11:00 AM
Venue	Sidimba Community Center near Anganwadi Centre at Sidimba Village of Dengula G.P under Koira Block of Sundargarh District.
Chaired by	i. Chairperson: Shri Biswajit Mohapatra, Additional District Magistrate, Sundargarh, odisha. ii. Officers: Shri Vijay Kumar Bhoi, Asst. Env

	Engineer, State Pollution Control Board, Rourkela, Odisha
Main issues raised during PH	Educational facility, Medical/Health facility, Infrastructure development, skill development, livelihood opportunities etc.
Budget proposed for addressing issues raised during PH	Rs. 1.38 Crore

**17.** The Project Proponent submitted the EC Compliance report certified by Integrated Regional Office, Bhubaneshwar vide F.No. 101-844/EPE/595 dated 25.03.2021 and final closure report for the action taken by the PP vide F.No. 101-844/EPE/559 dated 17.05.2021. PP also submitted the Consent to Operate issued by the State Pollution Control Board, Odisha vide Order No. 3608/IND-I-CON-4691 dated 09.03.2021 for production of Iron Ore 2.0169 MTPA and Bauxite 0.13 MTPA and operation of crushing plant 2 x 200 TPH and operation of screening plant 3 x 200 TPH for the period up to 31.03.2026. PP has submitted the Compliance of the NEERI recommendation of carrying capacity for Odisha to the Regional Officer, State Pollution Control Board, Rourkela vide Letter Reference: PM/BBL/20-21/305 dated 16.10.2020.

**18.** The Project Proponent submitted that the mine is in operation since 1987. PP has submitted the past production data duly authenticated from the O/o of the Dy. Director of Mines, Koira vide Memo no 5130 dated 10.12.2020 for Iron ore and Bauxite from 1987 to 2020-2021 (upto November 2020) and it also mentioned that the production of Manganese ore is Nil since the inception of the mine. PP submitted that the Demand notice has been received from the O/o the Deputy Director of Mines, Koira Circle vide letter no 5134/Mines dated 02.09.2017 to pay the compensation of Rs. 79,19,97,665.73 (Rupees Seventy nine crore Nineteen lakh Ninety seven thousand Six hundred sixty five & Seventy three paise) for production without/in excess of the environmental clearance during 2000-01 to 2006-2007 in pursuance to the Judgment dated 02.08.2017 of Hon'ble Supreme Court in W.P.(C) No.114 of 2014 in the matter of common cause vs Union of India and Others. PP has paid the entire compensation in the designated account and intimated the same to Deputy Director of Mines vide letter no PM/BBL/BO/DDM/1052/2017 dated 29.12.2017.

**19.** The Project Proponent submitted that the total mining lease area is 188.268ha of forest land. PP obtained the Surface right for the earlier retained M.L. area 188.523 ha from the office of the District Collector, Sundargarh. No houses exist within the mine lease area and hence R&R is not applicable for this project.

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

**21. Affidavit/Undertaking details**

Affidavit in a Non-Judicial stamp paper of Rs 100 bearing L 191220 dated 03.12.2020 as per Ministry's OM dated 30.05.2018	I hereby undertake by affidavit that I have complied with all the statutory requirement & judgment of Hon'ble Supreme Court dated 2 <sup>nd</sup> August 2017 in writ Petition (civil) No. 114 of 2014 in the matter of common cause versus Union of India &Ors.
Project Proponent submitted an Undertaking vide Letter Reference: PM/BBL/BO/UG/249/2021 dated 29.11.2021	Jyoti Ranjan Rout, Vice President Authorized Signatory of Shri Prabodh Mohanty, give this undertaking to the effect that the conditions laid down in Terms of Reference prescribed by MoEF&CC, New Delhi vide letter no. J-11015/78/2020-IA.II(M) dated 05.02.2021 have been complied with, and the data submitted and the information presented in this report are factually correct.
Consultant submitted an Undertaking dated 29.11.2021	The Consultant submitted an undertaking to the effect that the conditions laid down in Terms of Reference prescribed by MoEF&CC, New Delhi vide letter no. J J-11015/78/2020-IA.II(M) dated 05.02.2021 have been complied as per data/details provided by Project Proponent & as per Review of Mining Plan approved by IBM, Bhubaneswar and the data submitted are factually correct.
Plagiarism Certificate checked on 29.11.2021	The Head of the Accredited Consultant Organization/ Authorized person certified that this EIA Report has been evaluated by using online software viz. Plagiarism Checker X. The report produced has been analyzed by the system and based on it, I certify that the EIA Report produce in accordance with good scientific practice.

**22. Details of the EMP:**

Sl. No.	Activities	Existing Cost		Proposed Cost		Total Cost	
		Capital	Recurring	Capital	Recurring	Capital	Recurring
1.	Mitigative Measures	692.87	59.85	538.00	32.25	1230.87	92.10
2.	Monitoring	78.55	14.00	-	14.00	78.55	28.00
3.	Others-Digital	10.00	-	-	-	10.00	-

	mapping of the entire lease area once in five years						
4.	EMP Budget for public hearing	-	-	138.00	29.00	138.00	29.00
	<b>Total</b>	<b>781.42</b>	<b>73.85</b>	<b>676.00</b>	<b>75.25</b>	<b>1457.42</b>	<b>149.10</b>

**23. Details of project cost and employment:**

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

**24. Observation and Recommendation of the Committee:**

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

working shift to match the 38% of additional proposed production. Therefore, the Committee **deferred** the proposal for want of following additional information: -

- i. The Project Proponent needs to submit the letter from Department of Steel & Mines, Government of Odisha clarifying that whether PP has been carried out the mining activity outside the mine lease area or not since inception of the mine and if any illegal mining has been carried out by PP or not?
- ii. The Project Proponent shall submit the copies of all forest clearances chronology wise since inception of the mine.
- iii. The Project Proponent submitted that they have obtained the EC on 28.01.2008 over an area of 188.523ha and also submitted that final mine closure plan approved by the IBM, over an area of 144.54 ha on 12.01.2011 and the Surrendered proposal over 144.54 ha accepted by the Department of Mines and Steel, Odisha on 13.01.2016, thus, PP needs to clarify why PP obtained the EC only for an area of 188.523 ha on 28.01.2008 and why PP was not included the mine lease area of 144.54 ha at the time of obtaining the initial EC, further PP shall also clarify why it has been surrender the mine lease area over an area of 144.54ha on 2016 and what was the status of the excluded mine lease area during this period.
- iv. The Project Proponent needs to submit the letter obtained from Department of Steel & Mines, Government of Odisha over an area of 188.268ha and also need to explain that why the PP has not obtained any amendment in EC for the EC granted on 24.06.2015 for difference in mine lease area of 0.255ha.
- v. The Committee noted that the Project Proponent reported that the entire mine lease area of 188.268 ha is forest land and PP obtained Stage-II Forest Clearance for 188.523 ha (PRF-64.347+DLC-110.401+KF-13.775ha). PP also submitted the Review of Mining Plan including Progressive Mine Closure Plan approved by IBM over an area of 188.268 ha on 20.10.2020. Hence, the Project Proponent needs to clarify the difference in forest area of 0.255ha (188.268ha-188.523ha) and also the difference in mine lease area of 0.255ha w.r.t. mining plan approved on 20.10.2020 with the supporting documents.
- vi. The Committee noted that the PP submitted that sub-grade iron ore (+45-55%Fe) during plan period will be stacked initially and dispatched subsequently after blending with upper grade ores or as such depending upon the market demand. Hence, the PP needs to clarify whether the mineral beneficiation processing is involved in the proposal or not?
- vii. The Project Proponent also needs to clarify why the final mine closure plan has been approved by IBM for the lesser area of 144.54 ha on 12.01.2011.

- viii. The Project Proponent needs to justify the increase in Iron ore production Capacity from 2.0169 to 2.80 MTPA ROM. PP should also explore the viability of increasing the working shift to match the 38% of additional proposed production along with 1 crusher and 2 screening unit proposed. PP also needs to submit the flowsheet of crushing material including oversized handling of the material.
- ix. The Project Proponent should prepare the EMP considering the scenario of pollution to be generated for normative and peak total excavation for assessing air and noise pollution and accordingly revise the EIA/EMP report.
- x. The Project Proponent needs to submit the scenario of pollution to be generated at the railway siding and at the sensitive receptor for Ambient Air quality, Noise level and Ground vibration.
- xi. The Project Proponent shall revise the EIA report and needs to include the actual data, findings and recommendations of the scientific study carried out by IIT-Kharagpur for slope stability and ground vibration.
- xii. The Project Proponent needs to submit the plan for strengthening the road shoulder of approach road of 5.4 km by maintaining a width of 9m.
- xiii. The Project Proponent needs to submit the detailed composition of forest land with its ecological and economic value comparing the mineral production.
- xiv. The Project Proponent needs to submit the compensatory afforestation plan for the trees to be cut in the southern side of the mine lease area where mining is proposed.
- xv. The Project Proponent needs to consult the local District Authority for the concerns expressed by the public related to construction of hall for 500 sq.ft and detailed note to be submitted along with the justification for construction of hall with cost and its utilization.
- xvi. The Project Proponent needs to submit the details of additional EMP measures suggested cost wise along with the designated effectivity of each unit with input and output specifications.
- xvii. The Project Proponent needs to submit the copy of the Surface right for the earlier retained mine lease area of 188.523 ha from the office of the District Collector, Sundargarh.
- xviii. The Project Proponent needs to submit the compliance of NEERI conditions certified by Integrated Regional Office, MOEF&CC.
- xix. The Project Proponent needs to submit all the analysis/testing reports of water, air, soil, noise, etc. using the MoEF&CC/NABL accredited laboratories.

**2.2 Proposal for Terms of Reference of M/s SAIL for expansion of Barsua-TaldihKalta Iron mines from 8.05 MTPA to 16 MTPA (ROM) and handling 2 MTPA Sub-grade dumps/Tailings with total excavation of 22 MTPA, and installation of new Dry Processing Plants of 7 MTPA for Taldih & 4 MTPA for Kalta and augmentation of existing 3.5 MTPA Barsua Beneficiation Plant along with adequate loading, siding and associated infrastructure in the amalgamated mine lease area of 2564.323 ha, located at Tantra & Bahamba Villages and Toda RF under Koira Tehsil, Sundargarh District, Odisha – [File. No: J-11015/351/2006-IA.II(M) Proposal No: IA/OR/MIN/241335/2021, Consultant: Nil] - Terms of Reference (Expansion)**

**EAC Meeting Details:**

EAC meeting	44 <sup>th</sup>
Date of Meeting	28 <sup>th</sup> – 29 <sup>th</sup> December, 2021

The Proposal of M/s SAIL is for grant of Term of Reference for expansion of Barsua-TaldihKalta Iron mines from 8.05 MTPA to 16 MTPA (ROM) and handling 2 MTPA Sub-grade dumps/Tailings with total excavation of 22 MTPA, and installation of new Dry Processing Plants of 7 MTPA for Taldih & 4 MTPA for Kalta and augmentation of existing 3.5 MTPA Barsua Beneficiation Plant along with adequate loading, siding and associated infrastructure in the amalgamated mine lease area of 2564.323 ha, located at Tantra & Bahamba Villages and Toda RF under Koira Tehsil, Sundargarh District, Odisha. The amalgamated mine lease area falls under the Topo sheet No: 73G/1 (F45N1) and bounded by Latitude from 21°49' 25.43880" N to 21°59' 50.88516" N and Longitude from 85° 07' 43.73832" E to 85° 13' 53.48136" E and falls in Seismic Zone-II.

2. The Project Proponent has made an online application for enhancement in production capacity vide proposal no. IA/OR/MIN/241335/2021 dated 15.12.2021 and submitted Form-1 and PFR under the provisions of the EIA Notification, 2006. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals and 2(b) Mineral beneficiation under Category "A" of the schedule of the EIA Notification, 2006 and appraised at the Central level.

**3. Observation and Recommendation of the Committee:**

The proposal for Terms of Reference (Expansion) was considered in the 44<sup>th</sup> EAC (Non-Coal Mining) meeting held during 28<sup>th</sup> – 29<sup>th</sup> December, 2021. During the meeting, the Committee noted that the instant proposal was earlier considered in the 42<sup>nd</sup>EAC (Non-Coal Mining) meeting held during 30<sup>th</sup> November – 3<sup>rd</sup>December, 2021 wherein the Committee recommended the proposal for amendment in Environmental Clearance for amalgamation of mine lease and the letter is yet to be issued by the Ministry. The instant proposal for enhancement in production capacity



cannot be considered at this stage. Therefore, the Committee **deferred** the proposal and was of the view that the proposal can be considered only after the issue of letter for amendment in EC by the Ministry.

**2.3 Proposal for Terms of Reference of M/s Thriveni Earthmovers Private Limited for Laserda-Pacheri Manganese and Iron ore block for iron ore production of 1.545 MTPA (ROM) and Manganese ore production 0.110 MTPA (ROM) along with Dry screening and crushing using 200 TPH x 2 Primary Crushing, 200 TPH x 2 Secondary Crushing, 200 TPH x 2 Tertiary Crushing, 250 TPH x 2 Vibrating Screen and 150 TPH x 1 Vibrating Screen in the mine lease area of 131.800 ha, located at Dhanurjapur, Kanarda and Laserda Villages, Barbil Tehsil, Keonjhar District, Odisha – [File. No: IA-J-11015/113/2021-IA-II(NCM), Proposal No: IA/OR/MIN/243645/2021, Consultant: Creative Engineers & Consultants] - Terms of Reference (ToR).**

**EAC Meeting Details:**

EAC meeting	44 <sup>th</sup>
Date of Meeting	28 <sup>th</sup> – 29 <sup>th</sup> December, 2021

The Proposal of M/s Thriveni Earthmovers Private Limited is for grant of Terms of Reference for Laserda-Pacheri Manganese and Iron ore block for iron ore production of 1.545 MTPA (ROM) and Manganese ore production 0.110 MTPA (ROM) along with Dry screening and crushing using 200 TPH x 2 Primary Crushing, 200 TPH x 2 Secondary Crushing, 200 TPH x 2 Tertiary Crushing, 250 TPH x 2 Vibrating Screen and 150 TPH x 1 Vibrating Screen in the mine lease area of 131.800 ha, located at Dhanurjapur, Kanarda and Laserda Villages, Barbil Tehsil, Keonjhar District, Odisha. The mine lease area is located between Latitude 22°03'16.60991"N to 22°04'19.18502"N and Longitude 85°17'53.81761" to 85°19'15.99748" E. The mine lease area falls under the Survey of India Toposheet No: F-45H8(73F/8) and falls in Seismic Zone-II. The PP presented the KML file during the presentation to indicate the location of mine lease on Google Earth.

2. M/s Thriveni Earthmovers Private Limited has made an online application vide proposal no. IA/OR/MIN/243645/2021 dated 10.12.2021 and submitted Form-1 & PFR under the provisions of the EIA Notification, 2006. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals and falls under Category "A" as the mining lease area is greater than 100ha and appraised at the Central level.

**3. Lease Details:**

S. no	Grant of PI/mine lease/ Order	Date of grant	Name of the Mineral	Period of Grant	Granted by	Mine lease area in Ha

1	Letter of Intent for grant of Composite License No. IV (MISC)SM06/20178 48/SM, Bhubaneswar	27.01.2017	-	-	Govt. of Odisha	256.304
2	Composite License vide Lr No.IV (B)SM-100/2007-433/SM,	19.01.2019	Manganese	24.01.2019 to 23.01.2021	Govt. of Odisha	256.304
3	Letter of Intent for grant of mining lease vide No.7731-IV(B)SM-100/2017/SM	21.09.2021	Manganese & Iron	Lol valid for a period of 3 years from the date of its issuance	Govt. of Odisha	131.889
4	Revised Lease and authenticated DGPS Survey map vide Lr No. MXIII (b) 80/2015/8031/DM/dated 22.10.2021	22.10.2021	Manganese & Iron	-	Govt. of Odisha	131.800

#### 4. Land Area Breakup:

Private land	35.765 Ha
Government land	1.684 Ha
Forest land	94.351Ha
Total Mining lease area (MLA)	131.800 Ha

#### 5. Details of Mine Plan:

S.no	Mining Plan along with the Conceptual Plan Approved By	Letter no	Dated of Approval	For a period	Details
1	Mining Plan along with Progressive Mine Closure Plan approved by IBM	MP/A/14-ORI/BHU/2021-22	18.11.2021	5 years from the execution of mining lease	Iron & Mn over an area of 131.800 ha

**6.** The Project Proponent submitted that the open cast fully mechanized method of mining is proposed. PP also submitted that the lease area configuration with the narrow intervening portion wherein Karo river is passing through divides the lease area into 2 workable blocks namely North East block (Laserda block) and the South western (Pacheri block) block. PP reported that from the present exploration, the iron ore is found only in a small portion of Laserda block whereas Manganese is found in both the blocks. Mining activity in the initial 5 years will be limited to North east Laserda block only. During the plan period Iron ore will be worked from 3 pits namely Laserda Pit -1, 2 & 3 and Manganese will be worked from 2 pits namely Laserda Pit -2 & 3. PP reported that the estimated mineable reserves for iron is 6.226 Million Ton ROM (>45% Fe) and Manganese is 6.470 Million Ton ROM (>10% Mn) as per present available borehole data, which is likely to increase after future exploration. The total life of mine is 7 years for iron ore 62 years for manganese including the present plan period. PP submitted that for Iron ore benchheight of 10m and Width which will be equal and more than the height and for Mn ore benchheight of 5m and Width will be equal and more than the height will be maintained. Overall pit slope will be 37.5°. Overburden and ROM will be removed by using shovel-dumper combination. 30 Tonne dumpers are proposed to transport the mineral. The blasted run-off mine Manganese ore will be hauled to sorting places located at the designated site. The ROM is then dressed, sorted, sized and graded by deploying mazdoor. The blasted run-off mine Iron ore will be hauled to dry processing plant area as designated for screening and crushing. The different quality of finished ore is then loaded mechanically to the dumpers and transported to stacking ground for stacking the ore in regular geometrical shapes and samples are collected and analyzed in lab. During the plan period about 3.887 Million Tonnes of waste comprising 3.037 Million Tonnes (1.381 Mm<sup>3</sup>) from iron ore operation and 0.850 Million Tonnes (0.386 Mm<sup>3</sup>) from Manganese ore operation is expected to get generated. Two dumps are proposed for handling the waste generated during the 1<sup>st</sup> and 2<sup>nd</sup> year of the plan period. The waste generated from the third year onwards will be utilized for refilling the worked-out Pit – 1. Out of the total waste generated during the plan period, 0.353 Mil.m<sup>3</sup> of waste will be used for road maintenance, 0.789 Mil.m<sup>3</sup> of waste will be dumped in Dump-1 & 2 and the balance 0.623 Mil.m<sup>3</sup> will be backfilled in the mined-out void. The mineral reject will be stacked in 3 places. The temporary mineral reject stack – 1 is for manganese ore. The temporary mineral reject stack – 2 & 3 is for iron ore. The temporary mineral reject stack 1 & 2 is on virgin area and mineral reject stack -3 will be on the top of the already refilled and reclaimed area of Laserda pit -1. The sub grade ore/Mineral Reject shall either be sold directly or will be blended with high grade material. PP reported that the ultimate depth of mining will be 392mRL.

**7. Water requirement:**

Total water requirement	95 KLD (Fresh water), besides 300 KLD from anticipated dewatering from mines pit.	Drinking water, Domestic use	8.0 KLD
		Water Sprinkling for Dust Suppression	79.0 KLD
		Greenbelt and Plantation	5.0 KLD
		Workshop cum ETP	3.0 KLD
Source	Groundwater		
Permission	PP submitted that they are yet to apply		

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

Particulars	Particular's Name	Distance & Directions
Village	Laserda	300m, S
Town	Barbil	7Km, NE
Highway	NH-520	4.8Km, E
	SH-10B	6.8Km, E
	SH-4	8.4Km, N
Railway Station	Bolani Railway Siding	4.5Km, N
	Barbil Railway Station	6.3Km, NE
Waterbodies	Karo River	Passes through the lease area
	Seasonal Stream	Within lease area
	Topadihi Nala	5.1Km, S

**9.** The Project Proponent reported that the total mine lease area is 131.800 Ha, out of which 94.351Ha is forest land and 37.449Ha is non-forest land. PP applied for diversion of 94.351 ha of forest land including 4.261Ha of safety zone vide proposal no: FP/OR/MIN/149499/2021 dated 22/11/2021. PP also reported that there is No National Park, Wild Life Sanctuary, Eco Sensitive Areas, Biosphere Reserves etc. within 10 Km radius of the study area. Further, PP reported that the following Reserve Forests such as Karo RF (<1 Km, NW), Uliburu RF (0.2 Km, SE), Lakrghat RF(1.8Km, S), Siddhamath RF (1.4 Km, SE), Thakurani RF (7.4 Km, E) and Karampada RF (3.4 Km, W) are found within 10km of the study area. PP also submitted that Odisha – Jharkhand State Boundary is located at a distance of 2.92 Km (W) from the mine lease area.

**10.** The Project Proponent submitted that the during the plan period it is proposed to plant over 2.243 ha. of area along the Mining Lease bounday and 50 mtrs of road safety zone in Laserda side. In the post mining stage, overall, an area of 127.29 Ha (96.57% of the total lease area) will be covered under vegetation. Out of this, 74.840Ha of mined out void will be reclaimed by backfilling and plantation, 18.672 Ha of OB dumps will be stabilized by plantation, 1.951Ha of infrastructure, 21.502Ha of mineral storage and sorting area, 2.27Ha of mineral separation plant and 1.941Ha of public utility area will be dismantled and covered under plantation. 6.114Ha will be

greenbelt / safety zone. Green belt development will be developed in all possible area comprising 6.114 ha safety zone around mine lease, infrastructures facilities, mineral storage etc. within the mine lease area.

**11.** The Project Proponent submitted that 42.242 Ha of land needs to be acquired. Out of which Non-Forest Private Land is 35.791 Ha, Sabik Kissam Jungle Pvt. Land of 6.145 Ha and Forest Pvt. Land of 0.306 Ha. PP also submitted that 25 number of houses will be shifted as per the 'Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Act, 2013' and 'the Odisha Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Rules, 2016'. Application for the same has been submitted to the Department of Steel & Mines, Government of Odisha.

**12.** The Project Proponent submitted that there is no any litigation pending against the project and/or land in which the project is proposed to be set up. PP also submitted the Affidavit in a Non-judicial stamp paper of Rs 50 bearing no.D 087496 dated 20.12.2021 to comply with all the statutory requirement & judgment of Hon'ble Supreme Court dated 2<sup>nd</sup> August 2017 in writ Petition (Civil) No. 114 of 2014 in the matter of common cause versus Union of India & Ors.

**13. Details of project cost and employment:**

Particulars	(Rs. In Crore)
Project Cost	Rs.96 Crores
Employment	335 Persons

**14. Observation and Recommendation of the Committee:**

The proposal for Terms of Reference was considered in the 44<sup>th</sup>EAC (Non-Coal Mining) meeting held during 28<sup>th</sup>– 29<sup>th</sup>December, 2021. After detailed deliberations made by the Project Proponent and the Consultant, the Committee noted that the Kard River passing through the mine lease area dividing the mine lease area into two blocks namely North East block (Laserda block) and South western block(Pacheri block) and PP has not submitted any transportation plan for carrying out the mineral over the Kard river. The Consultant couldn't able to bring out the details of transportation before the EAC (Non-Coal Mining). The Committee was of the view that the PP should explore the viability of transportation from each block separately. The Committee also noted that PP has mentioned in the PFR that there are 45 no's of small existing old quarry covering the area of 2.491 Ha within the mine lease area, the current status of the those quarry's and who has been carrying out those quarry's details has not submitted by the PP. The Committee also observed that the PP has not submitted the details of normative and peak excavation. Therefore, the Committee **deferred** the proposal for want of following additional information: -

- i. The Project Proponent should explore the viability of transportation from each block separately from the mine lease area to the railway siding of Bolani and Barbil and needs to submit the map for transport route by clearly mentioning the details of carrying capacity of the road. PP should also indicate the transport route passing through the villages.
- ii. The Project Proponent needs to submit the transportation plan for carrying out the mineral over the river along with the timeline for construction of bridge.
- iii. The Project Proponent needs to clearly bring out the land use/land cover classification of the mine lease area of 131.800 ha along with the ownership of the land.
- iv. The Project Proponent needs to submit the details of depth of the water table and also to clarify whether the mining activity will intersect the ground water table during the entire operation of mine.
- v. The Project Proponent needs to submit the normative and peak total excavation in tonnes including mineral, overburden, inter-burden, waste, top soil, rejects etc. to be handled annually and the management of topsoil and waste needs to be properly addressed. The mineable reserves, blocked reserves need to be mentioned along with the life of mine. Waste to be generated during the entire life of mine and details of the location of dumping/backfilling area needs to be submitted.
- vi. The Project Proponent needs to submit the measures taken in compliance of the MoEF&CC Office Memorandum No. Z11013/57/2014-IA.II (M), dated 29th October, 2014.
- vii. The Project Proponent needs to clarify whether the mineral beneficiation processing is involved in the proposal or not?
- viii. The Project Proponent needs to submit the letter from the Competent Authority that whether the Sabik Kissam Jungle Pvt. Land of 6.145 Ha and Forest Pvt. Land of 0.306 Ha belongs to Forest land or not?.
- ix. The Project Proponent needs to submit the current status and details of the 45 no's of small existing old quarry covering the area of 2.491 Ha within the mine lease area.
- x. The Project Proponent needs to submit the letter from Department of Steel & Mines, Government of Odisha 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 PP or not?.

**2.4 Proposal of M/s Veer Durgadas Minerals Private Ltd is for mining of Limestone in Suvakheda & Kheda Rathore Limestone mine with a production**

**capacity 0.5 million TPA (ROM) Limestone, 0.10 million TPA Topsoil (Total Excavation: 0.60 MTPA) along with the crusher of 250 TPH in the mine lease area of 221.043 Ha, located at Village Suvakheda & Kheda Rathore, Tehsil – Jawad, District – Neemuch, Madhya Pradesh – [File. No: J-11015/83/2020-IA-II(M), Proposal No: IA/MP/MIN/226037/2021, Consultant: Enviro Green Consultants (India) Private Limited] - Reconsideration of ToR regarding.**

**EAC Meeting Details:**

EAC meeting	44 <sup>th</sup>
Date of Meeting	28 <sup>th</sup> – 29 <sup>th</sup> December, 2021

The proposal of M/s Veer Durgadas Minerals Private Ltd is for mining of Limestone in Suvakheda & Kheda Rathore Limestone mine with a production capacity 0.5 million TPA (ROM) Limestone, 0.10 million TPA Topsoil (Total Excavation: 0.60 MTPA) along with the crusher of 250 TPH in the mine lease area of 221.043 Ha located at Village Suvakheda & Kheda Rathore, Tehsil – Jawad, District – Neemuch, Madhya Pradesh. The mine lease area is located between Latitude 24°32'05.47" N to 24°33'42.56" N and Longitude 74°49'24.55" E to 74°51'51.18" E. The mine lease area falls under the Survey of India Toposheet No 45 L/14 and falls in Seismic Zone-II. The PP presented the KML file during the presentation to indicate the location of mine lease on Google Earth.

2. M/s Veer Durgadas Minerals Private Ltd initially made an online application vide proposal no. IA/MP/MIN/189486/2020 dated 23.12.2020 and submitted Form-1 & PFR and the proposal was considered in the 26<sup>th</sup> EAC meeting held during 11-13th January, 2021 wherein the Member Secretary informed the Committee that PP vide email dated 07.01.2021 has sought for deferment of the proposal. However, EAC deliberated the proposal based on the documents and information submitted by the PP on the Parivesh portal and deferred the proposal and was of the view that proposal may be considered after the submission of the additional information. Since the PP couldn't submit the information within the stipulated time, the proposal was delisted from Parivesh on 01.07.2021. Then, the PP again submitted the fresh proposal vide online proposal no: IA/MP/MIN/226037/2021 dated 23.08.2021 and submitted Form-1 & PFR under the provisions of the EIA Notification, 2006. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals under Category "A" of the schedule of the EIA Notification, 2006 as the mining lease area is greater than 100 ha and appraised at Central level.

3. The proposal was considered in the 37<sup>th</sup> EAC (Non-Coal) meeting held on 15<sup>th</sup> – 17<sup>th</sup> September, 2021 wherein the Committee noted that the proposal was earlier considered in the 26<sup>th</sup> EAC (Non-Coal) meeting held during 11<sup>th</sup>-13<sup>th</sup> January, 2021 wherein PP did not attend the meeting and sought deferment. The Committee appraised the proposal in the absence of the PP and deferred the proposal for want

of requisite information. PP applied a fresh proposal on 23.08.2021 and the proposal was considered in the EAC meeting held on 15<sup>th</sup>-17<sup>th</sup> September, 2021 wherein the Committee noted that PP did not submitted the information as sought by the earlier EAC meeting held on 11<sup>th</sup>-13<sup>th</sup> January, 2021 thus, the Committee deferred the proposal and asked the PP submit the information as sought by the earlier EAC. The Project Proponent vide Letter Ref: VDPL/EC/2021-22/ dated 07.12.2021 submitted the information on 07.12.2021 the same is considered in the 44<sup>th</sup> EAC meeting held on 28-29<sup>th</sup> December, 2021 wherein PP submitted the following:-

**Point (i). The Project Proponent has submitted the copy of grant of mining lease issued by Department of Mineral Resource, Govt. of Madhya Pradesh vide letter no. F 3- 58/2018/12/1 wherein on the top of the letter the date is mentioned as 07.02.2021 but the date mentioned below the signature is 07.02.2020. PP need to clarify the actual date of lease grant and submit the legible copy of the lease grant order. As Project Proponent submitted that the Lease deed has been executed, hence copy of the same also needs to be submitted.**

**Reply by PP:** PP clarified that the grant of mining lease issued on 07.02.2020 and submitted the copy of grant of mining lease issued by Department of Mineral Resource, Govt. of Madhya Pradesh vide letter no. F 3-58/2018/2/1 dated 07.02.2020 for a period of 50 years over an area of 221.043 ha. PP also submitted the copy of lease deed executed on 25.06.2020 between the Governor of Madhya Pradesh and M/s Veer Durga Das Minerals Private Limited vide Reg. No. MP279462020A1329970.

**Point (ii). As the mine lease is divided in 10 blocks, PP need to submit the mining strategy over a period of 48 years with 5-year stage plan. PP should submit the block wise sequential and progressive mine closure plan. PP needs to submit the detailed plan for accessing each block with the mineable reserves, production proposed and classification of land. PP need to submit the production schedule for each block in a single table for entire life of mine.**

**Reply by PP:** PP submitted the block wise sequential and progressive mine closure plan for the entire life of mine over a period of 48 years with 5-year stage plan. PP submitted that the mining activity will be carried out in Block 4 during the period of 2021-2025 to 2045-2050, Block 2 mining will be carried out during the period of 2050-2055 to 2055-2060 and Block 10 mining will be carried out during the period of 2060-2065 to 2065-2070. PP also submitted the production schedule block wise for the period 2021-2025 to 2065-2070 i.e., till the entire life of mine along with the plan for land use classification.

**Point (iii). The Project Proponent should submit a map demarcating the mineralized zone and the other surface features in the study area.**



**Reply by PP:** PP submitted the Surface Plan showing the mineralized zone and the other surface features such as 7.5 m barrier zone, existing bore hole, old working, electric line, road, houses, temples, well, pond/nallah, agricultural land, govt. waste land and quarry granted for patti katla within the mine lease area.

**Point (iv). The Project Proponent needs to submit the normative and peak total excavation in tonnes including mineral, overburden, inter-burden, waste, top soil, rejects etc. to be handled annually and the management of topsoil and waste needs to be properly addressed. The mineable reserves, blocked reserves need to be mentioned along with the life of mine. Waste to be generated during the entire life of mine and details of the location of dumping/backfilling area need to be submitted.**

**Reply by PP:** PP submitted the details of block wise normative and peak total excavation in tonnes (ROM) including Limestone, Topsoil, Mineral rejects for the period 2021-2025 to 2065-2070. PP reported that the Topsoil of about 2m thickness will be removed which will be approximately 1,22,930 m<sup>3</sup> during the five year plan period and 8,80,413.22 m<sup>3</sup> during the life of mine. About 1,40,310 m<sup>3</sup> of Topsoil shall be used for regrassing, plantation and green belt development. Remaining quantity of 7,40,103.22 m<sup>3</sup> will be stacked at Block No. 4 (near pillar 34) & Block No. 10 (near pillar 201). PP also reported that during the plan period, about 17,047 m<sup>3</sup> of mineral reject will be generated and a total of 2,07,124 m<sup>3</sup> of mineral reject will be generated at the conceptual stage (48 yrs). An area of about 5.7491 ha will be required for storage of the mineral reject which will be stacked at the designated place. There is no generation of waste. PP also submitted the generation of topsoil and its utilization for every 5 year from 2021-2025 to 2065-2070.

**Point (v). The Project Proponent should submit the details of the crushing plant with flowsheet and its exact capacity along with the location map.**

**Reply by PP:** PP submitted that proposed a crusher plant having the capacity of 250 TPH and will be installed in Block No. 2 (Northern side) during the present 30 year plan period and will be shifted to Block No. 10 in the year 2050. No chemical mineral processing is proposed. PP estimated that about 97% will be final output from crushing plant and 3% reject generation.

**Point (vi). The Project Proponent needs to submit the copy of letter of Exemption under Micro and Small Enterprises (MSME) for utilizing ground water from CGWA.**

**Reply by PP:** PP submitted the copy of Certificate obtained from CGWB vide No: 21-4/1156/MP/MIN/2021 dated 28.02.2021 that M/s Suwakhera and Khera Rathore Limestone mine comes under Micro and Small Enterprises category and has ground water withdrawal of less than 10 cum/day. As per S.O. 3289(E) dated 24/09/2020 by Department of Water Resources, River Development and Ganga Rejuvenation, guidelines to regulate and control ground water extraction in India, 2020 Micro and

small Enterprises drawing ground water less than 10 cum/day are exempted. The firm is exempted from seeking NOC. The firm shall install digital water flow meter on all ground water abstraction structures and maintain the logbook.

**5. Lease Details:**

S.no	Grant of PI/mine lease/ Order	Date of grant	Name of the Mineral	Period of Grant	Granted by	Mine lease area in Ha
1	Prospecting License vide Lr No F2-113/ 2012/ 12/1	14.08.2013	Limestone	2 years (05.11.2013 - 04.11.2015)	Govt. of Madhya Pradesh	221.043
2	Letter of Intent for grant of mining lease vide Lr No F 3- 58/2018/ 12/1	03.10.2018	Limestone	50 years	Govt. of Madhya Pradesh	221.043
3	Grant of Mining lease vide Lr No F 3- 58/2018/ 12/1	07.02.2020	Limestone	50 years	Govt. of Madhya Pradesh	221.043

**6. Details of executed Mine leases:**

S.no	Date of grant of Lease execution	Period of Grant		Details
		From	To	
1	Date of entering into original lease deed.	25.06.2020	24.06.2070	Lease deed executed on 25.06.2020 between the Governor of Madhya Pradesh and M/s Veer Durga Das Minerals Private Limited vide Reg. No. MP279462020A1329970.

**7. Land use Land Cover of the Mine Lease Area:**

Private land (Agriculture)	194.681 Ha
Government Waste land	26.362 Ha
Total Mining lease area (MLA)	221.043 Ha
Private land for crusher, workshop & other infrastructure outside the MLA	No private land is proposed to be utilized for crusher, workshop & other infrastructure outside the MLA.

## 8. Details of Mine Plan:

S.no	Mining Plan along with the Conceptual Plan Approved By	Letter no	Dated of Approval	For a period	Details
1	Modification to approved Mining Plan approved by Indian Bureau of Mines	MP/Neemuch/L IMESTONE/M PLN/MOD-06/ 2021-22/5651	30.07.2021	2021-22 to 2024-25	Additional provision to install a crusher/ screens to upgrade the limestone quality

9. The Project Proponent submitted that the method of mining will be opencast mechanized mining with drilling and blasting. During this plan period mining is proposed in block no. 4 only. PP reported that total mineable reserve is 23.84 Million Tonnes and at the present planned capacity, the life of mine will be 48 years. The proposed bench height will be 8m and width of the working benches will be around 20-25m. At conceptual stage bench width will be reduced to 8m. Overall pit slope will be 45°. Drilling will be carried out using Wagon drill with hole dia. of 102-115 mm. Blasting will be done using ANFO with booster explosive. Loading of mineral will be done by Hydraulic Excavator of 2.1 cum bucket capacity. Transportation within the mine lease area will be done using Tippers of 15 Tonnes. PP also submitted that to upgrade the final output from the mine it is proposed to carry out primary crushing within leasehold area and proposed to install the crusher in Block No. 2 (Northern side) during the present 30 year plan period and will be shifted to Block No. 10 in the year 2050. The capacity of the crusher plant is 250 TPH No chemical mineral processing is proposed. PP estimated that about 97% will be final output from crushing plant and 3% reject generation. Crushed limestone will be loaded by the loader into tippers/dumpers for onward transportation. Solid waste is in the form of mineral reject only. PP reported that the Topsoil of about 2m thickness will be removed which will be approximately 1,22,930 m<sup>3</sup> during the five year plan period and 8,80,413.22 m<sup>3</sup> during the life of mine. About 1,40,310 m<sup>3</sup> of Topsoil shall be used for regrassing, plantation and green belt development. Remaining quantity of 7,40,103.22 m<sup>3</sup> will be stacked at Block No. 4 (near pillar 34) & Block No. 10 (near pillar 201). PP also reported that during the plan period, about 17,047 m<sup>3</sup> of mineral

reject will be generated and a total of 2,07,124 m<sup>3</sup> of mineral reject will be generated at the conceptual stage (48 yrs). An area of about 5.7491 ha will be required for storage of the mineral reject which will be stacked at the designated place. There is no generation of waste.

**10.** The Project Proponent reported that mine working (Block No. 4) will be up to a depth of 472 mRL (18m bgl) during the present plan period. Proposed conceptual depth (Block No. 9) of mining will be up to 433mRL (50m bgl). Water table in the area is found to be in the range of 60-70m bgl. Hence mining activity proposed will not intersect the ground water table in any block.

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

Particulars	Particular's Name	Distance & Direction
Nearest Village	Suvakheda	Adjacent to the lease area
Nearest Town	Jawad	4.8km, North East
Nearest Highway	NH 156	3.5km, West
Nearest Railway Station	Neemuch	7.8 km, South
Nearest water bodies	Ghambhiri River	8.0 km, North

**12. Water requirement:**

Total water requirement	15.0 KLD	Dust suppression	8.0 KLD
		Green belt	5.0 KLD
		Domestic	2.0 KLD
Source	Drinking water will be utilized through purchased tankers. Rain water collected in the mine sump and rain water collection pond will be utilized for dust suppression and greenbelt development		
Permission	PP submitted the Certificate obtained from CGWB vide No: 21-4/1156/MP/MIN/2021 dated 28.02.2021 that M/s Suwakhera and Khara Rathore Limestone mine comes under Micro and Small Enterprises category and has ground water withdrawal of less than 10 cum/day. As per S.O. 3289(E) dated 24/09/2020 by Department of Water Resources, River Development and Ganga Rejuvenation, guidelines to regulate and control ground water extraction in India, 2020 Micro and small Enterprises drawing ground water less than 10 cum/day are exempted. The firm is exempted from seeking NOC. The firm shall install digital water flow meter on all ground water abstraction structures and maintain the logbook.		
Additional information (if any)	A sump of about 5 x 5 x 3 will be constructed at lower most end of the bench.		

**13.** The Project Proponent reported that there is no forest land involved in the mine lease area. PP also submitted that there is no National Park, Wild Life Sanctuary, Eco Sensitive Areas, Biosphere Reserves etc. within 10 Km radius of the study area. PP reported that there is one Protected Forest located at a distance of 9.35 Km, North from the mine lease area.

**14. Green belt/plantation details:**

Proposed area for greenbelt/ plantation up to conceptual stage	29.1497ha
Proposed total no of saplings up to conceptual stage	29, 200 no.s
7.5 m Safety barrier	21.3397ha
Backfilled area	7.81ha
Type of Plants proposed	<i>Amla, Semal Anogeissus sp. Gulmohar, Khejri, Neem etc.</i>
1 <sup>st</sup> five year mine plan period	PP submitted that total area of 9.20ha with 9200 no.s of saplings will be planted during plan period of 2021-22 to 2024-25.

**15.** The Project Proponent submitted that as the mining operations will not disturb or relocate any village or human settlement, Rehabilitation & Resettlement (R&R) Plan is not applicable for this proposal.

**16.** The Project Proponent submitted that there is no any litigation pending against the project and/or land in which the project is proposed to be set up. PP also submitted the Affidavit in a Non-judicial stamp paper of Rs 100 bearing AX 423550 dated 07.08.2021 that they will comply with all the statutory requirement & judgment of Hon'ble Supreme Court dated 2<sup>nd</sup> August 2017 in writ Petition (civil) No. 114 of 2014 in the matter of common cause versus Union of India & Ors.

**17. Details of project cost and employment:**

Particulars	Details
Project Cost	Rs 4.14 Crore
Cost of Environmental protection measures	Rs. 5.0 Lakh/annum
Employment	40 Persons

**18. Observation and Recommendation of the Committee:**

The proposal for Terms of Reference was considered in the 44<sup>th</sup>EAC (Non-Coal Mining) meeting held during 28<sup>th</sup>– 29<sup>th</sup>December, 2021. After detailed deliberations made by the Project Proponent and the Consultant, the Committee **recommended** the proposal for Terms of Reference of M/s Veer Durgadas Minerals

Private Ltd for Suvakheda & Kheda Rathore Limestone mine with a production capacity 0.5 million TPA (ROM) Limestone, 0.10 million TPA Topsoil (Total Excavation: 0.60 MTPA) in the mine lease area of 221.043 Ha located at Village Suvakheda & Kheda Rathore, Tehsil – Jawad, District – Neemuch, Madhya Pradesh for undertaking detailed EIA/EMP study subject to the following specific conditions in addition to the standard ToR conditions applicable for non-coal mining projects:-

- i. The Project Proponent should install the continuous ambient air quality monitoring stations in such numbers as per the scientific study and in consultation with CPCB.
- ii. The Project Proponent shall monitor the Ambient Air quality, Noise level and Ground vibration near the crusher and at all the sensitive receptor such as habitation etc., PP should also submit mitigation plan along with adequate control measures to be taken for abatement of pollution arising due to operation of crusher.
- iii. The Project proponent needs to submit the Cost Benefit analysis comparing the current agricultural production and annual turnover including the cost and the benefits drawn by the local villages vis-a-vis the mineral cost and beneficiaries.
- iv. The Project Proponent should prepare the EMP considering the scenario of pollution to be generated for normative and peak total excavation for assessing air and noise pollution by considering all the mining activity.
- v. The Project Proponent shall submit the action plan to be taken to install digital water flow meter on all ground water abstraction structures.
- vi. The Project Proponent needs to carry out the Public Hearing as per provisions of EIA Notification, 2006. PP should also submit the time bound action plan on concerns of the public through proper separate budget for the concerns of the local people in terms of health care facilities for COVID, betterment of schools nearby and to facilitate the online education system by providing Wi-Fi connectivity and desktops/tablets, infrastructure, and environment protection.
- vii. The Project Proponent shall bring out the demarcated map clearly showing the settlements, agriculture land, creation of mine pits with allied activities and other surface features within the mine lease area along with the adequate safety zone and its protection measures and the same need to be incorporated into the EIA/EMP report.
- viii. The Project Proponent needs to submit the preventive measures taken for protection of habitations in the vicinity of the mine lease area.

- ix. The Project Proponent should submit the detailed plantation plan in tabular format (year wise for entire life of mine) with proper capital and recurring cost. PP shall undertake the adequate plantation with the seedling of 10 ft height with at least 90% survival rate and the plantation shall be completed within 3 years from the start of mining operations. The casualties of each year shall be replaced every year with new saplings and such number of saplings shall not be counted in the number of saplings proposed to plant in that year. PP shall undertake the progressive bench plantation up to HFL for eco restoration of water bodies. Undertaking in this regard needs to be submitted by the PP.
- x. The Project Proponent should submit list of Schedule – I species present in the lease area authenticated by PCCF and the status of National Park/Sanctuary, Biosphere Reserve/Tiger Reserve/Elephant Reserve/any other Reserve, Habitat for migratory birds, Corridor for animals within 10 km of the lease area.
- xi. The Committee during the meeting noted that there are few excavated areas are found within the mine lease area and PP informed that excavated areas are very old quarries of Patti Katla located in the north west of the Block 5 & 6 which is presently non-working & also they will not continue in future. However, PP needs to submit the letter from the DGM, Madhya Pradesh 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 PP or not?
- xii. The Project Proponent needs to submit an undertaking that the mining activity will be carried out only in Block 4 over an area of 32.092 ha till 2050-2055 as proposed.

**2.5 Proposal for Terms of Reference of M/s NCL Industries Limited for Gundlapalli mine for expansion of Limestone production from 1.0 MTPA to 3.0 MTPA, Topsoil – Nil, OB/Waste – Nil in the mine lease area of 130.37ha, located at Gundlapalli village, Matampally Mandal, Suryapet District, Telangana – [File No: J-11011/576/2008-IA.II(I), Proposal No: IA/TG/MIN/217936/2021, Consultant: Pridhvi Envirotech Pvt Ltd] - Reconsideration of ToR.**

**EAC Meeting Details:**

EAC meeting	44 <sup>th</sup>
Date of Meeting	28 <sup>th</sup> – 29 <sup>th</sup> December, 2021

The proposal of M/s NCL Industries Limited is for grant of Terms of Reference for Gundlapalli mine for expansion of Limestone production from 1.0 MTPA to 3.0 MTPA, Topsoil – Nil, OB/Waste – Nil in the mine lease area of 130.37ha located at Gundlapalli village, Matampally Mandal, Suryapet District, Telangana. The mine

lease area is located between Latitude 16°42'10.6"N to 16°43'24.8"N and Longitude 79°50'59.5"E to 79°52'14.6"E. The mine lease area falls under the Survey of India Toposheet No: 56P/13 & 56P/14. The PP presented the KML file during the presentation to indicate the location of mine lease on Google Earth.

**2.**M/s NCL Industries Limited has initially made an online application vide proposal no: IA/TG/MIN/217936/2021 dated 03.07.2021 and submitted Form 1 and Prefeasibility report under the provisions of the EIA Notification, 2006. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals under Category "A" of the schedule of the EIA Notification, 2006 as the mining lease area is greater than 100 ha and appraised at Central level. PP also submitted that Interstate boundary of Telangana and Andhra Pradesh is located at a distance of 220m, S from the mine lease area.

**3.**The proposal was earlier considered in the 36<sup>th</sup> EAC (Non-Coal) meeting held during 31<sup>st</sup> August & 1<sup>st</sup> September, 2021. The Committee noted that PP has been operating the mines since 1990 and obtained Integrated EC on 15.12.2009, PP has not submitted the Past production details duly authenticated by DMG. The Committee also noted that the Pre-Feasibility Report submitted by the PP in Parivesh Portal is not as per the Ministry's O.M No. J-11013/41/2006-IA.II(I) dated 30.12.2010. After detailed deliberations made by the Project Proponent and the Consultant, the Committee therefore, deferred the proposal for want of following requisite information. (i) The Project Proponent needs to revise the pre feasibility report as per the Guidelines for preparation of pre feasibility report for obtaining prior environmental clearance in terms of the provisions of the EIA Notification, 2006 published vide MoEF No. J-11013/41/2006-IA.II (I) dated 30.12.2010, (ii). The Project Proponent needs to submit the past production details duly authenticated by Department of Geology and Mining for the period 1990 to till date for all three mines (ML I at Mettapalli, ML II at Sultanpur Thanda and ML III at Gundlapalli) along with Annexure III, (iii). The Project Proponent needs to submit the details of protection measures taken to prevent mine inundation from Krishna River (adjacent to mine boundary on Southern side) during highest flood along with the topography, (iv). The Project Proponent needs to submit the Certified EC compliance report for which EC granted in 15.12.2009 for all three mines (ML I at Mettapalli, ML II at Sultanpur Thanda and ML III at Gundlapalli), (v). The Project Proponent needs to submit the details of plantation in terms of numbers and area covered for all three mines (ML I at Mettapalli, ML II at Sultanpur Thanda and ML III at Gundlapalli), (vi). The Project Proponent needs to submit the copy of extension order vide G.O. M.S. 64 dated 24.08.2017 and supplementary lease deed along with proceedings vide No 1335/M2/2009 dated 20.02.2018 and (vii). The Project Proponent needs to submit the Affidavit as per Ministry's O.M No 3- 50/2017 -IA.II (M) dated 30.05.2018.



4. The Project Proponent Letter No: NCL/Admin/EC GPL/2021-22 dated 13.12.2021 submitted the information on PARIVESH Portal. The proposal was reconsidered in the EAC in its meeting held on 28<sup>th</sup>-29<sup>th</sup> December, 2021 wherein PP submitted the following:

**Point (i). The Project Proponent needs to revise the pre feasibility report as per the Guidelines for preparation of pre feasibility report for obtaining prior environmental clearance in terms of the provisions of the EIA Notification, 2006 published vide MoEF No. J-11013/41/2006-IA.II (I) dated 30.12.2010.**

**Reply by PP:** PP submitted the revised pre feasibility report as per the provisions of Ministry's OM vide MoEF No. J-11013/41/2006-IA.II (I) dated 30.12.2010.

**Point (ii). The Project Proponent needs to submit the past production details duly authenticated by Department of Geology and Mining for the period 1990 to till date for all three mines (ML-I at Mettapalli, ML-II at Sultanpur Thanda and ML-III at Gundlapalli) along with Annexure III.**

**Reply by PP:** PP submitted the past production data separately for all three mines (ML-I at Mettapalli, ML-II at Sultanpur Thanda and ML-III at Gundlapalli) duly certified by the Assistant Director of Mines and Geology, Suryapet along with Annexure-III. PP submitted that production data for ML-I (114.5 acres or 46.36 ha) at Mettapalli vide Letter No: 1333/M2/1998, dated 02.12.2021 from the year 1986-87 to 2021-22 (up to 30.11.2021), ML-II (105.32 acres or 42.63 ha) at Sultanpur Thanda vide Letter No: 2876/M2/1998, dated 02.12.2021 from the year 1999-2000 to 2021-22 (up to 30.11.2021) and ML-III (322.06 acres or 130.37 ha) at Gundlapalli vide Letter No: 1335/M2/1998, dated 02.12.2021 from the year 1991-92 to 2021-22 (up to 30.11.2021).

**Point (iii). The Project Proponent needs to submit the details of protection measures taken to prevent mine inundation from Krishna River (adjacent to mine boundary on Southern side) during highest flood along with the topography.**

**Reply by PP:** PP submitted that Krishna River flows in east direction in the southern part of the mine lease area. PP reported that the Highest R.L. is 68m, Lowest RL is 39m and Surface Relief is 29m. PP also reported that in the advent of Pulichintala project on Krishna River, the Full Reservoir Level (FRL) or High Flood Level (HFL) is 53.34 m above MSL which bays into the mine lease area in NW & Southern parts. As a result of this, part of the mining lease area of 35.81 ha cannot be exploited during the rainy season. Before commencing the production and dispatch within HFL area, necessary permission will be obtained from DGMS. PP submitted that presently 2 Mining pits of Pit-1 (2.46 Ha) & Pit-2 (27.9089 Ha) has been developed upto depth of 20 m bgl and safety bunds are provided along Pit – 1 & Pit – 2 to protect the mine pits from inundation. PP also submitted that a Nala is passing on the southern side of Pit – 1 with R.L.s of 43.35 m to 45.80 m. Also, two safety bunds are provided

along Eastern and South western side of Pit – 1. The R.L.s of bund in Eastern side is 48.46 m to 52.81 m and R.L. of SW side bund is 51.93 m. As the R.L. of bund is higher than Nala R.L.s, the pit is safe from inundation. PP reported that Full Reservoir Level (FRL) of Pulichintala project is touching the proposed working limit in Eastern side of Pit – 2 and a Safety bund is provided with R.L.'s 57.514 to 57.302 to protect from F.R.L. of Pulichintala project which is 53.34 m. PP also submitted the Map showing the working pit limit and HFL of Pulichintala Project and also Photographs showing safety bund to prevent mine inundation from Krishna River.

**Point (iv). The Project Proponent needs to submit the Certified EC compliance report for which EC granted in 15.12.2009 for all three mines (ML I at Mettapalli, ML II at Sultanpur Thanda and ML III at Gundlapalli).**

**Reply by PP:** PP submitted the EC compliance report certified by Integrated Regional Office (IRO), Hyderabad vide Letter No: ENV/IRO-HYD/CCR-05/A/2021/33 dated 03.07.2021. Site visit was carried out by IRO on 28.05.2021. IRO noted that PP should improve the implementation of green belt around the mine lease area, PP shall carry out the flora and fauna study by recognized institute, PP shall provide ETP if workshop established for washing of vehicles inside the mine lease area and PP shall take necessary steps to improve the conditions of approach road to mine lease area.

**Point (v). The Project Proponent needs to submit the details of plantation in terms of numbers and area covered for all three mines (ML I at Mettapalli, ML II at Sultanpur Thanda and ML III at Gundlapalli).**

**Reply by PP:** PP reported that the total of 9,237 no. of plants have been planted in all three mines [ML I (4,715 no. of plants), ML II (1,556 no. of plants) and ML III (2,966 no. of plants)] covering an area of 7.8 ha. PP also reported that species such as *Albizia lebbbeck (L.) Benth.*, *Samanea saman (Jacq.) Merr.*, *Peltophorum pterocarpum DC*, *Tectona grandis L.f.*, *Ailanthus excelsa Roxb.*, *Conocarpus erectus L*, *Derris indica (Lam.) Bennett*, *Ficus benjamina L*, *Ficus religiosa Linn.*, *Delonix regia (Hook.) Raf.*, *Azadirachta indica A.Juss.*, *Bauhinia racemosa Lam.*, and *Caesalpinia pulcherrima L Swartz* have been planted.

**Point (vi). The Project Proponent needs to submit the copy of extension order vide G.O. M.S. 64 dated 24.08.2017 and supplementary lease deed along with proceedings vide No 1335/M2/2009 dated 20.02.2018.**

**Reply by PP:** PP submitted the copy of order for extension of lease period issued by the Industries and Commerce (M.II) Department, Government of Telangana vide G.O. M.S. 64 dated 24.08.2017 for the period of 50 years from the date of original grant of mining lease i.e., from 22.10.1990 to 21.10.2040 in respect of the mining lease held by M/s NCL Industries Limited for Limestone over an extent of Acres 322.06 Gts. PP also submitted the copy of the Proceedings issued by Govt. of

Telangana vide Proceedings No. 1335/M2/2009 dated 20.02.2018 for the period of 50 years from the date of original grant of mining lease i.e., from 22.10.1990 to 21.10.2040 in respect of the mining lease held by M/s NCL Industries Limited for Limestone over an extent of Acres 322.06 Gts. Further, PP submitted the copy of the Supplementary lease deed for extension of lease period was executed on 20.02.2018 between the Government of Telangana and M/s NCL Industries Limited for the period of 50 years (22.10.1990 to 21.10.2040).

**Point (vii). The Project Proponent needs to submit the Affidavit as per Ministry's O.M No 3- 50/2017 -IA.II (M) dated 30.05.2018.**

**Reply by PP:** PP submitted the Affidavit as per Ministry's OM dated 30.05.2018 in a Non-Judicial stamp paper of Rs 100 bearing AL 773040 dated 13.12.2021 that the project/activity pertaining to the mining lease has not been in violation of the order dated 2<sup>nd</sup> August 2017 of the Hon'ble Supreme Court in matter of writ Petition (Civil) No. 114 of 2014, Common Cause vs UOI.

#### **5. Observation and Recommendation of the Committee:**

The proposal for Terms of Reference (Expansion) was considered in the 44<sup>th</sup> EAC (Non-Coal Mining) meeting held during 28<sup>th</sup> – 29<sup>th</sup> December, 2021. After detailed deliberations made by the Project Proponent and the Consultant, the Committee noted that as per the past production details submitted by the PP, it was observed that the PP has been carrying out the mining operation since 1986-87 prior to EIA Notification, 1994 and after EIA notification, 1994, also exceeded the production beyond the base year of 1993-94 and operated the mine till 15<sup>th</sup> December, 2009 without prior EC. PP obtained the integrated EC on 15<sup>th</sup> December, 2009, thereafter ML-I (Mettapalli) and ML-III (Gundlapalli) production limit is within the EC capacity of 1.5MTPA and 1.0MTPA respectively. ML-II (Sultanpur Thanda) is exceeded the production capacity beyond the EC capacity of 0.05MTPA and the EAC (Non-Coal Mining) already prescribed ToR for ML-II at Sultanpur Thanda under the violation category of the EIA Notification 2006 in the 29<sup>th</sup> EAC meeting held during 15<sup>th</sup> - 17<sup>th</sup> March, 2021. Further, the production details indicated that in ML-I (Mettapalli) during 1993-94 no mining was carried out and the base year of expansion becomes 1992-93 i.e., preceding year in ML-I (Mettapalli) and PP produced 15,000 MT during 1992-93 and exceeded the base year production of 15,000 MT in 1998-99 (1,90,000 MT). Also, PP in ML-II (Sultanpur Thanda) has not carried out the mining operation during 1993-94 and the base year of expansion becomes 1999-2000 and PP produced 200 MT during 1999-2000 and exceeded the base year production of 200 MT in 2008-09 (1,000 MT). PP in ML-III (Gundlapalli), produced 2,58,049 MT during 1993-94 and exceeded the base year production of 2,58,049 MT in 1996-97 (3,04,200 MT). Thus, the Committee was of the view that the instant case attracts the Hon'ble Supreme Court Judgment dated 02.08.2017 W.P.C 114 of 2014 in the matter of Common cause Vs Union India and Ors and the Ministry may take action accordingly. The Committee also deliberated

on the earlier EC compliance report certified by the IRO, Hyderabad, MoEF&CC vide Letter No: ENV/IRO-HYD/CCR-05/A/2021/33 dated 03.07.2021 given wherein the committee noted the some non-compliance of the earlier EC dated 15.12.2009 were observed by IRO; that PP should improve the implementation of green belt around the mine lease area, PP shall carry out the flora and fauna study by recognized institute, PP shall provide ETP if workshop established for washing of vehicles inside the mine lease area and PP shall take necessary steps to improve the conditions of approach road to mine lease area. Thus, the Committee advised the PP to submit the satisfactory compliance of EC conditions of the earlier Environmental Clearance dated 15.12.2009. Therefore, the Committee deferred the proposal for want of following additional information: -

- i. The Project Proponent shall submit the satisfactory final closure report certified by the IRO for non-compliance of the EC conditions in EC letter dated 15.12.2009 for further appraisal of the proposal.
- ii. The Project Proponent needs to submit the detailed measures taken in compliance of the MoEF&CC Office Memorandum No. Z11013/57/2014-IA.II (M), dated 29th October, 2014.
- iii. The Project Proponent needs to justify the reduction in project cost from Rs 25.40 Cr to Rs 10.0 Cr and also reduction in water requirement from 475.0 KLD to 55.0 KLD.
- iv. The Project Proponent needs to submit the revised letter for extension of lease period for 50 years obtained from the State Government by mentioning the mine lease area in Hectare (ha) instead of Acre and Ghats.

**2.6 Proposal for Terms of Reference of M/s NMDC Ltd for expansion of Bailadila Iron Ore Project Deposit - 14 NMZ ML from total excavation of 6.3 MTPA (5.5 MTPA ROM Iron ore + 0.8 MTPA waste excavation) to 10.4 MTPA (8.5 MTPA ROM Iron ore + 1.9 MTPA waste excavation) along with construction of new 3000 TPH Crushing Plant and downhill conveyor within the mine lease area of 506.742 Ha, located at Village Kirandul, South Bastar Dantewada District, Chhattisgarh – [File. No: J-11015/483/2007-IA.II(M), Proposal No: IA/CG/MIN/244294/2021; Consultant: Nil] - Terms of Reference (Expansion).**

**EAC Meeting Details:**

EAC meeting	44 <sup>th</sup>
Date of Meeting	28 <sup>th</sup> – 29 <sup>th</sup> December, 2021

The proposal of M/s NMDC Ltd is for grant of Terms of Reference for expansion of Bailadila Iron Ore Project Deposit - 14 NMZ ML from total excavation of 6.3 MTPA (5.5 MTPA ROM Iron ore + 0.8 MTPA waste excavation) to 10.4 MTPA

(8.5 MTPA ROM Iron ore + 1.9 MTPA waste excavation) along with construction of new 3000 TPH Crushing Plant and downhill conveyor within the mine lease area of 506.742 Ha, located at Village Kirandul, South Bastar Dantewada District, Chhattisgarh. The mine lease area is located between Latitude 18°36'44.0492"N to 18°38'31.8650"N and Longitude 81°13'54.6335"E to 81°15'24.1185"E. The mine lease area falls under the Survey of India Toposheet No: E44J2 & E44J6 (New) and falls in Seismic Zone-II.

2. M/s NMDC Ltd has made an online application vide IA/CG/MIN/244294/2021 dated 13.12.2021 and submitted Form 1 and PFR under the provisions of the EIA Notification, 2006. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals and falls under Category "A" as the mining lease area is greater than 100ha and appraised at the Central level.

3. The Project Proponent submitted that integrated environmental clearance was granted vide Lr. No. J-11015/483/2007-IA. II(M) dated 11.09.2007 to M/s NMDC Limited for Bailadila Deposit 14/11C project for total lease area 935.522 Ha and production capacity 12.00 MTPA ROM Iron ore (Deposit 14-322.368 Ha & 5.0 MTPA, Deposit 14 NMZ- 506.742 Ha & 5.5 MTPA Deposit 11C-106.412 Ha & 1.5 MTPA). Then, PP obtained amendment in EC on 01.12.2021 for reduction in mine lease area from 935.522 Ha to 829.11 Ha by exclusion of deposit 11/C of 106.412 Ha (production capacity of 1.5 MTPA ROM) and reduced the production from 12.0 MTPA to 10.5 MTPA ROM with total mine lease area of 829.11 Ha for "Bailadila Deposit-14 & 14NMZ".

#### 4. **Observation and Recommendation of the Committee:**

The proposal for Terms of Reference (Expansion) was considered in the 44<sup>th</sup>EAC (Non-Coal Mining) meeting held during 28<sup>th</sup>–29<sup>th</sup>December, 2021. After detailed deliberations made by the Project Proponent and the Consultant, the Committee noted that the PP obtained integrated environmental clearance vide Lr. No. J-11015/483/ 2007-IA.II(M) dated 11.09.2007 for Bailadila Deposit 14/11C project for total lease area 935.522 Ha and production capacity 12.00 MTPA ROM Iron ore (Deposit 14-322.368 Ha & 5.0 MTPA, Deposit 14 NMZ- 506.742 Ha & 5.5 MTPA and Deposit 11C-106.412 Ha & 1.5 MTPA) and then, PP obtained Amendment in EC on 01.12.2021 for reduction in mine lease area from 935.522 Ha to 829.11 Ha by exclusion of deposit 11/C of 106.412 Ha (production capacity of 1.5 MTPA ROM) and reduced the production from 12.0 MTPA to 10.5 MTPA ROM with total mine lease area of 829.11 Ha for "Bailadila Deposit-14 & 14NMZ". The Committee also noted that the now PP applied for expansion of Deposit - 14 NMZ from total excavation of 6.3 MTPA (5.5 MTPA ROM Iron ore + 0.8 MTPA waste excavation) to 10.4 MTPA (8.5 MTPA ROM Iron ore + 1.9 MTPA waste excavation) along with construction of new 3000 TPH Crushing Plant and downhill conveyor within the mine lease area of 506.742 Ha. The Committee was of the view that the instant proposal cannot be considered separately when PP is now having

Amendment in EC for combined production capacity of 10.5 MTPA ROM [Deposit 14-5.0 MTPA&Deposit 14 NMZ- 5.5 MTPA] with total mine lease area of 829.11 Ha [Deposit 14-322.368 Ha & Deposit 14 NMZ- 506.742 Ha] for “Bailadila Deposit-14& 14NMZ”. Therefore, the Committee **returned the proposal in form** and was of the view that the PP shall make separate application by mentioning both “Deposit-14& 14NMZ” and bifurcate the production and other parameters for “Deposit-14& 14NMZ” by drawing the reference of Para 4 and Para 14 in Amendment in EC dated 01.12.2021.

**2.7 Proposal for Terms of Reference of M/s NMDC Ltd. for expansion of Bailadila Iron Ore Project Deposit - 14 ML from total excavation of 6.0 MTPA (5.0 MTPA ROM Iron ore + 1.0 MTPA waste excavation) to 13.8 MTPA (10.0 MTPA ROM Iron ore + 3.8 MTPA waste excavation) along with construction of new 3000 TPH Crushing Plant and downhill conveyor within the mine lease area of 322.368 Ha, located at Village Kirandul, South Bastar Dantewada District, Chhattisgarh – [File. No: J-11015/483/2007-IA.II(M), Proposal No: IA/CG/MIN/244229/2021; Consultant: Nil] - Terms of Reference (Expansion).**

**EAC Meeting Details:**

EAC meeting	44 <sup>th</sup>
Date of Meeting	28 <sup>th</sup> – 29 <sup>th</sup> December, 2021

The proposal of M/s NMDC Ltd is for grant of Terms of Reference for expansion of Bailadila Iron Ore Project Deposit - 14 ML from total excavation of 6.0 MTPA (5.0 MTPA ROM Iron ore + 1.0 MTPA waste excavation) to 13.8 MTPA (10.0 MTPA ROM Iron ore + 3.8 MTPA waste excavation) along with construction of new 3000 TPH Crushing Plant and downhill conveyor within the mine lease area of 322.368 Ha, located at Village Kirandul, South Bastar Dantewada District, Chhattisgarh. The mine lease area is located between Latitude 18°36'11.2022”N to 18°37'34.6006”N and Longitude 81°13'15.9460”E to 81°14'44.6788” E. The mine lease area falls under the Survey of India Toposheet No: E44J2 (New) and falls in Seismic Zone-II.

2. M/s NMDC Ltd has made an online application vide IA/CG/MIN/244229/2021 dated 15.12.2021 and submitted Form 1 and PFR under the provisions of the EIA Notification, 2006. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals and falls under Category “A” as the mining lease area is greater than 100ha and appraised at the Central level.

3. The Project Proponent submitted that integrated environmental clearance was granted vide Lr. No. J-11015/483/2007-IA. II(M) dated 11.09.2007 to M/s NMDC Limited for Bailadila Deposit 14/11C project for total lease area 935.522 Ha and production capacity 12.00 MTPA ROM Iron ore (Deposit 14-322.368 Ha & 5.0

MTPA, Deposit 14 NMZ- 506.742 Ha & 5.5 MTPA Deposit 11C-106.412 Ha & 1.5 MTPA). Then, PP obtained Amendment in EC on 01.12.2021 for reduction in mine lease area from 935.522 Ha to 829.11 Ha by exclusion of deposit 11/C of 106.412 Ha (production capacity of 1.5 MTPA ROM) and reduced the production from 12.0 MTPA to 10.5 MTPA ROM with total mine lease area of 829.11 Ha for “Bailadila Deposit-14 & 14NMZ”.

#### 4. Observation and Recommendation of the Committee:

The proposal for Terms of Reference (Expansion) was considered in the 44<sup>th</sup>EAC (Non-Coal Mining) meeting held during 28<sup>th</sup>– 29<sup>th</sup>December, 2021. After detailed deliberations made by the Project Proponent and the Consultant, the Committee noted that the PP obtained integrated environmental clearance vide Lr. No. J-11015/483/2007-IA. II(M) dated 11.09.2007 for Bailadila Deposit 14/11C project for total lease area 935.522 Ha and production capacity 12.00 MTPA ROM Iron ore (Deposit 14-322.368 Ha & 5.0 MTPA, Deposit 14 NMZ- 506.742 Ha & 5.5 MTPA and Deposit 11C-106.412 Ha & 1.5 MTPA) and then, PP obtained Amendment in EC on 01.12.2021 for reduction in mine lease area from 935.522 Ha to 829.11 Ha by exclusion of deposit 11/C of 106.412 Ha (production capacity of 1.5 MTPA ROM) and reduced the production from 12.0 MTPA to 10.5 MTPA ROM with total mine lease area of 829.11 Ha for “Bailadila Deposit-14 & 14NMZ”. The Committee also noted that the now PP applied for expansion of Deposit - 14 Bailadila Iron Ore from total excavation of 6.0 MTPA (5.0 MTPA ROM Iron ore + 1.0 MTPA waste excavation) to 13.8 MTPA (10.0 MTPA ROM Iron ore + 3.8 MTPA waste excavation) along with construction of new 3000 TPH Crushing Plant and downhill conveyor within the mine lease area of 322.368 Ha. The Committee was of the view that the instant proposal cannot be considered separately when PP is now having Amendment in EC for combined production capacity of 10.5 MTPA ROM [Deposit 14-5.0 MTPA&Deposit 14 NMZ- 5.5 MTPA] with total mine lease area of 829.11 Ha [Deposit 14-322.368 Ha & Deposit 14 NMZ- 506.742 Ha] for “Bailadila Deposit-14& 14NMZ”. Therefore, the Committee **returned the proposal in form** and was of the view that the PP shall make separate application by mentioning both “Deposit-14& 14NMZ” and bifurcate the production and other parameters for “Deposit-14& 14NMZ” by drawing the reference of Para 4 and Para 14 in Amendment in EC dated 01.12.2021.

**2.8 Proposal for Environmental Clearance of Granite Building Stone Quarry of M/sMorayoor Granites Private Limited, for an extent of 4.9797 Ha located at ReSurvey No.152/1-1, 152/1, 159/1-1, 159/1-2, 159/1-3, 160/1-1, 160/1-2, 160/1- 3, 160/1-4, Re Survey Block No. 56 of Morayur Village, KondottyTaluk,Malappuram District, Kerala – [File No: IA-J-11015/82/2021-IA-II(NCM), Proposal No: IA/KL/MIN/232178/2021] – Environmental Clearance**

**EAC Meeting Details:**

EAC meeting	44 <sup>th</sup>
Date of Meeting	28 <sup>th</sup> December – 29 <sup>th</sup> December, 2021

The proposal of M/s Morayoor Granites Private Limitedis for grant of Environmental Clearance for Granite Building Stone Quarry for an extent of 4.9797 Ha located at Re Survey No.152/1-1, 152/1, 159/1-1, 159/1-2, 159/1-3, 160/1-1, 160/1-2, 160/1- 3, 160/1-4, Re Survey Block No. 56 of Morayur Village, Kondotty Taluk, Malappuram District, Kerala. The mine lease area is located between Latitude 11°06'25.44"N to 11°06'40.96"N and Longitude 76°0'36.26"E to 76°0'43.68"E. The mine lease area falls in seismic zone III.

2. M/s Morayoor Granites Private Limitedsubmitted an online application vide proposal no: IA/KL/MIN/232178/2021 dated 01.10.2021 and submittedForm 1, PFR, EMP, Approved Mining Plan for the project mentioned above. The category of the project is Category “B”, Project or Activity 1(a) – 4 for Mining of Mineral as per EIA Notification S.O. 1533 (E), dated 14<sup>th</sup> September 2006 and subsequent amendments. The project proponent applied at MoEF&CC as SEIAA, Kerala does not exist at present.

3. Earlier the proposal was considered for Environmental Clearance in the 41<sup>st</sup> EAC held during 15<sup>th</sup>– 16<sup>th</sup>November and 18<sup>th</sup>November, 2021. The extract of the minutes of 41<sup>st</sup> EAC meeting is as follows: ‘After detailed deliberations, the Committee noted that the project proponent has not submitted the authenticated District Survey Report as per Ministry’s Notification S.O 3611(E) dated 25.07.2018. As per 2018 Notification "The District Survey Report shall form the basis for application for environmental clearance, preparation of reports and appraisal of projects". The Committee also noted that the project proponent has mentioned category ‘A’ in form II. Therefore, the Committee deferred the proposal. The project proponent needs to submit the above information on Parivesh Portal.’ The PP submitted the reply on 20.12.2021 stating that the DSR published in 2016 by Mining and Geology Department, Govt of Kerala is the currently valid DSR in the State of Kerala. No changes to DSR 2016 have been made by this department thereafter. In the view of above document, consider the application and grant the Environmental Clearance.

4. The project proponent submitted that the Letter of Intent (LOI) was issued vide letter no. 4072/M3/2019on30.05.2019. The Mining plan was approved vide letter no.DOM/M-4211/2018 dated 21<sup>st</sup>July 2021.The mine lease area of 0.9751 ha is a private land.

**5. Observation and Recommendation of the Committee:**



The proposal for Environmental Clearance was considered in the 44<sup>th</sup> EAC meeting held during 28<sup>th</sup> to 29<sup>th</sup> December, 2021. The Member Secretary informed the Committee that the project proponent during the presentation had requested to delist the proposal telephonically on 29.12.2021. Therefore, the Committee **deferred** the proposal.

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

<b>S.No.</b>	<b>Member Name</b>	<b>Member Address</b>	<b>Designation</b>	<b>28<sup>th</sup> Dec. 2021</b>	<b>29<sup>th</sup> Dec. 2021</b>
1	Dr. S.R. Wate	Add. 148/149, Nagar Vikas Society, Narendra Nagar, Nagpur-440015, Maharashtra	Chairman	Yes	Yes
2	Dr. Ajay Deshpande	Building A-26, Flat-403, Happy Valley Homes, Manpada, Ghodbunder Road, Thane (West) - 400610, Maharashtra	Member	Yes	Yes
3	Shri B Ramesh Kumar	H-No. 6-1-134/6, Balram Compound, Padmarao Nagar, Secundrabad- 500025, Andhra Pradesh	Member	Yes	Yes
4	Prof. S. Ramakrishna Rao	50-120-9/1, Tulasi Mani Regency North Extension, Seethammadhara,	Member	Yes	Yes

		Visakhapatnam - 530013 Andhra Pradesh.			
5	Shri Santosh Gupta	Flat No. 405, Block –B, Gaur Green Vista, NyayKhand -1, Indrapuram, Ghaziabad- 201014	Member	Yes	Yes
6	Dr. (Ms.) Asha Rajvanshi	Wildlife Institute of Inida, Chandrabani, Dehradun- 248001	Member	Yes	Yes
7	Shri G.P. Kundargi	Plot No. 32, MOIL Vatika, Chicholi Road, Fetri, Nagpur 441501, Maharashtra	Member	Yes	Yes
8	Dr. A.K.Malhotra	House no.33, Sector-11 Dwarka, New Delhi-110075	Member	Yes	Yes
9	Dr. Gurdeep Singh	Centre of Mining Environment, Department of Environmental Science &Engg. Indian Institute of Technology (Indian School of Mines), Dhanbad-826004	Member	Yes	Yes
10	Dr. Parimal Chandra Bhattacharjee	A/3 Asiyana Housing Complex Maligaon, Guwahati-781011, Assam	Member	Yes	Yes
11	Prof.MukeshKhare	Department of Civil Engineering, IIT, Delhi	Member	Yes	No
12	Mr. V. K. Soni	Government of India, Ministry of Earth Sciences, India Meteorological Department, MausamBhawan, Lodi Road, New Delhi – 110003	Member	No	No
13	Sh. Pankaj Kulakshethra	Regional Controller of Mines, IBM Block D, Second Floor, Indira Bhavan, Civil Lines, Nagpur – 440001.	Member	No	No
14	Sh. RamawatarMeena	Representative of DGMS	Member	No	No
15	Shri Pankaj Verma	2 <sup>nd</sup> Floor, Prithvi Block, Indira ParyavaranBhawan, MoEF&CC, Jorbagh, New Delhi- 110003	Member Secretary	Yes	Yes