

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

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**SUMMARY RECORD OF 42<sup>nd</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 42<sup>nd</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 30<sup>th</sup> November – 3<sup>rd</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 & 18<sup>th</sup> November, 2021.**

The minutes of 41<sup>st</sup> EAC meeting held during 15<sup>th</sup> – 16<sup>th</sup> November & 18<sup>th</sup> November, 2021 were placed before the members of the Committee. The Member Secretary informed the Committee that the following corrigendum was made in 41<sup>st</sup> EAC (Non-Coal Mining) Meeting held during 15<sup>th</sup> – 16<sup>th</sup> November and 18<sup>th</sup> November, 2021 as given below: -

<b>S. No</b>	<b>As per 41<sup>st</sup> EAC Minutes of meeting held during 15<sup>th</sup> – 16<sup>th</sup> Nov and 18<sup>th</sup> Nov, 2021</b>	<b>Typographical Error</b>	<b>EAC recommended during 30<sup>th</sup> November to 3<sup>rd</sup> December, 2021</b>
1	Agenda 2.3, Pg. No: 48, Point No: 8, Line No: 2	PP also reported that there are National Parks, Wildlife Sanctuaries, Biosphere Reserves, Tiger Reserves, and Wildlife Corridors etc. within 10 km radius of the mining lease area.	PP also reported that there are no National Parks, Wildlife Sanctuaries, Biosphere Reserves, Tiger Reserves, and Wildlife Corridors etc. within 10 km radius of the mining lease area.

<b>S. No.</b>	<b>As per 41<sup>st</sup> EAC meeting minutes dated 15<sup>th</sup> – 16<sup>th</sup> November and 18<sup>th</sup> November, 2021</b>	<b>Request of the project proponent</b>	<b>EAC recommended during 30<sup>th</sup> November to 3<sup>rd</sup> December, 2021</b>
2	Agenda 1.3, Page no. 18, Para 16		

<p>Further, Ministry's IA-Monitoring Division had issued a show cause notice on 20.09.2021. The relevant extract is as follows "In view of the foregoing, the project proponent is hereby directed to submit the (i) Clarification for non-compliance observed by the EAC (NCM) and IRO site visit inspection report w.r.t. Std Condition no. 14 of EC dated 05.01.207 and (ii) Action Taken Report (ATR) along with the Action Plan with respect to the other non-compliance of other EC conditions within 30 days of the receipt of this letter. It may please be noted that, if no satisfactory reply is received within the prescribed time frame, the Ministry will be constrained to take necessary action as deemed fit and appropriate in the circumstances of the case which <i>inter-alia</i> may include issuance of Show Cause Notice under the provision of section (5) of the Environment (Protection) Act, 1986."</p> <p>After detailed deliberations made by the Project Proponent and the Consultant, the</p>	<p>Project proponent requested the Ministry vide letter dated 01.12.2021 stating that there is no as such Show-Cause Notice issued in the name of UTCL till date as the company has submitted the reply in compliance of the letter dated 20.09.2021 well within the time frame. Hence, kindly consider the request to issue amended EC.</p>	<p>Further, Ministry's IA-Monitoring Division had issued a letter on 20.09.2021. The relevant extract is as follows "In view of the foregoing, the project proponent is hereby directed to submit the (i) Clarification for non-compliance observed by the EAC (NCM) and IRO site visit inspection report w.r.t. Std Condition no. 14 of EC dated 05.01.207 and (ii) Action Taken Report (ATR) along with the Action Plan with respect to the other non-compliance of other EC conditions within 30 days of the receipt of this letter. It may please be noted that, if no satisfactory reply is received within the prescribed time frame, the Ministry will be constrained to take necessary action as deemed fit and appropriate in the circumstances of the case which <i>inter-alia</i> may include issuance of Show Cause Notice under the provision of section (5) of the Environment (Protection) Act, 1986."</p> <p>After detailed deliberations made by the Project Proponent and the Consultant, the</p>
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<p>Committee <b>recommended</b> the proposal for amendment of specific condition no. 6 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 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</li> </ol>		<p>Committee <b>recommended</b> the proposal for amendment of specific condition no. 6 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 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</li> </ol>
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<p>transporting the material through convoy so that safety measures can be properly taken up.</p> <p>4) The project proponent shall adhere to the safety measures proposed for reducing the accidents.</p> <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 will be as per IRC guidelines with respect to complying with traffic congestion and density and to be completed by June 2025'</i>. All other terms and conditions mentioned in the EC letter dated 05.01.2017 shall remain unchanged. The amendment recommended during 41<sup>st</sup> EAC meeting held during 15<sup>th</sup> – 16<sup>th</sup> November and 18<sup>th</sup> November, 2021 is applicable only after the revoke of Show Cause Notice issued by the IA-Monitoring Division, MoEF&amp;CC.</p>		<p>transporting the material through convoy so that safety measures can be properly taken up.</p> <p>4) The project proponent shall adhere to the safety measures proposed for reducing the accidents.</p> <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 will be as per IRC guidelines with respect to complying with traffic congestion and density and to be completed by June 2025'</i>. All other terms and conditions mentioned in the EC letter dated 05.01.2017 shall remain unchanged.</p>
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**Day 1: 30<sup>th</sup> November, 2021 (Tuesday)**

**1.1 Khatkurbahal (North Block) Limestone mine of M/s Shiva Cement Ltd with production of Limestone: 1.6 MTPA (ROM), Mineral Reject: 0.035 million TPA, Topsoil: 0.033 MTPA & Waste: 3.875 MTPA (Total excavation - 5.543 MTPA) and installation of crusher & screen with capacity of 800 TPH in the mine lease area of 156.43 ha, located at Villages Khatkurbahal & Phalsakani, Tehsil Kutra, District Sundargarh, Odisha – [File. No: J-11015/47/2020-IA-II(M), Proposal No: IA/OR/MIN/176862/2020, Consultant: M/s J.M. EnviroNet Pvt. Ltd - Environmental Clearance (EC)].**

**EAC Meeting Details:**

EAC meeting	42 <sup>nd</sup>
Date of Meeting	30 <sup>th</sup> November – 3 <sup>rd</sup> December, 2021

The proposal for grant of Environmental Clearance of M/s. Shiva Cement Ltd for Proposed Limestone mine (Khatkurbahal (North Block) with production capacity of Limestone: 1.6 MTPA, Mineral Reject: 0.035 million TPA, Topsoil: 0.033 MTPA & Waste: 3.875 MTPA (Total excavation - 5.543 MTPA) and installation of crusher & screen with capacity of 800 TPH in the mine lease area of 156.43 ha, located at Villages Khatkurbahal & Phalsakani, Tehsil Kutra, District Sundargarh, Odisha. The mine lease area is located between Latitude 22°16'45.31025" N to 22°17'10.12835" N and Longitude 84°27'36.13496" E to 84°29'18.22107" E. The mine lease area falls under the Survey of India Toposheet No: F45G7, F45G8, F45G11 & F45G12 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 IA/OR/MIN/176862/2020 dated 13.11.2021 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 and 2(b) Mineral Beneficiation 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 Terms of References (TOR) are furnished as below:

Date of application	Proposal No	Consideration	Details	Date of accord
30.09.2020	IA/OR/MIN/176862/2020	27 <sup>th</sup> - 28 <sup>th</sup> Oct, 2020	1.6 MTPA (ROM) Limestone, Mineral Reject 0.035 MTPA, Topsoil 0.033 MTPA & Waste 3.875 MTPA (Total excavation - 5.543MTPA) and	19.11.2020

			installation of crusher & screen of 800 TPH in the mine lease area of 156.43 ha	
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**4. Details of Mine lease:**

S.no	Lease particulars	Date of the grant	Name of the Mineral	Period of Grant	Granted by	Mine lease area in Ha
1	Letter of Intent (LOI) vide Lr no.9010/S&M, Bhubaneswar granted by the Department of Steel & Mines, Government of Odisha through the auction for a period of 50 years	18.11.2019	Limestone	3 years from the date of its issuance	Government of Odisha	156.43
2	Corrigendum issued vide Lr No 1647/S&M, Bhubaneswar that LOI issued vide No. 9010/SM dtd 18.11.2019 may be corrected and read as area of Ha.156.43 computed from land schedule and as Ha.156.012 computed through DGPS Survey	14.02.2020	Limestone	-	Government of Odisha	-

**5. Mining plan details:**

Mining Plan including Progressive Mine Closure Plan approved by Indian Bureau of Mines	Letter No.	MP/A/02-ORI/BHU/2020-21
	Date	03.06.2020
	Validity	5 years from the date of lease execution

	Mine lease area	156.43 ha
	Mineral	Limestone
	Approved Capacity	1.6 Million Tonne
Additional information (if any)	PP submitted that the Dolomite excavated during mining of Limestone to be stacked separately on non-mineralized area within the lease area and will not utilized for any other purpose.	
<b>Mining Parameters</b>	<b>Quantitative Description</b>	
Method of mining	Opencast Fully Mechanized	
Total Geological Resources	49.91 Million Tonnes	
Mineable reserves	23.61 Million Tonnes	
Life of the Mine	~17 years	
Bench Height	6 m (10 mine benches)	
Bench Width	9 m	
Individual bench slope	80 °	
Overall pit slope	45 °	
Drilling/Blasting	<p>Drilling: The drilling of blast holes will be done by rig mounted hydraulic rock drills. The drill diameter will be 115 mm and the machines will be operated by compressed air. The average rate of drilling will be about 12m/hr.</p> <p>Blasting: Overburden as well as ore zone (consisting of limestone, and rejects) will be loosened by way of primary blasting with hole depth of 6.6 m, burden 2.5 m &amp; powder factor of 6t/kg for ease in excavation by the excavators and oversized boulders will be broken by the deployment of rock breakers instead of secondary blasting.</p>	
RoM output size	-50 mm	
Transportation details	The transport of Limestone will be done by 25 Ton capacity dumpers from mine faces to crusher (average distance b/w quarry & crushing unit is 1.5 km) and after crushing the limestone will be dispatched to the Cement plant initially by road (19.2 km) and later by OLBC (8.7 km). Installation of OLBC will take approximately two and a half years. A maximum of 0.8 MTPA material will be transported in first 3 years through road with total trips 214 (to & fro) & with 42 increase in PCU/hour.	
Dumper's capacity	25 T	
Topsoil generation and management	Total of 0.06084 million cum (0.033 MT) of top soil will be generated during plan period. The topsoil will be stacked initially and used subsequently in the safety zone and back-filling area. An area of 5,000 m <sup>2</sup> has been earmarked to accommodate 15,000 m <sup>3</sup> at a time at 3m average height. Total of 0.296886 million cum (0.534 MT) of top soil will be generated during	

	conceptual stage. Topsoil will be used in plantation/greenbelt development to stabilize the backfilled area.
Waste generation and management	During plan period a total of 10.606 MT (Clay: 0.405 MT, OB/SB: 3.566 MT, Dolomite: 6.635 MT) of waste will be generated which will be initially dumped in a non-mineralized area/barren area. During conceptual stage a total of 57.924 MT (Clay: 6.885 MT, OB/SB: 10.928 MT, Dolomite: 40.111 MT) of waste will be generated which will be initially dumped in a non-mineralized area/barren area, out of which 17.183 Million Tonne of waste will be backfilled in 14.845 ha and remaining quantity in the form of dump.
Habitation	The area under habitation is 5.354 ha having 48 houses which will not be disturbed.
Nallah	One nallah is passing in the NW direction in lease area. It flows from NW to NE and merge into Sankh River. 50 m safety barrier zone will be left along nala course.
Old Pit	There are 2 old pits existing within the mine lease area.
Village Road	<ol style="list-style-type: none"> <li>i. There are 4 roads passing through the lease area. (Two tar roads &amp; two kaccha roads)</li> <li>ii. <b>Tar Roads:</b> Both are passing through the central part of the lease area (one is connecting Village Elga to Village Kulenbahal and other one is connecting Village Khatkurbahal to village Patratoli)</li> <li>iii. <b>Kaccha Roads:</b> One is located in Eastern part of the lease area which is connecting village Khatkurbahal to village Patratoli &amp; the other kaccha road is located in the central part of the lease area connecting both tar roads to each other.</li> <li>iv. 50 m wide corridor on either side of the roads will be left as a safety zone.</li> </ol>
Water table	Pre-monsoon: 238-235 m AMSL (12-15 m bgl); Post-monsoon: 240-238 m AMSL (10-12 m bgl)
Ultimate Working Depth	190 m AMSL (60 m bgl)
Ground water intersection	Yes

## 6. Land Area Breakup:

Private land	113.969 ha
Government land	42.461 ha (Including)
Grazing land(Govt Land)	5.979 ha
Total Mining lease area (MLA)	156.43 ha



Private land for crusher, workshop & other infrastructure outside the MLA	No infrastructure is proposed outside the ML area
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#### 7. Nearest village / town/ highway/railway station / water bodies

Particulars	Particular's Name	Distance & Direction
Nearest village	Khatkurbahal Phalsakani	Habitation falls within the lease area ~300 m, SE
Nearest Town / City	Rajgangpur	~12.5 km, SW
Nearest State/National Highway	SH-10	~5.5 km, SSW
Nearest Railway Station	Sonakhan Railway station	~12.9 km, SE
Nearest water bodies	Tambo Nala	~3.0 km, NE
	Seasonal Nala	Passing through the lease area
	Sankh River	~5.0 km, ENE

#### 8. Water requirement

Total water requirement	82.0 KLD		Drinking, Canteen, washing etc.	15.0 KLD
	Fresh water	72.5 KLD	Water sprinkling for dust suppression, wet drilling etc	59.0 KLD
	Treated water	9.5 KLD	Plantation	4.0 KLD
Workshop			4.0 KLD	
Source	Ground water and sump of existing mine and later from this mine sump as and when developed			
Permission	Application for ground water abstraction submitted vide application number 21-4/2599/OR/MIN/2020 dated: 26.10.2020 and same is under process. Application has been forwarded from CGWB to CGWA on 28.09.2021.			

9. The Project Proponent reported that there is no forest land involved in the lease area. In support of this, PP submitted the letter obtained from DFO, Sundargarh vide letter Memo No. 4824/4F (Misc)/2021 dated 29.09.2021. PP reported that the nearest Reserve Forest from the mine site are Banglapahari RF (2.0 km, NNW), Kadopani PF (9.5 km, NNW), Brahmani RF-7.5 km, NNW), Lampti RF (3.5 km NNW), Bhursulia RF (7.5 km, WNW), Jhandapaharh RF (5.5 km, ENE), RF (7.0 km, WSW), Kalijapathar RF (6.0 km WSW), PF (4.5 km, West), RF (3.5 km, WSW), Dahijira RF (3.5 km, SSW), Khatang RF (6.0 km, SSE), Gurhiali RF (9.0 km, SSE), Khatang RF (4.5 km SSE), Luhuraberni RF (9.0 km, SSE) and Jurajam PF (9.0 km, South) are found within 10 km radius of the mine lease. Further, PP submitted that there are no Wild Life Sanctuaries, National Parks, Elephant/Tiger Reserves (existing as well as proposed) within 10 km of the mine lease area. PP submitted the Letter regarding the same along with the authenticated location map obtained from DFO, Sundargarh vide letter dated 29.09.2021 and from the Office of

the PCCF(Wild Life) & Chief Wildlife Warden vide Memo no. 10767/CWLW-FDWC-MISC-0034-2021 dated 05.11.2021.

10. The Project Proponent reported that there are no Schedule-I species identified in the 10 km radius of the study area and PP submitted the Authenticated list of Flora and Fauna obtained from DFO, Sundargarh vide letter Memo No. 4824/4F (Misc)/2021 dated 29.09.2021.

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

Proposed area for green belt/plantation	58.493 ha
Budget for green plant & plantation till the end of life of mine.	Rs. 3.28 Crore (Capital) Rs. 15 Lakh/annum (Recurring)
Budget for nursery	No Provision for Nursery
Saplings proposed	Karanja ( <i>Pongamia glabra</i> ), Mango ( <i>Mangifera indica</i> ), Sisu ( <i>Dalbergia Latifolia</i> ), Kadamba ( <i>Neolamarckia cadamba</i> ), Simaria ( <i>Bursera simaruba</i> ), etc.
<b>Particulars for Green belt/plantation</b>	<b>Area covered (in Ha)</b>
7.5 m barrier & non-mineralized zone	3.41 ha (7.5 m safety Barrier Zone)
50 m safety zone of nallah, roads, electric lines	30.988 ha
500 m safety zones of nearest habitation villages	
Additional information (if any)	14.845 ha (backfilled area) & 9.25 ha (Worked out benches)

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

Baseline Data (Air / Water / Noise / Soil / Ground water table/ others)					
Period of baseline data collection			October to December, 2020		
Season (Summer / Pre-monsoon / Post-monsoon / Winter)			Post Monsoon season		
Period	Results of Baseline monitoring				
AAQ parameters at 11 locations	Pollutant	Min, $\mu\text{g}/\text{m}^3$	Max, $\mu\text{g}/\text{m}^3$	98 %l e , $\mu\text{g}/\text{m}^3$	Standard, $\mu\text{g}/\text{m}^3$
	PM2.5	20.4	58.7	57.9	60
	PM10	42.3	94.8	93.7	100
	SO2	5.0	12.7	12.5	80
	NOx	11.9	27.6	27.3	80
AAQ modelling (Incremental)	Pollutant	Baseline Concentration,	Incremental Concentration,	Total GLC,	Standard

GLC)		$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	
	PM2.5	42.5	1.4	43.9	60
	PM10	72.1	3.4	75.5	100
	SO2	9.0	1.8	10.8	80
	NOx	16.6	0.4	17.0	80
Noise level at 11 locations	Day Time: 48.9 to 66.2 Leq dB (A) Night Time: 40.9 to 59.5 Leq dB (A)				
Surface water quality at 7 locations	pH varied from 6.94 to 7.55 indicating slightly alkaline. The colour and turbidity within the permissible range and odour was found agreeable at all the locations. Total hardness (40 to 225 mg/l), Total dissolved solids (66 to 314 mg/l), Alkalinity (44.78 to 179.1 mg/l) and conductivity (105 to 552 mg/l) were found to be within the limits. BOD varied from 1.8 to 3.6 mg/l & COD varied from 7.6 to 16.8 mg/l indicating that water is clear.				
Ground water quality at 8 locations	pH varied from 6.88 to 7.58. Total hardness varied from 62 mg/l to 295 mg/l. TDS varied from 97 mg/l to 384 mg/l. The water samples contain, chloride varied from 7.39 to 87.4 mg/l, SO4 varies from BDL (DL 1.0 mg/l) to 32.4 mg/l, Ca from 10.02 to 78.16 mg/l, Mg varies from 7.29 to 19.44 mg/l. The ground water /drinking water samples were collected from 8 locations, found to be potable.				
Soil quality at 8 locations	Soil samples exhibits brown and blackish which indicates good fertility and presence of organic matter in the soil samples. The texture of the soil sample found to be loam, sandy loam and sandy clay loam. pH ranged from 4.55 to 7.12 which is slightly alkaline. All the essential nutrients were observed to be present in a higher amount than the other micro nutrient and macro nutrient.				
Traffic study	About 5333 TPD (Peak) of Limestone will be transported to the cement plant (after crushing) located at a distance of ~19.2 km by road through 25 tonne capacity tippers. Increase in PCU's per hour at normative will be 42 and at peak will be 81.				

### 13. Public Hearing (PH) Details

Advertisement for PH with date	14.07.2021 (Times of India and Dharitri)
Date of PH	24.08.2021
Venue	Behind Jagannath Temple, Khatkurbahal Village under Kutra Block of District Sundergarh, Odisha
Chaired by	1. Shri Biswajit Mohapatra Additional District Magistrate, Sundargarh 2. Shri Dr. P.K. Mohapatra, Regional Officer, Rourkela, State Pollution Control Board, Odisha
Main issues raised during PH	Major issues were related to road construction, school bus, education facility, school construction, drinking water, health care facility, R&R etc

Budget proposed for addressing issues raised during PH	PP allocated combined budget for both mine (Existing 72.439 ha & Proposed 156.43 ha) i.e., Rs. 7.77 Crore budget. In which Rs 2.3 Crore is allocated for Existing mine and Rs 5.47 Crore is for Proposed Mine.  Rs 5.47 Crore- Capital Rs 0.2 Crore – Recurring
Additional information (if any)	PP submitted that in addition to this, Company has a proposal of Construction of Skill Development Centre and a 20-bed hospital near its cement plant (Telighan) with the amount of Rs. 1.5 Crore and Rs. 3.0 Crore respectively. This amount will be spent in issues raised during public hearing of cement plant.

**14.** The Project Proponent submitted that proposed mine area is 156.43 ha, out of which 113.969 ha is Private Land & 42.461 ha is Government land. Out of total 42.461 ha Government Land, 5.979 ha is Grazing Land. As per the Khasra details there are 201 PAFs involved in the lease area in which 48 PAFs having structures/houses within lease area which will not be displaced due to the mining activity. Since the part of project site falls in a scheduled area, the land will be acquired by the state government and then the same will be leased out to M/s Shiva Cement Limited as per the provisions of Odisha Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Rules, 2016. Letter for acquisition of entire land of 156.43 ha has been obtained vide letter no. 8985/SM, Bhubaneshwar, the SM-MC2-MMCA-0017-2020 Dated: 19.10.2020. PP also submitted that although land will be acquired through State Government, company has also allocated budget of Rs. 104.418 Crore towards R & R.

**15. Court case details**

Court Case	There is no any Court Cases pending against the project and/or land in which the project is proposed to be set up
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**16. Affidavit/Undertaking details**

Affidavit in a Non-Judicial Stamp paper of Rs 100 bearing L 557488 dated 09.09.2020	The Company will comply with all the statutory requirement & judgment of Hon'ble Supreme Court dated 2nd August 2017 in writ Petition (civil) No. 114 of 2014 in the matter of common cause versus Union of India & Ors.
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-11015/47/2020-IA.II (M) dated 19.11.2020 have been complied with, and the data submitted and information presented in this report are factually correct.
Consultant submitted an Undertaking dated 11.11.2021	The conditions laid down in Terms of Reference prescribed by MoEF&CC, New Delhi vide letter no. J-11015/47/2020-IA.II (M) dated 19.11.2020 have been complied as per data/details provided by Project Proponent & as per Mining Plan approved by IBM, Bhubaneswar and the data submitted are factually correct.
Plagiarism Certificate checked on 13.11.2021	The Head of the Accredited Consultant Organization/ Authorized person certified that this EIA Report has been evaluated by using online in-house software viz. small tools <a href="https://smalltools.com/plagiarism-checker/">https://smalltools.com/plagiarism-checker/</a> . 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.

#### 17. Details of the EMP

S. No	Particulars	Capital Cost (Rs. In Lacs)	Recurring Cost/Annum (Rs. In Lacs)
<b>A.</b>	<b>Air Quality Monitoring and Management</b>		
<b>i.</b>	<b>Mitigative Measures</b>		
1	Permanent water sprinkling arrangements for main haulage road	10	5
2	2 water tankers for water sprinkling in other roads and mining areas	30	6
3	Motor Grader & Soil Compactor for haul road maintenance	45	5
4	Bag filter installation at Crusher	65	10
5	Water Sprinkler system at crusher hopper and transfer point	5	2
6	Plantation along nallah, village road and around the habitation, near office, backfilled area with total 99160 no. of saplings from 1st year onwards till the life of mine.	281	10
7	Green belt around 7.5 m periphery covering an area of 3.41 ha (No. of saplings: 6138)	47	5
<b>ii</b>	<b>Monitoring</b>		
1	1 No of CAAQMS in downwind direction- within mine site and display board at Mines Main Gate	3	3.5

2	Ambient Air Quality monitoring - monthly at 8 locations- within core & buffer zone	50	10
3	Fugitive dust emission monitoring (3 locations monthly) Near Mine office, Near working pit, Near Crusher hopper		1
4	Personal Dust Monitoring	2	0.5
<b>Sub Total A.</b>		<b>538</b>	<b>58</b>
<b>B. Water Quality Monitoring and Management</b>			
<b>i. Mitigative Measures</b>			
1	Garland Drain around waste dump (L*W*D = 420 m x 1 m x 1 m)	5	0.25
2	Retaining Wall around waste dump (L*W*H = 210 m x 1 m x 1.5 m)	6	0.25
3	Channelized Catch Drains	8	0.5
4	3 nos. of Settling Tank / Sedimentation Pond (Length*Width*Depth =20 m x 5 m x 3 m)	10	0.5
5	Construction of Protective Bunds along the water reservoir	3	0.25
6	Construction of 3 nos. of Check Dams in and around the area of mine boundary and its annual maintenance	25	1.5
<b>ii Monitoring</b>			
1	Installation of 1 Piezometer along the lease periphery in the Premises	1.5	0.5
2	flow measurement and Surface Water & Ground water quality analysis (4 locations * 4 times in a year)	-	0.8
3	Raw water analysis (PZ wells) (4 locations * 2 times in a year)	-	0.2
4	Workshop Waste Water Quality Analysis (monthly) as well as maintenance of oil-water separators	-	0.25
<b>Sub Total B</b>		<b>58.5</b>	<b>5</b>
<b>C. Others</b>			
1	Procurement of the Blast Vibration Measuring Instrument & Noise level meter and yearly calibration	5	1
2	Peak Particle Velocity Monitoring for nearest habitation i.e. Khatkurbahal, Kulenbahal, Phalsakani	8	1.5
3	Noise Monitoring (4 locations * monthly frequency)		1
4	Personal Noise Monitoring		1
5.	Digital mapping of entire mine area once in three years (Rs. 3 Lacs once in 3 years)	-	1
6.	Wildlife conservation activities in consultation with local DFO (digging of water pits, plantation of native species in forest area, awareness programmes for community (Total budget Rds. 50 Lakh for 10 years or Rs 5 lakh per year)	-	5
<b>Sub Total C</b>		<b>13</b>	<b>10.5</b>
<b>Grand Total (A+B+C)</b>		<b>609.5</b>	<b>73.5</b>

<b>D.</b>	<b>Budget for issues raised during Public Hearing</b>		
1.	Public Hearing Action Plan for three years	547	20
<b>Sub Total D</b>		547	20
<b>Grand Total (A+B+C+D)</b>		<b>1156.5 says 1157</b>	<b>93.5 says 94</b>

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

<b>Particulars</b>	<b>Budget (Rs. In Crore)</b>
Capital Cost for Environment Protection	6.10
Budget for addressing the Public Hearing issues	5.47
Total Cost for EMP	11.57
Recurring Cost for EMP	1.0
Project Cost	160
Employment	306 persons

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

The proposal for Environmental Clearance was 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 noted that in the instant proposal while granting Terms of Reference vide F.No J-11015/47/2020-IA-II(M) dated 19.11.2020 it was specifically mentioned in the Specific Terms of Reference Point (i) that “*the transportation of mineral has to be carried out through conveyor belt and the installation of conveyor belt shall be completed before commencing the operations.*” But during the meeting, Consultant/PP informed the Committee that the transportation will be carried out by road till the execution of OLBC. The Committee opined that this attracts to the deviation from already granted ToR dated 19.11.2020 for preparing EIA/EMP for the project, hence the Committee warned the consultant to ensure that such type of non-compliance should not be repeated in future. The Committee was of the view that no road transportation will be allowed and hence PP needs to revise the transportation plan accordingly. Therefore, the Committee **deferred** the proposal for want of following additional information: -

- i. The Project Proponent needs to revise the transportation plan proposing the transportation by Over Land Belt Conveyor (OLBC) instead of road as per Specific Condition no (i) of the ToR dated 19.11.2020. The plan should accommodate with the timeline for commencement of the OLBC. PP should give an undertaking that Environmental Clearance, if granted will be functional only after installing the OLBC.
- ii. The Committee noted that during the meeting, the Project Proponent informed that there are two (2) old pits existing within the mine lease area. Hence, PP

- needs to submit a letter from the Department of Steel and 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 (M/s Shiva Cement Ltd) or not?
- iii. The Committee noted that Village Khatkurbahal falls within the lease area and Phalsakani Village is about ~300 m, SE. Hence, the Project Proponent needs to submit the mathematical modeling for anticipated ground vibration due to blasting. PP needs to provide the details of the nearest village/structure, nearest distance from the blasting zone, quantity of explosives used, kg and PPV, mm/s. The results are to be compared with the limiting values prescribed by Director General of Mine Safety (DGMS).
  - iv. The Project Proponent needs to submit the map demarcating the mineralized and non-mineralized zone in the grazing land of 5.979ha. If grazing land is non-mineralized zone, PP should submit the plan for its protection and accessibility ensuring that no any activity will be carried out in the grazing land and if it's a mineralized zone, PP should showcase the plan for compensatory grazing land 4 times the area under grazing land.
  - v. The Project Proponent needs to clearly bring out the land use/land cover classification of the mine lease area of 156.43 ha along with the ownership of the land.
  - vi. The Project Proponent needs to submit the plan for waste management.
  - vii. The Project Proponent should submit an undertaking that the Dolomite excavated during mining of Limestone will be stacked separately on non-mineralized area within the lease area and shall not be used for any other purpose.
  - viii. The Project Proponent should explore the possibility for shifting to clean energy using electric equipment for cleaner production options to reduce the emission. The Project Proponent should submit the action plan to phase out the old equipment and switch over to electrically operated equipment's for ensuring sustainability of mining operations.
  - ix. The Project Proponent needs to submit the declaration of the consultant for the Hydrogeology study carried out by NABET Accredited Ground Water Consultant Organization (GWCO).
  - x. The Project Proponent needs to submit all the analysis/testing reports of water, air, soil, noise, etc. using the MoEF&CC/NABL accredited laboratories.



**1.2 Proposal for Terms of Reference of M/s Koustuv Mining & Smelting (P) Ltd for Tin ore mine for proposed production of 8.58 MT/year in the mine lease area of 19.0 ha, located at Kamarpalli Village, Malkangiri Tehsil & District, Odisha–[File. No: J-11015/91/2021-IA.II(NCM), Proposal No: IA/OR/MIN/237987/2021, Consultant: M/s Green Circle INC] - Terms of Reference (ToR).**

**EAC Meeting Details:**

EAC meeting	42 <sup>nd</sup>
Date of Meeting	30 <sup>th</sup> November – 3 <sup>rd</sup> December, 2021

The proposal of M/s Koustuv Mining & Smelting (P) Ltd is for grant of Terms of Reference for Tin ore mine for proposed production of 8.58 MT/year in the mine lease area of 19.0 ha, located at Kamarpalli Village, Malkangiri Tehsil & District, Odisha. The mine lease area is located between Latitude 18°39' 23" N to 18° 38' 55" N and Longitude 81°54'29" E to 81°54'55" E. The mine lease area falls under the Survey of India Toposheet No: 65F/14 and falls in Seismic Zone-II.

2. M/s Koustuv Mining & Smelting (P) Ltd has made an online application vide IA/OR/MIN/237987/2021 dated 10.11.2021 and submitted Form 1 and Prefeasibility report under the provisions of the EIA Notification, 2006 for the project mentioned above. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals and the instant proposal attracts the general conditions as the Interstate Boundary of Odisha – Chhattisgarh is located at a distance of 100m from mine lease area and falls under Category “A” of the schedule of the EIA Notification, 2006 and appraised at the Central level.

**3. Details of Mine lease:**

S.no	Lease particulars	Date of the grant	Name of the Mineral	Period of Grant	Granted by	Mine lease area in Ha
1	Terms and condition letter issued vide Lr no 9767/ SM Bhuaneswar	21.11.2004	Tin	20 years	Government of Odisha	26.745
2	Survey and demarcated map approved by O/o Directorate of Mines, Odisha vide letter no 13591/Mines	13.11.2006	Tin	-	Government of Odisha	19.0

#### 4. Mining plan details:

Mining Plan along with the Progressive Mine Closure Plan approved by Indian Bureau of Mines	Letter No.	MPM/MAN/11-ORI/BHU/2008-2009
	Date	24.10.2008
	Mineral	Tin
	Mine lease area	19.0 ha
<b>Mining Parameters</b>	<b>Quantitative Description</b>	
Method of Mining	Opencast manual method	
Bench Height	1m	
Bench Width	1.5m	
Mineable reserve	57.369 MT	
Individual bench slope	70° to 80°	
Overall pit slope	34°	
Drilling/Blasting	No	
Transportation details	Overburden will be carried out to waste dump through 10 tonne tipper and the tin bearing gravel material will also transported to the stack as well as to washing plant by the dumpers for panning to recover tin ore. Loading will be done manually.	
Topsoil	Top soil generation will be 80,020m <sup>3</sup> during the plan period which will be stacked on the north-eastern side of the mine lease area covering an area of 12453 sq.m with an average height of 8m.	
Waste	The volume (swell vol.) of waste materials likely to be generated during the plan period will be dumped on the north-eastern side of the mine lease area covering an area of 9774 sq.m with a height of 24m with 3 no. of terraces	
Depth of mining	3m bgl	
Ground water table	8m bgl	
Ground water intersection	No	

#### 5. Land Area Breakup:

Agricultural land	11.80 ha
Waste land	7.20 ha
Total Mining lease area (MLA)	19.00 ha
Private land for crusher, workshop & other infrastructure outside the MLA	Nil

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

Particulars	Particular's Name	Distance & Direction
Nearest District Head Quarter	Malkangiri	32 km, S
Nearest Railway station	Jagdapur	80 km, NE

Nearest Highway	NH -221	11.18 km, NW
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**7. Water requirement:**

Total water requirement	22.0 KLD	Drinking & Domestic use	16.0 KLD
		Green Belt/Afforestation	4.0 KLD
		Dust Suppression	2.0 KLD
Source	Nearby village source		

8. The Project Proponent submitted that there is no forest land involved in mining lease area. PP also submitted that there is no National Park, Wildlife Sanctuary, Biosphere Reserves, Tiger Reserves and Wildlife Corridors etc. within 10 km radius of the mining lease area.

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

Proposed area for green belt/plantation	2.41ha
Proposal during plan period	0.78 ha with 1,322 no. of saplings

**10. Rehabilitation & Resettlement:**

R & R details	Not Applicable
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**11. Court case details:**

Court Case	PP submitted that there is no any litigation pending against the project and/or land in which the project is proposed to be set up
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**12. Details of project cost and employment:**

Particulars	(Rs. In Crore)
Project Cost	2.0
Employment	84 persons

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

The proposal for Terms of Reference was 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. During the meeting the Committee noted that in Form 1, S.No:7, PP submitted that the proposal does not attract the general conditions whereas in covering letter vide ref: KMSPL/SEI/21-22/311 dated 17.08.2021, PP mentioned that the mining lease area is located at 100m from Interstate Boundary of Odisha – Chhattisgarh and the instant proposal falls under Category A as per EIA Notification, 2006 and its subsequent amendments. The Consultant (M/s Green Circle INC) informed the Committee that

inadvertently it has been submitted that the proposal does not attract the general conditions. The Committee also noted that in Form 1 (S.No:1.6), PFR Pg. No: 1 & 5 and in Approved Mining Plan (Pg.No:28), PP mentioned that the manual method of mining will be adopted and in S.No: 1.9 & 1.12 and during presentation, PP mentioned that opencast semi-mechanized method will be adopted which is contradictory. The Committee noted that there is ambiguity in the submission made by the Consultant. The Committee also noted that earlier Consultant not submitted the accreditation letter to the Ministry and the Committee requested the Ministry to take action against the Consultant (M/s Green Circle INC) for filling the inappropriate application and incomplete Form-I and PFR. The Committee also warned the consultant to ensure that the document submitted online should be complete and correct in all aspects for taking due diligence in the proposal and consultant should not repeat such carelessness in future. Therefore, the Committee was of the view that Ministry should take appropriate action against the consultant and **deferred** the proposal for want of the following additional information: -

- i. The Project Proponent needs to revise the Form-1 and PFR with the factual information and data.
- ii. The Project Proponent needs to submit a detailed note on the method of proposed method of mining. PP should also submit the details of the tool/equipment to be used for mining of Tin ore.
- iii. The Project Proponent needs to clearly bring out the land use/land cover classification of the mine lease area of 19.0 ha along with the ownership of the land.
- iv. The Project Proponent needs to mention the actual distance of the ESZ boundary of Kanger Ghatia National Park from the mine lease boundary.
- v. The Project Proponent needs to provide the details of source for drinking water.
- vi. 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.
- vii. The Project Proponent needs to submit the copy of Terms and Condition letter issued vide Lr no 9767/ SM, Bhubaneswar dated 21.11.2004 in PARIVESH Portal.

- viii. The Project Proponent needs to submit the copy of Survey and demarcated map approved by O/o Directorate of Mines, Odisha vide letter no 13591/mines dated 13.11.2006 over an area of 19.0ha in PARIVESH Portal.
- ix. The Project Proponent needs to submit the copy of lease and lease deed executed documents on PARIVESH Portal.
- x. The Project Proponent needs to submit the Authorization letter in PARIVESH Portal.

**1.3 Proposal for amendment in Environmental Clearance for amalgamation of contiguous mine lease areas comprising of ML – 130 (2486.383ha) and ML – 162 (77.94ha) as total area of 2564.323ha without change in production capacity [8.05 MTPA ROM and Beneficiation Plant Capacity 3.5 MTPA] of M/s SAIL for Barsua-Taldih-Kalta Iron Ore Mining Project located at Tantra & Bahamba Villages and Toda R.F, Tahasil Koira under Bonai Subdivision of Sundargarh District, Odisha – [File. No: J-11015/351/2006-IA.II(M), Proposal No: IA/OR/MIN/236861/2021, Consultant: M/s MECON Limited] - EC under para 7(ii) of EIA Notification 2006.**

**EAC Meeting Details:**

EAC meeting	42 <sup>nd</sup>
Date of Meeting	30 <sup>th</sup> November – 3 <sup>rd</sup> December, 2021

The proposal of M/s SAIL is for amendment in Environmental Clearance for amalgamation of contiguous mine lease areas comprising of ML – 130 (2486.383ha) and ML – 162 (77.94ha) as total area of 2564.323ha without change in production capacity [8.05 MTPA ROM and Beneficiation Plant Capacity 3.5 MTPA] for Barsua-Taldih-Kalta Iron Ore Mining Project located at Tantra & Bahamba Villages and Toda R.F, Tahasil Koira under Bonai Subdivision of Sundargarh District, Odisha. The mine lease area is located between Latitude 21°49'25.43880" N to 21°59'50.88516" N and Longitude 85°07'43.73832" E to 85°13'53.48136" E. The mine lease area falls under the Survey of India Toposheet No: 73G/1 (F45N1) and falls in Seismic Zone-II. The PP presented the KML file during the presentation to indicate the location of mine lease on Google Earth.

2. The Project Proponent initially made an online application for Terms of Reference vide IA/OR/MIN/192496/2021 dated 03.04.2021. The proposal was initially considered in the 31<sup>st</sup> EAC meeting held during 9<sup>th</sup> -15<sup>th</sup> June, 2021. After detailed deliberations made by the Project Proponent, the Committee noted that the PP amalgamated the contiguous Mining Leases viz ML – 130 (2486.383ha) and ML – 162 (77.94ha) covering total area of 2564.323ha on 02.12.2020 and PP did not obtained amendment in EC after amalgamation of mining leases. Therefore, the Committee returned the proposal in present form and is of the view that the PP first should obtain necessary amendment in EC for amalgamation of mining leases and

then should apply for Terms of Reference. Then, the PP applied online for amendment in EC vide IA/OR/MIN/216764/2021 dated 26.06.2021 under para 7(ii) of the provisions of the EIA Notification, 2006 for the project mentioned above. The proposal was considered in the 33<sup>rd</sup> EAC Meeting held during 13<sup>th</sup> to 16<sup>th</sup> July 2021 wherein the Committee observed that as per EIA Notification 2006 there will be due diligence necessary including preparation of EIA and public consultation and the application shall be appraised accordingly for grant of environmental clearance under para 7(ii) of EIA Notification 2006. Therefore, the Committee deferred the proposal for want of additional information. PP submitted the information vide Lr Ref. No: CGM/BIM-TIM/123 dated 18.08.2021. Then, again the proposal was considered in the 36<sup>th</sup> EAC meeting held during 31<sup>st</sup> August and 1<sup>st</sup> September, 2021. Based on the documents submitted and presentation made by the Project Proponent and the Consultant, the Committee noted that the proposal is for amalgamation of two leases for which already EC has been granted and project also includes beneficiation plant which comes under the category 2(b) Mineral beneficiation as per the Schedule of the EIA Notification, 2006 as amended time to time. PP in the instant proposal has submitted Form-II for category 1(a) Mining of minerals only. The Committee therefore returned the proposal in present form and was of the view that PP should submit the complete application for the both the category 1(a) Mining of minerals & 2(b) Mineral beneficiation along with the followings. (i). The Project Proponent needs to clarify whether the mines has been operating after amalgamation of lease on 02.12.2020 without amendment in EC and (ii). The Project Proponent submitted the EC compliance report certified on 17.12.2019. Hence, PP needs to submit the latest Certified EC compliance report.

3. Now, the Project Proponent submitted a fresh application for amendment in EC vide IA/OR/MIN/236861/2021 dated 01.11.2021 under para 7(ii) of the provisions of the EIA Notification, 2006 along with the information sought in the 36<sup>th</sup> EAC meeting held during 31<sup>st</sup> August and 1<sup>st</sup> September, 2021. 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.

4. The Project Proponent vide Lr Ref. No: CGM/BIM-TIM/152 dated 30.10.2021 submitted the information sought in the 36<sup>th</sup> EAC meeting held during 31<sup>st</sup> August and 1<sup>st</sup> September, 2021 as mentioned below: -

**Point (i): The Project Proponent needs to clarify whether the mines has been operating after amalgamation of lease on 02.12.2020 without amendment in EC**

**Reply by PP:** PP submitted that no mining has been undertaken in the ML-162 (for infrastructure-77.94 ha) both pre and post its amalgamation with ML-130 (main iron ore mining lease-2486.383ha). Mining operations at Barsua-Taldih-Kalta mines under ML-130 and use of the infrastructure facilities installed under ML-162 are

continuing in line with the EC orders dated 29.10.2010, 30.03.2016, 13.07.2020 and 17.03.2021.

**Point (ii): The Project Proponent submitted the EC compliance report certified on 17.12.2019. Hence, PP needs to submit the latest Certified EC compliance report.**

**Reply by PP:** PP submitted the Certified EC Compliance report issued by the Integrated Regional Office (IRO), Bhubaneswar vide Lr No. 101-257/21/EPE/1353 dated 29.10.2021. Site visit was carried out by IRO, Bhubaneswar on 22<sup>nd</sup> & 23<sup>rd</sup> October, 2021. IRO noted that the PP informed that there is a proposal for construction of conveyor belt which is to be constructed from the mine to railway sidings in adherence to the NEERI report recommendations. IRO also observed that the PP should install the under construction HEMM vehicles maintenance unit at the earliest and on priority. Also, the garland drains need to be desilted soon after the present monsoon season to harvest maximum runoff water.

**5.** The Project Proponent submitted that Environmental Clearances obtained in the following chronological order: -

- I. Initially, Integrated Environmental Clearance obtained vide letter No. J11015/351/2006-IA.II(M) dated 29.10.2010 for Barsua-Taldih-Kalta Iron Ore Mining (ML-130), Beneficiation and Pelletisation plant project of M/s Steel Authority of India Limited for an annual production capacity of 8.05 million tonnes of iron ore by the opencast mechanized method along with setting up of a beneficiation plant of 4.25 million TPA (in additional to existing plant of 2.5 million TPA) and setting up of a pelletisation plant of 2.0 million TPA capacity involving total mine lease area of 2486.391 ha.
- II. Amendment in Environmental Clearance obtained vide F.No.J-11015/351/2006- IA.II(M) (pt.) dated 30.03.2016 for the following:-
  - i. Temporary permission to change iron ore production (ROM) from three blocks viz. Barsua, Talidh and Kalta in ML-130 lease from 2.5, 4.25 and 1.3 million TPA to 3.5, 2.05 and 2.5 million TPA respectively, keeping the total iron ore (ROM) production restricted to 8.05 million TPA as specified in the earlier environment Clearance.
  - ii. Permission to operate existing beneficiation plant at the rate 4.5 million TPA instead of 2.5 million TPA.
  - iii. Permission for road transportation of part of iron ore (ROM) from Talidh block to the Barsua Valley (about 11kms.) and to the Barsua beneficiation plant for a period of five years till facilities viz. crushing plant, LDBC are erected and commissioned for the Taldih block.

- iv. 'To replace outside mine lease area' with 'ML-162 lease and acquired area' in environmental clearance, in order to utilize the infrastructure facilities for processing of iron ore produced from ML-130 lease.
- v. To modify the total lease area of ML-130 lease from 2486.391 to 2486.383 ha as per the joint survey committee report (DGPS survey report) of Govt. of Odisha and the lease deed executed by and between the Govt. of Odisha and SAIL on 13<sup>th</sup> November, 2014.

The amendment for point no. (i) to (iii) will be only for 5 years.

III. Again, the Environmental Clearance amended vide F.No. J-11015/351/2006-IA.II (M) dated 03.07.2020 with corrigendum dated 13.07.2020 for change in excavation & dispatch pattern with provisions for excavation & dispatch of tailings from Tailing Pond of Barsua and subgrade dump fines iron ore fines for selling in open market keeping the total production within 8.05 MTPA under para 7(ii) of EIA Notification, 2006. Further, validity of redistribution of production as per the EC amendment dated 30.03.2016 were further extended by two more years i.e., till 31.03.2023.

IV. Further, EC has been amended vide F.No. J-11015/351/2006- IA.II (M) dated 17.03.2021 for re-distribution of iron ore production from Kalta Block and Taldih Block keeping the total production within the EC Capacity of 8.05 MTPA (Barsua: 3.5 MTPA, Taldih : 1.35 MTPA and Kalta : 3.20 MTPA).

6. The Project Proponent submitted that the Barsua Iron Mine (Southern part) and Kalta Iron Mine (Northern part) are in operation since 1960 and 1966 respectively. The Taldih Iron Mine (Middle part) has started production in the year 2016. There were two contiguous mining leases namely ML – 130 (main iron ore mining lease) and ML – 162 (for infrastructure) under the Barsua – Taldih – Kalta Iron Mines. The Mining Lease for ML- 130 (2486.383 ha) was granted on 06.01.1960 for a period of 30 years and subsequently renewed & lease deed for the 2<sup>nd</sup> renewal period executed on 13.11.2014 having validity up to 05.01.2030. The associated infrastructure facilities of Barsua Iron Mine are located in another adjoining mining lease viz ML – 162 (77.94 ha), which was granted on 29.04.1960 and subsequently renewed as well as extended the lease period up to 28.04.2030 and supplementary lease deed was executed on 24.09.2016. PP submitted that the Govt. of Odisha vide proceeding No.IV(B)SM-03/2020/10418/SM, Bhubaneswar, dated 02.12.2020 amalgamated the contiguous Mining Leases viz ML–130 (2486.383 ha) and ML–162 (77.94 ha) covering total area of 2564.323 ha. PP also submitted the amalgamated lease deed executed on 30.03.2021 over an area of 2564.323 ha and validity period of the amalgamated mining lease to be co-terminus with the lease whose period will expire first i.e., 05.01.2030.

7. The Project Proponent submitted the Modification of Mining Plan along with Progressive Mine Closure Plan approved by Indian Bureau of Mines, Bhubaneswar



vide letter No. MP/A/39-ORI/BHU/2020-21 dated 01.04.2021 for the amalgamated lease area of ML-130 & ML-162 over an area of 2564.323ha with 16 MTPA expansion capacity from Barsua-Taldih-Kalta Iron mines for the period 2021-22 to 2024-25.

**8.** The Project Proponent submitted that out of 2564.323 ha, 2425.613 ha is Forest Land (Toda R.F.) and 138.710 ha is Non-Forest Land. PP submitted that 5.742 ha of Forest Land, which was part of ML – 130, is under occupation of the local Schedule Tribe & Other Traditional Forest Dwellers in Village Tantra. Their individual rights have been recognized by granting pattas under Forest Right Act., 2006. PP obtained Stage-II Forest Clearance vide MoEF F.No.8-90/1996-FC (pt), dated 06.03.2013 for diversion of forest land over 2341.931ha (2248.252ha for mining and allied activities and 93.679ha for safety zone) under ML – 130 of Barsua-Taldih-Kalta in favour of M/s SAIL. Then, PP obtained Stage-II Forest Clearance vide MoEF F.No.8-18/2014-FC dated 23.10.2017 for diversion of 77.94 ha of forest land including 2.562ha of safety zone area for development of mining infrastructure in Toda RF in ML–162 lease of M/s SAIL. Further, PP submitted that Stage – II Forest Clearance over 2419.871 ha obtained covering under the amalgamated lease.

**9.** The Project Proponent submitted the baseline environmental data carried out during March – May, 2021 covering Micro-meteorology (1 location close to ML Area), Ambient Air Quality (8 locations incl. 1 Core Zone village), Work Zone Air Quality (12 locations), Ambient Noise Levels (10 locations), Work Zone Noise Levels (12 locations), Water Quality (8 surface water locations & 8 ground water locations), Traffic Density and People's opinion regarding the project. PP submitted that the predominant wind direction blowing from South-West (prevailing for ~24.8% of the time) and South-East ((prevailing for ~11.9% of the time) and predominant wind speeds were mostly in the range of 0.44 – 2.0 m/s. PP reported that the results of monitoring of ambient quality indicated that air quality is well within the norms of NAAQS 2009 at all the eight monitoring locations for all parameters (PM10, PM2.5, SO2, NO2, CO, NH3, O3, Pb, As and Ni). PP also reported that the ambient noise levels at all the 9 (nine) residential locations and 1 (one) industrial area is well within the norms of CPCB. PP submitted that the ground water quality meets the prescribed norms except some values of Manganese in GW4 (Sarkunda Village) & GW6 (Barsua township). PP submitted that the Traffic volume survey was recorded hourly continuously for 7 days at 4 (four) locations from 16<sup>th</sup> March to 22<sup>nd</sup> March 2021. At present the traffic volumes at TDS1, TDS2, TDS3 and TDS4 are within the respective Recommended Design Service Volumes. PP submitted that an opinion poll was carried out during June, 2021 to get an idea about local people's perception regarding Barsua-Taldih-Kalta Mines of SAIL. 74.5% of respondents have identified creation of employment opportunity as the main advantage. Around 81.8% of the respondents feel improvement in peripheral development activities and about 25.5 % of the respondents are apprehensive about health problems due to environmental pollution. During the survey local people pointed out that in view of the prevailing

Covid19 pandemic students are forced to attend classes online. Due to poor internet connectivity in the region children are unable to attend such on-line classes properly. Local people expect that the PP should arrange to improve internet connectivity in the region. Further, PP reported that there is no change in production as well as mode of evacuation & dispatch from Barsua – Taldih – Kalta Mines under the present proposal and there is no possibility of rise in pollution load.

**10.** The Project Proponent submitted the Consent to Operate issued by the Odisha State Pollution Control Board vide Consent Order No: 14129/IND-I-CON-1 (A) dated 17.09.2021 for production of 8.05 MTPA (ROM) [(i) Barsua – 3.5 MTPA iron ore including excavation and dispatch of tailings maximum up to – 1.0 MTPA from the tailing pond at Barsua, (ii) Kalta – 3.2 MTPA iron ore including excavation and dispatch of subgrade iron ore fines maximum up to 0.5 MTPA from fines stocks and (iii) Taldih – 1.35 MTPA iron ore including excavation and dispatch of subgrade iron ore fines maximum up to 0.5 MTPA from fines stocks] and operation of mobile crushing and screening plant of capacity 4x300 TPH and operation of mobile screening plant of capacity 4x300 TPH for the period up to 31.03.2022. PP submitted the Certified EC Compliance report issued by the Integrated Regional Office (IRO), Bhubaneswar vide Lr No. 101-257/21/EPE/1353 dated 29.10.2021. Site visit was carried out by IRO, Bhubaneswar on 22<sup>nd</sup> & 23<sup>rd</sup> October, 2021.

**11.** The Project Proponent submitted the past production details for the period 1993- 94 to 2018-19 duly authenticated by Deputy Director of Mines, Koira vide Lr. No. 6522/Mines dated 13.12.2019. PP reported that subsequent to the judgment of Apex Court dated 02.08.2017, the Government of Odisha has issued demand notice to Barsua Kalta Mines for payment of compensation towards excess production on or before 31<sup>st</sup> December, 2017 against EC/CTO capacity. Dy. Director of Mines (DDM), Koira vide letter dated 02.09.2017 issued a demand notice for payment of Rs. 66,89,42,779.5 /- in respect of Barsua / Kalta Iron Mines to recover price of mineral produced without/beyond EC alone under Section 21 (5) of MMDR Act, 1957. The said amount was deposited on 29.12.2017 under protest. Further, letter No.5962/Mines dtd, 24.10.2017 of DDM, Koira has directed to pay compensation of Rs.90,19,71,684.40 /- for mining in excess of the permissible limit under the Consent to Operate. Against the above stated demands, SAIL had filed a Writ Petition bearing WP (C) No- 24282/2017 in High Court of Odisha, Cuttack. The matter was heard and Hon'ble High Court had passed the stay order on 04.04.2018 & matter is sub-judice. PP also submitted the affidavit dated 20.04.2020 that Barsua-Taldih-Kalta Iron Ore Mine (ML-130, Mining Lease: 2486.383 Ha) of SAIL 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 subject to the result of the pending writ petitions before Hon'ble High Court of Odisha and further appeals thereto if need arises. PP submitted an undertaking in a non-judicial stamp paper of Rs 20 bearing 10AA 450732 dated 01.12.2021 that Department of Steel and Mines, Govt. of Odisha vide proceeding

No. IV (B) SM-03/2020/10418/SM, Bhubaneswar, Dtd. 02.12.2020 amalgamated the contiguous mining leases viz (ML-130 2485.383 ha) and ML -162 (77.94 ha) covering a total area of 2564.323ha having validity up to 05.01.2030. The lease deed of the amalgamated lease was executed on 30.03.2021. PP also confirmed that mining was never done in the ML-162 lease, pre and post, its amalgamation with the ML-130 lease.

## 12. Observation and Recommendation of the Committee:

The proposal for amendment in Environmental Clearance was 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 **recommended** the proposal of M/s SAIL for amendment in Environmental Clearance for amalgamation of contiguous mine lease areas comprising of ML – 130 (2486.383ha) and ML – 162 (77.94ha) as total area of 2564.323ha without change in production capacity [8.05 MTPA ROM and Beneficiation Plant Capacity 3.5 MTPA] for Barsua-Taldih-Kalta Iron Ore Mining Project located at Tantra & Bahamba Villages and Toda R.F, Tahasil Koira under Bonai Subdivision of Sundargarh District, Odisha along with the following additional specific conditions: -

- i. The Project Proponent shall ensure the livelihood and food security of the forest dwelling Scheduled Tribes and other traditional forest dwellers and take adequate measures for protection of 5.742 ha of Forest Land (Part of ML-130).
- ii. The Project Proponent shall adhere to the recommendation of CSIR-NEERI report on “Carrying capacity study for Environmentally Sustainable Iron and Manganese ore mining activity in Keonjhar, Sundargarh and Mayurbhanj districts of Odisha State”.
- iii. All other terms and conditions mentioned in the EC letter dated 29.10.2010, 30.03.2016, 03.07.2020 and 17.03.2021 shall remain the same.

**1.4 Proposal for Environmental Clearance (EC) of My Home Industries Private Limited for Proposed Limestone Mine 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: M/s B S Envi-Tech (P) Ltd] - Environmental Clearance (EC).**

### EAC Meeting Details:

EAC meeting	42 <sup>nd</sup>
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Date of Meeting	30 <sup>th</sup> November – 3 <sup>rd</sup> December, 2021
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The proposal of M/s My Home Industries Private Limited is for grant of Environmental Clearance of proposed Limestone mine 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 Form2 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. (i). The Project Proponent needs to submit the Cost Benefit analysis for loss of agriculture in 112.4948 Ha. As committed by PP, the area of 95.016 Ha will remain undisturbed and the agricultural practice should continue till the life of the mine. An undertaking in this regard needs to be submitted by the PP. (ii). The Project Proponent needs to submit the plan for progressive return of the agricultural land. (iii). The Project Proponent needs to submit the time bound action plan for R&R of 103 PAPs in the patta land of 210.067 Ha with sustainable social benefits in a measurable form. (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. (v). The Project Proponent should bring out the action plan for creation of water body at the conceptual stage for the benefit of the farmers. (vi). The Project Proponent needs to submit the revised plantation plan to complete within 3 years from the start of mining operations in peripheral area as well as backfilled area progressively. PP should undertake the plantation with suitable native species on all the benches proposed for creation of water body all along the periphery of open pit area shall be undertaken till the depth exposed above the average water level in the pit with survival rate more than 95%. An undertaking for the same also needs to be submitted by PP. (vii). The Project Proponent should revise the EMP budget proposed for Public hearing of Rs 57

lakhs. Budget must include only 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. PP should also ensure that the budget proposed for skill development programme and other concerns expressed by the people other than the mentioned above shall be borne from the separate budget. (viii). The total budget proposed for EMP mentioned in the EIA report should not include budget for public as well as for post EC monitoring cost. Breakup of recurring cost with post EC monitoring for air, water, noise and vibration to be separately given. This revised R&R, Cost benefit analysis to be uploaded in Parivesh along with Mining Plan, accordingly revised EIA/EMP report also for further consideration of EC. (ix). The Project Proponent needs to submit the revised modeling of impacts due to transportation for both the mine i.e., instant mine and adjacent mine as only one road is being used for dispatch for its potential impact on the vicinity. The scenario for transporting the material using over bridge by avoiding highway also need to be explored. (x). The weighbridge shown outside the mine lease area need to be shifted within mine lease area and accordingly revised plan needs to be submitted. (xi). The Project Proponent needs to submit the revised letter from the Competent Authority for Flora and Fauna of the study area by mentioning the Schedule of species. (xii). The Project Proponent submitted that 16.501 Ha is Govt. waste land (Dis-Forest land). PP need to clarify whether 16.501ha (government dis reserve forest land) is forest or revenue forest land or waste land duly authenticated from the concerned Department and (xiii). The Project Proponent needs to submit the copy of executed lease deed.

4. Now, the 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 as mentioned below: -

**Point (i). The Project Proponent needs to submit the Cost Benefit analysis for loss of agriculture in 112.4948 Ha. As committed by PP, the area of 95.016 Ha will remain undisturbed and the agricultural practice should continue till the life of the mine. An undertaking in this regard needs to be submitted by the PP.**

**Reply by PP:** PP submitted that out of the total mine lease area of 252.407ha, 42.34ha is Govt., & deforest land and 210.067ha (97.5717ha land already purchased and balance 112.4953ha land need to be purchased) is private agricultural non-irrigated patta land. PP 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 also submitted that the area of 95.016ha will remain undisturbed during life of mine as per current working plan / approved mining plan. Further, PP submitted the Affidavit cum undertaking in a non-judicial

stamp paper of Rs 100 bearing U 891103 dated 27.10.2021 that the PP will explore the possibility and permit for continuing agricultural practices in undisturbed part of mining lease area after complying with the DGMS requirements.

**Point (ii). The Project Proponent needs to submit the plan for progressive return of the agricultural land.**

**Reply by PP:** PP submitted that during life of mine / lease period of 50 years, after extracting the mineral, voids will be created over an area of about 146.29ha. The mined-out area over an area of about 124.45ha will be converted into water reservoir and balance area of 21.84ha will be backfilled as per approved mining plan. After 50 years lease period, the mining lease will be put for auction process as per MMDR rules, for further exploitation of mineral. Further, PP acquired the patta lands for the mining activity, with the consents of land owners by way of direct negotiation. Land was acquired at higher rates than the market rates with incentives and benefits as agreed mutually. Purchased land is converted to non-agricultural land and hence progressive return of the agricultural land not envisaged.

**Point (iii). The Project Proponent needs to submit the time bound action plan for R&R of 103 PAPs in the patta land of 210.067 Ha with sustainable social benefits in a measurable form.**

**Reply by PP:** PP submitted that the mine lease area does not cover any habitation. Hence the mining activity in the area will not involve any displacement of human settlement. The mining operations will not disturb / relocate any village or need resettlement. Thus, no adverse impact envisaged and hence rehabilitation not envisaged.

**Point (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.**

**Reply by PP:** PP submitted that the air and noise pollution estimates are done considering normative and peak production. 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.

**Point (v). The Project Proponent should bring out the action plan for creation of water body at the conceptual stage for the benefit of the farmers.**

**Reply by PP:** PP submitted that during life of mine / lease period of 50 years, after extracting the mineral, voids will be created over an area of about 146.29ha. Water body will be formed only after reaching the pit limits and void will be filled up with water only in the 50 year of lease period. 124.45 ha will be converted into permanent water body as a source of surface water to the farmers and nearby villages and it will also enhance groundwater table recharge. PIT-1 over an area of 19.45 Ha will be

used as water reservoir from 10<sup>th</sup> year onwards and PIT-2 & PIT-3 over an area of 105.00 ha and 21.84 ha out of which 1.84 ha will be used as water reservoir after 50 years.

**Point (vi). The Project Proponent needs to submit the revised plantation plan to complete within 3 years from the start of mining operations in peripheral area as well as backfilled area progressively. PP should undertake the plantation with suitable native species on all the benches proposed for creation of water body all along the periphery of open pit area shall be undertaken till the depth exposed above the average water level in the pit with survival rate more than 95%. An undertaking for the same also needs to be submitted by PP.**

**Reply by PP:** PP 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 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.

**Point (vii). The Project Proponent should revise the EMP budget proposed for Public hearing of Rs 57 lakhs. Budget must include only 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. PP should also ensure that the budget proposed for skill development programe and other concerns expressed by the people other than the mentioned above shall be borne from the separate budget.**

**Reply by PP:** PP submitted the revised budget proposed for public hearing as Rs 72.0 Lakhs for Social measures which cover Covid Health Care Facilities for Oxygen concentrators, drinking water facility i.e., two water plants for SC colony, plantation along the public roads with 6000 saplings, education and communication facilities for Yepalmadharam and Mellacheruvu schools with smart class rooms, digital boards, WIFI facility etc., PP also allocated separate budget of Rs 59 Lakhs for skill development.

**Point (viii). The total budget proposed for EMP mentioned in the EIA report should not include budget for public as well as for post EC monitoring cost. Breakup of recurring cost with post EC monitoring for air, water, noise and**

**vibration to be separately given. This revised R&R, Cost benefit analysis to be uploaded in Parivesh along with Mining Plan, accordingly revised EIA/EMP report also for further consideration of EC.**

**Reply by PP:** PP submitted the revised budget of EMP excluding budget of public hearing, Post EC monitoring cost and recurring cost as Rs 138.0 Lakhs (Capital Cost) towards Dust Suppression measures for Rs 40.0 Lakhs, Greenbelt development 7.5m zone and backfilling for Rs 78.0 Lakhs and Rainwater Harvesting structures and garland drain for Rs 20.0 Lakhs. PP also submitted that the recurring cost of EMP is Rs 545.54 lakhs for 50 years. The revised Capital cost and recurring cost for Post EC monitoring of Environmental parameters is Rs 83 Lakhs and Rs 7.0 Lakhs/annum respectively.

**Point (ix). The Project Proponent needs to submit the revised modeling of impacts due to transportation for both the mine i.e., instant mine and adjacent mine as only one road is being used for dispatch for its potential impact on the vicinity. The scenario for transporting the material using over bridge by avoiding highway also need to be explored.**

**Reply by PP:** PP submitted that the Limestone from the instant mine of 252.407 ha will be transported to the cement plant by road of 2.96 km length by 233 tippers per day at a rate of 15 trucks/hr for 16 hours. The Limestone from the adjacent mine i.e., Yepalamadhavaram Mine (89.37 Ha.) will be transported to the cement plant by road of 5.0 km length by 147 tippers per day at a rate of 9 trucks/hr for 16 hours. PP reported that the total CO emission from the instant and the adjacent mine is 5.31 g/s and 3.35 g/s, total NO<sub>x</sub> emission from the instant and the adjacent mine is 2.44 g/s and 1.54 g/s, total SO<sub>2</sub> emission from the instant and the adjacent mine is 0.000602 g/s and 0.000639 g/s and total PM emission from the instant and the adjacent mine is 0.053 g/s and 0.033 g/s. PP also reported that there are no villages located along the transportation route from the mine lease area to cement plant. The distribution of the concentration along the transportation route with maximum concentration found at a distance of 50m. Further, PP submitted that the as the mining lease boundary is adjacent to the village road, construction of over bridge is not possible.

**Point (x). The weighbridge shown outside the mine lease area need to be shifted within mine lease area and accordingly revised plan needs to be submitted.**

**Reply by PP:** PP submitted that MHIPL will install a separate weigh bridge for the adjacent mine once the instant mine becomes operational. The existing weigh bridge will be utilised for the subject mine. PP also submitted a map showing the existing weighbridge and proposed weigh bridge for the adjacent mine.



**Point (xi). The Project Proponent needs to submit the revised letter from the Competent Authority for Flora and Fauna of the study area by mentioning the Schedule of species.**

**Reply by PP:** PP 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 mentioning the schedule of flora and fauna.

**Point (xii). The Project Proponent submitted that 16.501 Ha is Govt. waste land (Dis-Forest land). PP need to clarify whether 16.501ha (government dis reserve forest land) is forest or revenue forest land or waste land duly authenticated from the concerned Department.**

**Reply by PP:** PP submitted the letter issued 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.

**Point (xiii). The Project Proponent needs to submit the copy of executed lease deed.**

**Reply by PP:** PP submitted the copy of Proceedings issued from the O/o Asst. Director of Mines and Geology, Suryapet vide No. 3779/ML/LS/2015 dated 08.03.2021 for a period of 50 years i.e., w.e.f 08.03.2021 to 07.03.2071. PP also submitted the 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 for a period of 50 years.

**5. 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>
28.02.2017	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 lease issued by Industries & Commerce (M-II) Department, vide Memo no. 5863/M.II(1)/2016-1	24.09.2016	Limestone	50 years	Govt of Telangana	Ac 623.28 Gts or 252.407 ha

#### 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	07.03.2071	Proceedings issued from the O/o Asst. Director of Mines and Geology, Suryapet vide No. 3779/ML/LS/2015 dated 08.03.2021.
2	Date of entering into original lease deed.	08.03.2021	07.03.2071	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	AP/NLG/MP/Lst-75/Hyd	20.07.2017	5 years	Limestone, 252.407 Ha

	Plan) approved by Indian Bureau of Mines			
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9. The Project Proponent submitted that opencast fully mechanized method of mining will be adopted. 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. 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 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. 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.

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

Particulars	Details	Distance & Direction
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

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

**12.** 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.

**13.** The Project Proponent submitted that out of total lease area of 252.407 Ha, 210.067 Ha is private agricultural non irrigated 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 lease area. PP submitted the NoC from the Office of Forest Department, Govt of Telangana issued by the District Forest Officer, Suryapet 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 Office of the Forest Department, Govt of Telangana issued by the Principal Chief Conservator of Forests (PCCF) vide Rc.No: 4852/2017/FCA-6, dt 06.07.2021 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.

**14.** The Project Proponent reported that there are no Schedule-I species found in the study area. PP submitted the letter from the Office of the Forest Department, Govt of Telangana issued by the Principal Chief Conservator of Forests (PCCF) 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 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 mentioning the schedule of flora and fauna.

15. 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, $\mu\text{g}/\text{m}^3$	Max, $\mu\text{g}/\text{m}^3$	98 %ile, $\mu\text{g}/\text{m}^3$	Standard, $\mu\text{g}/\text{m}^3$
	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, $\mu\text{g}/\text{m}^3$	Incremental Concentration, $\mu\text{g}/\text{m}^3$	Total GLC, $\mu\text{g}/\text{m}^3$	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%.				

## 16. 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>

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

S. No	Activity		1st year	2nd year	3rd 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 Lakhs	2.5	2.5	-	5
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	Yepalamad haram	-	-	
		Budget Rs Lakhs	8	-	-	8

Minutes of 42<sup>nd</sup> EAC (Non-Coal Mining) Meeting to be held during 30<sup>th</sup> November to 3<sup>rd</sup> December, 2021

S. No	Activity		1st year	2nd year	3rd year	Total
<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 in three different locations in the impact zone. (in 3 villages @ Rs. 50,000 each.)  Medical camps with distribution of medicines	Physical Nos	3	3	4	10.0
		@Village	Yepalamadharam	Mellacheruvu	Choutapalli	
		Budget Rs Lakhs	3	3	4	10.0
<b>OTHERS</b>						
1	Construction of Community hall (40 X 25 ft with asbestos roofing) at Yepalamadharam	Physical Nos	-	-	1	1.0
		@Village	-	-	Yepalamadharam	
		Budget Rs Lakhs	0	0	10.0	10.0
2	Construction of a hall adjacent to the existing TTD Kalyana Mandapam to	Physical Nos	-	1	-	1.0
		@Village		Mellacheruvu		
		Budget	0	10	-	10.0

S. No	Activity		1st year	2nd year	3rd year	Total
	cater to the needs of the people who perform functions and construction of this dining hall at one village	Rs Lakhs				
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	Mellacheru vu, Yepalamad havaram & Choutapalli	-	-	
		Budget Rs Lakhs	6	-	-	6.0
4	Restoration of Ambedkar statue, a bronze statue of Dr. Ambedkar at 1 villages	Physical Nos	1	-	-	1.0
		@Village	Yepalamad haram	-	-	
		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	Yepalamad haram	-	-	
		Budget Rs Lakhs	2.0	-	-	2.0
TOTAL BUDGET (In lakhs of rupees) – Implementation period - 3 years						59.0

**18.** The Project Proponent submitted that out of total lease area of 252.407 Ha, 210.067 Ha is private agricultural non irrigated Patta land, 25.839 Ha is Govt. waste Land and 16.501 Ha is Govt. waste land (De-Forest land). PP informed that out of the total patta land of 210.067 Ha, 97.57 Ha was already acquired by MHIPL and balance area of 112.4948 Ha is under acquisition. The total numbers of PAPs in the patta land of 210 Ha are 103.

**19.** 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.

**20.** 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'.

21. 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.

22. The Project Proponent submitted the revised budget of EMP excluding budget of public hearing, Post EC monitoring cost and recurring cost as Rs 138.0 Lakhs (Capital Cost) and recurring cost of EMP as Rs 545.54 lakhs for 50 years. The revised Capital cost and recurring cost for Post EC monitoring of Environmental parameters is Rs 83.0 Lakhs and Rs 7.0 Lakhs/annum respectively.

Activities	Capital Cost (Rs. In Lakhs)	Recurring (Rs. In Lakhs)
Air Pollution Control Measures (Dust Suppression Measures)	40.0	500.0
Greenbelt	18.0	4.51
Afforestation On Backfilling	60.0	15.03
Rainwater Harvesting Structures & Garland Drain	20.0	26.0
<b>Total (Lakhs)</b>	<b>138.0</b>	<b>545.54</b>

23. **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. 5.4554
Project Cost	Rs. 10
Employment	51 persons

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

The proposal for Environmental Clearance was 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 additional 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.
  - 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.

**1.5 Proposal for amendment in EC granted vide letter dated 05.02.2021 for undertaking mining over 0.218 ha of safety zone area without change in production capacity of 3.11 MTPA for expansion of Tantra, Raikela and Bandhal (TRB) Iron Ore mines of M/s Jindal Steel & Power Ltd in the mine lease area of 207.113ha, located at Tantra, Raikela and Bandhal villages, Tehsil Bonai, District Sundergarh, Odisha – [File. No: J-11015/1154/2007-IA.II(M), Proposal No: IA/OR/MIN/223239/2021, Consultant: Anacon Laboratories Pvt. Ltd] - Amendment in EC**

**EAC Meeting Details:**

EAC meeting	42 <sup>nd</sup>
Date of Meeting	30 <sup>th</sup> November – 3 <sup>rd</sup> December, 2021

The proposal of M/s Jindal Steel Power Ltd is for amendment in EC vide letter dated 05.02.2021 granted to M/s Jindal Steel & Power Ltd for undertaking mining over 0.218 ha of safety zone area without change in production capacity of 3.11 MTPA of Iron ore for expansion of Tantra, Raikela and Bandhal (TRB) Iron Ore mine in the mine lease area of 207.113ha, located at Tantra, Raikela and Bandhal villages, Tehsil Bonai, District Sundergarh, Odisha. The mine lease area is located between Latitude 21°53'05.68" N to 21°53'08.6"N and Longitude 89°09'58.806" E to 85°11'31.52" E. The mine lease area falls under the Survey of India Toposheet No: 73G1. The PP presented the KML file during the presentation to indicate the location of mine lease on Google Earth.

2. M/s Jindal Steel Power & Ltd has made an online application vide proposal no: IA/OR/MIN/223239/2021 dated 05.08.2021 and submitted Form-4 under the provisions of the EIA Notification, 2006 for the project mentioned above. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals under Category "A" of the schedule of the EIA Notification, 2006 as the mining lease area is greater than 100 ha and appraised at Central level.

3. The proposal was earlier placed in the 35<sup>th</sup> EAC (Non-Coal Mining) meeting held during 16<sup>th</sup> – 19<sup>th</sup> August, 2021, after detailed deliberations made by the Project Proponent, the Committee noted that the Project Proponent couldn't able to showcase the compliance of earlier EC granted. The Committee therefore deferred the proposal and was of the view that the proposal shall be considered only after the satisfactory compliance of EC conditions and submission of following additional information. (i). The Project Proponent needs to submit the Certified EC Compliance report, from IRO for earlier EC granted. (ii). The Project Proponent needs to submit the details on mining methodology initially in the common boundary and later further widened all along the boundary. (iii). The Committee noted that the instant proposal would result in creation of common pit, the Project Proponent needs to submit the environmental implications for creating common pit and the stability of mine benches and restoration plan for the common pit and (iv). The Project Proponent needs to submit the past production details duly authenticated by DMG. Then, the Project Proponent vide Lr Ref No. JSPL/Mine/2021-13526 dated 11.11.2021 submitted the information sought in the 35<sup>th</sup> EAC (Non-Coal Mining) meeting held during 16<sup>th</sup> – 19<sup>th</sup> August, 2021 as mentioned below: -

**Point (i): The Project Proponent needs to submit the Certified EC Compliance report, from IRO for earlier EC granted.**

**Reply by PP:** PP submitted the Certified EC Compliance report issued by the Integrated Regional Office, Bhubaneswar vide Lr No. 101-475/EPE/1249 dated 06.10.2021. Site visit was carried out by Integrated Regional Office, Bhubaneswar on 15.09.2021. IRO sought the following information/action plan on the following points:

- i. It is noted that the garland drains require cleaning and maintenance and the retaining wall needs repair wherever damages have been noticed. The benching on the dumps may be reviewed so as to check the gully formation due to sudden surge of water flowing down.
- ii. The project authorities should submit the information on the audiometric test being carried out and findings if any (General condition No. v).

PP submitted the Action plan/Action taken report for partial non-compliance of stipulations sought by IRO.

**Point (ii): The Project Proponent needs to submit the details on mining methodology initially in the common boundary and later further widened all along the boundary.**

**Reply by PP:** PP submitted that presently, the common pit will be developed in accordance with the approved mining plan and as per the MoU between M/s JSPL & M/s PTAL. Mining in the common pit will start simultaneously from both side of the boundary in such a way that all the benches will be merged with the current benches which are adjoining the common boundary. In the proposed common boundary area, the direction of excavation/ advancement of benches shall be done in opposite direction. The excavation in the proposed benches shall commence only after the benches in both the mine lies at same mRL with provision of alternate excavation planning along the common boundary in both the mine leases. PP also submitted that after working along the common boundary, it shall be ensured that the bench mRL in the common boundary shall match in both the mines. PP reported that the total common pit area between JSPL & PTAL is 27.5ha and the ultimate pit of bench height and width shall be maintained at 9m respectively. PP also reported that the top level of common pit will be 822 m and the bottom level of common pit will be 570 m. The overall bench slope will be maintained at around 37°. Further, PP submitted that at the later stage, the common mining pit which will be developed between JSPL & PTAL may be laterally widened by reaching an agreement with the other two adjacent mining leases i.e., M/s KORP Resources Pvt. Ltd. & M/s National Enterprises. Accordingly, the mining plan will be revised and the common mining pit will be laterally widened in accordance with the approved mining plan. PP also submitted the tentative conceptual plan for lateral widening of the pit.

**Point (iii): The Committee noted that the instant proposal would result in creation of common pit, the Project Proponent needs to submit the environmental implications for creating common pit and the stability of mine benches and restoration plan for the common pit.**

**Reply by PP:** PP submitted that the proposed common mining pit between JSPL and PTAL will be developed in an area of 27.5 ha. The development of the common pit will require breaking up of 0.218 ha of safety zone area in the mine lease area. PP also submitted that environmental implications are envisaged due to removal of

over burden, inter burden and removal of trees. PP submitted that there is one existing waste dump covers an area of 29.233 ha which will be used to be store the OB to be generated in the proposed review period. Retaining walls, garland drains and settling tanks, etc. are already build around the existing dumps which shall be maintained. PP reported that total of 176 trees i.e., 138 enumerated trees ( $\geq 30\text{cm}$  Girth) and 38 non-enumerated trees ( $\leq 30\text{cm}$  Girth) are found in the part of the safety zone area. PP submitted that wherever possible trees will be translocated prior to starting of the mining activities in the area will be done under the strict supervision of the State Forest Department. Furthermore, compensatory afforestation over an area of 0.261 ha of non-forest land has been identified and handed over the State Forest Department for plantation of trees at the rate of 2000 saplings per hectare. PP submitted that 20,352 nos. of saplings planted in the last six months within the lease area and till date around 3.65 lakh trees planted covering an area of about 77.0 ha inside and outside the lease area. PP submitted the fugitive dust level monitored in the month of October, 2021 at mine pit ( $529 \mu\text{g}/\text{m}^3$ ), crusher area ( $569 \mu\text{g}/\text{m}^3$ ), Mines haul road near HEMM ( $535 \mu\text{g}/\text{m}^3$ ) and Loading point near check dam ( $577 \mu\text{g}/\text{m}^3$ ) which is well within the limits of  $1200 \mu\text{g}/\text{m}^3$ . PP reported that the pollution load will not increase during developing of common boundary of JSPL and PTAL. PP submitted that the mine benches shall be maintained at 6-9 m height in average and bench width shall be maintained at 9-12 m invariably but at places those shall be kept at 18 m for stability of side walls/ slope. The overall bench slope will be maintained at around  $37^\circ$ . PP also submitted that the progressive mine closure plan has been formulated describing year wise steps proposed for phased restoration, reclamation of lands already/to be degraded separately for 5 years period. Mine workings have been carried out and will continue in different patches viz patch-1 & 2 & Patch-3A. The common mining pit will be developed in the patch-1. The ultimate pit limit (UPL) in patch 3B reached in 2017-18 and the area covering 8.47 ha already reclaimed. Part of Patch-1 covering an area of 6.6Ha also reclaimed before mining scheme review period 2019-2020. Total reclaimed area is 15.07Ha. As per the approved mining scheme for the review period of 2020-21 to 2024-25, Patch-2 and Patch-3A shall reach the ultimate pit limit and reclamation shall be started from 2020-21 in Patch-2 simultaneously continued till end of the review period and reclamation shall start from 2023- 24 in Patch-3A which will continue till end. Patch-2 and Patch -3A shall be exhausted fully after UPL by end of the proposed review period.

**Point (iv): The Project Proponent needs to submit the past production details duly authenticated by DMG.**

**Reply by PP:** PP submitted the past production details duly certified by Deputy Director of Mines, Koira vide Memo No 3473 Mines, dt 16.09.2021 for the period 2011-12 to 2020-21. PP also submitted the demand notice issued from the Office of the Deputy Director of Mines, Koira Circle vide Lr No 5090/Mines, dated 02.09.2017 for the excess production of 2270497 MT of Iron ore produced without EC/beyond

the EC during the year 2000-01 to 2010-11 and directed to pay the compensation of Rs 137,81,92,295/- (Rupees One hundred thirty seven crore Eighty one lakh Ninety two thousand Two hundred ninety five) only on or before 31.12.2017 in pursuance to the Para 225 of the Order dt 02.08.2017 of Hon'ble Supreme Court. PP also submitted that the payment of Rs 137,81,92,295/- (Rupees One hundred thirty seven crore Eighty one lakh Ninety two thousand Two hundred ninety five) against the demand was made on 28.12.2017.

4. The Project Proponent earlier obtained Environmental Clearance vide Lr No. J11015/62/2005.IA.II(M) dated 29.09.2005 for expansion in production of iron ore of 2.2 MTPA in the mine lease area of 207.787ha under EIA Notification, 1994. Then, PP obtained Environmental Clearance vide Lr No. J-11015/1154/2007-IA.II(M) dated 17.03.2009 for expansion of production of iron ore from 2.2 million tonnes per annum to 3.11 million tonnes per annum in the mine lease area of 297.848ha under EIA Notification, 2006. Further, PP obtained Amendment in EC on 05.02.2021 to mine in already diverted area of 0.218 ha in part of safety zone within the mine lease area.

5. The Project Proponent submitted that the initial grant of lease area is 297.848 Ha and after surrendering 90.061 Ha (297.848 Ha – 90.061 Ha = lease area is 207.787 Ha). The lease area has revised to 207.113 Ha instead of 207.787 Ha after DGPS Survey. PP also submitted the amended lease deed executed on 02.05.2018 by the Collector, Sundargarh extending the validity period of the mining lease up to 24.05.2035 over an area of 207.113 Ha.

6. The Project Proponent requested to modify the EC amendment dated 05.02.2021 granted to M/s Jindal Steel Power Ltd to carry out mining activities as per the approved mining plan in already diverted 0.218 ha area in part of safety zone by developing a common mining pit which will include the breaking up of 7.5m wide safety zone along the shared boundary between M/s Jindal Steel Power & Ltd (JSPL) and M/s Penguin Trading & Agencies Ltd (PTAL) and will help in utilization of blocked mineral resources thereby conserving the minerals. In view of the above, PP vide Lr. Ref. No. JSPL/Mine/2021-13115 dated 04.08.2021 submitted the following:

- i. Amendment in EC issued by SEIAA vide Lr dated 29.07.2021 for M/s Penguin Trading & Agencies Ltd that “the amendment in EC be allowed as proposed exactly in line with the resolution of common boundary problem effected by MoEF while allowing Stage -II FC”.
- ii. Approval letter of Review of Mining Plan along with Progressive Mine Closure Plan approved by the Indian Bureau of Mines, Bhubaneswar vide Letter No. RMP/A/28-ORI/BHU/2019-20 dated 18.11.2019 in favour of M/s Jindal Steel Power & Ltd for Iron ore over an area of 207.113 Ha for the period 2020-21 to 2024-25 which include change in land use pattern to undertake mining in safety zone by developing the common mining pit.

- iii. Approval letter of Review of Mining Plan along with Progressive Mine Closure Plan approved by the Indian Bureau of Mines, Bhubaneswar vide Letter No. RMP/A/19-ORI/BHU/2020-21 dated 06.11.2020 in favour of M/s Penguin Trading & Agencies Ltd for Iron ore over an area of 49.372 Ha for the period 2021-22 to 2025-26 which include change in land use pattern to undertake mining in safety zone by developing the common mining pit.
  - iv. Forest clearance granted by MoEFCC (FC Division), New Delhi vide Lr. No. F.No 8-63/1995 FC (Vol-II) dated 04.04.2020 for change in land use pattern over an area of 0.218 ha. of forest land from Safety Zone purpose to mining purposes within 206.081 ha of already diverted forest land including safety zone in Tantra, Raikela & Bandhal (TRB) in Bonai Forest Division for Iron Mining Lease of M/s Jindal Steel & Power Ltd.
  - v. Forest clearance granted by MoEFCC (FC Division), New Delhi vide Lr. No. F.No 8-23/2007-FC dated 10.07.2020 for change in land use pattern over an area of 0.218 ha from Safety Zone purpose to mining purposes of already diverted 48.632 ha of forest land over lease area of 49.372 ha at Raikela & Tantra Iron Mines in village Raikela & Tantra in Bonai Forest Division in Sundargarh District of M/s Penguin Trading & Agencies Ltd.
  - vi. Permission letter from Directorate-General of Mines Safety issued by Director of Mines Safety, Chaibasa Region, Govt. of India vide Lr. No 330060/SEZ/Chaibasa Region/Perm/2020/5845 dated 28.08.2020 to extend opencast workings of TRB Iron Ore Mines of M/s Jindal Steel and Power Ltd. within 7.5m of the common mine boundary of Raikela & Tantra Iron Mines of M/s Penguin Trading and Agencies Ltd. under Regulation 111(3) of the Metalliferous Mines Regulations, 1961 and this permission shall be valid for a period of five (5) years from the date of issue of this letter.
  - vii. Permission letter from Directorate-General of Mines Safety issued by Director of Mines Safety, Chaibasa Region, Govt. of India vide Lr. No 330060/SEZ/Chaibasa Region/Perm/2020/5846 dated 28.08.2020 to extend opencast workings of TRB Iron Ore Mines of M/s Penguin Trading and Agencies Ltd. within 7.5m of the common mine boundary of TRB Iron Ore Mines of M/s Jindal Steel and Power Ltd. under Regulation 111(3) of the Metalliferous Mines Regulations, 1961 and this permission shall be valid for a period of five (5) years from the date of issue of this letter.
7. The Project Proponent submitted that total mine lease area is 207.113ha, out of which forest land is 205.697ha. (Khasra Forest - 53.191ha & DLC Forest Land - 152.506ha) and non-forest land is 1.416ha (Govt. land – 0.708ha & Private Agricultural land - 0.708ha). PP obtained Stage-II FC vide F.No.8-63/1995-FC (Vol.II) dated 08.08.2006 for diversion of 90.505 ha of forest land for renewal of mining lease for mining of iron ore. Further, PP obtained Stage-II FC vide F.No.8-

63/1995-FC dated 24.06.2014 for diversion of additional forest land of 116.647 ha (104.999 ha and allied activities + 11.148 ha for maintenance of safety zone) in addition to already diverted forest area of 90.505 ha within the mining lease area of 207.787ha. PP also submitted the letter vide F.No.8-63/1995-FC dated 18.09.2014 that in partial modification of the Ministry's letter of even number dated 27.06.2014 area of additional forest land diverted in favour of M/s Jindal Steel & Power Ltd shall be read as 115.576ha (104.999 ha for mining and allied activities + 10.577 ha for maintenance of safety zone) instead of 116.147ha. PP submitted that 205.697ha (Including Safety Zone) of forest land already diverted.

8. The Project Proponent submitted the Consent to Operate issued by the State Pollution Control Board, Odisha vide No. 3739/IND-I-CON-1401 dated 21.03.2020 in favour of M/s Jindal Steel and Power Ltd for production of 3.11 MTPA of Iron Ore for the period ending up to 31.03.2025. PP submitted the Certified EC Compliance report issued by the Integrated Regional Office, Bhubaneswar vide Lr No. 101-475/EPE/1249 dated 06.10.2021. Site visit was carried out by Integrated Regional Office, Bhubaneswar on 15.09.2021.

9. The Project Proponent submitted the past production details duly certified by Deputy Director of Mines, Koira vide Memo No 3473 Mines, dt 16.09.2021 for the period 2011-12 to 2020-21. PP submitted the demand notice issued from the Office of the Deputy Director of Mines, Koira Circle vide Lr No 5090/Mines, dated 02.09.2017 for the excess production of 2270497 MT of Iron ore produced without EC/beyond the EC during the year 2000-01 to 2010-11 and directed to pay the compensation of Rs 137,81,92,295/- (Rupees One hundred thirty seven crore Eighty one lakh Ninety two thousand Two hundred ninety five) only on or before 31.12.2017 in pursuance to the Para 225 of the Order dt 02.08.2017 of Hon'ble Supreme Court. PP also submitted that the payment of Rs 137,81,92,295/- (Rupees One hundred thirty seven crore Eighty one lakh Ninety two thousand Two hundred ninety five) against the demand was made on 28.12.2017.

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

The proposal for amendment in Environmental Clearance was 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 **recommended** the proposal for amendment in Environmental Clearance granted vide letter dated 05.02.2021 to M/s Jindal Steel & Power Ltd for undertaking mining over 0.218 ha of safety zone area without change in production capacity of 3.11 MTPA of Iron ore for expansion of Tantra, Raikela and Bandhal (TRB) Iron Ore mine in the mine lease area of 207.113ha, located at Tantra, Raikela and Bandhal villages, Tehsil Bonai, District Sundergarh, Odisha along with the following additional conditions: -

- i. The Project Proponent shall ensure the safety during mining in common pit.



- ii. The Committee was of the opinion that as per the top RL (822m) and the bottom RL (570m) and proposed height and width of the benches, 8 benches would be appropriate to excavate the mineral in the common pit.
- iii. PP should also explore the possibility of transplanting/translocation the existing plantation in the 7.5m width on the lease area of M/s Jindal Steel & Power Ltd over a stretch of 300m shall also undertake the compensatory afforestation of more than 8000 saplings with same species having height of 9ft with not less than 95% survival rate shall be carried out in the already identified area. The compensatory afforestation will be taken up before the safety zone is disturbed. The 6 monthly data on compensatory afforestation shall be submitted to IRO.
- iv. The Project Proponent shall maintain the garland drains and retaining wall periodically.
- v. The Project Proponent shall adhere to the recommendation of CSIR-NEERI report on “Carrying capacity study for Environmentally Sustainable Iron and Manganese ore mining activity in Keonjhar, Sundargarh and Mayurbhanj districts of Odisha State”.
- vi. The terms and conditions stipulated in the earlier environmental clearance vide letter dated 17.03.2009 and 05.02.2021 shall remain same.

**Day 2: 1<sup>st</sup> December, 2021 (Wednesday)**

**2.1 Proposal for Environmental Clearance of M/s Odisha Mining Corporation Limited for Dubna-Sakradihi Iron & Manganese mine with production of 3.0 MTPA of Iron Ore and 0.05 of Manganese ore and installation of crushing (100 TPH-1 No) and Screening unit (300 TPH-2 No and 100 TPH-1 nos) in the mine lease area of 1332.019 ha, located at Dubna, Jampani, Purunadihi, Handhibhanga, Naibaga, Basantapur, Pedipokhari R.F & Naibaga R.F., TehsilBarbil and Jhumpura, District Keonjhar, Odisha – [File No: 23-241/2018-IA.III (V), Proposal No: IA/OR/MIN/74300/2018, Consultant: M/s MECON Limited] - Environmental Clearance (Violation).**

**EAC Meeting Details:**

EAC meeting	42 <sup>nd</sup>
Date of Meeting	30 <sup>th</sup> November – 3 <sup>rd</sup> December, 2021

The proposal of M/s Odisha Mining Corporation Limited is for grant of Environmental Clearance for Dubna-Sakradihi Iron & Manganese mine for Total Excavation of 7.0 MTPA [3.0 MTPA Iron Ore, 0.05 MTPA Manganese Ore, Waste (2.2 MT-iron ore); (1.1 MT-Mn ore) O.B, Inter Burden (Sub grade - 0.25 MT-iron ore; 0.02MT - Mn ore), Top Soil (0.1638 Mm<sup>3</sup>) till conceptual stage] and installation of crushing (100 TPH-1 No) and Screening unit (300 TPH-2 No and 100 TPH-1 nos) in the mine lease area of 1332.019 ha, located at Dubna, Jampani, Purunadihi,

Handhibhanga, Naibaga, Basantapur, Pedipokhari R.F & Naibaga R.F., TehsilBarbil and Jhumpura, District Keonjhar, Odisha. The mine lease area is located between Latitude 21°48'37.35634"N to 21°51'49.70793"N and Longitude 85°22'17.83890"E to 85°24'26.47792"E. The mine lease area falls under the Survey of India Toposheet No: 73 G/5 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 Odisha Mining Corporation Limited has made an online application vide proposal no: IA/OR/MIN/74300/2018 dated 11.11.2021 and submitted Form2 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 and 2(b) Mineral Beneficiation and falls under Category "A" as the mining lease area is greater than 100ha and appraised at the Central level. As decided by the Competent Authority, considering tenure of EAC (Violation) till June 2021, it has been decided that, henceforth all the EC applications for which ToR was recommended by the EAC (Violation) shall be appraised by the sectoral EACs. The respective sectors may consider co-opting two-three members from EAC (Violation) to facilitate appraisal of proposals related to violations. In this regard, the proposal is considered in the 42<sup>nd</sup> EAC (Non-Coal Mining) meeting to be held during 30<sup>th</sup> November – 3<sup>rd</sup> December, 2021.

3. The Project Proponent submitted that the process of obtaining EC has been initiated during 2005-2006. EIA report was prepared as per EIA notification 1994 for capacity for 1.0 MTPA Iron ore and 0.06 MTPA Manganese ore (Baseline data was collected during post monsoon, 2005). The draft EIA-EMP report was submitted for Public Hearing on 22.05.2007. Public Hearing was conducted on 14.03.2008. The proposal was considered for EC on 20.11.2008 during 21st meeting of the Reconstituted EAC (Non Coal Mining) for Environmental Appraisal of Mining Projects and the proposal was considered for assessing the adequacy of the EIA and additional ToR was issued on 22.12.2008. Public hearing was re-conducted on 03.09.2009 as per EIA Notification 2006. The proposal was re-considered for EC on 25.04.2011. During its 14th meeting, the EAC (Non-Coal Mining) raised certain queries and directed to submit response on queries raised till Aug, 2011. The proposal was included in the agenda for 'Reconsideration of EC' on 23.09.2011. However, PP requested to defer consideration of proposal as approval of Modified Mining Plan was pending. Then, PP again applied online to MoEF&CC for obtaining fresh EC on 24.01.2018 enclosing Form-I and Pre-Feasibility Report for approval of ToR. The proposal was kept on hold for consideration by MoEF&CC till finalization of "Carrying capacity study for Environmentally sustainable Iron and Manganese ore mining activity in Keonjhar, Sundargarh and Mayurbhanj districts in Odisha". Then, MoEF&CC vide letter no. Z-11013/36 / 2014-IA.II(M)(Pt.) dated 14.03.2018 has informed that the carrying capacity study has been finalized and accepted by the competent authority. Subsequently, in pursuance of the Ministry's Notification dated 14<sup>th</sup> March, 2017 due to violation of the EIA Notification, 2006 and subsequent O.M.

dated 16.03.2018, a fresh proposal has been submitted to MoEF&CC on 12.04.2018 vide proposal no. IA/OR/MIN/74300/2018 for consideration of ToR. Then, the Ministry issued ToR vide letter no. F.No.23-241/2018-IA.III (V) dated 27<sup>th</sup> May 2019.

**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>
12.04.2018	IA/OR/MIN/74300/2018	13 <sup>th</sup> EAC (Violation) meeting held during 18-20 Sept, 2018 & 17 <sup>th</sup> EAC (Violation) meeting held during 29-31 January, 2019	Total Excavation of 7.0 MTPA [3.0 MTPA Iron Ore, 0.05 MTPA Manganese Ore, Waste (2.2 MT-iron ore); (1.1 MT-Mn ore) O.B, Inter Burden (Sub grade - 0.25 MT-iron ore; 0.02MT - Mn ore), Top Soil (0.1638 Mm <sup>3</sup> till conceptual stage] and installation of crushing (100 TPH-1 No) and Screening unit (300 TPH-2 No and 100 TPH-1 nos) in the mine lease area of 1332.019 ha and additional specific conditions as recommended by CSIR-NEERI on carrying capacity study	27.05.2019

**5.** The Project Proponent submitted that the Dubuna manganese mining lease executed on 08.09.1971 for a period of 20 years over 1135.419 ha which was valid till 07.09.1991 and Sakradihi Iron ore mining lease executed on 28.12.1959 for a period of 30 years over 564.55 ha which was valid till 27.12.1989. PP further submitted that they requested State Government, Orissa for amalgamation of these two mining lease over a reduced area of 196.60 ha in respect of Sakradihi iron ore and 1135.419 ha of Dubuna manganese mining lease. Department of Steel and Mines, Government of Odisha has amalgamated the lease vide letter no. IV(A) S-62/05-3607 dated 18.02.2006 over the area of 1332.019 ha (196.60 ha- Sakradihi iron ore and 1135.419 ha-Dubuna manganese mining lease). PP further submitted that the Steel & Mines Department, Government of Odisha has extended the validity period of mining lease for iron and manganese ore over an area of 1332.019 ha vide letter No. III(A)SM15/2013/9411/SM, Bhubaneswar dated 05.12.2018. The order states that *"in terms of Rule 3(1) of the Mineral (Mining by Government Company) Rules, 2015, the period of amalgamated mining lease over 1332.019 ha is deemed to be granted for 50 years i.e. from 28.12.1959 to 27.12.2009 and in terms of Rule*

3(2) *the period of the amalgamated mining lease is further extended from 28.12.2009 to 27.12.2029 for the reason that OMC requires operation of its mines for supply of ore to the user agencies subject to lessee executing the supplementary lease deed for such lease extension period.*" PP submitted the letter issued by Steel & Mines Department, Govt of Odisha vide No 2076/SM, Bhubaneswar dated 24.02.2021 to allow further 01 (one) year time w.e.f. 05.12.2020 for execution of supplementary lease deed.

6. The Project Proponent submitted that the Review of Mining Plan along with Progressive Mine Closure Plan of Dubna-Sakradih Iron & Mn mine approved by IBM vide letter No. RMP/A/41-ORI-BHU/2019-20 dated 04.02.2020 over an area of 1332.019ha for the period 2020-21 to 2024-2025.

7. The Project Proponent submitted that the mining will be carried out by open cast mining method by conventional shovel dumper combination. PP reported that considering 25.7524 million tonnes of iron ore reserves (UNFC Code 121), the expected life of iron ore will be about 9 years (approx. 2.7679 million tonnes of iron ore will be blocked in the mine) and whereas, considering 1.146 million tonnes of manganese ore reserves (UNFC Code 121), the expected life of manganese ore mine will be about 8 years (approx. 0.7260 million tonnes of Mn ore will be blocked in the mine). Thus, the anticipated life span of the mine extends beyond 17 years with the production of only Mn ore from 10<sup>th</sup> year onwards, once the iron ore reserves are exhausted. - Drilling will be carried out using 150 mm dia. Drills with 3 - 3.5 m burden and 3.5 - 4 m spacing in iron ore whereas, 115 mm dia. drill with 2.5-3 m burden & 3-3.5 m spacing. Total 80 % (approx) of planned quantity will require drilling & blasting. Holes will be charged with slurry explosives and initiated using detonating fuse/NONEL. PP also reported that the proposed height of bench will be 6 m with 12 m minimum working width. Bench slope has been considered as 75°. PP further submitted that the crushing unit (1 nos.) of 100 TPH & screening Unit (2+1 nos.) of 300 & 100 TPH respectively (10% of ROM) will be installed for processing the Fe ore. In iron ore deposits, blasted material will be loaded with hydraulic excavators (diesel powered) of bucket capacity of 3.0 – 4.5 cu.m bucket capacity in 35 T dumpers and will be transported to proposed crushing & screening plant for production of CLO & fines. Whereas, in manganese ore deposits blasted material will be loaded using hydraulic excavators of 0.9 – 2.0 cu.m bucket capacity in 25 T capacity tippers and will be transported to proposed mobile crushing & screening plant for production of Manganese of -40 +10 mm size. A total of 21.38 MT waste will be generated from iron ore quarries up to conceptual stage. Out of which, 9.86 Mt waste will be generated during the plan period up to 2024-25. Entire generated waste has been planned to be dumped in waste dumps WD1, WD2 and WD3 as well as for backfilling & surface dumping from the year 2023-24 onwards. A total of 4.54 MT waste will be generated from Mn ore quarries up to conceptual stage. Out of which, 2.40 Mt waste will be generated during the ensuing plan period up to 2024-25. Entire waste generated from FY 2020-21 to FY 2024-25 has been planned to be

dumped in waste dumps WD1M & WDM-1. Entire balance waste of Mn ore quarries i.e., 17.96 Mm<sup>3</sup> generated from year 2024-25 up to conceptual stage has been proposed to be backfilled in the mined-out voids of deposit 5 Top (backfill 5). PP also submitted that the mine is non-operational since April 2006 (26.04.2006).

**8.** The Project Proponent reported that the existing pit limit is 595 m AMSL (Deposit 8D), Ultimate pit limit will be 534 m AMSL [Deposit 8D] and Ground water table lies between 410m - 418m AMSL (~ 116m below ultimate pit limit) and hence, the mining activity shall not intersect the ground water table.

**9.** The Project Proponent reported that the average water requirement for domestic and industrial use will be about 112 m<sup>3</sup>/day and 223 m<sup>3</sup>/day respectively and Peak water requirement for domestic and industrial use will be about 123 m<sup>3</sup>/day and 302 m<sup>3</sup>/day, respectively. PP submitted that potable water requirement will be obtained through bore well and industrial water requirement will be obtained from Jalpa Nala. PP submitted the No Objection Certificate (NOC) obtained from CGWA vide NOC No: CGWA/NOC/MIN/ORIG/2021/13572 dated 01.11.2021 for ground water abstraction of 159 m<sup>3</sup>/day and is valid till 31.10.2023. PP also submitted the letter allocated by Dept. of Water Resources, Govt. of Odisha vide letter no. 1006/WR. dated 09.01.2020 for drawal of 0.043 cu sec (~105 m<sup>3</sup>/day) of surface water (Jalpa Nalla).

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

Particulars	Particular's Name	Distance & Direction
Nearest Town	Joda	~15 km, N
Nearest State/ National Highway	Dubna-Sakradihi-Nayagarh Road (SH10)	100 m, NE
	Joda-Keonjhar Road (NH20)	16 km, E
Nearest Railway station	Nayagarh	~ 5 km, E
Water bodies	Dalaki nala	touching on southern side
	Jalpa nadi	0.1 km
	Ghagra Nala	1.5 km
	Malda Nadi	3.5 km
	Baitarani River	4.5 km

**11. Land Area Breakup:**

Forest Land	Area, ha	Non-Forest land	Area, ha
Reserve Forest	773.336	Waste Land	26.667
Protected Forest	Nil	Grazing Land	0.001
Village Forest	28.992	Agriculture Land	50.567
Others (HAL/SABIK)	38.199	Others (Hutments, Community, Water way etc.)	11.044
Other (DLC Forest)	402.743		
<b>Total</b>	<b>1243.270</b>	<b>Total</b>	<b>88.279</b>

PP also submitted that the total lease area was DGPS surveyed by ORSAC and computed the total area as 1331.549ha. While vetting the surveyed map, ORSAC has certified that the surveyed data is within 95% of the confidence level. The differential area of 0.47 ha is within 5% of the permissible limit as per the ORSAC.

**12.** The Project Proponent submitted that the total mine lease area is 1332.019 ha, out of which, 1243.270 ha is forest land and 88.279 ha is non-forest land. PP obtained Stage-I FC vide Lr File No.8-26/2019FC dated 06.05.2021 for non-forestry use of 1243.27 ha of forest land for mining of Iron and Manganese Ore in Dubna-Sakradihi Mines. PP also submitted that the MoEF&CC granted Temporary Working Permission over already broken up forest area of 253.229 ha vide letter no. F.No.8-135/2006-FC dated 16<sup>th</sup> July 2008 after a joint survey by the state authorities. PP submitted the location map duly authenticated by PCCF (WL) and CWLW, Odisha vide Lr No. 4670/7WL-FD&WLC-61/2020 that there is no National Park, Sanctuary, Biosphere Reserve, Wildlife Corridors, Ramsar site Tiger/ Elephant Reserves (existing as well as proposed) within 10 km radius from the mine lease area. Further, PP submitted that there are no scheduled tribes and other traditional forest dwellers are seen residing in the leasehold area. PP also submitted the Certificate issued by Collector, Keonjhar under “Scheduled Tribes and other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006”.

**13.** The Project Proponent reported that the following Schedule-I species are found in the study area such as Elephant, Sloth Bear, Indian Python, Pea Fowl and Monitored Lizard. PP submitted the list of flora-fauna authenticated by Divisional Forest Officer, Keonjhar Forest Division vide letter no. 10545/6F-Mining-Keonjhar dated 06.12.2019. PP submitted the Site-Specific Wildlife Conservation Plan (SSWCP) approved by PCCF (WL) & Chief Wild Life Warden (Odisha) vide Lr no. 9432/1WL-SSP-62/2016 dated 30<sup>th</sup> Nov., 2016. PP submitted that MoEF&CC, GoI while conveying the Stage-I FC (vide F. No. 8- 26/2019-FC dt. 06.05.2021) for diversion of 1243.27 ha of forest land has stipulated condition (A) 11, given as under:

*"A site-specific Wildlife Management Plan shall be prepared by the State Government in consultation with the PCCF (Wildlife) for the protection and conservation of wildlife of the area. Comments of the Project Elephant Division of the MoEF&CC (copy enclosed) shall be addressed in the said Plan and a copy of approved Plan shall be submitted to the Ministry along with the compliance of Stage-I approval. Entire cost of implementation of the provisions of the Wildlife Management Plan shall be deposited into the account of CAMPA of the State to prepare a revised site".*

PP in compliance to the above engaged M/s CHANDANAM, an agency empanelled by PCCF(WL) & CWLW, Odisha to prepare the SSWCP as per the latest guidelines issued by PCCF(WL) & CWLW, Odisha vide memo no. 9094/CWLW-FDWCMISC-0028-2021 dt. 17.09.2021 incorporating the compliance to the observation by Project

Elephant Division. PP submitted the revised SSWCP to DFO, Keonjhar vide letter no. 14740/OMC/F&E/2021 dated 28.09.2021 and is pending for approval.

14. The Project Proponent reported that the total area proposed for greenbelt/plantation will be 1266.988 ha with 9,18,311 no. of saplings. PP also reported that the 7.96 ha of safety zone already covered under plantation with 12,736 no.of trees. During plan period, PP proposed to plant over an area of 23.11 ha (13.36 of safety zone and 9.75 ha over external dump) with 28,201 no.s of saplings. PP earmarked a budget of Rs 25.0 Lakhs as Capital cost and Rs 14.0 Lakhs as Recurring cost towards Greenbelt/Plantation.

#### 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 Summer. 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.

Baseline Data (Air / Water / Noise / Soil / Ground water table/ others)					
Period of baseline data collection			March to May, 2019		
Season (Summer / Pre-monsoon / Post-monsoon / Winter)			Summer		
Period	Results of Baseline monitoring				
AAQ parameters at 7 locations	Pollutant	Min, $\mu\text{g}/\text{m}^3$	Max, $\mu\text{g}/\text{m}^3$	98 %l e, $\mu\text{g}/\text{m}^3$	Standard, $\mu\text{g}/\text{m}^3$
	PM2.5	19	48	47	60
	PM10	57	98	97	100
	SO2	4	13	13	80
	NOx	10	28	28	80
AAQ modelling (Incremental GLC)	Pollutant	Baseline Concentration, $\mu\text{g}/\text{m}^3$	Incremental Concentration, $\mu\text{g}/\text{m}^3$	Total GLC, $\mu\text{g}/\text{m}^3$	Standard
	PM2.5	43	1	44	60
	PM10	98	1	99	100
	SO2	10	1	11	80
	NOx	17	1	18	80
Noise level at 7 locations	Day Time: 36.2 to 51.2 Leq dB (A) Night Time: 33.5 to 52.2 Leq dB (A)				
Surface water quality at 4 locations	SW1, SW2 meets the criteria specified for Class-B and Baitarani River (SW3, SW4) meets Class-C, when compared with criteria specified by CPCB. pH ranged between 6.97 to 7.38. Values for Aluminium in pond water (SW2) and Iron & Aluminium in Baitarani River (SW3, SW4) exceeded the respective permissible limits when compared with drinking water specification of IS 10500:2012.				
Ground water	pH ranged between 6.87 to 7.45. Total hardness ranged				

quality at 5 locations	between 24 to 276 mg/l. The other general parameters concerning undesirable substances are all within desirable limits except for Aluminium.
Soil quality at 5 locations	pH of the soil is slightly acidic (5.18 < pH < 5.89). Availability of phosphorus and nitrogen are low. Organic carbon content is low to medium while potassium content is medium to high. Moderate quantities of calcium and magnesium were observed whereas levels of exchangeable sodium and potassium were relatively low.
Traffic study	Traffic density analysis carried out at 3 (three) locations at State Highway & MDR which are envisaged to be used by for ore transportation from mine site for 24 hours continuously. The existing average traffic density on road is 22,255 PCU/day (Near Kajurdih). Considering the additional capacity of about 1200 PCUs/day i.e., 400 trucks/day, for transporting 0.9 million tonnes per annum ore from Dubna-Sakradihi mine through Dubuna-Sakradihi-Nayagarh Road (SH10) about 8455 PCU is over the carrying capacity limit. Once the four-laning of road (NH20) is completed the carrying capacity will be well within the required limited.

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

Advertisement for PH with date	<ul style="list-style-type: none"> <li>i. The New Indian Express (English), Bhubaneswar edition dated 09.09.2021</li> <li>ii. Dharitri (Odiya), Local edition dated 09.09.2021</li> </ul>
Date of PH	10.10.2021
Venue	Gupteswar High School, Dubuna
Chaired by	<ul style="list-style-type: none"> <li>i. Shri Bishnu Prasad Acharya, Project Director, DRDA, Keonjhar.</li> <li>ii. Shri Pushkar Chandra Behera, Regional Officer, SPCB, Keonjhar, Odisha</li> </ul>
Main issues raised during PH	Employment to local people, Health, Education, Agriculture, Pollution Control, Plantation, Road safety, Welfare activities
Budget proposed for addressing issues raised during PH	Rs 632.36 Lakhs

17. The Project Proponent submitted that no rehabilitation and resettlement of land oustees involved in the project and no private land will be acquired for the project under present proposal. PP also submitted that earlier surface right over an area of 1135.419 ha was granted for Dubna ML vide order no. 1015/M dated 11.10.1972. Surface right over an area of 499.7868 ha was granted for Sakradihi ML vide order no. IX (4)60(M)/204/Keonjhar dated 22.01.1960. Out of above, part of the



Sakradihi ML was overlapping with Dubna ML. Accordingly, overlapping area of lease was included in Dubna lease.

**18.** The Project Proponent submitted that the mine was operated by violating the Environment (Protection) Act, 1986 as PP started the work on site without prior EC under EIA Notification, 2006. Mine was in operation till 2006-07 without EC. PP also submitted that following demand notice was raised by State Government and the corresponding payment made against the demand notice are mentioned below.

I. Deputy Director of Mines (DDM), Joda vide letter no. 4082/Mines dated 02.09.2017 had raised a demand of Rs. 54,17,77,254/- for production of iron ore during 2000-01 to 2010-11 without EC pertaining to Sakradih Iron Ore Mines. Followed by, DDM revised the compensation to Rs. 26, 43, 93,571/- vide Demand Letter No. 6096/Mines dated 13.12.2017.

a) Payment of compensation of Rs. 26, 43, 93,571/- was made vide bank transaction ID: CKE5244105 dated 27.12.2017.

b) However, the DDM has communicated to PP vide letter No.1327/Mines dated 03.03.2018 and mentioned that "Though you have deposited the compensation amount as per the revised demand notice within 31/12/2017, you have failed to hand over the undisposed stock of minerals within the stipulated time i.e., 28/2/2018. Therefore, you will not be eligible for the reduction of compensation amount and liable to pay the compensation amount in full along with interest@14% from 31.12.2017.

c) Therefore, the payment of remaining compensation along with interest was made (Rs. 277,383,683/- + Rs.7,234,774/- = Total: 28,46,18,457/-) vide transaction ID:CKF2244345 dated 09.03.2018.

II. DDM, Joda had also raised a demand of Rs. 2,66,50,514/- vide letter no. 4076/Mines dated 02.09.2017 for production of manganese ore during 2000-01 to 2010-11 without EC pertaining to Dubna Manganese mines.

a) Payment of compensation of Rs. 2,66,50,514/- for Dubna mines was made vide bank transaction ID: CKE5245829 dated 27.12.2017.

III. DDM, Joda had also raised a demand of Rs. 12,43,46,720/- vide letter No. 5208/Mines dt. 23.10.2017 against the Ores/Minerals raised without/in excess of Mining Plan and CTO.

a) Payment of compensation was made along with interest due to belated payment (Total: Rs. 14,32,74,676/-) vide bank transaction ID:CKH1402300 (Rs. 124346720/-) and ID:CKH1403269 (Rs.18927956/-) on 19.09.2018.

**19.** The Project Proponent submitted that case is pending against the project proposal i.e., credible action initiated as cognizance of offence under Section 15 of the E(P) Act, 1986 against OMC on 23.04.2014 by S.D.M, Champua in the court of

the JMFC, Barbil, Keonjhar, vide No: 2(C)CC-8/2014 for violating the E (P) Act, 1986. PP submitted the court case is under sub-judice.

**20.** The Project Proponent submitted that Ecological Damage Assessment done for FY 1994-95 to 2006-07 and Central Empowered Committee (CEC) considered the violation period from 2000-01 to 2010-11 for calculating Notional Value of Violation Production. Ecological Damage Assessment has been done for total violation production of 16,61,198 tonnes (iron ore) and 28,873 tonnes (Manganese ore). Mining of Manganese ore from Dubna ML started in 1989-90 and for excess production of manganese ore, no additional area was broken in comparison to the status of 1993-94. Mining of Iron ore from Sakradih ML started in 1996-97 over 10.28 ha (non-forest land) till 2006-07. Damage due to utilization of 10.28 ha of non-forest land for mining has been for ecological damage assessment. Highest excess production of ~ 7,058 tonnes (Mn) and 3,39,850 tonnes (Fe) was during FY 2005-06. The worst case AQI during violation was under satisfactory range, where minor breathing discomfort to sensitive people is envisaged. PP reported that Deepest quarry level (during violation) = 559m AMSL [Manganese quarry (Deposit-7)] and Ground water table found to be in the range of 410 – 418 m AMSL (which is 141m - 149m below the UPL) and Ground water table was not intersected due to mine working during violation production. No ground water has been used for the mine during violation period. Additional SW used for excess violation production. PP also reported that Ground Water quality recorded in Dec. 2005 (earlier EIA/EMP study) at Jarpada village has been studied to assess the water quality during violation phase with max. excess production. Water quality monitored during the present EIA study (summer season 2019) represents the site condition with "No project scenario". Parameters like TDS, Turbidity, Iron, Total alkalinity and Total Hardness, which are likely to change due to mining operations are well within the desirable limit of the drinking water quality standards (as specified in IS:10500 2012, Amendment no. 1, June 2015) and thus the damage caused to GW quality during violation production may be considered as of low range. No significant damage occurred due to mining activities carried out on noise environment. PP also submitted that total amount paid against various demands (along with interest) on account of different violation(s) is Rs. 71,89,37,218/- (Seventy-one crore eighty-nine lakhs thirty-seven thousand and two hundred eighteen rupees). PP also submitted that Bank Guarantee will be submitted to SPCB, Odisha prior to the grant of EC for equivalent amount of Remediation Plan and Natural and Community Resource Augmentation Plan and Natural and Community Resource Augmentation Plan.

**Damage Remediation, Natural Resource Augmentation and Community Resource Augmentation Plans**

Sl. No.	Activity Proposed	Total (in Rs. lakh)
1.	Cost of Damage Remediation Plan	560.69

2.	Natural Resources Augmentation Plan	85.00
3.	Community Resource Augmentation Plan	276.00
<b>Total Fund</b>		<b>921.69</b>

#### Damage Remediation Plan

Parameters	Activity Proposed	Yr. 1	Yr. 2	Yr. 3	Total
		Lakh	Lakh	Lakh	Lakh
Air & Noise Environment	Additional Health Camps to monitor the pulmonary diseases, ENT, Diabetes and Hypertension health status of nearby villages (10 villages x 2 Camps/Year @ Rs 1.5 lakh for 3 years)	30	30	30	90
	Road Sweeping Machine for the main road carrying mineral upto Nayagarh railway siding (2 Machines @ Rs 50 lakh)	100	-	-	100
<b>Total Air Environment</b>		<b>130</b>	<b>30</b>	<b>30</b>	<b>190</b>
Water Environment	Construction of series of check dam (10 nos. @ 36 lakhs) to arrest silt and sediment load on drainage channels (viz. Jalpa nadi, Dalaki nala) leading to Baitarini river.	120	120	120	439
<b>Total Water Environment</b>		<b>120</b>	<b>120</b>	<b>120</b>	<b>360</b>
Biological Environment (Flora & Fauna)	Plantation in nearby villages along community buildings & barren lands (10 villages); in addition to the plantation scheme proposed in the EIA/EMP report.	4	4	2	10
<b>Total Biological Environment</b>		<b>4</b>	<b>4</b>	<b>2</b>	<b>10</b>
<b>Total Fund for Damage Remediation Measures</b>		<b>254</b>	<b>154</b>	<b>152</b>	<b>560</b>

#### Natural Resource Augmentation Plan

S.No.	Activity Proposed	Yr. 1	Yr. 2	Yr. 3	Total
		Lakh	Lakh	Lakh	Lakh
1	Drinking Water Facility (Construction of bore wells) in 10 villages (2 borewells per village @ 1 lakh)	10	5	5	20
2	Construction of recharge ponds in buffer zone villages for ground water recharge. (4 ponds of size 40m X30m) @ 10 lakhs	15	15	10	40
3	Rainwater Harvesting in township, de-silting/dredging of ponds, wells etc. in nearby villages	10	10	5	25
<b>Total Fund for Damage Remediation Measures</b>		<b>35</b>	<b>30</b>	<b>20</b>	<b>85</b>

#### Community Resource Augmentation Plan

S.No.	Activity Proposed	Yr. 1	Yr. 2	Yr. 3	Total
		Lakh	Lakh	Lakh	Lakh
<b>1.</b>	<b>Peripheral Development Works:</b>	<b>67</b>	<b>67</b>	<b>67</b>	<b>201</b>
i)	Agricultural structure (LI points) and support-(seed, fertilizer, training). Handibhanga, Jamapani, Dubuna, Kotupali, Purunadihi, Naibuga, Basantapur, Pidapokhari, Kaijoda)	15	5	10	30
ii)	Community toilet- Basantpur weekly market and High school, Handibhanga, Kalimati bus stand & market, Dubuna weekly market), Pidapokhari, Kotupali, Naibuga, Purunadihi, Jampani	15	10	5	30
iii)	Transformer- Chudisahi, Jamapani and Kotupali village	3	0	0	3
iv)	Support and training of Self help Group-Handibhanga, Pidapokhari, Jamapani, Dubuna, Purunadihi, Naibuga, Sardhapanka, Khajuridihi, Basantapur, Kotupali, Kalimati	5	10	15	30
v)	Dubuna and Basantapur weekly market development to support agribusiness and local vendors	8	10	2	20
vi)	Bathing ghat- Handibhanga, Jamapani, Dubuna, Naibuga, Pidapokhari, Basantapur, Kaijoda, Kotupali, Khajuridihi, Kalimati, Purunadihi	0	10	10	20
vii)	Development of worship and cultural place - Handibhanga, Kalimati, Naibuga, Pidapokhari, Kaijoda, Basantpur, Purunadihi	6	15	18	39
viii)	Solid waste treatment facility for both Basantpur and Kalimati Panchayat	15	7	7	29
<b>2.</b>	<b>Support for establishment and operation of a Sports Academy (Archery, shooting, swimming, athletics, cycling, boxing &amp; Hockey).[in nearby villages Kalimati, Kotupali, Basantpur]</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>30</b>
<b>3.</b>	<b>Support for establishment of 5 skill development centers for peripheral villages (Pidapokhari, Handibhanga, Dubuna, Naibuga, Basantapur) and corpus for sustainability of educational initiatives.</b>	<b>48</b>	<b>36</b>	<b>36</b>	<b>120</b>
<b>4.</b>	<b>Providing study materials, Science Lab equipments, setting up computer lab, text books for school library to (Gupteswar Highschool, Purunadihi, Basantpur Highschool, Basantpur, UGME school, Pidapokhari, UGME school, Naibuga, Kotupali</b>	<b>5</b>	<b>-</b>	<b>-</b>	<b>5</b>

	UP school)				
5.	Distribution of Community Solid waste collection bins and construction of compost pits in 10 villages. (Purunadihi, Naibuga, Kalimati, Jamupani, Handibhanga, Dubuna, Basantapur, Pidapokhari, Kotupalli, Sardapanka, Kriyakudar)	5	5	2	12
<b>Total Fund for Damage Remediation Measures</b>		<b>95</b>	<b>93</b>	<b>88</b>	<b>276</b>

**21. Details of the EMP:**

Sr. No.	Activities	Recurring cost (Lakhs Rs./year)	Capital cost (Lakhs Rs.)
<b>1.</b>	<b>Pollution Control measures</b>		
a.	Dust Suppression (2 water Tankers) and fixed water sprinklers on main haul road.	20	<sup>a</sup> 50
b.	Road sweeping machine (2 Nos.)	20	50
c.	Engineering structures for waste dump management	20	200
d.	Engineering structures for surface run-off management	10	100
<b>2.</b>	<b>Environmental Monitoring</b>	<b>10</b>	<sup>b</sup> Nil
<b>3.</b>	<b>Occupational Health &amp; Safety</b>	<b>06</b>	<sup>c</sup> 05
<b>4.</b>	<b>Green Belt Development / Plantation</b>	<b>14</b>	<b>25</b>
	<b>Total</b>	<b>100</b>	<b>430</b>

**Note:**

a = Provision of two tankers kept.

b = Environmental monitoring work shall be outsourced to accredited consultants.

c = Procurement of safety appliances

**22.** The Project Proponent submitted that Dubna-Sakradihi Iron & Mn ore mine stopped mine operation since 2006 and hence the status of compliance of recommendations of CSIR-NEERI on carrying capacity study for Environmentally Sustainable Iron & Mn ore Mining Activity is not applicable. PP submitted an undertaking vide Lr No Nil that the PP will comply with the applicable stipulated conditions of the CSIR-NEERI on carrying capacity study once the mine resumes operation.

**23.** The Project Proponent submitted an undertaking vide Lr No Nil that the contents (information and data) as given by the Consultant (MECON) in the EIA report are factually correct with full knowledge of the undersigned. The Consultant submitted the Certificate of Plagiarism Check dated 06.11.2021 that no unethical practices, plagiarism involved in carry out the work and external data/text has not

been used without proper acknowledgment while preparing the EIA report and certified that the EIA Report produced in accordance with good scientific practice.

24. The Project Proponent submitted that the estimated project cost is Rs. 914.52 crores. PP reported that the project will provide employment to 599 persons.

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

The proposal for Environmental Clearance (Violation) was 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 (M/s MECON Limited), the Committee noted that the Consultant could not able to bring out actual facts and also the performance of the Consultant is not satisfactory. Committee also noted that in the ToR letter dated 27.05.2019, recommendation of CSIR-NEERI report on “Carrying capacity study for Environmentally Sustainable Iron and Manganese ore mining activity in Keonjhar, Sundargarh and Mayurbhanj districts of Odisha State” was prescribed. But during the meeting the consultant was presenting that the CSIR-NEERI report on “Carrying capacity study is not applicable in the instant proposal, which indicates the serious unprofessional behaviour of the such NABET approved consultant and misleading the Committee stating that CSIR NEERI conditions are not applicable to this project. Therefore, the Committee was of the view that Ministry should take appropriate action against the consultant and **deferred** the proposal for want of following additional information:-

- i. The Committee noted that the Public hearing was presided and proceedings were signed by Shri Bishnu Prasad Acharya, Project Director, DRDA, Keonjhar. Hence, PP needs to submit the letter from the State Pollution Control Board, Odisha clarifying whether the public hearing in the instant proposal was presided and signed by the District Magistrate/District collector/Deputy Commissioner or his/her representative not below the rank of an Additional District Magistrate as per EIA Notification 2006 or not?
- ii. The Project Proponent needs to revisit the ecological damage assessment carried out for air environment and agriculture considering the methodology and rates prescribed by EEA. The Project Proponent shall revise the damage assessment for non/partial provision of surface water management structures like garland drains, toe drains, toe walls, check dams, settling tanks etc., for quantification. PP shall also include the non-provision of rain water harvesting structures within ML area for damage assessment. The Project Proponent shall include the period for not undertaking the plantation in safety zone and other areas for ecological damage assessment. The EMP budget and the cost saved shall be re-visited.
- iii. The Project Proponent needs to revise the Land Use/Land Cover classification of the mine lease area and surface features like roads, nallah/

streams, existed in the area should be shown on historical imagery during the pre mining operation and the current status.

- iv. The Project Proponent in a view of protection of forest conservation, PP should explore the possibility of mining in already excavated area by going further deepen instead of mining in virgin area during plan period of 2020-21 to 2024-2025.
- v. The Project Proponent needs to justify that why no beneficiation was envisaged in this instant proposal.
- vi. The Project Proponent submitted that the total lease area was surveyed by DGPS by ORSAC and computed the total area as 1331.549ha. While vetting the surveyed map, ORSAC has certified that the surveyed data is within 95% of the confidence level. The differential area of 0.47 ha is within 5% of the permissible limit as per the ORSAC. Hence, the PP needs to submit the letter from the State Government mentioning the details of survey and the exact mine lease area.
- vii. The extent of area to be broken till the year 2029 as per the revised mine plan shall be re-visited and accordingly mine plan till conceptual stage shall be revised and approved by the IBM.
- viii. The Project Proponent needs to revise the Wildlife Conservation Plan indicating the elephant migratory routes and corridors with identified impacts and suitable mitigation measures and budget.
- ix. The Project Proponent needs to submit the water balance for pre-monsoon and post-monsoon season.
- x. The Project Proponent shall revise the budget of public hearing concerns raised by the public with a timeline of 3 years from the date of start of mining operations. PP shall allocate 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.
- xi. The NEERI Conditions prescribed in the ToR letter dated is applicable to the project, hence Project Proponent needs to submit the compliance status of the recommendation of CSIR-NEERI report on carrying capacity study and commitment complied to till date with compliance schedule.
- xii. The Project Proponent needs to submit the Compliance of earlier CTO issued by the State Pollution Control Board.

- xiii. The Project Proponent needs to submit the copy of supplementary lease deed executed for both Iron and Manganese ore.
- xiv. The Project Proponent needs to submit the all the analysis/testing reports of water, air, soil, noise, etc. using the MoEF&CC/NABL accredited laboratories.
- xv. The Project Proponent needs to submit the copy of the Temporary Working Permission granted vide letter no. F.No.8-135/2006-FC dated 16<sup>th</sup> July 2008.

**2.2 Proposal for Environmental Clearance of M/s. RCCPL Private Limited for Itoura Limestone mine with production capacity of 0.8 MTPA, Waste/Reject: 0.51 MTPA, Topsoil: 0.09 MTPA (Total excavation - 1.4 MTPA) in the mine lease area of 747.817 ha, located at Villages Itoura, Bachwai, Karhi Pawai, Giduri, and Rewra, Tehsil Raghuraj nagar, Satna District, Madhya Pradesh – [File No: J-11015/16/2019-IA.II(M), Proposal No: IA/MP/MIN/101792/2019, Consultant: M/s Vimta Labs Ltd] - Environmental Clearance (EC).**

**EAC Meeting Details:**

EAC meeting	42 <sup>nd</sup>
Date of Meeting	30 <sup>th</sup> November – 3 <sup>rd</sup> December, 2021

The proposal of M/s. RCCPL Private Limited is for grant of Environmental Clearance for Itoura Limestone mine with production capacity of 0.8 MTPA, Waste/Reject: 0.51 MTPA, Topsoil: 0.09 MTPA (Total excavation - 1.4 MTPA) in the mine lease area of 747.817 ha, located at Villages Itoura, Bachwai, Karhi Pawai, Giduri, and Rewra, Tehsil Raghuraj nagar, Satna District, Madhya Pradesh. The mine lease area is located between Latitude 24°34'44.65" N - 24°36'50.87" N and Longitude 80°44'22.98" E - 80°47'45.92" E. The mine lease falls under the Survey of India Toposheet No: G44 U10 and G44 U14 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 (PP) has made an online application for grant of Environmental Clearance vide proposal no: IA/MP/MIN/101792/2019 dated 10.11.2021 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 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 Terms of References (TOR) are furnished as below:**

Date of application	Proposal No	Consideration	Details	Date of accord
10.04.2019	IA/MP/MIN/101792/2019	May 29-30, 2019	Production capacity of 0.8 MTPA, Waste/	09.07.2019



			Reject: 0.51 MTPA, Topsoil: 0.09 MTPA (Total excavation - 1.4 MTPA) in the mine lease area of 747.817 ha	
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**4. Details of Mine lease:**

S.no	Lease particulars	Date of the grant	Name of the Mineral	Period of Grant	Granted by	Mine lease area in Ha
1	Letter of Intent vide letter no. F 3- 35/2010/12/ 1 in the name of M/s Reliance Cement Company Private Limited	03.01.2018	Limestone	50 years	Government of Madhya Pradesh	747.817
2	Name change of the company from M/s Reliance Cement Company Private Limited to M/s RCCPL Private Limited vide order no F 3-35/2010/12/1	14.03.2019	Limestone	-	Government of Madhya Pradesh	747.817
3	Grant of mining lease letter no. F.3-35/2010/ 12/1	25.09.2020	Limestone	50 years	Government of Madhya Pradesh	747.817

**5. 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.	25.09.2020	24.09.2070	ML deed executed on 12.11.2020 and registered on 27.11.2020

**6. Mining plan details:**

Mining Plan including Progressive Mine Closure Plan approved by Indian Bureau of Mines	Letter No.	MP/Satna/Limestone/MPLN/G-06/19-20, 3661
	Date	27.11.2019
	Mineral	Limestone
	Mine lease area	747.817 ha
<b>Mining Parameters</b>		<b>Quantitative Description</b>
Method of Mining	Fully mechanized opencast	
Bench Height	6 m	
Bench Width	Minimum working bench width would be maintained as 20-30 m	
Mineable Reserve	47.59 million Tonnes	
Extractable Reserve	38.07 million Tonnes	
Life of mine	50 years	
Individual bench slope	80 <sup>o</sup>	
Overall pit slope	45 <sup>o</sup>	
Drilling/Blasting	Drilling and blasting will be carried out for excavation of OB and limestone. For limestone, 115 mm to 150 mm size drills will be used for drilling. Crawler mounted hydraulic excavator with bucket capacity of 2.6 m <sup>3</sup> capacity will be used for loading. Shovel combination with 30 – 60 tonne capacity dumpers or 18 tonne capacity tippers will be used to transport the blasted material from the face to dump area and crusher.	
RoM output size	600 mm	
Transportation details	The ROM limestone will be crushed before being dispatched to the cement plant. Till the installation of crusher, sized limestone will be transported to cement plant for captive use. The limestone after processing will be dispatched to own cement plant of the RCCPL Pvt. Ltd. at Bharauli for captive use. It is proposed to transport the limestone up to the cement plant by tipper trucks through road.	
Dumper's capacity	18 tonne	
Topsoil	During five-year plan period, about 1,38,422 m <sup>3</sup> of top soil will be generated which will be used for preparing protective bund. During conceptual period, total of 2.84 million m <sup>3</sup> top soil will be generated. No dumping has been proposed at the conceptual stage. No dump will remain at end. The soil/ reject/ sub-grade dump spread over 5.80 ha will be re-handled and used for the backfilled area at the conceptual period.	
OB/Waste	During the first five-year plan period, about 6,14,932 m <sup>3</sup> of OB/waste will be generated and up to conceptual period 11.31 million m <sup>3</sup> OB will be generated. The generated OB / waste material will be used for preparation of ramp to crusher,	

	platform of crusher in area 100 m x 100 m and stacking yard of sweetener at top of crusher and finally utilized for backfilling the mined-out pit or other market requirement.
Depth of mining	27 m (first five years), 39 m (for entire life of the mine)
Ground water intersection	The mining operation intersects water table after mine workings are beyond 6.0 m bgl during monsoon and 12.5 m bgl during non-monsoon. There will be ground water inflow into mine pit during monsoon period in the 2 <sup>nd</sup> year onward.
Permission	PP submitted that the application for obtaining NOC vide No. 21-4/1123/MP/MIN/2021 dated 29.04.2021 which is under progress.

### 7. Land Area Breakup:

Private land	547.534 ha
Government land	200.283 ha
Total Mining lease area (MLA)	747.817 ha
Private land for crusher, workshop & other infrastructure outside the MLA	Nil

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

Particulars	Particular's Name	Distance & Direction
Nearest Town	Satna	2.0 km, ESE
Nearest Highway	NH-75 Panna Khajuraho Road	140 m, S
Nearest Railway station	Satna	4.1 km, ESE
Water bodies	Satna River	Adjacent, SW to ML boundary

### 9. Water requirement:

Total water requirement	183.0 KLD	Dust Suppression & Crusher	135.0 KLD
		Green belt/ Plantation	36.0 KLD
		Domestic	4.0 KLD
		Workshop	8.0 KLD
Source	Initially from bore wells and in later stages from mine pit		
Permission	NOC Application vide 21-4/1123/MP/MIN/2021 dated 29.04.2021 which is under progress.		

10. The Project Proponent reported that there is no forest land involved in the mine lease area. PP submitted the letter regarding the same issued by the Deputy Conservator of Forest vide Lr No Mach/2489, Satna dated 04.03.2021. PP also

reported that 1 (one) Mauhar protected forest (PF) exists at a distance of 8 km, SE from ML boundary. Further, PP submitted that there are no Wild Life Sanctuaries, National Parks, Elephant/Tiger Reserves within 10 km of the mine lease area. PP also submitted the letter vide Lr No Machi/2486, Satna dated 04.03.2021 regarding the same along with the authenticated map.

**11.** The Project Proponent reported that there is one Schedule I species such as Pea fowl found in the study area. PP submitted the authenticated list of flora and fauna vide Lr No Machi/2488, Satna dated 04.03.2021. PP also submitted that Peacock Conservation Plan has been submitted for approval.

**12.** The Project Proponent reported that proposed area for green belt/plantation will be 289.32ha (38.7% of total ML area). PP also submitted that 143.78ha of backfilled area will be used for plantation. PP earmarked a budget of Rs 4.042 Cr as Capital cost and Rs 0.485 Cr as recurring cost/annum towards development of greenbelt/plantation.

**13. 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. The Monitoring results of ambient air, surface water, soil, ambient noise and ground water for the month of December, 2018 to February, 2019 have been reported and no major divergence was observed with respect to concentration values of various parameters of collected samples.

Baseline Data (Air / Water / Noise / Soil / Ground water table/ others)					
Period of baseline data collection			December, 2018 to February, 2019		
Season (Summer / Pre-monsoon / Post-monsoon / Winter)			Winter		
Period	Results of Baseline monitoring				
AAQ parameters at 9 locations	Pollutant	Min, $\mu\text{g}/\text{m}^3$	Max, $\mu\text{g}/\text{m}^3$	98 %ile, $\mu\text{g}/\text{m}^3$	Standard, $\mu\text{g}/\text{m}^3$
	PM2.5	19.4	37.6	30.1	60
	PM10	31.4	54.5	44.7	100
	SO2	10.8	15.6	14.1	80
	NOx	13.8	20.5	17.6	80
AAQ modelling (Incremental GLC)	Pollutant	Baseline Concentration, $\mu\text{g}/\text{m}^3$	Incremental Concentration, $\mu\text{g}/\text{m}^3$	Total GLC, $\mu\text{g}/\text{m}^3$	Standard
	PM2.5	37.6	3.1	40.7	60
	PM10	54.5	9.6	64.1	100
	SO2	15.6	0.1	15.7	80
	NOx	20.5	2.8	23.3	80
Noise level at 8 locations	Day Time: 41.4 to 49.5 Leq dB (A) Night Time: 38.4 to 45.9 Leq dB (A)				

Surface water quality at 2 locations	pH varied from 7.5 to 7.6, EC ranged between 570 µS/cm to 682 µS/cm, Dissolved Oxygen (5.6 mg/l to 5.8 mg/l), BOD observed in the range less than 3 mg/l. TH (162.8 mg/l to 195.1 mg/l). The physico-chemical and biological analysis revealed that most of the parameters are well within the permissible limits as per IS: 2296. The surface water quality does not indicate any industrial contamination.
Ground water quality at 8 locations	pH varied from 7.0 to 7.6, EC ranged between 610 µS/cm to 1188 µS/cm, TH (161.5 mg/l to 309.1 mg/l), TDS (408 – 716.3 mg/l). All the parameters are found to comply with the requirements of IS: 10500:2012.
Soil quality at 8 locations	As per the physical data soils are fine texture, having low bulk density, imperatively high water holding capacity, and slow permeability. As per chemical characters soil reaction (pH) soils are neutral to moderately alkaline and electrical conductivity (EC) is non saline (normal). Organic matter is very low to low. Macro nutrient like nitrogen is very low to low and phosphorus is sufficient, potassium is very low to low, calcium, magnesium are high and base saturation is high. Sodium is below the limit to make soil saline or sodic or alkali. Micro-nutrients, Mn (moderate to high), Zn (low to medium), and B (low), Fe (v.low) Al (v.low), SO <sub>4</sub> and Cl are normal to high. As per analysis of soils data and field observation the land can be classified as class IIe and IIIe land i.e. moderate to Good soils on plain to gentle slopes subject to water erosion, as per land capability classification (USDA) i.e. good land for sustained agriculture.
Traffic study	The traffic density study carried out at Sohawal, [SH-39] (To & Fro), SH-11, [SH-11] (To & Fro), Unchehara [SH-11] (To & Fro) and Maihar [SH-11] (To & Fro) passing through transportation route from mine site to cement plant site for 24 hrs. The total traffic load after implementation of the mining project will be well within the IRC stipulated maximum load of 15,000 PCU/day for a two-lane highway. As per the standards by IRC for traffic capacity of the roads and it was observed that the existing road network will be adequate.

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

Advertisement for PH with date	Hindi newspaper namely "Patrika", "Nava Swadesh" and "Madhya Pradesh Jansandesh" dated 16.07.2021
Date of PH	18.08.2021
Venue	Govt. Primary School, Village Rewra, Tehsil Raghurajnagar, District Satna
Chaired by	Additional District Collector
Main issues raised during PH	Employment, CSR activities, environment measures, welfare measures and compensation to be paid for land

Budget proposed for addressing issues raised during PH	EMP – Capital Rs 12.98 Cr and recurring cost Rs 1.903 Cr CSR – Rs 25 lakh
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**15.** The Project Proponent reported that there are 1768 Project Affected Families (PAFs). There will be no displacement involved. Land will be purchased on private negotiations through mutual consent. Compensation will be in compliance to “The Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement (Madhya Pradesh) Rules, 2015”.

**16. Court case details**

Court Case	There is no any Court Cases pending against the project and/or land in which the project is proposed to be set up
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**17.** The Project Proponent submitted the undertaking by way of affidavit dated 21<sup>st</sup> May, 2019 as per the Ministry’s OM dated 30.05.2018 stating that M/s RCCPL Private Ltd shall comply with all the statutory requirements and judgement of Hon’ble Supreme Court dated 2nd August 2017 in the matter of Common Cause Vs Union of India & Ors in Writ Petition (Civil) No. 114 of 2014. The Consultant submitted an undertaking vide dated 10.11.2021 that M/s Vimta Labs Limited has complied with all the prescribed Terms of Reference (ToR) issued vide Lr No. J-11015/17/2019-IA.II(M) dated 09.07.2019. The Consultant also submitted the Plagiarism Certificate checked on 10.11.2021 and the Head of the Accredited Consultant Organization/ Authorized person certified that “this EIA Report has been evaluated using online software i.e., Plagiarism Detector (Licensed Version). 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”.

**18. Details of the EMP:**

S. No.	Summary of EMP	Cost of EMP (Rs. In Crores)	
		Capital Cost	Recurring Cost Per Annum
A	Air environment	2.280	0.904
B	Water environment	5.265	0.480
C	Noise and ground vibration	0.110	0.010
D	Soil and waste dump management	0.166	0.024
E	Plantation & Green belt	4.042	0.485
F	Others	1.117	0.000
	<b>Grand Total</b>	<b>12.980</b>	<b>1.903</b>

**Break up of EMP:**

S No.	A. AIR ENVIRONMENT	Cost of EMP (Rs. In Crores)	
		Capital Cost	Recurring Cost per Annum
1	APCE at crusher & conveying system	1.030	0.684
2	Dust suppression system at crusher	0.050	0.005
3	Mobile water sprinklers	0.500	0.150
4	Mist canons on haul road	0.150	0.020
5	Continuous Ambient Air Quality Monitoring Systems (CAAQMS, AAQMS & Meteorology)	0.550	0.045
	<b>TOTAL OF AIR ENVIRONMENT</b>	<b>2.280</b>	<b>0.904</b>
Sr.No.	B. WATER ENVIRONMENT	Cost of EMP (Rs. In Crores)	
		Capital Cost	Recurring Cost per Annum
1	Garland drains along mine pit	0.787	0.157
2	Settling ponds	0.240	0.048
3	Embankment design & construction	3.888	-
4	ETP (Oil and grease trap for workshop wastewater)	0.200	0.025
5	STP (Sewage treatment for domestic wastewater)	0.100	0.200
6	Installation of water meter and piezometer	0.050	-
7	Periodic monitoring of water quality	-	0.050
	<b>TOTAL OF WATER ENVIRONMENT</b>	<b>5.265</b>	<b>0.480</b>
Sr.No.	C. NOISE & GROUND VIBRATION ENVIRONMENT	Cost of EMP (Rs. In Crores)	
		Capital Cost	Recurring Cost per Annum
1	Periodic noise monitoring	0.010	-
2	Controlled blasting monitoring for vibration	0.100	0.010
	<b>TOTAL OF NOISE &amp; GROUND VIBRATION</b>	<b>0.110</b>	<b>0.010</b>
Sr.No.	D. SOIL & WASTE DUMP ENVIRONMENT	Cost of EMP (Rs. In Crores)	
		Capital Cost	Recurring Cost per Annum
1	Garland drain along dump	0.096	0.019
2	Toe wall along dump	0.070	-
3	Stabilisation	-	0.005
	<b>TOTAL OF SOIL ENVIRONMENT</b>	<b>0.166</b>	<b>0.024</b>
Sr.No.	E. PLANTATION & GREEN BELT DEVELOPMENT	Cost of EMP (Rs. In Crores)	

		<b>Capital Cost</b>	<b>Recurring Cost per Annum</b>
1	Green belt along safety barrier	2.530	0.304
2	Plantation in back filled area	1.512	0.181
	<b>TOTAL OF PLANTATION</b>	<b>4.042</b>	<b>0.485</b>
Sr.No.	F. OTHER EMP MEASURES	<b>Cost of EMP (Rs. In Crores)</b>	
		<b>Capital Cost</b>	<b>Recurring Cost per Annum</b>
1	Construction of toilet block in all 5 villages	0.266	-
2	Roof rain water harvesting in all 5 villages	0.851	-
	<b>TOTAL OF OTHERS</b>	<b>1.117</b>	<b>0.000</b>

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

<b>Particulars</b>	<b>(Rs. In Crore)</b>
Capital Cost for Environment Protection	Rs. 12.980
Budget for addressing the Public Hearing issues	EMP – Capital 12.98 and recurring 1.903 Crores CSR – 25 lakh
Total Cost for EMP	Rs. 12.980
Recurring Cost for EMP	Rs. 1.903
Project Cost	Rs.240 Crores
Employment	75 nos.

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

The proposal for Environmental Clearance was 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 additional information: -

- i. 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.
- ii. The Project Proponent needs to revise the noise modeling in such a way that modeling includes the anticipated noise levels due to all mining activity at line source, point source and area source and their incremental and resultant noise level at their mine lease boundary and nearby receptors along with the distance. PP should also submit the calculation, methods and reference used for noise modeling.



- iii. The Committee noted that Rewra village is within the mine lease area and the anticipated PPV, mm/s presented by the PP during the meeting exceeds the permissible limits prescribed by DGMS. Hence, the PP needs to submit the revised mathematical modeling for anticipated ground vibration due to blasting with controlled measures. PP needs to provide the details of the nearest village/structure, nearest distance from the blasting zone, quantity of explosives used, kg and PPV, mm/s. The results are to be compared with the limiting values prescribed by Director General of Mine Safety (DGMS).
- iv. The Project Proponent should revise the Conceptual plan along with map for proposed mining with reclamation plan and the same needs to be submitted in the EIA/EMP report.
- v. The Project Proponent should increase the capacity of the tipper with a view to reduce the no. of trips and accordingly PP should revise the transportation plan and incorporate in the EIA/EMP report.
- vi. The Project Proponent needs to submit the engineering design for garland drains, check dams, check filters and embankment and its efficacy to mitigate the potential impact and protection of Satna River (Adjacent, SW to ML boundary).
- vii. The Project Proponent needs to submit the water management plan and its action plan for utilization of creation of water body of 189.64ha for benefit of the agriculture, local people and community use.
- viii. The Project Proponent shall undertake the adequate plantation in peripheral area and safety zone with the sapling of 10 ft height having at least 90% survival rate with a spacing of 2 x 2m and the plantation shall be completed within 3 years from the start of mining operations. Density of the plantation shall be 1500-2000 plants/ha. 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.
- ix. 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.

- x. The Project Proponent shall revise the action plan for public hearing concerns raised by the public with a timeline of 3 years from the date of start of mining operations. PP shall allocate 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.
- xi. The Project Proponent should submit list of Schedule I species present in the study area duly authenticated by PCCF. The Project Proponent should submit the Approval of Wildlife Conservation Plan.
- xii. The Project Proponent needs to submit the copy of Grant of mining lease issued vide Lr no. F.3-35/2010/ 12/1 dated 25.09.2020. Also, the PP needs to submit the copy of Letter obtained from Department of Mines and Geology, Government of Madhya Pradesh as shown by PP during the meeting regarding presence of another lease area.

**2.3 Proposal for Environmental Clearance of M/s. UltraTech Cement Ltd for Paraswani Limestone Mine (ML Area- 997.355 ha) with Expansion in Limestone Production Capacity from 4.2 Million TPA to 10.0 Million TPA and 7.1 Million TPA OB, Sub Grade, Mineral Rejects and Top Soil generation (Total Excavation: 17.1 MTPA) with One Existing Crusher of 1250 TPH Capacity & One Proposed Additional Crusher of 1800 TPH Capacity and Installation of new conveyor belt (length 1600 m) from pit to the plant at Villages: Hirmi, Paraswani, Bardih, Phunderdih & Saklore, Tehsil: Simga, District: Baloda Bazar-Bhatapara, Chhattisgarh – [File No: J-1101/55/2012-IA-II(M), Proposal No: IA/CG/MIN/19354/2013, Consultant: M/s J.M. EnviroNet Pvt. Ltd] - Environmental Clearance (EC)**

**EAC Meeting Details:**

EAC meeting	42 <sup>nd</sup>
Date of Meeting	30 <sup>th</sup> November – 3 <sup>rd</sup> December, 2021

The proposal of M/s. UltraTech Cement Ltd is for grant of Environmental Clearance for Paraswani Limestone Mine with Expansion in Limestone Production Capacity from 4.2 Million TPA to 10.0 Million TPA and 7.1 Million TPA OB, Sub Grade, Mineral Rejects and Top Soil generation (Total Excavation: 17.1 MTPA) with One Existing Crusher of 1250 TPH Capacity & One Proposed Additional Crusher of 1800 TPH Capacity and Installation of new conveyor belt (length 1600 m) from pit to the plant in the mine lease area of 997.355ha at Villages: Hirmi, Paraswani, Bardih, Phunderdih & Saklore, Tehsil: Simga, District: Baloda Bazar-Bhatapara, Chhattisgarh. The mine lease area is located between Latitude 21°30'52.67"N to 21°32'59.26"N and Longitude: 81°56'27.50"E to 81°59'7.59"E. The mine lease area falls under the Survey of India Toposheet No: F44P14 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. UltraTech Cement Ltd has made an online application vide IA/CG/MIN/19354/2013 dated 20.08.2021 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 and 2(b) Mineral Beneficiation under Category “A” of the schedule of the EIA Notification, 2006 as the mining lease area is greater than 100 ha and appraised at Central level.

3. 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 wherein the Committee noted that the Terms of Reference vide No. J-11015/110/2018-IA.II(M) dated 19.11.2018 was granted for 1 (a) Mining of Minerals and 2(b) Mineral Beneficiation, but PP has applied only for 1 (a) Mining of Minerals for grant of EC. During the presentation PP informed that the proposal involves Mineral Beneficiation (Crusher with Wobbler & Screen) and EIA/EMP report has been prepared for both mining and mineral beneficiation but due to technical issue in PARIVESH, Category 2(b) Mineral Beneficiation is not appearing in FORM-II. The Committee was of the view that as proposal involves both the Category 1 (a) Mining of Minerals and 2(b) Mineral Beneficiation, the same needs to be reflected in public domain i.e., PARIVESH Portal, hence PP should consult the NIC team of the Ministry and resolve the issue. The Committee therefore deferred the proposal. Accordingly, PP has resolved the technical issue with the NIC team of the Ministry and now the proposal involves both the Category 1(a) Mining of Minerals and 2(b) Mineral Beneficiation which is reflected in PARIVESH.

4. Then, the proposal was again considered in the 38<sup>th</sup> EAC (Non-Coal) meeting held during 29<sup>th</sup> – 30<sup>th</sup> September, 2021. After detailed deliberations made by the Project Proponent and the Consultant, the Committee noted that the CECB, Raipur filled a Criminal petition (No 1985/2005) with CJM Court, Raipur as per MoEF&CC letter bearing no. J-11015/69/2003-IA.II(M) dated 07.07.2005 and J-15012/29/2002-IA-II(M) dated 08.07.2005 for expansion of limestone mining capacity without taking Environmental Clearance and the case was dismissed as no such crime was proved against the accused which could be constructed as ground to penalize the accused. Further, PP also submitted that Show cause notice was issued by the Office of the Collector (Mineral Department), Balodabazar on 07.07.2018 as per Hon'ble Supreme Court order dated 02/08/2017 in Writ Petition (Civil) No. 114/2014 wherein it was alleged that for the years 2000-01 to 2002-03 and 2004-2005 to 2006-2007, 7278850 tonnes of mineral produced in violation of EC and Water/Air Consents and instructions were given to deposit Rs. 92,61,18,411.3 as compensation. PP submitted the reply on 28.07.2018 in respect of the said notice which is under consideration with District Mining Office, Balodabazar. PP obtained NOC from Office

of Collector (Mineral Branch), BalaodaBazar, Bhatapara, Chhattisgarh vide letter no./3586/Khali/Teen1/2021, BalodaBazar, dated 24.02.2021 issued on the condition that the Hon'ble Supreme Court has issued Writ Petition (Civil) No. 114/2014 in compliance of the decision passed, dated 2/8/2017, if any mineral revenue or fine is found to be recoverable, it will be mandatory to deposit. The Committee also noted that the PP already operating Crusher of 1250 TPH Capacity and proposed one additional Crusher of 1800 TPH Capacity wherein the EMP does not specifically mention the efficacy of current noise level generated at the crusher and looking at the proximity of the village. The Committee observed that the type and size of the equipment is not properly commensurate to the expansion proposed. Therefore, the Committee deferred the proposal for want of following requisite information: - (i). The Project Proponent needs to submit the actual monitoring data of noise and ground vibration at the crusher and the nearest immediate receptor in the direction of the village for existing facility and use the data to quantify the potential impacts due to new crusher proposed. PP should also submit the protection measures taken for noise and ground vibration in view of the proximity of the village and one additional Crusher of 1800 TPH capacity proposed. (ii). Since one more crusher is proposed of capacity 1800 TPH as well EMP budget of Capital cost increased from Rs 158.84 Lakhs to 382.57 Lakhs, PP must do validation of earlier crusher with the performance of noise and air control equipment's and after validation by actual monitoring demonstrate the confidence level of the control measures in the new EMP proposed. (iii). The amount indicated for Noise and Vibration monitoring and Preservation in the existing EMP has not been extended to additional EMP proposed which needs to be provided for the expansion project particularly at the crusher and the cost also looks inadequate. (iv). The area of 565.658ha of water reservoir shown at the conceptual stage is more than the 50% of the mine lease area, hence PP needs to submit the action plan to reduce the area of water reservoir and also the plan for Eco restoration of top benches up to the highest HFL in last 100 years along with the budget. (v). The current status of the Show cause notice was issued by the Office of the Collector (Mineral Department), Balodabazar on 07.07.2018 as per Hon'ble Supreme Court order dated 02/08/2017 in Writ Petition (Civil) No. 114/2014 and its compliance and the status of court case. (vi). The Project Proponent submitted the Letter from Collector Office indicating NOC from Office of Collector (Mineral Branch), Balaoda Bazar, Bhatapara, Chhattisgarh vide letter no./3586/Khali/Teen-1/2021, BalodaBazar, dated 24.02.2021. Project proponent needs to submit the NOC for the same by the Department of Mines and Geology, State Government with the current status. (vii). Use of water bodies for villagers which is already practiced by PP, should be further streamlined and sustain even after the expiry of the mine lease. PP should also explore the possibility of using water body surface area for installing floating solar panels to generate solar power. (viii). The Project Proponent needs to upload all the copies of EC's/ Letter no. J-11015/69/2003-IA.II(M) dated 07.07.2005 and J-15012/29/2002-IA-II(M) dated 08.07.2005 for the said mine lease area since inception of the Mine along with show

cause notice directions issued by Ministry, if any along with all other relevant documents on Parivesh portal and (ix). The Project Proponent should explore the possibility for shifting to clean energy using electric equipment for cleaner production options to reduce the emission. The Project Proponent should submit the action plan to phase out the old equipment and switch over to electrically operated equipment's for ensuring sustainability of mining operations.

5. The Project Proponent submitted the information vide Lr No: UTCL/ENV/MUM/2021/188 dated 11.11.2021 for the information sought in the 38<sup>th</sup> EAC (Non-Coal) meeting held during 29<sup>th</sup> – 30<sup>th</sup> September, 2021 as mentioned below: -

**Point (i): The Project Proponent needs to submit the actual monitoring data of noise and ground vibration at the crusher and the nearest immediate receptor in the direction of the village for existing facility and use the data to quantify the potential impacts due to new crusher proposed. PP should also submit the protection measures taken for noise and ground vibration in view of the proximity of the village and one additional Crusher of 1800 TPH capacity proposed.**

**Reply by PP:** PP submitted that noise monitoring carried out on Activity 1 (For Existing Crusher Day Night  $L_{max}$ ,  $L_{min}$  &  $L_{eq}$  24 hrs monitoring), Activity 2 (For Proposed Crusher Day Night  $L_{max}$ ,  $L_{min}$  &  $L_{eq}$  24 hrs monitoring) and Activity 3 Existing Crusher (Isotropic in all direction 1 hr monitoring 100 m, 250 m & 500 m distance) during 18.10.2021 to 26.10.2021. PP reported that the highest predicted levels of generated noise found to be within the crusher area and well within the prescribed standards. After 100-200 m distance from crusher, noise level observed between 30-35 dB(A). After 500m distance from crusher, noise level observed between 15-20 dB(A). After 1000m distance, noise level observed between 10-15 dB(A). The receptor distance from source is approx 500 m and at this point there is no impact of crusher noise and incremental noise found to be 18.4 dB(A). Hence, after the installation of proposed crusher (1800 TPH Capacity) there will be no impact on receptor with respect of noise and noise level generated on receptors will be well within the prescribed standards for residential area. PP also reported that Ground vibrations due to existing crusher were studied at an interval of 1 m from the crusher. Vibration level is negligible/ untraceable after 6 m distance from crusher. Nearest village is Paraswani which is at 485 m distance and no vibration impact during crusher operation was observed. New proposed crusher is also same type of impact crusher and there will not be any impact of vibration due to crusher operation as proposed crusher is at a distance of 427 m from Paraswani Village. Vibration will be untraceable after 6 m. PP submitted that insulators will be provided in the crusher, use of closed acoustic systems to control the noise pollution. Earplugs/earmuffs are being/will be provided to mine workers for its utilization in high

noise levels. Regular monitoring of noise level being carried out in mine site and for nearby habitation i.e., Village Hirmi, Paraswani, Bardih, Phunderdih & Saklore. Green Belt/Plantation developed around the mining activity area, around the vicinity of the crusher and along the haul roads.

**Point (ii). Since one more crusher is proposed of capacity 1800 TPH as well EMP budget of Capital cost increased from Rs 158.84 Lakhs to 382.57 Lakhs, PP must do validation of earlier crusher with the performance of noise and air control equipment's and after validation by actual monitoring demonstrate the confidence level of the control measures in the new EMP proposed.**

**Reply by PP:** PP submitted that as per the advice of the Hon'ble EAC (Non-Coal) Committee, additional cost for the Ambient Air Quality Management has been increased from Rs. 382.57 Lakh to 389.07 Lakh. PP also submitted that the crusher was operating at a capacity of 1250 TPH with bag filter designed to handle gas flow of 67620 m<sup>3</sup>/hr, inlet dust load was 37 gm/m<sup>3</sup> whereas outlet dust concentration was 14.9 mg/Nm<sup>3</sup>. Crusher bag filter has collection efficiency 99.97% with an outlet dust concentration of 14.9 mg/Nm<sup>3</sup>. Considering the present emission levels, it is found that efficiency is adequate to handle the dust within prescribed limit/under norms.

**Point (iii). The amount indicated for Noise and Vibration monitoring and Preservation in the existing EMP has not been extended to additional EMP proposed which needs to be provided for the expansion project particularly at the crusher and the cost also looks inadequate.**

**Reply by PP:** PP submitted that earlier the cost for the Noise & Vibration Monitoring allocated for the existing activities i.e. Capital Cost Rs. 4.82 Lakh & Recurring Cost is Rs. 2.15 Lakh not provided for the additional activities. Now, as per the advice of the Hon'ble EAC (Non-Coal) Committee, the total cost has been revised from Rs. 4.82 Lakh to 9.32 Lakh (Capital Cost) & from Rs. 2.15 to Rs. 5.15 Lakh (Recurring Cost). PP also submitted that the additional cost for the total EMP (Air, Noise, Water & Miscellaneous) is Rs. 382.57 Lakh which has been now increased up to Rs. 417.57 Lakh & recurring cost has been increased from Rs. 74.44 Lakh to Rs. 96.29 Lakh.

**Point (iv). The area of 565.658ha of water reservoir shown at the conceptual stage is more than the 50% of the mine lease area, hence PP needs to submit the action plan to reduce the area of water reservoir and also the plan for Eco restoration of top benches up to the highest HFL in last 100 years along with the budget.**

**Reply by PP:** PP submitted that as per the Approved Modified Mining Plan, at conceptual stage, total excavated area will be 872.008 ha, out of which 306.35 ha will be backfilled & later on same will be rehabilitated by plantation & regrassing and remaining 565.658 ha area will be converted into water reservoir. In order to reduce

the area of water reservoir, PP proposed to reclaim by carrying out plantation on first 2 upper benches over an area of 32.68 ha. About 81,709 fruit bearing trees will be planted. Survival rate will be maintained at 90%. PP earmarked a budget of Rs. 44.93 lakh for the same @ Rs 55/ sapling. PP also submitted that remaining 532.978 ha, will be converted into water reservoir. The water reservoir created will be protected with bunds & fencing and will be developed for Community use. Beside this, at conceptual stage a dump is proposed over 13.53 ha. To increase the area of plantation & to reduce the water reservoir, re-handling of mature dump will be explored at conceptual stage based on future scenario & in consultation with statutory authorities.

**Point (v). The current status of the Show cause notice was issued by the Office of the Collector (Mineral Department), Balodabazar on 07.07.2018 as per Hon'ble Supreme Court order dated 02/08/2017 in Writ Petition (Civil) No. 114/2014 and its compliance and the status of court case.**

**Reply by PP:** PP submitted that show cause notice was issued by District Collector, (Mining Branch) BalodaBazar-Bhatapara, Chhattisgarh vide letter no. 2617/Teen-1/Ka.B.No./2018, BalodaBazar, dated 07.07.2018. PP submitted that they have replied to the show cause notice vide letter dated UTCL: HCW: MINES: KCJ: 153 dated 28.07.2018 that no violation has been done as stated. The reply is under consideration with the Department.

**Point (vi). The Project Proponent submitted the Letter from Collector Office indicating NOC from Office of Collector (Mineral Branch), Balaoda Bazar, Bhatapara, Chhattisgarh vide letter no./3586/Khali/Teen-1/2021, BalodaBazar, dated 24.02.2021. Project proponent needs to submit the NOC for the same by the Department of Mines and Geology, State Government with the current status.**

**Reply by PP:** PP submitted that in the State Govt. of Chhattisgarh all the matters related to ML Execution, Royalty, DMF, NMET, Cess etc. are dealt by Office of the Collector. Show cause notice was issued by the District Collector, Office of Collectorate (Mineral) and reply to the same was submitted by the PP vide letter dated UTCL: HCW: MINES: KCJ: 153 dated 28.07.2018 and the office of the Collector (Mineral Department), District Mining Officer has also issued the NOC pertaining to the above show cause notice vide letter no. 3586/Khali/Teen-1/2021 dated 24.02.2021. PP also submitted the request letter has been submitted to Department of Mines and Geology, State Government vide letter no. UTCL:HCW:MSL:NOC-EC:114-2021/1, dated 22.10.2021 as per the advice of the Hon'ble EAC (Non-Coal) Committee.

**Point (vii). Use of water bodies for villagers which is already practiced by PP, should be further streamlined and sustain even after the expiry of the mine**

**lease. PP should also explore the possibility of using water body surface area for installing floating solar panels to generate solar power.**

**Reply by PP:** PP submitted that water will be supplied to the nearby villages as per availability and requirement of villagers. PP also submitted that during the plan period total water available will be 14797 KLD. Out of which 4910 KLD will be used for existing mines & cement plant and remaining water will be given to the villagers as per the availability & requirement. Feasibility for floating solar panel will be explored in the area in consultation with the State Govt. & as per the Mine Closure Plan approved by IBM.

**Point (viii). The Project Proponent needs to upload all the copies of EC's/ Letter no. J-11015/69/2003-IA.II(M) dated 07.07.2005 and J-15012/29/2002-IA-II(M) dated 08.07.2005 for the said mine lease area since inception of the Mine along with show cause notice directions issued by Ministry, if any along with all other relevant documents on Parivesh portal.**

**Reply by PP:** PP submitted that Environment Clearance for expansion in limestone production capacity from 2.62 to 3.30 Million TPA was obtained vide letter no J-11015/69/2003- IA II (M), dated 11.04.2005. EC for expansion in limestone production capacity from 3.30 Million TPA to 4.20 Million TPA was obtained vide letter no. J11015/202/2005-IA.II (M), dated 16.03.2006. EC for Renewal of mining lease was obtained vide letter no J-11015/55/2012-IA.II (M) dated 02.01.2014. Amendment in EC dated 02.01.2014 was obtained vide letter No J-11015/55/2012-IA.II (M) dated 23.02.2015. PP also submitted that Letter no. J-11015/69/2003-IA.II (M) dated 07.07.2005 not issued or available with UltraTech Cement Ltd. Copy of letter no. J-11015/29/2002-IA.II (M) dated 08.07.2005 was issued to the Chairman, CECB, Raipur. On the basis of the same, CECB Raipur filled a Criminal petition (No 1985/2005) with CJM Court, Raipur as per direction of MoEF&CC letter bearing no. J-11015/69/2003-IA. II (M) dated 07.07.2005 and J-15012/29/2002-IA-II(M) dated 08.07.2005 for expansion of limestone mining capacity without taking Environmental Clearance. Under the section 245 of the Code of Penal Procedure, no such crime was proved against the accused which could be constructed as ground to penalize the accused. The case was dismissed. PP submitted that all the relevant copies of all letters are uploaded in Parivesh.

**Point (ix). The Project Proponent should explore the possibility for shifting to clean energy using electric equipment for cleaner production options to reduce the emission. The Project Proponent should submit the action plan to phase out the old equipment and switch over to electrically operated equipment's for ensuring sustainability of mining operations.**



**Reply by PP:** PP submitted that they will explore with all OEMs like Komatsu, BEML, Tata Hitachi, Caterpillar and shall replace the old equipment's with suitable electrically operated equipment's available in the market to suit our Mining conditions after completion of residual life of existing equipment's. PP submitted that conversion to Electrically Operated Equipment if feasibility established, the following equipment's such as HC-Mines -Water Tanker 01, HC-MN1-Excavator-KOMATSU-PC1250-1, HC-MN1-Excavator-KOMATSU-PC1250-2 2029 and HC-MN1-Excavator-EX1200-10 RUN Hrs will be converted in the year 2034, 2028, 2029 and 2035 respectively.

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

Date of application	Proposal No	Consideration	Details	Date of accord
27.03.2003	IA/CG/MIN/11622/2004	-	Expansion in production of limestone from 2.62 million TPA to 3.3 million TPA in a total lease area of 997.355 ha under EIA Notification, 1994	11.04.2005
12.05.2005	IA/CG/MIN/23854/2005	-	Expansion in production of limestone from 3.3 million TPA to 4.2 million TPA in a total lease area of 997.355 ha under EIA Notification, 1994	16.03.2006
24.09.2008	IA/CG/MIN/75620/2012	-	Renewal of mine lease for production of 4.2 MTPA (ROM) limestone over mining lease area of 997.335ha	02.01.2014
26.08.2014	J-11015/55/2012-IA.II (M)	November 13 <sup>th</sup> -14 <sup>th</sup> , 2014	Amendment in EC dated 02.01.2014	23.02.2015

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

Date of application	Proposal No	Consideration	Details	Date of accord
30.06.2018	IA/CG/MIN/75649/2018	23 <sup>rd</sup> October, 2018	Expansion in Limestone Production Capacity from 4.2 Million TPA to 10.0 Million TPA and 7.10 Million TPA OB, Subgrade, Mineral Rejects and Top Soil per annum	19.11.2018

			with one existing Crusher of 1250 TPH & one Proposed additional Crusher Capacity of 1800 TPH and Installation of new conveyor (length 1600 m) from the pit to the plant	
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### 8. Lease Detail:

S.no	Grant of PI/mine lease/ Order	Date of the grant	Name of the Mineral	Period of Grant		Granted by	Mine lease area in Ha
				From	To		
1	Grant of mining lease vide Lr no. 3-89/91/12/3 in favor of M/s. Larsen & Turbo Limited	15.12.1992	Limestone	22.02.1993	21.02.2013	Govt., of Madhya Pradesh	997.355
2	Letter regarding validity extension in mining lease vide letter No 646/Khali/Teen-6/ML/12	31.07.2015	Limestone	22.02.1993	21.02.2043	Collectorate Office (Mineral) District BalodaBazarBhatapara	997.355

9. The Project Proponent submitted that the Change in the name of lease was effected in favor of M/s Ultratech Cement Limited on 11.02.2005. The name change of lease deed was executed on 19.05.2014. The validity of the lease has been extended up to 21.02.2043 as per MMDR Amendment Act 2015. Subsequently Amendment agreement for extension of mining lease period up to 21.02.2043 of mine has been executed on 31.03.2016.

### 10. 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 in Mining Plan along with Progressive Mine Closure Plan approved by Indian Bureau of Mines	Balodaba/Chup/Kh yo-1160/2018-Raipur/486	14.08.2018	2018-19 to 2022-23	Limestone, 997.355ha
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**11.** The Project Proponent submitted that Mining operation being/ will be done by fully opencast mechanized method. PP reported that total Geological Resources are 549.74 million tonnes and total mineable reserves are 252.089 million tonnes. Life of the mine will be 25 years. The bench height will be 6-8m and width will be 30m. Overall pit slope will be 45°. Hydraulic excavator of 6.5 cu.m bucket capacity (bottom dump type) is being/will be used for excavation and loading of blasted limestone into 55 tonnes capacity rear dumpers. After expansion, 33,333 TPD of excavated limestone will be transported from the working faces to the crusher by 55 tonnes capacity rear dumpers and will not use any of the public road. The number of rear dumpers required per day for transportation of limestone (as there will be 3 shifts @ 7.5 hrs) will be 606 nos. The number of trips per hour will be 26 numbers. Further crushed limestone is being transported via covered conveyor belt of 1300m length and will be transported via covered conveyor belt of 1600m length to its integrated cement plant. The Crusher location has been selected in the western side of the mining lease area and nearest to the plant site. Crushing plant exist in single stage rotary impact type with wobbler having capacity of 1250 TPH. Before crushing there is a system to segregate R.O.M in (+) 65 mm and (-) 65 mm through wobbler. Only (+) 65 mm material is fed to crusher and (-) 65 mm material, after screening is brought to product side through separate conveyors discharging finally to the crusher line conveyor. UTCL has also proposed to install a similar 1800 TPH capacity of crusher with wobbler and screening arrangement. During this mining plan period Top Soil: 0.04 MTPA & overburden waste/screen reject/ subgrade has been planned around 2.58 (1.02 overburden waste+ 0.4 screen reject+1.16 sub grade) MTPA. PP reported that till date 0.67 million tonnes of Topsoil, 12.65 million tonnes of Overburden and 2.02 million tonnes of Reject has been generated. Reject is being/ will be dumped separately & later on it will be reclaimed by backfilling & rehabilitated by plantation/regrassing. Sub-grade generated is being/will be used for cement manufacturing after blending with high grade limestone. PP reported that the ground water table in Pre-monsoon season ranges between 5.60 to 22.10m bgl and in Post-monsoon ranges between 0.85 to 17.80m bgl. Ultimate working depth will be 242 m AMSL (38m bgl). Renewal of NOC for Groundwater withdrawal & mine water intersection (23,48,050 cum/year) has been obtained from Central Ground Water Authority vide letter no. 21- 4/(42)/NCCR/CGWA/2009-681 dated 16.07.2019 & same is valid up to 01.07.2024.

**12. Land Area Breakup**

Private land	928.022 ha
Government land	69.333 ha
Total Mining lease area (MLA)	997.355 ha
Private land for crusher, workshop & other infrastructure outside the MLA	Nil
Additional information (if any)	Out of the 69.333 ha of Govt. land, total grazing land is 42.044 ha out of which the company have working permission for 26.504 ha land. The remaining grazing area of Bardih village is in undisturbed portion and at the southern corner of the lease where mining is not proposed. However, at conceptual stage only 1.3304 ha of grazing land need to be exchanged.

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

Particulars	Details	Distance & Direction
Nearest Village	Bardih Village (Falls in Non-mining zone of ML Area in South) and Paraswani Village (Surrounded by Lease)	
Nearest Town/ City	Baloda Bazar	~22 km, NE
Nearest Highway	SH-9 NH-12A	~18.0 km, East ~14.0 km, West
Nearest Railway Station	Tilda Railway Station	~ 15.5 km, WNW
Water Bodies	One seasonal stream  Mahanadi canal Chitwar Nala Tengna Nala Banjari Nala Kumhari Tank Kumhari Irrigation Canal Khorsi Nala Jamuniya Nadi Jhorkhi Nala	First order stream is originating within the lease area and same will be mined out at conceptual stage  ~50 meter in SSE ~200 meter in south ~2.5 km in SE ~3.0 km in NNW ~4.5 km in WSW ~5.0 km in NW ~7.0 km in ESE ~9.5 km in NW ~9.5 km in East

### 14. Water requirement

Total water requirement	450.0 KLD (Fresh water - 427.0 KLD & Treated water - 23.0 KLD)		Dust suppression	363.0 KLD
			Workshop	25.0 KLD
			Greenbelt	55.0 KLD
	Existing 300.0 KLD	Additional 150.0 KLD	Drinking/Domestic	7.0 KLD

Source	Mine pit & Bore wells
Permission	Renewal of NOC for Groundwater withdrawal & mine water intersection (23,48,050 cum/year) has been obtained from CGWA; vide letter no. 21-4/(42)/NCCR/CGWA/2009-681 dated 16.07.2019 and is valid up to 01.07.2024.

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

Forest Land/Protected Area/Environmental Sensitivity Zone	Yes/No	Details of Certificate/letter/Remarks
Forest Land	No	PP reported that there is no forest land involved within the mine lease area. No National Park, Wildlife Sanctuary, Wildlife Corridors, Tiger reserves found within 10km radius. Certificate along with authenticated location map has been obtained from Additional Principal Chief Conservator of Forest, Govt. of Chhattisgarh vide letter no. Kra./Bhu-Prabandh/Khanij/331-280/09, Raipur, dated 04.01.2021.
National Park	No	
Wildlife Sanctuary	No	
Wildlife Corridors	No	
Tiger Reserves	No	
Aravali Range	No	PP obtained the Certificate from Additional Director, Directorate of Geology and Mining, Raipur, CG for confirming that the Mining Lease Area does not falls under the "Aravali Range" has been obtained vide letter no. 4481/ Geo-I (Misc.)/ F.No.-01/ 2020-21, Atal Nagar Raipur, Dated 05.11.2020.
Critically Polluted Area	No	PP obtained the Certificate from Member Secretary, Chhattisgarh Environment Conservation & Board, Nava Raipur Atal Nagar, Raipur, CG for confirming that the Mining Lease Area does not falls under the "Critically Polluted Area" has been obtained vide letter no. 9283/ Mukhya./Tak./ C.G.P.S.M./ 2021, Nava Raipur Atal Nagar, dated 25.01.2021.

#### 16. Availability of Schedule-I species in study area –Not Available

If available - authenticated list of flora/fauna details

Schedule-1 species	Yes/No	Details of Certificate/letter/Remarks
Schedule-I species	No	PP reported that there is no Schedule I species within the lease area. Certificate along with authenticated list of flora & fauna separately for core & buffer zone has been obtained from Additional Principal Chief Conservator of Forest, Govt. of Chhattisgarh vide letter no. Kra./Bhu-Prabandh/Khanij/331-280/09, Raipur, dated 04.01.2021.
Additional information (if any)	No	

## 17. Green belt/plantation details

Proposed area for green belt/plantation	336.342 ha
Over waste dump	13.530 ha
7.5 m barrier & non-mineralized zone	16.462 ha
Over backfilled area	306.350 ha
Budget for green plan & plantation till the end of life of mine	Rs 4.5 crores
Existing Status of Greenbelt/Plantation	At present total Greenbelt and Plantation has been done on 65 ha area (Greenbelt: 8.5 ha, On waste dump: 12 ha, on dump along mine lease in safety zone of 7.5m: 5.575 ha & on un-worked area: 38.925 ha).
Additional information (if any)	38.925 ha area has been covered under un-worked. During the detailed exploration mineral has been found in this area. Therefore the plantation will be removed for extraction of mineral with due permission from the concerned authorities and it will be compensated by the plantation on backfilled & same area. Plant species will be planted in consultation with the DFO.

## 18. Baseline detail

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. The Monitoring results of ambient air, surface water, soil, ambient noise and ground water for the month of December, 2018 to February, 2019 have been reported and no major divergence was observed with respect to concentration values of various parameters of collected samples.

Period					
AAQ parameters at 9 locations	Pollutant	Min, $\mu\text{g}/\text{m}^3$	Max, $\mu\text{g}/\text{m}^3$	98 %le, $\mu\text{g}/\text{m}^3$	Standard, $\mu\text{g}/\text{m}^3$
	PM2.5	28.9	50.8	50.3	60
	PM10	60.1	91.9	91.2	100
	SO <sub>2</sub>	6.1	18.9	18.6	80
	NO <sub>x</sub>	13.6	32.0	31.6	80
AAQ modelling (Incremental GLC)	Pollutant	Baseline Concentration, $\mu\text{g}/\text{m}^3$	Incremental Concentration, $\mu\text{g}/\text{m}^3$	Total GLC, $\mu\text{g}/\text{m}^3$	Standard
	PM2.5	46.3	1.5	47.8	60
	PM10	90.1	3.8	93.9	100
	SO <sub>2</sub>	17.6	1.4	19.0	80
	NO <sub>x</sub>	27.8	1.9	29.7	80
Noise level at 9 locations	Day Time: 52.8 to 68.7Leq dB (A) Night Time: 42.1 to 58.3Leq dB (A)				

Ground water quality at 8 locations	PP submitted that pH varied from 7.38 to 7.83. Total hardness varied from 238 mg/l to 406 mg/l. Total Dissolved Solids varied from 326 mg/l to 605 mg/l. The water samples contain chloride from 32.41 to 132.80 mg/l, SO <sub>4</sub> varied from 20.68 to 74.15 mg/l, Ca from 72.44 to 129.46 mg/l, Mg varied from 10.97 to 20.66 mg/l. The groundwater in all the samples, were observed to be within the permissible limits and complies to the drinking water standard (IS: 10500-2012).As the ground water quality is good in the area, the villagers use ground water for drinking purposes and also rain water stored in small tanks, village ponds etc. No adverse impact on water quality is envisaged due to existing mining project.
Surface water quality at 2 locations	PP submitted that pH of collected water sample varied from 7.36 to 7.62 indicating slightly alkaline. Odour was found agreeable at all the locations whereas turbidity was less. BOD varies from 3.1 to 4.0 mg/l & COD varies from 11.2 to 14.9 mg/l indicating that Mine Site (Reservoir) and Kumhari Tank's water is clear.
Soil quality at 8 locations	PP submitted that the soil samples exhibit brown and brownish red which indicates good fertility and presence of organic matter in the soil samples. The organic matter (0.92% to 1.41%) and organic carbon (0.53% to 0.82%) present in the soil observed to be appropriate for the plant growth. The texture of the soil samples were sandy loam, silty loam and clay loam. All soil samples have slightly alkaline having pH ranging from 7.49 to 8.0 which is an optimal range for most the plant to thrive and grow.

## 19. Public Hearing (PH) Details

Advertisement for PH with date	National Level/Local Level: i. The Times of India, New Delhi on 13.11.2020 & corrigendum on 14.11.2020 ii. Navbharat, Chhattisgarh, Odisha on 13.11.2020 & corrigendum on 14.11.2020
Date of PH	15.12.2020
Venue	Courtyard of UltraTech Rural Development Centre in front of Project Site, Village: Hirmi, Tehsil: Simga, District: BalodaBazar
Chaired by	Mr. Rajendra Gupta: Additional District Magistrate and Additional Collector, Balodabazar
Main issues raised during PH	i. Renovation of school and roads ii. Sports playgroud development iii. Deepening of Paraswani Pond iv. Park Development v. Plantation Development vi. Installation of Solar Plates vii. Construction of cowsheds and drains

	etc.
Budget proposed for addressing issues raised during PH	Rs 1.65 Crores

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

S. No	Activities	Budget (Rs In Lakhs)	Physical Targets		
			1 <sup>st</sup> year	2 <sup>nd</sup> year	3 <sup>rd</sup> year
1	Ambulance service for villagers, well equipped hospital–Medical related support in form of equipment's, beds etc.,	64.0	Hospital – Medical related support in form of equipment's , beds etc. in village Saklore (40 lacs)	Ambulance service for villagers (Paraswani, Hirmi, Bardih & Saklore & Phunderdih) (14 lacs)	
2	Establishment of a COVID center & same will be tie up with Medical Staff & necessary medical equipment like Oxygen concentrators, beds, PPE Kits, support in vaccination, awareness programme etc	20	Paraswani	-	-
3	i.Smart class rooms with 5 Computers, specialized software, audience response technology, assistive listening devices, networking and audio/visual capabilities ii.Paraswani Govt. School renovation	10.0  3.0  5.0	Infrastructure support in school of Bardih & Saklore  Paraswani Govt. School renovation	5 Computers  Sport playground development- Hirmi	Coaching Center- Hirmi



	iii.Coaching Center, laboratory equipments iv.Sport playground development	4.0			
4	i. Renovation of roads from Paraswani to Hirmi ii. Construction of drains at Villages Paraswani, Hirmi, BardihPhunderdih and Saklore iii. Construction of cowshed (Vill. Bardih&Saklore)	16.0 15.0 4.0	Road Renovation: Paraswani to Hirmi (2000 m) Hirmi (500 m)	Cowshed Construction (01 in village Bardih-02 lacs) Drain construction : Paraswani (150 m) &Saklore (200 m)	Cowshed Construction (01 in vill. Saklore-02 lacs) Drain construction: in village Bardih (150 m)
5	i. Paraswani Pond deepening work ii. Construction of wall around the crematorium at Hirmi Village iii. Park Development (Vill. Hirmi)	5.0 4.0 3.0	Construction of wall around the crematorium (200 m Hirmi)	Park Development (Hirmi)	Paraswani Pond deepening work (Overhead syntax water tank & pond pinching)
6	Plantation (5000 trees) in Villages Paraswani, Hirmi, BardihFunderdih and Saklore (5000 x 100 = 5 Lakh)	5.0	Paraswani (1000 sapling)	Hirmi (1000 saplings), Bardih (2000 saplings)	Phunderdih&Saklore (1000 saplings)
7	i. Provision of solar lights/Fans (25 lights) in the village streets, Anganwadi, schools	3.0 1.0	Paraswani	Hirmi, Bardih	Phunderdih and Saklore

	ii. Distribution of Solar lantern in all 5 villages	3.0			
	iii. Installation of Solar plates in Schools for Power back-up				
	<b>Total</b>	<b>165.0</b>			

**21. Previous EC compliance and Past Production details:**

<b>Particulars</b>	<b>Letter no. and date</b>
Certified EC compliance report	Compliance of Conditions stipulated in Environment Clearance has been certified by Regional Office, Nagpur, Ministry of Environment Forest and Climate Change vide File no. 3-3/2014 (ENV)/7106, dated 03.09.2020.
Consent to Operate	Renewal of the consent of the Board under section 25 of the Water (Prevention and Control of Pollution) Act, 1974 and under section 21 of the Air (Prevention and Control of Pollution) Act, 1981 issued by the Chhattisgarh Environment Conservation Board vide No. 10796 /TS/CECB/ 2020 Nava Raipur Atal Nagar, Dated 03 /03 / 2020 for the period of three years i.e. from 01/03/2020 to 28/02/2023 for 4.20 Million Tonnes Per Annum.
Certified past production	Production details for the year 1993 to 2021 have been authenticated by Office Collector (Mines), Distt, BalodaBazar-Bhatapara, Chhattisgarh dated 19.06.2018, 11.12.2020 & 29.07.2021

**22.** The Project Proponent submitted that out of total mine lease area of 997.355 ha (Govt. Land: 69.333 ha & Pvt. Agriculture Land: 928.022 ha). Out of 928.022 ha Pvt. Land, 866.446 ha land has been purchased & remaining 61.576 ha land yet to be purchased. Land has been/will be purchased through provisions of LARR Act, 2013 & Chhattisgarh LARR Act, 2019 and through the mutual agreement with the land holders falling in the mining lease area. There are 78 project affected families (PAFs). There are 29 houses falling in Bardih village on Govt. land. The houses are falling in undisturbed area & same will not to be displaced. PP also submitted that employment will be provided to PAPs according to their education and skills. Budget proposed for the R&R Action plan is Rs. 27.25 Crores. Permission for entering in to land (Mine working permission) for 586.224 ha & 251.424 ha land area has been obtained from District Collector, Mineral Branch, Raipur vide letter no. ML/Mine deed 2/90, Raipur, dated 30.03.1993 & KA/KHA. LI/KhaniPatta/Lekha 4/145, dated 18.11.2000 respectively. Later mine working permission for 42.286 ha land area has also been obtained from Office Collector, Mineral Branch, BalodaBazar-Bhatapara,

CG vide letter no. 1195/Teen-6/Lease Deed/N. K./2019, Balodabazar dated 21.11.2019. In future working permission for mining purposes will also be obtained from the Concerned Authority.

### 23. Court case details

Court Case	<p>CECB, Raipur filled a Criminal petition (No 1985/2005) with CJM Court, Raipur as per direction of MoEF&amp;CC letter bearing no. J-11015/69/2003-IA. II (M) dated 07.07.2005 and J-15012/29/2002-IA-II(M) dated 08.07.2005 for expansion of limestone mining capacity without taking Environmental Clearance. Under the section 245 of the Code of Penal Procedure, no such crime was proved against the accused which could be constructed as ground to penalize the accused. The case was dismissed.</p> <p>Show cause notice was issued on 07.07.2018 by DMO, Balodabazar as per Hon'ble Supreme Court order dated 02/08/2017 in Writ Petition (Civil) No. 114/2014. It was alleged that for the years 2000-01 to 2002-03 and 2004-2005 to 2006-2007, 7278850 tonnes of mineral produced in violation of EC and Water/Air Consents. Therefore, the project will attract the 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 and Ors and instructions were given to deposit Rs. 92,61,18,411.3 as compensation. PP submitted that they have submitted the reply of the Show cause Notice Issued by the Office of the Collector (Mineral Department), Balodabazar on 07.07.2018 and was submitted on 28.07.2018. The action on the reply submitted in respect of the said notice is under consideration.</p> <p>Letter regarding NOC has been received from Office of Collector (Mineral Branch), BalaodaBazar, Bhatapara, Chhattisgarh vide letter no./3586/Khali/Teen-1/2021, BalodaBazar, dated 24.02.2021. This NOC is issued on the condition that the Hon'ble Supreme Court has issued Writ Petition (Civil) No. 114/2014 In compliance of the decision passed, dated 2/8/2017, if any mineral or fine is found to be recoverable, it will be mandatory to deposit.</p> <p>PP also submitted the letter issued from Directorate of Mining and Geology vide Ir. No. 6029/khani02/no.02/2017, New Raipur dated 27.11.2021 wherein it has been mentioned that the examination of the reply submitted in response to the show cause notice against the PP issued by concerned District Mineral office as per the order of the Hon'ble Supreme Court dated 02.08.2017 in the matter of Common Cause is in under process at District Level.</p>
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### 24. Affidavit/Undertaking details

Affidavit in a Non-Judicial stamp paper of Rs 100 bearing L 189975 dated	The company hereby undertake by affidavit to comply with all the statutory requirement & judgment of Hon'ble Supreme Court dated 2 <sup>nd</sup> August 2017 in writ
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28.07.2018	Petition (civil) No. 114 of 2014 in the matter of common cause versus Union of India &Ors.
Project Proponent submitted an Undertaking dated 13.08.2021	Project Proponent certify that we have reviewed the EIA report and take full responsibility and ownership of the contents presented in the EIA report by J.M. EnviroNet Pvt. Ltd. Instructions as per MoEF&CC vide O.M. No. J-11013/41/2006-IA. II (I) dated 4th August, 2009 has been followed in the preparation of this EIA Report. We also assure that there is no litigation pending against the project and/or any direction / order passed by any be borne by company.
Consultant submitted an Undertaking dated 13.08.2021	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-11015/110/2018-IA.II (M) dated 19 <sup>th</sup> Nov., 2018 have been complied as per data/details provided by Project Proponent & as per Approved Modified Mining Plan along with Progressive Mine Closure Plan approved by IBM and the data submitted are factually correct.
Plagiarism Certificate checked on 20.07.2021	The Head of the Accredited Consultant Organization/ Authorized person certified that this EIA Report has been evaluated by using online in-house software viz. small tools <a href="https://smalltools.com/plagiarism-checker/">https://smalltools.com/plagiarism-checker/</a> . 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.

## 25. Details of the EMP

S. No	Activities	Existing		Proposed		Total	
		Capital Cost	Recurring	Capital Cost	Recurring	Capital Cost	Recurring
I	EMP for Pollution Control & Monitoring						
A.	Air Quality Monitoring and Protection (Including Greenbelt/Plantation cost)	158.84	44.8	389.07	84.89	547.91	129.69
B.	Water Quality Monitoring and Preservation	45	18.9	24	4.4	69	23.3
C.	Noise and Vibration Monitoring and Protection Measures	4.82	2.15	4.5	3.0	9.32	5.15
D.	Miscellaneous	-	4.75	-	4.0	-	4.75

<b>TOTAL COST (A+B+C+D)</b>			626.2 3 6.26 Crore	166.89 1.66 Crore
<b>II</b>	Estimated Budget for Addressing the Public Hearing Issues	1.65 Crore (within 3 years)	791.2 3	166.89

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

<b>Particulars</b>	<b>Budget (Rs. In Crore)</b>
Capital Cost for Environment Protection	6.26
Budget for addressing the Public Hearing issues	1.65
Total Cost for EMP	7.91
Recurring Cost for EMP	1.66
Project Cost	186.37
Employment	Existing – 118 persons, Additional – 82 persons. Hence, total man power requirement after the proposed expansion will be 200 persons.

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

The proposal for Environmental Clearance was 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 **recommended** the proposal of M/s. UltraTech Cement Ltd for grant of Environmental Clearance for Paraswani Limestone mine with expansion in Limestone Production Capacity from 4.2 Million TPA to 10.0 Million TPA and 7.1 Million TPA OB, Sub Grade, Mineral Rejects and Top Soil generation (Total Excavation: 17.1 MTPA) with One Existing Crusher of 1250 TPH Capacity & One Proposed Additional Crusher of 1800 TPH Capacity and Installation of new conveyor belt (length 1600 m) from pit to the plant in the mine lease area of 997.355ha at Villages: Hirmi, Paraswani, Bardih, Phunderdih & Saklore, Tehsil: Simga, District: Baloda Bazar-Bhatapara, Chhattisgarh subject to the following specific conditions in addition to the standard EC conditions applicable for non-coal mining projects:

- i. As mentioned in the letter issued from Directorate of Mining and Geology vide Lr. No. 6029/khani02/no.02/2017, New Raipur dated 27.11.2021 reply submitted in response to the show cause notice dated 07.07.2018 against the PP issued by concerned District Mineral office as per the order of the Hon'ble Supreme Court dated 02.08.2017 in the matter of Common Cause is in under process at District Level. Hence PP shall abide with final decision on the matter. In compliance of the decision passed by the Hon'ble Supreme Court

in Writ Petition (Civil) No. 114/2014 dated 02/8/2017, if any mineral or fine is found to be recoverable, it will be mandatory to deposit.

- ii. The Project Proponent shall intimate the final decision on the show cause notice dated 07.07.2018 once it is final, to the Ministry immediately to take appropriate action.
- iii. The Project Proponent shall strictly adhere to the commitment made during the presentation that no mining will be carried out in crusher area, unless proposed crusher and conveyor will be installed.
- iv. The Project Proponent shall undertake plantation with the saplings of 9 ft height having at least 95% survival rate in the crusher area of 50m all along the conveyor and mine lease boundary within 1 year. PP should also submit the progress report to the IRO.
- v. The Project Proponent shall explore the possibility of installing Solar power plant in this instant mine and adopt suitable measures for protection from the blasting activity.
- vi. The Project Proponent shall submit the noise level and ground vibration in the operating crusher area in the northern side. PP must monitor the noise level and ground vibration near the village and submit the six-monthly compliance report to IRO.
- vii. The Project Proponent should explore the possibility of using CNG instead of Diesel for cleaner production options to reduce the emission.

**2.4 Proposal for extension of validity of Environmental Clearance granted on 08.06.2017 for M/s SAIL for Rowghat Iron Ore mine Deposit F [ML area 2028.797ha and production capacity 14 million TPA] for transportation of 0.3 MTPA of iron ore from Rowghat ML to Keonti rail head by road and further onwards to Dalli Rajhara/Bhilai by rail located in Matla Reserve Forests, in Narainpur and Kanker District, Chhattisgarh – [File No: J-11015/331/2006-IA.II(M) Proposal No: IA/CG/MIN/236647/2021, Consultant: M/s MECON Limited] - Extension of validity of EC**

**EAC Meeting Details:**

EAC meeting	42 <sup>nd</sup>
Date of Meeting	30 <sup>th</sup> November – 3 <sup>rd</sup> December, 2021

The proposal of M/s SAIL is for extension of validity of Environmental Clearance granted on 08.06.2017 for Rowghat Iron Ore mine Deposit F [ML area 2028.797ha and production capacity 14 million TPA] for transportation of 0.3 MTPA of iron ore from Rowghat ML to Keonti rail head by road and further onwards to Dalli Rajhara/Bhilai by rail located in Matla Reserve Forests, in Narainpur and Kanker

District, Chhattisgarh. The mine lease area is located between Latitude: 19°45'20"N to 19°51'20"N and Longitude: 81°08'22.5"E to 81°12'27.7"E. The mine lease area falls under the Survey of India Toposheet No: E44D1 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 for amendment in EC vide IA/CG/MIN/223248/2021 dated 11.08.2021 under para 7(ii) of the provisions of the EIA Notification, 2006 for the project mentioned above. The proposal was initially considered in the 36<sup>th</sup> EAC meeting held during 31<sup>st</sup> August and 1<sup>st</sup> September, 2021. Based on the documents submitted and presentation made by the Project Proponent and the Consultant, the Committee deferred the proposal for want of additional information. The Project Proponent vide Lr No: CGM (Mines-Rowghat)/2021/200 dated 04.10.2021. Then, the proposal was again considered in the 40<sup>th</sup> EAC (Non-Coal Mining) meeting held during 26<sup>th</sup> – 27<sup>th</sup> October, 2021. After detailed deliberations made by the Project Proponent and the Consultant, the Committee noted that initially PP obtained the EC on 04.06.2009 and it was proposed that the transportation of 14.0 MTPA of iron ore will be through railways from Rowghat Rly. Siding on Bhilai to Dalli Rajhara – Rowghat rail link and further to Bhilai Steel Plant; Then, PP obtained amendment in EC on 15.03.2010 for Partial modification in EC letter dated 04.06.2009 and additional specific conditions were imposed. Further, amendment in EC was obtained on 08.06.2017 w.r.t. transportation of 0.3 million TPA of ore from Rowghat M.L to Keonti by road and further onwards to Dalli Raihara/Bhilai through rail till 2021. The reason stated at the time of amendment in EC for change in transportation plan was due to naxal movement as well as for diversion of forest. During the meeting, PP also informed that so far only 186.395 Tonne (2020-21) has been mined out since the grant of EC dated 04.06.2009. The amendment in EC granted on 08.06.2017 was challenged vide WP (Civil) no. 795/2021 in the Hon'ble High Court of Chhattisgarh. An application was filed by petitioner for interim relief which was dismissed by the Hon'ble High Court vide order dated 17.02.2021. The matter was last listed on 05.07.2021 and is still pending before the Hon'ble High Court. PP now submitted proposal for (i) increase in transportation capacity of iron ore up to 0.8 MTPA by road up to Antagarh and subsequently by rail to Bhilai for period up to Dec-2025 and (ii) Once the railway line from Antagarh up to Bondanar and then Tadoki is commissioned, allowing despatch of 0.8 MTPA of iron ore by road up to Bondanar/Tadoki or loading siding nearest to Rowghat and subsequently by rail to Bhilai. The Committee noted that the PP informed that amendment in EC dated 08.06.2017 is still valid up to end of 2021 and the quantity to be dispatch by road haulage was 0.3 MTPA. PP could not achieve the already sanctioned capacity of 0.3 MTPA and now submitted the proposal for increasing the same from 0.3 MTPA to 0.8 MTPA. The Proposal of enhanced capacity can be appraised only after understanding the environmental implications of the earlier amendment in EC

granted on 08.06.2017. The Committee also opined that if the timeline was the constraint, PP shall submit the application for extension of validity of amendment in EC dated 08.06.2017 with proper justification and a detailed note on the environmental footprints due to the road haulage instead of railway. The Committee also received representation from local organization and hence PP should submit their response with substantiating the documentation to the Ministry for further consideration. The Committee also advised the PP to monitor the environmental impacts due to amendment in EC granted on 08.06.2017 and take appropriate measures to minimize the potential impacts on environment. Based on the above discussions held, the Committee deferred the proposal.

3. Now, the Project Proponent has made an online application vide IA/CG/MIN/236647/2021 dated 01.11.2021 for extension of validity of environmental clearance in Form 6 the provisions of the EIA Notification, 2006 for the project mentioned above. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals under Category “A” of the schedule of the EIA Notification, 2006 and appraised at the Central level.

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

<b>Date of application</b>	<b>Proposal No</b>	<b>Consideration</b>	<b>Details</b>	<b>Date of accord</b>
28.07.2007	IA/CG/MIN/8566/2009	-	Production of 14.0 MTPA of iron ore mining over a lease area of 883.22ha	04.06.2009
23.06.2009	-	-	Partial modification in EC letter dated 04.06.2009 and additional specific conditions were imposed	15.03.2010
09.02.2017	IA/CG/MIN/8566/2009	February 20-21, 2017	Transportation of 0.3 million TPA of ore from Rowghat M.L to Keonti by road and further onwards to Dalli Raihara/Bhilai through rail till 2021	08.06.2017

5. The Project Proponent submitted that due to delay in completion of rail link and handing over of forest land due to serious LWE (left wing extremism) disruption, mining operation could not commence. After resolving issue of security and forest tree cutting of 24.18ha of land on 27.01.2021, mining operation (production and dispatch) started on 05.02.2021 and it was expected that by Oct-21 mining operations will commence with full production capacity of 0.3 MTPA. PP also submitted that the rail link has been extended from Keonti to Antagarh (~17 km patch). Another ~11 km long section up to Bondanar is in advanced stage of construction with likely commissioning in mid of 2022. A further ~6 km long section



up to Tadoki is also in progress which will commission in mid of 2023. Construction of the rail link up to Rowghat is expected to be completed by December, 2025. Further, PP submitted that development of Rowghat mine essential as reserves at existing captive iron ore mines of BSP (Dalli-Rajhara) likely to be exhausted within 5 years. The gangue percentage in iron ore reserve of Dalli Rajahra is ~9.5%. Presently iron ore to be sourced from eastern sector iron ore leases of SAIL. Rowghat shall be the sole supplier of Iron Ore for Bhilai Steel Plant. Further, PP submitted that since railway line has advanced up to Antagarh present proposal envisages road haulage of iron ore from Rowghat to Antagarh Rly siding (~58 km haulage) initially and subsequently will be transported to Bondanar siding (~45 km haulage). When rail link is completed up to Tadoki, iron ore will be trucked to Tadoki siding (~40 km haulage).

6. The Project Proponent submitted that lease deed was executed vide Ref Kramank/Jila Kosha/Stamp/1091/2009 dated 21.10.2009 for the period of 20 years i.e., from 21.10.2009 to 20.10.2029.

7. The Project Proponent submitted that Mining Plan including Progressive Mine Closure Plan in respect of Rowghat Iron Ore Deposit over an area of 2028.797 ha approved by IBM vide letter No. No. 314(3)/2006-MCCM(CZ)/MP-27 dated 22.03.2007 and latest Review of Mining Plan along with the Progressive mine Closure Plan for the period 2019-20 to 2023-24 approved by IBM vide letter no □□□□□□□□/□□□/□□□-1179/2018-□□□□□□/1244 dated 06.12.2018 over an area of 2028.797 ha. PP submitted that there is no change in the method of mining. Mining is being carried out by conventional open cast top slicing mining involving drilling, blasting & handling of excavated mineral and waste by shovel dumper combination. The mine lease is divided into seven blocks. In the initial phase three blocks will be mined. The other blocks will be mined in the 2<sup>nd</sup> phase. The excavated mineral is processed in crushing & screening plant before being dispatched by trucks to the railway siding(s). ~6.75 km long concrete road has already been constructed from the mine to SH-5 which leads to the railway siding(s). Waste is dumped externally in designated areas within the lease. Once the rail link up to Rowghat is commissioned, dispatches through rail shall be started from Rowghat itself with production levels of 14.0 MTPA and road despatch of ore to external sidings will be phased out.

8. The Project Proponent submitted the Addendum EIA/EMP report based on the baseline environmental data generated for one month during February, 2021 for micrometeorological conditions, ambient air quality, noise levels, water quality, soil quality and traffic density. PP also submitted that Rowghat mine commenced operation only on 5<sup>th</sup> Feb., 2021.

**Micro meteorology:** A micro-meteorological monitoring station was set up at Narayanpur. Wind speed & direction, air temperature and relative humidity were recorded at hourly intervals continuously throughout February, 2021. PP submitted

that wind was mostly blowing from South (S), North (N), and North East (NE). The predominant wind speeds were mostly in the range of 0.4 m/s– 2.0 m/s.

**Ambient Air Quality (AAQ):** PP reported that the Ambient Air Quality (AAQ) was monitored at 9 locations. The PM<sub>10</sub> values ranged from 62 to 90 µg/m<sup>3</sup>, PM<sub>2.5</sub> values from 34 to 56 µg/m<sup>3</sup>, NO<sub>2</sub> concentration at the monitoring locations varies from 20.7 to 31.1 µg/m<sup>3</sup> and SO<sub>2</sub> concentration ranged from 13.7 to 21.2 µg/m<sup>3</sup> which are well within the limits of NAAQS. The estimated values of maximum Ground level concentrations are concentrated in and around the fines excavation & loading area and the transportation route. There may be marginal increases along the transportation route only. No impacts are anticipated in residential areas which are at a distance. The maximum additional predicted GLCs are limited to 13.96 µg/m<sup>3</sup>, 3.12 µg/m<sup>3</sup>, 0.57 µg/m<sup>3</sup> and 4.26 µg/m<sup>3</sup> for PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub> and NO<sub>x</sub> respectively at nearby receptors. Free silica has been analysed in Respirable Dust (PM<sub>10</sub>) in three samples at each location and results were well below the detection limit in A1, A2, A3 and A9 and in rest of the locations the concentration was insignificant with range of 0.001 to 0.006 µg/m<sup>3</sup>.

**Ambient Noise level:** PP submitted that ambient noise levels were monitored at 9 locations. Among the nine locations, one location falls under commercial zone, N9 (Antagarh) and the rest of the locations are residential areas. The day noise Leq levels at all the ambient locations are in the range of 40.2 to 63.8 dB (A) where as in the night the noise levels ranged from 37.9 to 47.3 dB (A). The high values were observed in N9 (Antagarh) due to commercial activities. Major sources of noise during the operation phase are operation of excavators and vehicular traffic. The operation of material handling equipment will generate noise levels ranging between 75 to 90 dB (A). However, this noise level will be near the source only and is not expected to raise noise levels outside the lease boundary. From the mine, mineral will be dispatched only during day-light hours, thus avoiding increase in night-time noise levels. It has been estimated that there will be only a nominal rise in day time noise levels {~0.2 dB(A)} due the project. Since ore transport will be only during day time, night time noise levels will be unaffected.

**Water quality:** PP submitted that a total of ten (10) water-sampling locations were selected for the present study covering five (5) surface water and five (5) ground water. There is no trend in most of the parameters as the results are below the detection limits. The pH of the surface water samples are neutral with dissolved oxygen vary from 6.1 to 6.8 mg/l. Total Coliform organisms, in SW1 (Devijharia Nallah) and SW5 (Mendaki River D/S of mine lease) are 580 and 540 MPN/100ml respectively and when compared to the CPCB norm for surface water they fall under Class C (Drinking water source after conventional treatment and after disinfection) and rest of the samples SW2, SW3 and SW4 fall in Class B (Drinking water source after conventional treatment and after disinfection). PP reported that the pH of the ground water samples is neutral in the range of 7.35 to 7.75. Ground water samples

collected are clear and the turbidity of the all samples are less the detection limit except of GW3 (Hand Pump at Vill. Bheisgaon) with 0.63 NTU. Total dissolved solids (TDS), total hardness and total alkalinity is found to high in GW4 among the other samples with 347 mg/l and 160 mg/l respectively. The concentrations of metals in ground water samples are found well within the norms but the concentrations of Al in GW3 is 0.238 mg/l and Mn concentration in GW4 is 0.335 mg/l has marginally exceeded the norm of 0.2 and 0.3 mg/l respectively.

**Soil quality:** PP submitted that in the study area the soil sample S2 (Supgaon village), S4 (Bharanda village) and S5 (Khodgaon village) shows strongly acidic with pH range of 5.06 to 5.13. The soil sample S3 (Aturbeda) is moderately acidic with pH of 5.94 and S1 (near Anjarel Village) is slight acidic in nature with pH of 6.15. The conductivity in the soil samples is in the range of 21.5 to 60.4  $\mu$ S/cm which indicates that all the soil samples are non saline which are good for plants. Organic carbon was found to be low in S5 (Khodgaon), medium in S2 (Supgaon Village) and rest of the three samples S1, S3 and S4 were in high concentration range. Available Phosphorus levels are found to be in low concentration range and available Nitrogen levels are found to be medium concentration range, whereas availability of Potassium is found to be in medium range in all samples except S1 with high concentration range. As the major nutrients are not showing any major deviation among the tested soil samples, it is indicating that there is no impact on nutrient contents of soil. The collected soil samples are not showing any signs of increase in alkalinity (Sodium/Potassium). The micronutrients are in higher concentration i.e. above critical limits in the entire tested soil sample except in S1 for Mn which is within the critical limit. Among the micro nutrients, the following order can be seen for the tested soil samples, Fe > Mn > Cu > Zn.

**Traffic Density:** Traffic Density was studied on the proposed haul routes at 3 locations at hourly intervals continuously for 7 days from 16<sup>th</sup> – 22<sup>nd</sup> Feb., 2021 at TD-1: SH-5 near Dandakvan Security Camp TD-2: SH-5 at Tadoki and TD-3: SH-5 just before approach road to Antagarh Railway Siding. 0.8 MTPA ore will be dispatched from SAIL's Rowghat Mine by road initially up to Antagarh Rly Siding (haulage distance ~58 km). The haulage includes ~10 km of concrete road constructed from the mine to SH-5. Present maximum traffic volume on SH-5 near Dandakvan Security Camp is ~1450 Passenger Car Units (PCUs) per day i.e., within the Suggested Design Service Volume. Just beyond Tadoki, the maximum traffic is ~3090 PCUs /day whereas near Antagarh just before the diversion leading to Antagarh siding the maximum traffic is ~4340 PCUs /day. Thus, the present traffic volume on this stretch of SH-5 is within the threshold limits for intermediate lane roads. The max cumulative AAQ values among all receptors are expected to be ~102  $\mu$ g/m<sup>3</sup>, ~59  $\mu$ g/m<sup>3</sup>, ~21.7  $\mu$ g/m<sup>3</sup> and 35.1  $\mu$ g/m<sup>3</sup> for PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub> and NO<sub>x</sub> respectively without management measures. With stringent management measures in place actual increase in ground level concentration of pollutants, especially PM<sub>10</sub> & PM<sub>2.5</sub>, will be less than the predicted values.

9. The Project Proponent submitted that the entire mine lease area of 2028.797 ha is Forest Land. PP obtained Stage II Forest Clearance for diversion of 883.22 ha forest land vide letter no. F.No.8-44/2005-FC (Pt), dated 3<sup>rd</sup> Aug., 2009. PP also submitted that mining and allied activities will be confined to the diverted area.

10. The Project Proponent submitted the EC compliance report certified by Integrated Regional Office (IRO), Chhattisgarh vide Lr No. 3-45/2009(ENV)/215 dated 02.08.2021. PP submitted the Consent to Operate issued by the Chhattisgarh Environment Conservation Board vide 4844/TS/CECB/2018 under section 21 of the Air (Prevention and Control of Pollution) Act 1981 and 4842/TS/CECB/2018 dated 06.09.2018 under section 25/26 of the Water (Prevention and Control of Pollution) Act, 1974 for mining of Iron ore of 14.0 million TPA for a period of 1 (one) year from the first day of the month of the commissioning of mine.

11. The Project Proponent submitted the Annexure-III certified by the Mining Officer, North Bastar, Kanker of Dept., of Mines and Geology, Govt., of Chhattisgarh for the period 1993-94 to 2021-22. PP also submitted that the mining activity commenced on 05.02.2021 and so far, only 186.395 Tonne (2020-21) has been mined out since the grant of EC dated 04.06.2009.

12. The Project Proponent submitted that WP (Civil) no. 795/2021 to quash the EC amendment dated 08.06.2017 has been dismissed in Hon'ble High Court of Chhattisgarh.

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

The proposal for extension of validity of Environmental Clearance was 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. During the meeting, the Committee noted that the PP informed that the WP (Civil) no. 795/2021 has been dismissed by Hon'ble High Court. The Committee was of the view that since the petition against the amendment in EC dated 08.06.2017 was dismissed in favour of PP, the amendment in EC earlier dated 08.06.2017 is still valid and therefore the Committee **recommended** the proposal of M/s SAIL for extension of validity of amendment in Environmental Clearance granted on 08.06.2017 for Rowghat Iron Ore mine Deposit F [ML area 2028.797ha and production capacity 14 million TPA] for transportation of 0.3 MTPA of iron ore from Rowghat ML to Keonti rail head by road and further onwards to Dalli Rajhara/Bhilai by rail located in Matla Reserve Forests, in Narainpur and Kanker District, Chhattisgarh for a period of another two (2) years i.e., till 31.12.2023 along with the following specific conditions: -

- i. The Project Proponent shall strictly comply the EC condition prescribed in the earlier environmental clearance letter dated 04.06.2009, 15.03.2010 and 08.06.2017.

- ii. Monthly progress on construction of Rail link to be used for transportation of mineral shall be submitted to IRO.
- iii. The Project Proponent during the transportation through road shall ensure that all the mitigative measures are implemented in such a way that no dust generated and actual monthly air quality monitoring data for transportation should be maintained and produced during six monthly compliance reports to IRO. In case if any adverse impact is encountered IRO shall immediately intimate the same to the Ministry.
- iv. The Project Proponent should explore the possibility for shifting to clean energy using electric equipment for cleaner production options to reduce the emission generated from various machinery/equipments.
- v. The Project Proponent shall adhere to the recommendation of CSIR-NEERI report on “Carrying capacity study for Environmentally Sustainable Iron and Manganese ore mining activity in Keonjhar, Sundargarh and Mayurbhanj districts of Odisha State”.

**Day 3: 2<sup>nd</sup> December, 2021 (Thursday)**

**3.1 Proposal for Environmental Clearance for expansion of Quartz & Feldspar mining project for enhancement of production from 12,000 TPA to 6,00,000 TPA in the mine lease area of 130 ha (M.L. No.-01/1993) located at Village: SanwalpuraTavran, Tehsil:Sri Madhopur, District: Sikar, Rajasthan of M/s Goyal Mineral Grinding Mills – [File No: J-11015/49/2017-IA.II(M), Proposal No: IA/RJ/MIN/204157/2017, Consultant: N.S. Enviro-Tech Laboratories & Consultants] – Reconsideration for EC**

**1. EAC Meeting Details:**

EAC meeting	42 <sup>nd</sup> EAC meeting
Date of Meeting	30 <sup>th</sup> November to 3 <sup>rd</sup> December, 2021

**2. Project details:**

Name of the Proposal	Expansion of Quartz & Feldspar Mining Project, M.L.No. 01/1993, Area 130.0 Ha, Near Village SanwalpuraTavran, Tehsil Shri Madhopur, District Sikar Rajasthan, M/s Goyal Minerals Grinding mills.	
Location	Village	SanwalpuraTavran
	Tehsil/Taluka	Shri Madhopur
	District	Sikar
	State / UT	Rajasthan
	Latitudes	27° 34'3.88" N to 27° 33'53.9" N
	Longitudes	75° 54'24.56" E to 75° 53'57.62" E
	SoI Topo sheet No.	45M/14,
Company's Name	M/s Goyal Minerals Grinding Mills	
Accredited Consultant and	N.S. Enviro-Tech Laboratories & Consultants	

certificate no.	Certificate No. NABET/EIA/1922/RA/0173
KML file	Submitted
Seismic zone	II

### 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 amendment
Mining lease Area	130.0 Ha.

### 4. ToR/EC Details:

ToR Proposal No.	IA/RJ/MIN/64032/2017
Date of online application	19/04/2017
EAC meeting date for ToR	27-28 April, 2017
ToR Letter No.	J-11015/49/2017-IA.II(M)
ToR grant Date	09th November, 2017
Production capacity	6,00,000 TPA(ROM)
EIA/EMP uploaded on	21 April, 2021
Previous EC details	J-11015/19/99-IAII(M) dated 2nd December, 1999
Earlier EAC meetings for EC	1. 31 <sup>st</sup> EAC meeting held during 14 <sup>th</sup> to 15 <sup>th</sup> June, 2021. 2. 38 <sup>th</sup> EAC meeting held during 29 <sup>th</sup> September to 30 <sup>th</sup> September, 2021

### 5. Lease Details:

Granted Prospecting Licence	Area	130.0 Ha.
	Execution date	24/09/1988
	PL No.	01/1993
Prospecting operation, Commence date	This is Existing Mining Lease ML NO 01/1993. The mining operation was commenced on 24/09/1988.	
Validity of mine lease	23/09/2048	

### 6. ADS details:

S.No.	ADS dated 08.10.2021	Reply dated 11.11.2021
1	The project proponent needs to upload the copy of latest certified compliance report, updated EIA/EMP report (including chapter 12), copy of cluster certificate certified past production details (Annexure III) and authenticated District, survey report as per Ministry's Notification S.O. 3611(E) dated 25.07.2018 on the PARIVESH portal.	Submitted updated EIA/EMP report (including chapter 12), the latest certified compliance report, Cluster Certificate, Certified past production details (Annexure –III), Authenticated DSR report with the ADS reply.

2	The project proponent needs to submit the justification of sudden shock load on the environment by jumping 50 times from the production capacity granted in previous Environmental Clearance i.e. expansion from 12,000 TPA to 6,00,000 TPA.	The justification is submitted by comparing Mining Plan 12,000 TPA to 6,00,000TPA and Environment Load Statement.
3	The project proponent needs to address all the public hearing concerns, EMP with equivalence on capital expenditure with extent of 2 – 2.5% of the total project cost. The project cost must also include land cost, if purchased. If the land is being leased, then amount of the contract agreement has to be part of project cost.	All public hearing issues with time bound action plan and revised EMP with equivalence on capital expenditure with extent of 2-2.5% of the total project cost is submitted.
4	The project proponent needs to submit the complete breakup of total project cost.	Complete breakup plan of total project cost is submitted.
5	The project proponent needs to submit the latest remote sensing imagery from NRSA to get a clear picture of compliance of plantation and greenbelt on the mine site.	The latest remote sensing imagery from NRSA to get a clear picture of compliance of plantation and greenbelt on mine site is submitted.

## 7. Observation and Recommendation of the Committee:

The proposal for Environmental Clearance was considered in the 42<sup>nd</sup>EAC meeting held during 30<sup>th</sup> November to 3<sup>rd</sup> December, 2021. After detailed deliberations, the Committee observed that there will be an instant shock load on the environment by jumping 50 times from the production capacity granted in previous Environmental Clearance i.e. expansion from 12,000 TPA to 6,00,000 TPA. Also, the project proponent submitted that currently mine is not in operation. During the presentation, the Committee was not convinced whether the site is ready to bear this instant shock load. The committee observed that the PP could not able to present the transport route for road transportation for expansion and corresponding Environment Management Plan. The Committee also noted that the compliance of previous Environmental Clearance is grossly inadequate particularly regarding plantation. The Committee was of the view that the project proponent must give the evidence of compliance of all the Environmental Clearance conditions through an IRO report for further consideration of this expansion case. The Committee also noted that the project cost has to be revised and EMP for the public concerns needs to be reworked with the proper budget. The Committee also observed that the project proponent gave an unsatisfactory reply and explanation for the ADS point no. 2 i.e. *“The project proponent needs to submit the justification of sudden shock load on the environment by jumping 50 times from the production capacity granted in previous Environmental Clearance i.e. expansion from 12,000 TPA to 6, 00,000 TPA”*. After

detailed deliberations made by the project proponent and the consultant, the Committee **deferred** the proposal due to want of following information:

- 1) The Project Proponent shall undertake the plantation in peripheral zone and ensure that the plantation in peripheral zone and plantation along haul roads should be completed within 6 months from now and submit proper report on plantation with at least 90% survival rate. Casualties of the previous year should be replaced other than the saplings proposed to be planted every year. PP shall provide tree guard to maintain the early stages of plant growth.
- 2) The project proponent needs to submit the revised project cost and revisit the EMP for the public concerns with the proper budget.
- 3) The project proponent needs to submit the proper explanation on the specific condition no. 5 of previous EC condition i.e. "The stage wise reclamation programme in the lease hold area should be implemented. The land reclamation and back filling should be carried out from the fourth year of the mining operations".

**3.2 Proposal for Terms of Reference for Sand Mining in Riverbed of Wardha River with production capacity of 1.14 MTPA (0.70 Mm<sup>3</sup>) in ML Area of 327.84 ha located in village Shivanichor (Chandrapur Taluka), Hadsati, Nandgaon, Visapur (Ballarpur Taluka), Dhidsi, Kadholi BK, Charli, Kolgaon (Rajura Taluka) of Chandrapur District, Maharashtra by Western Coalfields Limited (Chandrapur Area) – [File. No: J-11015/92/2021-IA.II (NCM), Proposal No: IA/MH/MIN/237600/2021; Consultant: Central Mine Planning and Design Institute Limited] – ToR**

**1. EAC Meeting Details:**

EAC meeting	42 <sup>nd</sup> EAC meeting
Date of Meeting	30 <sup>th</sup> November to 3 <sup>rd</sup> December, 2021

**2. Project details:**

Name of the Proposal	Sand Mining in Riverbed of Wardha River with production capacity of 1.14 MTPA (0.70 Mm <sup>3</sup> ) in ML Area of 327.84 ha.	
Location	Village	Shivanichor (Chandrapur Taluka), Hadsati, Nandgaon, Visapur (Ballarpur Taluka), Dhidsi, Kadholi BK, Charli, Kolgaon (Rajura Taluka)
	Tehsil/Taluka	Chandrapur, Ballarpur, Rajura
	District	Chandrapur
	State / UT	Maharashtra
	Latitudes	19°50'12.64" N to 19°53'27.86" N



	Longitudes	79°15'16.07"E to 79°20'25.44" E
	SoI topo sheet No.	56 M/5 E44B5 (OSM)
Company's Name	M/s Western Coalfields Limited (Chandrapur Area)	
Accredited Consultant and certificate no.	Central Mine Planning and Design Institute Limited Certificate No. QCI/NABET/EIA/ACO/21/2128	
KML file	Submitted	

### 3. Category details:

Category of the project	Category "A", Project or Activity 1(a) – 3 for Mining of Mineral
Provisions	EIA Notification dated 14 <sup>th</sup> September 2006
Mining lease Area	327.84 ha

### 4. ToR Details:

ToR Proposal No.	IA/MH/MIN/237600/2021
Date of online application	10/11/2021
Production capacity	1.14 MTPA (0.70 Mm <sup>3</sup> )
Additional information	PP submitted that the production capacity of 2.46 MTPA (1.50 Mm <sup>3</sup> ) annually was proposed in the earlier approved mining plan. However, maximum annual production in past 20 years was 1.804 MTPA (1.1 Mm <sup>3</sup> ) in 2006-07. Total 22.8288 MTPA (13.92 Mm <sup>3</sup> ) of sand was excavated from year 2001-02 to 2020-21. Thus, average sand production was 1.14 MTPA (0.70 Mm <sup>3</sup> ) in a year since approval of previous Mining Plan.
Reason for sand mining	Sand mining is required for sand stowing in the underground Coal Mines

### 5. Lease Details:

Granted mine lease by the Govt. of Maharashtra	Area	327.84 ha
	Order no.	MMH1276/50844 (1210)/ IND-9
	Order date	20-08-1977
	Execution date	18-02-1978
Renewal of mine lease	The mining lease for Sand Mining was renewed vide Maharashtra Government letter dated 9 <sup>th</sup> May, 2000 for further 20 years	
Validity of mine lease	08/05/2020	
Additional information	PP submitted that as per the provision of MM(DR) Amendment Act, 2015, Section 8A(3) all mining lease granted before the commencement of the Mines and Minerals (Development and Regulation) Amendment Act, 2015 shall be deemed to have been granted for a period of fifty years. Thus, mining lease for sand granted to Western Coalfields is deemed to be valid for fifty years from 18-02-1978 i.e. up to 18-02-2028	

## 6. Observation and Recommendation of the Committee:

The proposal for Terms of Reference was considered in the 42<sup>nd</sup> EAC meeting held during 30<sup>th</sup> November to 3<sup>rd</sup> December, 2021. 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. During the presentation, the project proponent orally submitted that they have already excavated sand from Wardha river bed for the purpose of sand stowing. Therefore, the Committee **deferred** the proposal due to want of following information:

- 1) The project proponent needs to submit the authenticated District Survey Report as per the Ministry's Notification S.O. 3611(E) dated 25.07.2018.
- 2) The project proponent needs to submit the details regarding the excavation of sand for the purpose of sand stowing for examination of the proposal for Terms of Reference.
- 3) The project proponent needs to submit the CTO details for excavation of sand.

### 3.3 The proposal for Amendment in Environmental Clearance for Ramgad Iron Ore Mine with the production capacity of 2.0 MTPA in the mining lease area of 50.0 ha located at R.M. Block, Sandur Taluk, Bellary District, Karnataka by Zeenath Transport Company- File. No: J-11015/220/2008- IA.II(M), Proposal No: IA/KA/MIN/238520/2021, Consultant: Ampl Environ Pvt Ltd.] - Amendment in EC

#### 1. EAC Meeting Details:

EAC meeting	42 <sup>nd</sup> EAC meeting
Date of Meeting	30 <sup>th</sup> November to 3 <sup>rd</sup> December, 2021

#### 2. Project details:

Name of the Proposal	Amendment in Environmental Clearance dated 29.10.2008 for Ramgad Iron Ore Mine with the production capacity of 2.0 MTPA in the mining lease area of 50.0 ha	
Location	Village	R.M. Block
	Tehsil	Sandur
	District	Bellary
	State / UT	Karnataka
	Latitudes	15°04'34.13" N to 15°05'27.16" N
	Longitudes	76°29'04.82"E to 76°30'10.81" E

	SoITopo sheet No.	57 A/8, 57 A/12
Company's Name	M/s Zeenath Transport Company	
Accredited Consultant and certificate no.	Ampl Environ Pvt Ltd. NABET/EIA/2023/1A0061	
KML file	Submitted	

### 3. Category details:

Category of the project	Category "B1", Project or Activity 1(a) – 3 for Mining of Mineral
Provisions	EIA Notification dated 14 <sup>th</sup> September 2006
Mining lease Area	50.0 ha
Reason for applying in MoEF&CC	EC was granted by MoEF&CC vide letter no. J-11015/220/2008 dated 29.10.2008.

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

The proposal for Amendment in Environmental Clearance was considered in the 42<sup>nd</sup> EAC meeting held during 30<sup>th</sup> November to 3<sup>rd</sup> December, 2021. The project proponent informed the Member Secretary and the EAC Committee regarding the withdrawal of the application of amendment in Environmental Clearance due to some reason vide E-mail dated 2<sup>nd</sup> December, 2021. Therefore, the Committee **returned the proposal in the present form.**

**3.4 The proposal for Amendment in Environmental Clearance for S.A. Thwab Iron Ore mine project in the mine lease area of 24.72 ha located at Village R.M. Block, Kamgad, Tehsil Sandur, District Bellary, Karnataka of M/s S.A. Thwab & Company – [File No: J-11015/227/2006-IA.II (M), Proposal No: IA/KA/MIN/220849/2021, Consultant: Ampl Environ Pvt Ltd.] – Amendment in EC**

#### 1. EAC Meeting Details:

EAC meeting	42 <sup>nd</sup> EAC meeting
Date of Meeting	30 <sup>th</sup> November to 3 <sup>rd</sup> December, 2021

#### 2. Project details:

Name of the Proposal	Amendment in Environmental Clearance dated 22.03.2007 for S.A. Thwab Iron Ore mine project in the mine lease area of 24.72 ha	
Location	Village	R.M. Block, Kamgad
	Tehsil	Sandur
	District	Bellary
	State / UT	Karnataka
	Latitudes	15°08'29.76" N to 15°09'01.24" N
	Longitudes	76°26'55.85" E to 76°27'38.04" E
	SoITopo sheet	57 A/8, 57 A/12

	No.	
Company's Name	M/s S.A. Thwab& Company	
Accredited Consultant and certificate no.	Ampl Environ Pvt Ltd. NABET/EIA/2023/1A0061	
KML file	Submitted	

### 3. Category details:

Category of the project	Category "B1", Project or Activity 1(a) – 3 for Mining of Mineral
Provisions	EIA Notification dated 14 <sup>th</sup> September 2006
Mining lease Area	24.72 ha (Forest land)
Reason for applying in MoEF&CC	1. EC was granted by MoEF&CC vide letter no. J-11015/227/2006dated 22.03.2007. 2. Whole mine lease area is a forest land.

### 4. EC Details:

EC Amendment Proposal No.	IA/KA/MIN/220849/2021
Date of online application	03/11/2021
Documents submitted	Previous EC letter, production enhancement letter of CEC, past production details, approved mining plan
Previous EC letter no.	J-11015/220/2008-IA-II(M)
Previous EC date	22.03.2007for 0.50 to 2.00 MTPA of iron ore
Reason of Amendment	CEC has enhanced the permissible production limit from 0.035 MTPA to 0.0675 MTPA.

### 5. Lease Details:

Granted mine lease by the Govt. of Karnataka	Area	24.72 ha
	Initiallease grant	04.08.1981 to 03.08.2001
	1st Renewal	04.08.2001 to 03.08.2021
	2nd Renewal	04.08.2001 to 03.08.2031

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

The proposal for Amendment in Environmental Clearance was considered in the 42<sup>nd</sup> EAC meeting held during 30<sup>th</sup> November to 3<sup>rd</sup> December, 2021. The Committee noted that the project proponent had obtained the Environmental Clearance from the MoEF&CC vide letter no. J-11015/227/2006-IA-II (M) dated 22.03.2007under the provision of EIA Notification, 2006 for iron ore production of 0.15 MTPA over mine lease area of 24.72 ha for a period of 8 years considering life of mine. Further, SEIAA, Karnataka granted the extension of validity of Environmental Clearance and change of name of the project proponent in accordance with the EIA Notification 2006, vide letter no. SEIAA 15 Misc 2017, dated

25.10.2017 for period of 3 years i.e. up to 24.10.2020 for production capacity of 0.035 MTPA. Further, SEIAA, Karnataka granted the extension of validity of Environmental Clearance vide letter no. SEIAA 57 MIN (VIOL) 2018, dated 07.12.2018 for iron ore production of 0.035 MTPA upto 03.08.2031 and the amendments made as per the limit fixed by the Central Empowered Committee.

The project proponent did not attend the meeting. After detailed examination of the documents submitted by the project proponent the Committee was of the view that the instant proposal falls under Category Bas per the Ministry's Notification S.O 3977 (E) dated 14.08.2018 as the mine lease area is 24.72 ha i.e. less than 100ha. Therefore, the Committee **recommended to transfer the proposal** to State Level Impact Assessment Authority (SEIAA), Karnataka.

**3.5 The proposal under para 7(ii) of EIA Notification 2006 for Amendment in Environmental Clearance dated 24.01.2012 for Dhobil Iron Ore Mining Project with production Capacity of 0.75 MTPA ROM over the mining lease area of 513.036 ha located at village Dhobil, Tehsil Manoharpur, Dist. West Singhbhum, Jharkhand by M/s SAIL –[File No: J-11015/251/2009-IA.II(M), Proposal No: IA/JH/MIN/238525/2021, Consultant:MECON LIMITED] - Amendment in Environmental Clearance**

**1. EAC Meeting Details:**

EAC meeting	42 <sup>nd</sup> EAC meeting
Date of Meeting	30 <sup>th</sup> November to 3 <sup>rd</sup> December, 2021

**2. Project details:**

Name of the Proposal	The proposal under para 7(ii) of EIA Notification 2006 for Amendment in Environmental Clearance dated 24.01.2012 for Dhobil Iron Ore Mining Project with production Capacity of 0.75 MTPA ROM over the mining lease area of 513.036 ha.	
Location	Village	Dhobil
	Tehsil	Manoharpur
	District	West Singhbhum
	State / UT	Jharkhand
	Latitudes	22°14'54.74" N to 22°15'53.1" N
	Longitudes	85°16'27.1" E to 85°16'27.9" E
	SoI Toposheet No.	73F/7
Company's Name	M/s SAIL	
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 Mineraland 2(b) Mineral beneficiation
Provisions	EIA Notification dated 14 <sup>th</sup> September 2006
Mining lease Area	513.036 ha
Reason for amendment	BokaroSteel Plant for continuation of iron ore transportation through road for another 5 years beyond 23 <sup>rd</sup> January, 2022 and change in product mix by including excavation and dispatch of iron ore fines from existing fines dumps maximum up to 0.15 MTPA for sale in open market or conversion into pellets for captive consumption without change in EC production capacity of 0.75 MTPA under para 7(ii) of EIA Notification 2006

#### 4. EC Details:

EC Amendment Proposal No.	IA/JH/MIN/238525/2021
Date of online application	15/11/2021
EC Letter Details	1) EC vide letter no. J-11015/251/2009-IA.II (M) dated 24.01.2012 & Modification dated 01.05.2012. 2) EC Amendment vide letter no. J-11015/251/2009-IA.II (M) dated 19.04.2017.
Production capacity	0.75 MTPA (ROM)

#### 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

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

The proposal for Amendment in Environmental Clearance was considered in the 42<sup>nd</sup> EAC meeting held during 30<sup>th</sup> November to 3<sup>rd</sup> December, 2021. After detailed deliberations, the Committee noted that the project proponent filled form-2 instead of form-4 for the amendment in Environment Clearance. The Committee advised the

project proponent to apply separately in the correct form for two separate proposals i.e. amendment for road transportation of iron ore with a proper justification for seeking extension of amendment granted in 2017 and another proposal for excavation and dispatch of low grade iron ore fines from fines dump i.e., maximum up to 0.15 MTPA for sale in open market and conversion into pellets for captive consumption with in environment clearance capacity of 0.75 MTPA. The Committee also noted that the project proponent submitted the instant proposal on 15.11.2021 i.e. just around 2 months before the expiry of the permission for road transportation. Also, the Committee was of the view that the project proponent needs to restrict the production to 0.6 MTPA and submit the required documents accordingly for amendment in EC for due diligence by the Committee. Therefore, the Committee **returned the proposal in the present form**. 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

**DAY 4: 3<sup>rd</sup> December, 2021 (Friday)**

**4.1 The proposal for Environmental Clearance for the existing building stone mine (Quarry, Minor Mineral) project for expansion of mine lease area from 3.6745 ha to 4.9273 ha with proposed production of 1,14,000 MTPA located at Tharuyur and Keezhariyur Villages, Koyilandy Taluk, Kozhikode District, Kerala by M/s Payyoli Granites Pvt. Ltd. - [Proposal no: IA/KL/MIN/238589/2013; File No. IA-J-11015/93/2021-IA.II(NCM); Consultant: Environmental Engineers and Consultants Pvt. Ltd.] – EC**

**EAC Meeting Details:**

EAC meeting	42 <sup>nd</sup> EAC meeting
Date of Meeting	30 <sup>th</sup> November to 3 <sup>rd</sup> December, 2021

The proposal of M/s Payyoli Granites Pvt. Ltd. is for grant of Environmental Clearance for existing building stone mine (Quarry, Minor Mineral) project for expansion of mine lease area from 3.6745 ha to 4.9273 ha with proposed production of 1, 14,000MTPA located at at Re-Survey Nos. 80/1A1, 81/2 of Keezhariyur Village and re-survey no. 72 of Tharuyur Villages Koyilandy Taluk, Kozhikode District, Kerala. The mine lease area is located between Latitude 11°30'49.09" N to 11°31'00.01" N

and Longitude 75°40'55.06" E to 75°41'06.09" E. The mine lease area falls under the Survey of India Toposheet No. 49M/10 (C43D10) and 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. The project proponent submitted that earlier Environmental Clearance for mine lease area of 3.6475 ha was obtained from SEIAA, Kerala vide Order No. 100/SEIAA/KL/1537/2013 dt. 22/11/2013 for an annual production of 2,20,000 MT, with a life of mine 6.25 years. Now, the project proponent has applied for EC for expansion in mine lease area from 3.6745 ha to 4.9273 ha vide proposal no. IA/KL/MIN/238589/2013 on 13.11.2021. The project proponent has submitted form 1, form 2, PFR, EMP, Approved Mining Plan, Certified Compliance Report, Cluster Certificate and DSR as per 2016 Notification for the appraisal of the proposal. The project proponent submitted that Letter of Intent was obtained vide letter no. 3397/M3/2019 on 31.03.2021. Mining plan was approved vide letter no. DOZ/M-616/19 dated 06.09.2019. The project proponent submitted that life of mine is about 12 years. The mine lease area of 4.9273 ha is a private land. The project proponent submitted that capital and recurring cost for EMP is Rs. 1.21 Crore and Rs. 0.46 Crore respectively. Total project cost is Rs. 4.22 Crore and direct manpower requirement is 45 persons.

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

The proposal for Environmental Clearance was considered in the 42<sup>nd</sup> EAC meeting held during 30<sup>th</sup> November to 3<sup>rd</sup> December, 2021. After detailed deliberations, the Committee noted that the project proponent did not submit 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". Therefore, the Committee **deferred** the proposal. The project proponent needs to submit the above information on Parivesh Portal.

### 4.2 The proposal for validity extension of Environmental Clearance for the Granite Building Stone quarry project of M/s Karimala Granites and Aggregates Pvt.Ltd. in the mining lease area of 9.61.18 Ha located at Kangazha Village, Changanassery Taluk, Kottayam District, Kerala - [File No. IA-J-11015/94/2021-IA.II(NCM); Proposal No. IA/KL/MIN/236995/2021; Consultant: SBA Enviro Systems Pvt. Ltd.] – Validity extension of EC

#### EAC Meeting Details:

EAC meeting	42 <sup>nd</sup> EAC meeting
Date of Meeting	30 <sup>th</sup> November to 3 <sup>rd</sup> December, 2021



The proposal of M/s Karimala Granites and Aggregates Pvt. Ltd. is for grant of validity extension of Environmental Clearance for the Granite Building Stone quarry project in the mine lease area of 9.61.18 Ha located at Kangazha Village, Changanassery Taluk, Kottayam District, Kerala. The mine lease area is located between Latitude 9°30'31.5" N to 9°30'45.91" N and Longitude 76°41'8.1" E to 76°41'18.2" E. The mine lease area falls under the Survey of India Toposheet No. 58C/10 and 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. The project proponent submitted that earlier Environmental Clearance for mine lease area of 9.61.18 Ha was obtained from SEIAA, Kerala vide Order No. 222/SEIAA/KL/349/2014 dated 29-11-2014 for production of 1500 TPD, with a life of mine 12 years. The validity of EC was 5 years i.e. 28.11. 2019. Now, the project proponent has applied for validity extension of Environmental Clearance vide proposal no. IA/KL/MIN/236995/2021 on 03.11.2021. The project proponent has applied in form 2 instead of form 6 for the validity extension of EC. The project proponent has submitted form 2, previous EC letter, copy of lease deed, EMP, Approved Mining Plan, DSR as per 2016 Notification for the appraisal of the proposal. The project proponent submitted that lease deed was granted to M/s Karimala Granites and Aggregates Pvt. Ltd. on 29.03.2016 for MLA of 5.2309 ha. The project proponent submitted that life of mine is about 12 years. The mine lease area of 9.61.18 Ha is a private land. The project proponent submitted that recurring cost for EMP is Rs. 0.1 Crore per annum. Total project cost is Rs. 7.96 Crore and direct manpower requirement is 40 persons.

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

The proposal for validity extension of Environmental Clearance was considered in the 42<sup>nd</sup> EAC meeting held during 30<sup>th</sup> November to 3<sup>rd</sup> December, 2021. The project proponent informed the Member Secretary and the Committee regarding the withdrawal of the application for validity extension of the Environmental Clearance vide letter dated 06.11.2021 and an E-mail dated 26.11.2021. Therefore, the Committee **returned the proposal in the present form.**

**4.3 The proposal for Environmental Clearance for the Granite Building Stone quarry of M/s Kavumkal Granites in the mining lease area of 4.0262 Ha area located at Athikkayam village, Ranny Taluk, Pathanamthitta District, Kerala - [Proposal no: IA/KL/MIN/237190/2020; File No. IA-J-11015/95/2021-IA.II(NCM); Consultant: SBA Enviro Systems Private Limited] – EC**

### **EAC Meeting Details:**

EAC meeting	42 <sup>nd</sup> EAC meeting
Date of Meeting	30 <sup>th</sup> November to 3 <sup>rd</sup> December, 2021

The proposal of M/s Kavumkal Granites is for grant of Environmental Clearance for Granite Building Stone quarry in the mine lease area of 4.0262 Ha area located at Athikkayam village, RannyTaluk, Pathanamthitta District, Kerala. The mine lease area is located between Latitude 9°24'54.46" N 9°25'3.39" N and Longitude 76°50'21.19" E to 76°50'28.83" E. The mine lease area falls under the Survey of India Toposheet No. 58C/15 and 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. The project proponent submitted that Terms of Reference was obtained from SEIAA, Kerala vide letter no. 1259(A)/EC2/2019/SEIAA date 12/11/2020 for production of 185637.8 MTPA. Now, the project proponent has applied for EC vide proposal no. IA/KL/MIN/237190/2020 on 03.11.2021. The project proponent has submitted form 1, form 2, copy of LOI, PFR, EMP, approved mining plan, Authorization letter, Cluster Certificate and DSR as per 2016 Notification for the appraisal of the proposal. The project proponent submitted that Letter of Intent was obtained vide letter no. 4072/M3/2019 on 30.05.2019. Mining plan was approved vide letter no. 5281/M3/2018 dated 23/06/2018. The project proponent submitted that life of mine is 10 years. The mine lease area of 4.0262 Ha is a private land. The project proponent submitted that capital and recurring cost for EMP is Rs0.22Crore and Rs. 0.03Crore respectively. Total project cost is Rs. 2.225Crore and direct manpower requirement is 20 persons.

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

The proposal for Environmental Clearance was considered in the 42nd EAC meeting held during 30th November to 3rd December, 2021. After detailed deliberations, the committee noted that the project proponent did not submit 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". Therefore, the Committee **deferred** the proposal. The project proponent needs to submit the above information on Parivesh Portal.

**4.4 The proposal for Environmental Clearance for ordinary earth mining project of Shri BabuK. over an area of 0.9378 ha located at Peechivillage, Thrissur Taluk, Thrissur District, Kerala - [Proposal no: IA/KL/MIN/237170/2021; File No. IA-J-11015/96/2021-IA.II (NCM); Consultant: SBA ENVIRO SYSTEMS PVT LTD] – EC**

**EAC Meeting Details:**

EAC meeting	42 <sup>nd</sup> EAC meeting
Date of Meeting	30 <sup>th</sup> November to 3 <sup>rd</sup> December, 2021

The proposal of Shri Babu K. is for grant of Environmental Clearance for ordinary earth mining project over an area of 0.9378 ha located at Peechi village, Thrissur Taluk, Thrissur District, Kerala. The mine lease area is located between Latitude 10°34'26.28" N to 10°34'29.17" N and Longitude 76°23'32.63"E to 76°23'36.41"E. The mine lease area falls under the Survey of India Toposheet No. 58B/6 and falls in Seismic Zone V. 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. The project proponent submitted the application for obtaining Environmental Clearance vide proposal no. IA/KL/MIN/237170/2021 on 03.11.2021. The project proponent has submitted form 2, PFR, approved mining plan, and DSR as per 2016 Notification for the appraisal of the proposal. The project proponent submitted that Letter of Intent for 0.9378 ha area was obtained vide letter no. 984/C2/TDO/2020 on 27 Aug 2021. The validity of LOI is 1 year from the date of issue. Mining plan was approved by Dept of Mining & Geology, Thrissur vide letter no. 1819/C2/TDO/2021 dated 04 Oct 2021. The total mineable quantity is 74480 MT. The project proponent submitted that life of mine is about 3 years. The mine lease area of 0.9378 ha is a private land. The project proponent submitted that recurring cost for EMP is Rs. 0.0005 Crore. Total project cost is Rs. 0.32 Crore and direct manpower requirement is 7 persons.

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

The proposal for Environmental Clearance was considered in the 42<sup>nd</sup> EAC meeting held during 30<sup>th</sup> November to 3<sup>rd</sup> December, 2021. After detailed deliberations, the committee noted that the project proponent did not submit 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". Therefore, the Committee **deferred** the proposal. The project proponent needs to submit the above information on Parivesh Portal.

**4.5 The proposal for Environmental Clearance for proposed Building Stone Minor Mineral Mining (Quarry) project over an area of 4.811 ha by M/s Delta Rock Products located at survey no. 82, 76 & 1 at Kottur Village, Koyilandi Taluk, Kozhikode District, Kerala - [Proposal no: IA/KL/MIN/236915/2021; File No. J-11015/97/2021-IA.II (NCM)] – EC**

**EAC Meeting Details:**

EAC meeting	42 <sup>nd</sup> EAC meeting
Date of Meeting	30 <sup>th</sup> November to 3 <sup>rd</sup> December, 2021

The proposal of M/s Delta Rock Products is for grant of Environmental Clearance for proposed Building Stone Minor Mineral Mining (Quarry) project over an area of 4.811 ha located at survey no. 82, 76 & 1 at Kottur Village, Koyilandi Taluk, Kozhikode District, Kerala. The mine lease area is located between Latitude 11°30'25.539" to 11°30'15.501"N and Longitude 75°48'27.131" to 75°48'05.525"E. The mine lease area falls under the Survey of India Toposheet No. C43D14 and 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. The project proponent submitted the application for obtaining Environmental Clearance vide proposal no. IA/KL/MIN/236915/2021 on 02.11.2021. The project proponent has submitted form 1, form 2, PFR, EMP, Approved Mining Plan and DSR as per 2016 Notification for the appraisal of the proposal. The project proponent submitted that Letter of Intent (LOI) vide letter no. 7922/M3/2017 dated 20.09.2017 for the project issued by Mining & Geology Department, Govt. of Kerala. The Eco-friendly Mining Plan prepared by approved Recognized Qualified Person (RQP) and is approved vide letter no. DOZ/M-1808/17 dated 26.09.2021 by Mining & Geology Department, Govt. of Kerala. This Mining plan is based on the requirements under the Kerala Minor Mineral Concession Rules, 2015. As per the approved mining plan, the maximum targeted annual production of proposed mine will be 2,88,847 MT. The project proponent submitted that recurring cost for EMP is Rs. 0.05 Crore and the estimated project cost will be Rs. 2.2 Crores. The expected life of mine estimated will be about 12 years. The mining operation will be carried out by opencast mechanized method as per the approved Mining Plan. The proposed project is in Private owned land. The project proponent submitted that application has been submitted by the project proponent independently.

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

The proposal for Environmental Clearance was considered in the 42<sup>nd</sup> EAC meeting held during 30<sup>th</sup> November to 3<sup>rd</sup> December, 2021. After detailed deliberations, the committee noted that the project proponent did not submit 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". Therefore, the Committee **deferred** the proposal. The project proponent needs to submit the above information on Parivesh Portal.

**4.6 The Proposal for the validity extension of the Environmental Clearance**

**for the quarry project of Mr K Sadanandan over an area of 15.3829 Ha located at VallicodeKottayam (V- Kottayam) ,KonniTaluk, Pathanamthitta, District, Kerala - [Proposal no: IA/KL/MIN/235031/2021; File No. IA-J-11015/98/2021-IA.II(NCM); Consultant: SBA Enviro Systems Private Limited] – Validity extension of environmental clearance**

**EAC Meeting Details:**

EAC meeting	42 <sup>nd</sup> EAC meeting
Date of Meeting	30 <sup>th</sup> November to 3 <sup>rd</sup> December, 2021

The proposal of Mr K Sadanandan is for grant of Environmental Clearance for the quarry project over an area of 15.3829 Ha located at VallicodeKottayam (V-Kottayam) ,KonniTaluk, Pathanamthitta, District, Kerala. The mine lease area is located between Latitude 9°12'25.669"N to 9°12'40.546"N and Longitude (E): 76°48'11.079"E to 76°48'33.907"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. The project proponent submitted earlier Environmental Clearance was obtained from SEIAA, Kerala vide Order No. 200/SEIAA/EC4/86/2014 dated 10-08-2015 which was valid till 09.08.2020. PP also submitted that on the basis of Hon'ble High court of Kerala W.P (C) NO. 12420 OF 2020, the validity of EC is extended up to 09-08-2022. The application for extension of EC validity till the life of mine is submitted to MoEF&CC vide proposal no. IA/KL/MIN/235031/2021 on 01.11.2021 for targeted annual production of 5,00,000 MTPA. The project proponent has applied in form 2 instead of form 6 for the validity extension of EC. The project proponent has submitted authorization letter, form 2, Approved Mining Plan, Certified Compliance Report and DSR as per 2016 Notification for the appraisal of the proposal. The project proponent submitted that seven quarrying leases and one quarrying permit have been issued from the Department of Mining and Geology w.e.f. 04-08-2003 to 10-02-2021 for the different Sy No's which is included in the area 15.3829Ha. The Mining Plan was approved by Dept. of Mines and Geology, Govt. of Kerala vide letter no. 1019/DOPTA/M/2021 dated 05/07/2021. The project proponent submitted that the life of mine is 25 years from EC issued (Approximately 5-year operation was over. The remaining life of mine is 20 years). The project proponent submitted that project cost is Rs. 500 Lakhs. The proposed project is in 15.3829 Ha of area out of which 4.2825 ha is private land and 11.1004 ha is government land.

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

The proposal for validity extension of Environmental Clearance was considered in the 42<sup>nd</sup> EAC meeting held during 30<sup>th</sup> November to 3<sup>rd</sup> December,

2021. The Project Proponent informed the Member Secretary and the Committee regarding the withdrawal of the application for validity extension of the Environmental Clearance vide letter dated 06.11.2021 and an E-mail dated 26.11.2021. Therefore, the Committee **returned the proposal in the present form.**

**4.7 The proposal for environmental clearance for the Proposed Granite Building Stone Quarry of Shri Ananthu Sunil over an area of 3.6153 ha located at Block No.- 29, Survey No. 231 part (Govt. Land) at Konnathady Village of Idukki Taluk, Idukki District, Kerala- [Proposal no: IA/KL/MIN/235144/2021; File No. IA-J-11015/78/2021-IA.II(NCM); Consultant: SBA Enviro Systems Private Limited] – EC**

**EAC Meeting Details:**

EAC meeting	42 <sup>nd</sup> EAC meeting
Date of Meeting	30 <sup>th</sup> November to 3 <sup>rd</sup> December, 2021

The proposal of Shri Ananthu Sunil is for grant of Environmental Clearance for proposed Granite Building Stone Quarry of Shri Ananthu Sunil over an area of 3.6153 ha located at Block No.- 29, Survey No. 231 part (Govt. Land) at Konnathady Village of Idukki Taluk, Idukki District, Kerala. The mine lease area is located between Latitude 09°54'47.03"N and Longitude 77°05'48.76"E. The mine lease area falls under the Survey of India Toposheet No. 58 G/01 and 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. The project proponent submitted the application for obtaining Environmental Clearance vide proposal no. IA/KL/MIN/235144/2021 on 22.10.2021. The project proponent has submitted form 2, PFR, EMP, Approved Mining Plan and DSR as per 2016 Notification for the appraisal of the proposal. The project proponent submitted that Letter of Intent (LOI) was issued vide letter no. 2564/M32020 dated 02.03.2021 for the project. The Eco-friendly Mining Plan was approved vide letter no. DOI/29/M/2020 dated 16.04.2021 by Mining & Geology Department, Govt. of Kerala which is valid till 15.04.2026. The proposed project is in private owned land. The capital cost for environment protection is Rs. 0.23 crore and recurring cost for EMP is Rs. 0.3 crore. Total project cost is 5.62 crore and manpower requirement is 46 persons.

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

The proposal for Environmental Clearance was considered in the 42<sup>nd</sup> EAC meeting held during 30<sup>th</sup> November to 3<sup>rd</sup> December, 2021. After detailed deliberations, the committee noted that the project proponent did not submit 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". Therefore, the Committee **deferred** the proposal. The project proponent needs to submit the above information on Parivesh Portal.

**4.8 The proposal for validity extension of Environmental Clearance for Granite Building Stone Quarry over an area of 9.6118 ha located at Kangazha village & Panchayath, Chenganassery Taluk, Kottayam District, Kerala by M/s Karimala Granites and Aggregates Pvt. Ltd. - [Proposal no: IA/KL/MIN/237424/2021; File No. J-11015/99/2021-IA.II (NCM); Consultant: SBA Enviro Systems Private Limited] – Validity extension of environmental clearance**

**1. EAC Meeting Details:**

EAC meeting	42 <sup>nd</sup> EAC meeting
Date of Meeting	30 <sup>th</sup> November to 3 <sup>rd</sup> December, 2021

The proposal of M/s Karimala Granites and Aggregates Pvt. Ltd. is for validity extension of Environmental Clearance for Granite Building Stone Quarry over an area of 9.6118 ha located at Kangazha village & panchayath, Chenganassery Taluk, Kottayam District, Kerala. The mine lease area is located between Latitude 09°54'42.9"N and Longitude 77°05'49.70"E. The mine lease area falls under the Survey of India Toposheet No. 58 G/01 and 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. The project proponent submitted that earlier Environmental Clearance was granted by SEIAA, Kerala vide letter no. 222/SEIAA/KL/349/2014 dated 29/11/2014 for 5 years. The project proponent submitted the application for validity extension of EC vide proposal no. IA/KL/MIN/237424/2021 on 06.11.2021. The project proponent has submitted form 6, earlier EC letter and Approved Mining Plan. The life of mine as per the previous mining plan is 12 years and 5-year production was taken from the area. Hence 7 Years of life is remaining. However, the life of mine may increase in case of not achieving the targeted mineable production. The total cost of the project is estimated at Rs. 7.96 crore.

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

The proposal for validity extension of Environmental Clearance was considered in the 42<sup>nd</sup> EAC meeting held during 30<sup>th</sup> November to 3<sup>rd</sup> December, 2021. The Committee also noted that the Environmental Clearance vide letter no.222/SEIAA/KL/349/2014 dated 29/11/2014 was valid till 28.11.2019. The project

proponent submitted the application online on 06.11.2021. In view of the above, the committee **deferred** the proposal due to want of the following:

- 1) The Project Proponent needs to submit the detailed justification of the above as per the Ministry's Notification vide S.O. 2944 (E) dated 14th September, 2016 which states that:
  - (a) within thirty days after the validity period of Environmental Clearance, such cases shall be referred to concerned Expert Appraisal Committee or State Level Expert Appraisal Committee or District Level Expert Appraisal Committee and based on their recommendations, the delay shall be condoned at the level of the Joint Secretary in the Ministry of Environment, Forest and Climate Change or Member Secretary, State Level Expert Appraisal Committee or Member Secretary, District Level Expert Appraisal Committee, as the case may be;
  - (b) more than thirty days after the validity period of Environmental Clearance but less than ninety days after such validity period, then, based on the recommendations of the Expert Appraisal Committee or State Level Expert Appraisal Committee or District Level Expert Appraisal Committee, the delay shall be condoned with the approval of the Minister in charge of Environment, Forest and Climate Change or Chairman, as the case may be :

Provided that no condonation for delay shall be granted for any application for extension filed beyond ninety days after the validity period of Environmental Clearance.”

- 2) The Project Proponent needs to submit the authenticated District Survey Report as per Ministry's Notification S.O 3611(E) dated 25.07.2018.

**4.9 The proposal for extension of validity of environmental clearance for Granite Building Stone Quarry over an area of 15.3829ha located at Village: Vallikode-Kottayam, Tehsil: Ranni, District: Pathanamthitta, Kerala by Shri K Sadanandan- [Proposal no: IA/KL/MIN/237389/2021; File No. J-11015/100/2021-IA.II(NCM); Consultant: SBA Enviro Systems Private Limited] – Validity extension of environmental clearance**

**1. EAC Meeting Details:**

EAC meeting	42 <sup>nd</sup> EAC meeting
Date of Meeting	30 <sup>th</sup> November to 3 <sup>rd</sup> December, 2021



The proposal of Shri K Sadanandanis for validity extension of Environmental Clearance for Granite Building Stone Quarry over an area of 15.3829 ha located at Village Vallikode-Kottayam, Tehsil Ranni, District Pathanamthitta, Kerala. The mine lease area is located between Latitude 09°12'25.67"N to 09°12'40.55"N and Longitude 76°48'11.08"E to 76°48'33.91"E. 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. The project proponent submitted that earlier Environmental Clearance was granted by SEIAA, Kerala vide letter no. 200/SEIAA/EC4/86/2014 dated 10/08/2015 for 5 years. The project proponent submitted the application for validity extension of EC vide proposal no. IA/KL/MIN/237389/2021 on 06.11.2021. The project proponent has submitted form 6, earlier EC letter and Approved Mining Plan. Out of total 15.3829 ha of area, 11.1004 ha is Government land and remaining 4.2825 ha is private land. The project cost is Rs. 5 crore.

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

The proposal for validity extension of Environmental Clearance was considered in the 42<sup>nd</sup> EAC meeting held during 30<sup>th</sup> November to 3<sup>rd</sup> December, 2021. The Committee noted that the Environmental Clearance vide letter no. 200/SEIAA/EC4/86/2014 dated 10/08/2015 was valid till 09.08.2020. The project proponent submitted the application online on 06.11.2021. In view of the above, the committee **deferred** the proposal due to want of the following:

- 1) The project proponent needs to submit the detailed justification as per the notification vide S.O. 2944 (E) dated 14<sup>th</sup> September, 2016 which states that:
  - (a) within thirty days after the validity period of Environmental Clearance, such cases shall be referred to concerned Expert Appraisal Committee or State Level Expert Appraisal Committee or District Level Expert Appraisal Committee and based on their recommendations, the delay shall be condoned at the level of the Joint Secretary in the Ministry of Environment, Forest and Climate Change or Member Secretary, State Level Expert Appraisal Committee or Member Secretary, District Level Expert Appraisal Committee, as the case may be;
  - (b) more than thirty days after the validity period of Environmental Clearance but less than ninety days after such validity period, then, based on the recommendations of the Expert Appraisal Committee or State Level Expert Appraisal Committee or District Level Expert Appraisal Committee, the delay

shall be condoned with the approval of the Minister in charge of Environment, Forest and Climate Change or Chairman, as the case may be :

Provided that no condonation for delay shall be granted for any application for extension filed beyond ninety days after the validity period of Environmental Clearance”.

- 2) The Project Proponent needs to submit the authenticated District Survey Report as per Ministry’s Notification S.O 3611(E) dated 25.07.2018.

**4.10 The proposal for extension of validity of environmental clearance for Laterite Building Stone Quarry over mining lease area of 0.8097ha located at Anakkara Village, Pattambi Taluk, Palakkad, Kerala by Shri PJ Jacob- [Proposal no: IA/KL/MIN/236882/2021; File No. J-11015/101/2021-IA.II (NCM); Consultant: M/s Environmental Engineers & Consultants Pvt. Ltd.] – Validity extension of environmental clearance**

**1. EAC Meeting Details:**

EAC meeting	42 <sup>nd</sup> EAC meeting
Date of Meeting	30 <sup>th</sup> November to 3 <sup>rd</sup> December, 2021

The proposal of Shri PJ Jacob is for validity extension of Environmental Clearance for Laterite Building Stone Quarry over mining lease area of 0.8097 ha located at Anakkara Village, Pattambi Taluk, Palakkad, Kerala. The mine lease area is located between Latitude 10°49'22.70" N to 10°49'27.19" N and Longitude 76°3'40.91"E to 76°3'43.50"E. The mine lease area falls in SOI Toposheet 58B/1. 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 14th September 2006 and subsequent amendments. The project proponent applied at MoEF&CC as SEIAA, Kerala does not exist at present.

2. The project proponent submitted that earlier Environmental Clearance was granted by SEIAA, Kerala vide letter no. 953/A2/2019/SEIAA dated 16/11/2020 for 1 year. The project proponent submitted the application for validity extension of EC vide proposal no. IA/KL/MIN/236882/2021 on 01.11.2021. The project proponent submitted that as per the approved mining plan, the quantity assessed for 5 years is 68014.8 MT. But the EC was issued only for 1 year, and only 13544 MT has been removed till 20.10.2021 vide quarrying permit no. 1/2020-21/LBS/DOP/3421/2018/A1 dated 24.12.2020 from Mining & Geology, Palakkad for an area of 0.4047 Ha.

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

The proposal for validity extension of Environmental Clearance was considered in the 42<sup>nd</sup> EAC meeting held during 30<sup>th</sup> November to 3<sup>rd</sup> December, 2021. After detailed deliberations, The Committee noted that the Environmental Clearance vide letter no. 953/A2/2019/SEIAA dated 16/11/2020 was valid for a period of one year from the date of issue of permit from Department of Mining and Geology.

The project proponent submitted that the validity of EC is now till 15/11/2021 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 1<sup>st</sup> 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 observed that as per Ministry's Notification SO 3611(E) dated 25.07.2018 the District Survey Report shall be mandatory for the application of extension of validity of environmental clearance. Therefore, the Committee **deferred** the proposal due to want of following information:

- 1) The project proponent needs to submit the authenticated District Survey Report as per Ministry's Notification S.O 3611(E) dated 25.07.2018.
- 2) The project proponent needs to submit the letter from DMG that there are no mining activities outside the mine lease area.
- 3) The project proponent needs to submit an action plan showing how to comply with the plantation requirement.
- 4) The project proponent needs to submit the past production details financial year wise duly certified by the concerned authority.

**4.11 The proposal for Environmental Clearance for Building Stone Minor Mineral Mining (Quarry) project over an area of 0.8736 ha located at Chengalam (E) Village, Kottayam Taluk, Kottayam District, Kerala by M/s Rockfield Estates Pvt. Ltd.- [Proposal no: IA/KL/MIN/238771/2021; File No. IA-J-11015/102/2021-IA.II (NCM); Consultant: Environmental Engineers and Consultants Pvt. Ltd.]– EC**

**1. EAC Meeting Details:**

EAC meeting	42 <sup>nd</sup> EAC meeting
Date of Meeting	30 <sup>th</sup> November to 3 <sup>rd</sup> December, 2021

The proposal of M/s Rockfield Estates Pvt. Ltd. is for grant of Environmental Clearance for Building Stone Minor Mineral Mining (Quarry) project over an area of

0.8736 ha located at Chengalam (E) Village, Kottayam Taluk, Kottayam District, Kerala. The mine lease area is located between Latitude 09°37'44.84" to 09°37'49.21" N and Longitude 76°42'40.41" to 76°42'44.40" E. The mine lease area falls under the Survey of India Toposheet No. C43Q10 and 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. The project proponent submitted the application for obtaining Environmental Clearance vide proposal no. IA/KL/MIN/238771/2021 on 15.11.2021. The project proponent has submitted form 2, letter of authorization, covering letter, form-1, PFR, EMP, Approved Mining Plan and DSR as per 2016 Notification for the appraisal of the proposal of annual production of 42,325 MTA. The project proponent submitted that Letter of Intent (LOI) was issued vide letter no. 215/DOY/ML/2020 dated 27.05.2020 for the project. The Mining Plan was approved vide letter no. 1607/DOY/ML/2020 dated 24.08.2020 by Mining & Geology Department, Govt. of Kerala which is valid till 23.08.2023. The proposed project is in private owned land. The capital cost for environment protection is Rs. 0.49 crore and recurring cost for EMP is Rs. 0.23 crore. Total project cost is 2.20 crore and manpower requirement is 15 persons.

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

The proposal for Environmental Clearance was considered in the 42<sup>nd</sup> EAC meeting held during 30<sup>th</sup> November to 3<sup>rd</sup> December, 2021. After detailed deliberations, the committee noted that the project proponent did not submit 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". Therefore, the Committee **deferred** the proposal. The project proponent needs to submit the above information on Parivesh Portal.

### 5.0 **Any other item with the permission of Chairman:**

**REPORT OF FIELD VISIT UNDERTAKEN BY EAC SUB-COMMITTEE DURING 29-31 OCTOBER, 2021 AT M/S NATIONAL MINERAL DEVELOPMENT CORP. LTD, OF DIAMOND MINING PROJECT IN LEASE AREA OF 275.963 HA CONSISTING OF 2 MINING LEASES I.E. MAIN MINING LEASE (113.332 HA) AND SUPPLEMENTARY MINING LEASE (162.631 HA), PANNA, MADHYA PRADESH.**

The Sub Committee conducted a field visit during 29<sup>th</sup>-31<sup>st</sup> October, 2021 visiting the mining site at M/s National Mineral Development Corp. Ltd, of Diamond

mining project, Panna, Madhya Pradesh. The draft field visit report was circulated to all the EAC(Non-Coal) members and the suggestions received from the members were also considered and incorporated in the report. The final field visit report was placed in the 41st EAC Meeting (Non-Coal Mining) held during 15<sup>th</sup> – 16<sup>th</sup> and 18<sup>th</sup> November, 2021 and 42<sup>nd</sup> EAC meeting (non-coal mining) on 30 November, 1-3 December, 2021, wherein the Committee appraised the report.

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

S.No	Member Name	Member Address	Designation	30 <sup>th</sup> Nov 2021	1 <sup>st</sup> Dec 2021	2 <sup>nd</sup> Dec 2021	3 <sup>rd</sup> Dec 2021
1	Dr. S.R. Wate	Add. 148/149, Nagar Vikas Society, Narendra Nagar, Nagpur-440015, Maharashtra	Chairman	Yes	Yes	Yes	Yes
2	Dr. Ajay Deshpande	Building A-26, Flat-403, Happy Valley Homes, Manpada, Ghodbunder Road, Thane (West) - 400610, Maharashtra	Member	No	No	No	No
3	Shri B Ramesh Kumar	H-No. 6-1-134/6, Balram Compound, Padmarao Nagar, Secundrabad-500025, Andhra Pradesh	Member	Yes	Yes	Yes	Yes
4	Prof. S. Ramakrishna Rao	50-120-9/1, Tulasi Mani Regency North Extension, Seethammadhara, Visakhapatnam - 530013 Andhra Pradesh.	Member	Yes	Yes	Yes	Yes

Minutes of 42<sup>nd</sup> EAC (Non-Coal Mining) Meeting to be held during 30<sup>th</sup> November to 3<sup>rd</sup> December, 2021

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

Minutes of 42<sup>nd</sup> EAC (Non-Coal Mining) Meeting to be held during 30<sup>th</sup> November to 3<sup>rd</sup> December, 2021

14	Sh. Ramawatar Meena	Representative of DGMS	Member	No	No	No	No
16	Shri Gowrappan	-	Special invitee	-	Yes	-	-
17	Shri Pankaj Verma	2 <sup>nd</sup> Floor, Prithvi Block, Indira Paryavaran Bhawan, MoEF&CC, Jorbagh, New Delhi- 110003	Member Secretary	Yes	Yes	Yes	Yes

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