

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

SUMMARY RECORD OF 1st MEETING OF THE COMMITTEE OF THE RE-CONSTITUTION OF EXPERT APPRAISAL COMMITTEE FOR ENVIRONMENTAL APPRAISAL OF NON-COAL MINING PROJECTS CONSTITUTED UNDER THE EIA NOTIFICATION, 2006.

The 1st meeting of the Re-constitution of Expert Appraisal Committee for Environmental Appraisal of Mining Projects (Non-Coal) of the Ministry of Environment, Forest and Climate Change was held on 27th – 29th July, 2022 through video conference. The list of participants is annexed herewith. After login of the Committee Members through video conference link provided by NIC, discussion on each of the Agenda Items was taken up ad-seriatim.

(1.0) Deliberation & Circulation on the Minutes of 53rd EAC meeting held during 28th to 29th June, 2022:

The minutes of 53rd EAC meeting held during 28th to 29th June, 2022 were placed before the members of the Committee.

Day 1: 27th July, 2022 (Wednesday)

1.1 MaldiMopar Limestone mine of M/s Ambuja Cements Limited for expansion in Limestone Production Capacity from 2.0 Million TPA to 6.3 Million TPA, (ROM 6.5 Million TPA including 0.2 Million TPA screen rejects), Sub Grade 1.7 Million TPA, Top Soil 0.27 Million TPA, Waste 2.55 Million TPA (Total Excavation 11.02 Million TPA) along with the existing crusher of 1800 TPH with screen and a proposed crusher of 1800 TPH in the mine lease area of 553.656 ha, located at Villages- Boirdih and Karmandih (Tehsil: Baloda Bazar) and Maldi, Mopar and Devrani (Tehsil: Bhatapara), District-Baloda Bazar-Bhatpara, Chhattisgarh - [F.No: J-11015/252/2008-IA.II(M), Proposal No: IA/CG/MIN/280965/2022; Consultant: J M EnviroNet Pvt Ltd] - Reconsideration of Terms of Reference (ToR)

The instant proposal is for reconsideration of Terms of Reference for MaldiMopar Limestone mine of M/s Ambuja Cements Limited for expansion in Limestone Production Capacity from 2.0 Million TPA to 6.3 Million TPA, (ROM 6.5 Million TPA including 0.2 Million TPA screen rejects), Sub Grade 1.7 Million TPA, Top Soil 0.27 Million TPA, Waste 2.55 Million TPA (Total Excavation 11.02 Million TPA) along with the existing crusher of 1800 TPH with screen and a proposed crusher of 1800 TPH in the mine lease area of 553.656 ha, located at Villages- Boirdih and Karmandih (Tehsil: Baloda Bazar) and Maldi, Mopar and Devrani (Tehsil: Bhatapara), District-Baloda Bazar-Bhatpara, Chhattisgarh. The mine lease area falls under the Survey of India Toposheet

No: 64 K/2 and falls in Seismic Zone-II. The Project Proponent presented the KML file during the presentation to indicate the location of mine lease on Google Earth.

2. M/s Ambuja Cements Limited has made an online application vide proposal no: IA/CG/MIN/198612/2021 dated 16.02.2021 and submitted Form1 and Prefeasibility report under the provisions of the EIA Notification, 2006. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals and 2(b) Mineral beneficiation under Category “A” of the schedule of the EIA Notification, 2006 as the mining lease area is greater than 250 ha and appraised at Central level.

3. The proposal for Terms of Reference (Expansion) was earlier considered in the 45th EAC (Non-Coal Mining) meeting held during 24th, 25th and 27th January, 2022. During the meeting, the Committee deliberated on the EC compliance report certified by the Integrated Regional Office, Chhattisgarh vide letter no. 3-20/2010 (Env)/345 dated 11.11.2021 and wherein the committee noted that many non-compliance of the earlier EC dated 13.08.2010 were observed by IRO. The Committee opined that the PP needs to submit the satisfactory compliance of EC conditions of the earlier Environmental Clearance dated 13.08.2010 for further appraisal of the proposal. Therefore, the Committee returned the proposal in present form and was of the view that the proposal may be considered only after the submission of the satisfactory final closure report certified by the IRO for non-compliance of the EC conditions in EC letter dated 13.08.2010.

4. Now, the Project Proponent submitted a fresh application vide proposal no: IA/CG/MIN/280965/2022 dated 01.07.2022 along with the information sought by the EAC in its meeting 45th EAC (Non-Coal Mining) meeting held during 24th, 25th and 27th January, 2022 and accordingly the proposal was reconsidered in the 1st EAC (Non-Coal Mining) meeting held during 27th - 29th July, 2022.

Based on observation of EAC and compliance of observation of EAC made by PP, the following are detailed below:

S. No	Observation of EAC	Reply by Project Proponent
1	The Committee deliberated on the EC compliance report certified by the Integrated Regional Office, Chhattisgarh vide letter no. 3-20/2010 (Env)/345 dated 11.11.2021 and wherein the committee noted that many non-compliance of the earlier EC dated 13.08.2010 were observed by IRO. The Committee opined that the PP needs to submit the satisfactory	The Project Proponent vide letter dated 25.04.2022 submitted the reply against the non/partial compliances observed during site inspection on 23.07.2021. Accordingly, Integrated Regional Office (IRO), Raipur conducted a site inspection on 14.06.2022 and certified the action taken report vide F.No 3-

	<p>compliance of EC conditions of the earlier Environmental Clearance dated 13.08.2010 for further appraisal of the proposal. Therefore, the Committee returned the proposal in present form and was of the view that the proposal may be considered only after the submission of the satisfactory final closure report certified by the IRO for non-compliance of the EC conditions in EC letter dated 13.08.2010.</p>	<p>20/2010(ENV)/778 dated 21.06.2022 wherein the IRO observed that the catch drains and garland drains has been constructed by PP and three siltation ponds and some of the garland drains are found under construction and garland drains are also constructed along the periphery of the mines. It was also observed on the day of visit that one siltation pond have been found constructed and apart from these another two siltation ponds are found under construction.</p> <p>IRO also observed that on the day of the visit that plantation has been started and greenbelt is in developing stage along the lease boundary within the 7.5m wide safety zone. During the site visit, the Project Proponent informed that the installation of two ambient air quality monitoring station (AAQMS) is under process. Further, IRO observed that the construction of ETP is under process.</p>
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5. The details of the project as ascertained from the document submitted by the Project Proponent are mentioned below:

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

Date of application	Proposal No	Consideration	Details	Date of accord
12.03.2010	IA/CG/MIN/198606/2008	-	Production capacity of 2.0 MTPA of Limestone in the mine lease area of 553.656ha	13.08.2010

ii. Details of Mine lease:

- a. The Project Proponent submitted that the mining lease was granted on 29.10.2007 and lease deed was executed on 18.02.2009 and registered on 19.02.2009 in favour of M/s. Ambuja Cements Ltd for a period of 30 years valid upto 17.02.2039.
- b. PP also submitted that the Government of Chhattisgarh vide letter no.1544/KHALI/Teen-6/Kh.P/17 dated 28.12.2017 have extended the validity

period of lease period from 18.02.2039 to 17.02.2059 over an area of 553.656 ha.

- c. PP submitted the amendment in agreement to extend the period of mining lease made on 23.12.2017 between the Government of Chhattisgarh and M/s Ambuja Cements Limited for extension of validity of lease period up to 17.02.2059 over an area of 553.656 ha.

iii. Land use/Land Cover of the Mine Lease Area:

Private Agriculture land	499.970 ha
Government land	53.686 ha
Total Mining lease area (MLA)	553.656 ha
Private land for crusher, workshop & other infrastructure outside the MLA	2.10 Ha

iv. Details of Mine Plan:

Modification of Mining Plan along with Progressive Mine Closure Plan (PMCP) approved by IBM	Letter No.	BBR/LST/MPLN-1289/2021-RPR
	Date	30.08.2021
	Mineral	Limestone
	Mine lease area	553.656 ha
	Validity	Upto 30.03.2023
Mining Parameter	Quantitative Description	
Method of Mining	Mechanized Mining (Heavy Earth Moving Machineries with deep hole drilling & blasting)	
Total Geological Resources	548.23 Million Tonnes	
Total Mineable reserves	264.8 Million Tonnes	
Life of mine	42 Years	
Bench Height	10 m (max)	
Bench Width	10 m – 30 m	
No. of mine benches	9.0 no.s (At Conceptual)	
Overall pit slope	45°	
Loading	Blasted limestone is being/ will be loaded by large size hydraulic excavators with 9.5m ³ capacity into the dump trucks for onward dispatch to the crusher (for limestone) and waste dump (for waste)	
RoM output size	-60 mm	
Transportation details	PP submitted that crushed limestone from existing crusher is directly dispatched to the existing cement plant via overland belt conveyor of length ~3.0km. However, one more crusher with capacity of 1800 TPH has been proposed to install within mine lease area. A conveyor belt will be laid down of ~3.5km for the proposed crusher.	

Dumpers capacity	100 T
Present working depth	245 AMSL
Ultimate working depth	165 m AMSL (90 m bgl)
Water Table	225 m AMSL
Ground water intersection	PP reported that there will be ground water intersection
Topsoil	PP reported that as on date (Till 2021), 0.267 MT of top soil has been generated, out of which 0.24 MT of Top soil used for plantation and remaining 0.0252 MT of Top soil stacked over an area of 2.13 ha. During Proposal period 1.032 million tonnes of top soil will be generated and it will be stored over an area of 3 ha. Till the end of lease period, 6.41 million tonnes of soil will be generated and this will be utilized for development of plantation/ greenbelt.
Over Burden	PP reported that during the plan period, 0.25 MT of waste will be generated which will be dumped over an area of 2.0 ha at Waste Dump 1 at a height of 10m. Till the end of lease period, 40.36 MT of waste will be generated which will be used for backfilling of 38.25 ha excavated area.
Sub grade	PP reported that till the end of lease period, 30.89 MT of sub grade will be generated and will be used for blending with high grade limestone
Screen Reject	PP reported that till the end of lease period, 3.0 MT of screen reject/waste will be generated and will be used for backfilling of excavated area.
Waste water	PP reported that the domestic waste water generated from the office toilets is being disposed off in soak pit via septic tank. The STP of capacity 15.0 KLD will be installed to recycle the waste water generated. Waste water generated from the work shop will be used for dust suppression after recycling in ETP (15.0 KLD capacity).

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

Particulars	Villages	Distance & Direction
Nearest Village	Village Maldi Village Sarkipur Village Kamadih	~ 50 m, North ~250m, South East ~250 m, East
Nearest Town/ City	Baloda Bazar	~8 km, East
Nearest Highway	SH 10	~ 2.5 km, NE
Nearest Railway Station	Bhatapara Railway Station	~ 12 km, NW

Water Bodies	Mahanadi Canal Banjari Nala Kukardih Talav Risda Canal Ameri Canal Chitawar Canal Jamuniya Nadi Khorsi Nala	~ Adjacent, East ~ 1.0 km, West ~ 3.0 km, East ~ 4.0km, ESE ~ 5.0 km, WSW ~ 6.0 km, ESE ~ 6.0 km, NNW ~ 7.5 km, SE
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vi. Water requirement:

Total water requirement	274.0 KLD	Particulars	Existing	Total after expansion
		Industrial	30.0 KLD	75.0 KLD
		Dust suppression	40.0 KLD	120.0 KLD
		Green belt	27.0 KLD	73.0 KLD
		Domestic	3.0 KLD	6.0 KLD
Source	Rain Harvesting/Ground water/ Mine sump			
Permission	PP submitted that NOC for abstract and dewatering of groundwater obtained from CGWA vide NOC no. CGWA/NOC/MIN/ORIG/2017/2810 dated 26.10.2021 and is valid up to 25.10.2023.			

vii. The Project Proponent reported that there is no forest land involved in the mine lease area. PP also submitted that there is no National Park, Wild Life Sanctuary, Biosphere Reserves, Elephant/Tiger Reserves, etc. within 10 Km radius of the study area. PP reported that two Reserve Forest such as Dhabadih RF (~ 2.5 km, SE) and Latwa RF (~9.0 km, ENE) are found within 10km radius of the study area. Further, the Project Proponent reported that there are two (2) Schedule-I species present within the study area namely Indian Rock Python (*Python molurus*) and Monitor Lizard (*Varanus bengalensis*).

viii. The Project Proponent reported that the total area to be covered under greenbelt/plantation will be 70.29ha. Out of which 38.25ha area will be on backfilled area, 13ha under greenbelt and 19.04ha area will be on un-worked area which will be done up to the end of lease period. Total area for greenbelt development is 13.0 ha and at present an area of 1.68ha developed under greenbelt along 7.5m lease periphery and 11.32ha will be covered in the proposal period of 2 years. Total area to be covered under plantation is 57.29ha and at present an area of 1.61ha developed and remaining 55.68ha area will be covered till the end of lease period. PP submitted that Plantation will be done at the rate of 2000 trees/ha with survival rate of 85%. Local species is being/ will be planted after consultation with local forest officer and as per CPCB/SPCB guidelines. i.e., Arjun, Jamun, Khamar, Mango, Shisham, Satwan, Neem, Karanj, Bahera, Amla,

Guava, Lemon, Ashok etc. PP earmarked a budget of Rs 1.0 Cr towards development of green plant & plantation till the end of life of mine.

ix. Previous EC compliance and production details:

Particulars	Letter no. and date																																													
Consent to Establish (CTE)	Issued by Chhattisgarh Environment Conservation Board vide No. 3056/TS/CECB/2012 Raipur, dated 06.09.2012 for production capacity of 2.0 MTPA of Limestone over an area of 553.656 ha.																																													
Consent to Operate (CTO)	Issued by Chhattisgarh Environment Conservation Board vide No. 7966 /TS/CECB/ 2020 Nava Raipur Atal Nagar, dated 09.12.2020 for production capacity of 2.0 MTPA of Limestone over an area of 553.656 ha for the period of three years i.e., from 01.01.2021 to 31.12.2023																																													
Certified EC compliance report	<p>EC compliance for the existing EC dated 13.08.2010 Certified by Integrated Regional Office, Chhattisgarh vide letter no. 3-20/2010(Env)/345 dated 11.11.2021. PP submitted an action taken report of non-compliance identified by IRO during the site visit on 23.07.2021 vide Lr No.ACL/BYT/ENV/2021-22/159 dated 30.11.2021.</p> <p>Again, the Project Proponent vide letter dated 25.04.2022 submitted the reply against the non/partial compliances observed during site inspection on 23.07.2021. Accordingly, Integrated Regional Office (IRO), Raipur conducted a site inspection on 14.06.2022 and certified the action taken report vide F.No 3-20/2010(ENV)/778 dated 21.06.2022.</p>																																													
Certified past production	<p>PP submitted the authenticated past production obtained from Office of the Collector (Mining Branch), Balodabazar-Bhatapara (Chattisgarh) vide letter no. S.No./864/Khali/Teen-1/2020 dated 29.11.2021 for the period 2014-15 to 2021-22 (31.10.2021).</p> <table border="1"> <thead> <tr> <th>S. No</th> <th>Year</th> <th>Production (MTPA)</th> <th>EC Capacity (MTPA)</th> <th>Excess production</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2014-15</td> <td>-</td> <td>2.0</td> <td>-</td> </tr> <tr> <td>2</td> <td>2015-16</td> <td>-</td> <td>2.0</td> <td>-</td> </tr> <tr> <td>3</td> <td>2016-17</td> <td>0.12</td> <td>2.0</td> <td>-</td> </tr> <tr> <td>4</td> <td>2017-18</td> <td>0.15</td> <td>2.0</td> <td>-</td> </tr> <tr> <td>5</td> <td>2018-19</td> <td>0.06</td> <td>2.0</td> <td>-</td> </tr> <tr> <td>6</td> <td>2019-20</td> <td>0.13</td> <td>2.0</td> <td>-</td> </tr> <tr> <td>7</td> <td>2020-21</td> <td>0.003</td> <td>2.0</td> <td>-</td> </tr> <tr> <td>8</td> <td>2021-22 (31.10.2021)</td> <td>1.15</td> <td>2.0</td> <td>-</td> </tr> </tbody> </table>	S. No	Year	Production (MTPA)	EC Capacity (MTPA)	Excess production	1	2014-15	-	2.0	-	2	2015-16	-	2.0	-	3	2016-17	0.12	2.0	-	4	2017-18	0.15	2.0	-	5	2018-19	0.06	2.0	-	6	2019-20	0.13	2.0	-	7	2020-21	0.003	2.0	-	8	2021-22 (31.10.2021)	1.15	2.0	-
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- x. The Project Proponent reported that the total mine lease area is 553.656 ha which spreads in five villages namely Boirdih, Karmandih, Maldi, Mopar and Devrani. PP submitted that out of total mine lease area, 53.686 ha is Govt waste Land and 499.970 ha is Private Agriculture Land. PP also reported that 439.930 ha of Private land has already been acquired and remaining area of 60.040 ha land will be acquired on the basis of LARR Act, 2013.
- xi. 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.
- xii. Details of project cost and employment:

Particulars	(Rs. In Crore)
Project Cost	Existing – Rs. 212 Cr Additional - Rs. 291 Cr
Employment	Existing - 42 Persons, Additional - 57 Persons, Total - 99 Persons

6. Observation and Recommendation of the Committee:

The Project Proponent informed the EAC that the production started in the year 2014-15 due to delay of installation and commission of conveyor belt and the during the last financial year 2021-22, about 1.99 MTPA production was achieved.

The EAC also observed that the Integrated Regional Office (IRO) during the site visit on 14.06.2022 noted that the plantation has been started and greenbelt is in developing stage along the lease boundary within the 7.5m wide safety zone. During the site visit, the Project Proponent informed that the installation of two ambient air quality monitoring station (AAQMS) is under process. Further, IRO observed that the construction of Effluent Treatment Plant (ETP) is under process. The Project Proponent informed that during the site visit the ETP plant was under construction and in July, 2022 the ETP plant became operational.

The EAC noted that the Project Proponent is transporting the over burden from the South Block to North Block. The EAC opined that to avoid the impact of transportation, the Project Proponent shall explore the feasibility of dumping the overburden in the South Block.

The EAC also noted that the Project Proponent submitted that the clearance of existing vegetation will be done. The EAC advised the Project Proponent to submit a compensatory afforestation plan with budget.

The EAC observed that the Project Proponent conducted a baseline study during the period March-May, 2021 wherein the production achieved during the year 2020-21

was 0.003 MTPA. The EAC was of the view that the scenario of the pollution generated during the year 2020-21 would be inappropriate to consider as a baseline data for expansion in Limestone Production Capacity from 2.0 Million TPA to 6.3 Million TPA. Thus, the EAC advised the Project Proponent to conduct a fresh baseline study with operating capacity of 1.5 - 2.0 MTPA to assess the increase in pollution load.

Based on the above discussions held, the EAC **recommended** the proposal for grant of Terms of Reference for MaldiMopar Limestone mine of M/s Ambuja Cements Limited for expansion in Limestone Production Capacity from 2.0 Million TPA to 6.3 Million TPA, (ROM 6.5 Million TPA including 0.2 Million TPA screen rejects), Sub Grade 1.7 Million TPA, Top Soil 0.27 Million TPA, Waste 2.55 Million TPA (Total Excavation 11.02 Million TPA) along with the existing crusher of 1800 TPH with screen and a proposed crusher of 1800 TPH in the mine lease area of 553.656 ha, located at Villages- Boirdih and Karmandih (Tehsil: Baloda Bazar) and Maldi, Mopar and Devrani (Tehsil: Bhatapara), District-Baloda Bazar-Bhatpara, Chhattisgarh for undertaking detailed EIA/EMP study subject to the following specific conditions in addition to the standard ToR conditions applicable for non-coal mining projects:

- i. The Project proponent needs to submit the cost benefit analysis comparing the current agricultural production and annual turnover including the cost and the benefits drawn by the local villages vis-a-vis the mineral cost and beneficiaries.
- ii. The Project Proponent needs to conduct a fresh baseline study with at least 80-100 percentage of current EC capacity to capture the actual pollution load for expansion in Limestone Production Capacity from 2.0 Million TPA to 6.3 Million TPA.
- iii. The Project Proponent shall submit the details of transportation of overburden in the south block instead of north block of the mine to reduce the impact of transportation and accordingly, revised mine plan should be submitted.
- iv. The Project Proponent shall submit the timeline for installation and commissioning of proposed conveyor belt from the mine pit to the cement plant of length ~3.5km for the proposed additional crusher of 1800 TPH.
- v. 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.
- vi. The Project Proponent needs to submit the scenario of pollution to be generated at the mine lease boundary, nearest Village Maldi (~50 m, North), predominant

downwind direction, crusher and at other sensitive receptors for air quality, noise level and ground vibration. Accordingly, action plan for mitigation measures such as wind breaker, plantation of adequate width should be proposed.

- vii. The EAC noted that since the instant proposal is for expansion, Project Proponent should specifically evaluate the efficacy of the existing EMP and suggest EMP for expansion with minimum emission within the mine lease area and the EMP should specifically address the impacts due to fugitive dust due to transportation.
- viii. The Project Proponent needs to submit the preventive measures taken to protect the Villages such as Maldi (~50 m, North), Sarkipar (~200 m, SE) and Kamadih (~250 m, East) found in the vicinity of the mine lease area. Project Proponent shall submit the measures taken for protection of Primary School located at a distance of 300m from the mine lease area on the eastern side. PP also needs to submit the details of the total strength of the school, timings of the school and the schedule of blasting.
- ix. 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 of water body. PP also needs to submit the measures to be taken for protection of Mahanadi Canal (~ Adjacent, East) and other water bodies in the vicinity of the mine lease area due to mining activity.
- x. The Project Proponent needs to submit the compensatory afforestation plan along with the budget and schedule of plantation for clearance of existing vegetation in the mine lease area for the expansion proposal.
- xi. The Project Proponent needs to submit the Comprehensive R&R plan addressing the benefits to the farmers, villagers and livelihoods of the people whose land is to be acquired. PP also needs to submit the timeline for land acquisition of remaining area of 60.040 ha within the mine lease area.
- xii. The Project Proponent needs to specifically address the movement of elephants if any in the study area in the Wildlife Conservation Plan.
- xiii. The Project Proponent needs to submit the map demarcating the safety zone, location of dumps, mineralized and non-mineralized zone and other surface features in the vicinity of the mine lease area.

- xiv. The Project Proponent shall explore the feasibility for installation of Low-Noise Conveyor Belt with enclosures along with the timeline and budget as committed by the Project Proponent during the EAC meeting.
- xv. The Project Proponent needs to carry out the Public Hearing as per provisions of EIA Notification, 2006. PP should also submit the time bound action plan on concerns of the public through a separate budget with capital expenditure with a timeline of 3 years.
- xvi. The Project Proponent shall undertake the peripheral plantation, safety zone plantation as well as gap plantation within 6 months with the seedling of 6-8 ft height with at least 90% survival rate from the date of issue of this Terms of Reference (ToR). Proof of the same shall be submitted at the time of appraisal of EC.
- xvii. The EAC noted that the information provided by the Project Proponent in the Mining Plan w.r.t Pg. No 96, 102 and 109 is not justifiable. Hence, the Project Proponent needs to revisit the same and accordingly revised Mining Plan shall be submitted at the time of appraisal of EC.
- xviii. The Project Proponent shall conduct drone survey of the mine lease area and buffer area and submit during the appraisal for EC.

1.2 Sitapuram Limestone (ML-2) of M/s Zuari Cement Ltd for mining of Limestone with production capacity of 3,03,750 TPA of Limestone in the mine lease area of 558.71ha, located at Villages of Dondapadu & Revuru, Chintalapalem Mandal, Suryapet District, Telangana - [F.No: J-11015/174/2005-IA.II(M), Proposal No: IA/TG/MIN/255765/2022] - Reconsideration of Terms of Reference

The instant proposal is for reconsideration of Terms of Reference for mining of Limestone in Sitapuram Limestone (ML-2) with production capacity of 3,03,750 TPA of Limestone in the mine lease area of 558.71ha, located at Villages of Dondapadu & Revuru, Chintalapalem Mandal, Suryapet District, Telangana.

2. The proposal was earlier considered in the 47th EAC Meeting (Non-Coal Mining) held during 7th to 9th March 2022. The Member Secretary informed the Committee that the Project Proponent vide email and letter dated 07.03.2022 stated that the amendment of non-feasible quantity of 30,000 TPA production in the existing EC dated 04.04.2006 is pending with the MoEF&CC applied vide letter dated 09.11.2021 and vide letter dated 03.03.2022 and requested to adjourn the presentation. The Committee again reiterated the view taken by the Committee in earlier EAC meeting held during October 21-22, 2019 and in the 41st EAC (Non-Coal Mining) meeting held during 15th to 16th and 18th November, 2021 that based on the past production details submitted by

the PP it was observed that the base year production 1993-94 was 8,000 TPA and the same has been increased from the year 1994-95 till 2006-07. At this stage PP was required to obtain EC but PP obtained EC on 04.04.2006 for 30,000 TPA. Further, after grant of EC on 04.04.2006, PP has increased the production over and above the approved EC capacity without obtaining expansion in the Environmental Clearance. The Mining without EC and in excess of EC capacity is a violation in pursuant to Ministry Notification S.O. 804(E) dated 14.03.2017 and also violation as per Hon'ble Supreme Court Judgment dated 02.08.2017. Therefore, the Committee was of the view that Ministry to take appropriate action as per section 19 of E(P)A,1986. Therefore, the Committee deferred the proposal as per the request of the Project Proponent during the meeting.

3. The matter was further examined in the Ministry and the Ministry vide letter dated 05.07.2022 requested the Secretary, Department of Environment, Forests, Science and Technology, Telangana to take action against the above unit by invoking powers under section 19 of the Environment (Protection) Act, 1986 for the period for which the unit had produced in excess of the EC capacity without obtaining the requisite prior environmental clearance. The details of the action taken against the unit may be intimated to this Ministry. Accordingly, the proposal was reconsidered in the 1st EAC (Non-Coal Mining) meeting held during 27th - 29th July, 2022.

4. Observation and Recommendation of the Committee:

The Member Secretary informed the EAC that the Project Proponent vide email dated 15.07.2022 sought deferment stating that the due to retirement of Mr. S K Tiwari, Nominated Owner of Mines it is necessary to appoint new Nominated Owner through resolution of the Board of Directors. As it couldn't be feasible to appoint new Nominated Owner of the Mine through resolution to this effect, it is requested to adjourned the meeting. The EAC also noted that in earlier EAC meeting held during 7th to 9th March 2022, the Project Proponent sought deferment. Therefore, the EAC **deferred** the proposal as per the request of the Project Proponent vide email dated 15.07.2022.

1.3 Kalta Iron ore mine (ML-139) of M/s SAIL for mining of Iron ore with production capacity of 49,701 TPA (ROM) within mine lease area of 25.981 ha, located at Village Kalta, Koida Tehsil, Sundargarh District, Odisha – [File No: IA-J-11015/21/2018-IA-II(M), Proposal No: IA/OR/MIN/72371/2018; Consultant: In Situ Enviro Care] - Environmental Clearance (EC)

The instant proposal is for reconsideration of Environmental Clearance (EC) for Kalta Iron ore mine (ML-139) of M/s SAIL for mining of Iron ore with production capacity of 49,701 TPA (ROM) within mine lease area of 25.981 ha, located at Village Kalta, Koida Tehsil, Sundargarh District, Odisha. The mine lease area is located between Latitude 21°59'47.16420"E to 22°00'34.53264"E and Longitude 85°13'36.79428"E to

85°14'10.42764"E. The mine lease area falls under the Survey of India Toposheet No: 73 G/1 and 73 F/4 and falls in Seismic Zone-II. The Project Proponent presented the KML file during the presentation to indicate the location of mine lease on Google Earth.

2. M/s SAIL has made an online application vide proposal no: IA/OR/MIN/72371/2018 dated 02.03.2022 and submitted Form 2 and EIA report under the provisions of the EIA Notification, 2006. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals of the schedule of the EIA Notification, 2006 and falls under Category "A" as the instant proposal attracts the general conditions as the interstate boundary of Jharkhand and Odisha is located within 5 km from the mine lease area and appraised at Central level.

3. The proposal was earlier considered in the 48th EAC (Non-Coal Mining) meeting held during 28th - 30th March, 2022. After detailed deliberations made by the Project Proponent and the Consultant, the Committee noted that the PP is not having Stage-I Forest Clearance which is under process and the Govt. of Odisha extended the time for one year for execution of supplementary lease deed with effect from 09.05.2020 vide Lr No. 4230/III (B) SM-10/2012/SM, Bhubaneswar dated 30.05.2020 and it got expired on 08.05.2021 and the current status of the mine lease area is in question. The Committee also noted that the recommendation made by NEERI in its carrying capacity study for Odisha was not a part of Terms of Reference (ToR) granted on 11.09.2018 and the Committee opined that the PP should submit the compliance of the recommendation made by NEERI in its carrying capacity study for Odisha. The Committee observed that the PP has not carried out the cumulative impact assessment. Therefore, in view of the above, the Committee deferred the proposal and was of the view that the proposal may be considered only after submission of the requisite information. The Project Proponent vide letter dated 27.06.2022 submitted the information in PARIVESH portal and accordingly the proposal was reconsidered in the 1st EAC (Non-Coal Mining) meeting held during 27th – 29th July, 2022.

Based on observation of EAC and compliance of observation of EAC made by Project Proponent, the following are detailed below:

S. N o	Observation of EAC	Reply by Project Proponent
1	The Project Proponent shall submit the valid mine lease after 08.05.2021, duly authenticated by the concern	The Project Proponent submitted that Govt. of Odisha vide Lr No. III (B) SM-10/2012 1287/SM, Bhubaneswar dated 10.02.2016 have extended the lease period for a period of 50 years i.e., from 17.01.1975 to 16.01.2025 subject to execution of supplementary lease deed for the period from 17.01.1975 to 16.01.2025 obtaining all statutory clearances, payment of requisite dues as per act and rules within three months.

	<p>Department of State Government of Odisha.</p>	<p>Then, PP obtained the letter from Govt. of Odisha vide Lr No. 4230/III (B) SM-10/2012/SM, Bhubaneswar dated 30.05.2020 for extension of time for further one year for execution of supplementary lease deed with effect from 09.05.2020 to 08.05.2021.</p> <p>Again, the PP obtained the letter from Govt. of Odisha vide Lr No. 5209/III (B) SM-10/2012/SM, Bhubaneswar, dated 13.07.2021 for further time of one year with effect from 09.05.2021 for execution of supplementary lease deed which was valid upto 08.05.2022.</p> <p>Further, the PP vide letter dated 20.04.2022 requested the Additional Secretary to Government, Dept of Steel and Mines, Govt of Odisha to grant time for another 6 (six) months w.e.f 09.05.2022 to 08.11.2022 for execution of supplementary lease deed.</p>
2	<p>The Project Proponent shall submit the clear status whether the mine lease are two separate mine leases or two blocks and its subsequent amalgamations with proof of documents duly authenticated by the concern Department of State Government of Odisha.</p>	<p>The Project Proponent submitted that Govt. of Odisha vide proceedings No. III(B) MG-40/72/537, dated 16th January 1973 granted mining lease (ML-139) over 93.53 acre in two separate blocks viz Block– A and Block– B in Toda Reserve Forest in Sundargarh District and directed to submit survey map and description of ML area.</p> <p>PP reported that after survey and demarcation, the area became 94.35 acre and a portion of the area of 30.15 acre or 12.2012 ha of Block– A fall in the District of Keonjhar. The remaining Block– A over 10.7972 ha and Block– B over 15.1838 ha covering total area of 25.981 ha fall under Sundargarh District. Accordingly, Govt. of Odisha vide proceedings dated 26.08.1975 partially amended the original order dated 16.01.1973 and revised the mine lease area to 25.981 ha covering two blocks (Block– A and Block– B) located in the Sundargarh District and excluded the portion of Block– A over 12.201 ha located Keonjhar District. PP also submitted that DGPS Survey map of mine lease area covering two separate blocks over 25.981 ha duly authenticated by ORSAC (Orissa Space Application Centre), Govt. of Odisha and State Forest Department.</p> <p>The Project Proponent clarified that the ML – 139 is having two separate blocks viz Block – A (10.7972 ha) and Block – B (15.1838 ha) with total mine lease area of 25.981 ha entirely in Sundargarh District and does not involve any amalgamation.</p>
3	<p>The Project</p>	<p>The Project Proponent submitted the point-wise compliance of</p>

	Proponent needs to submit the compliance of the recommendation made by NEERI in its carrying capacity study for Odisha.	the recommendation made by NEERI in its carrying capacity study for Odisha. PP also submitted that the conditions will be complied while resumption of the mining operations in the ML–139. Further, PP submitted that ML – 139 falls under SOTM – 4 {Capacity : < 1 MTPA} with 100% by 10/17 Trucks.
4	The Project Proponent needs to carry out the cumulative impact assessment for air quality, noise level and ground vibration by considering all the mining activity including the transport scenario of the Block A (10.7972 ha) and Block B (15.1838 ha) at the age of mine lease. The control case and worst-case scenario needs to be demonstrated with controlling factor and GLCs values for all the pollutants needs to be clearly mentioned. The input parameters used for the modeling also needs to be submitted.	<p>The Project Proponent submitted that Iron ore mining activities includes drilling, blasting, ore handling and transportation which leads to generation of fugitive dust. Emissions from diesel powered earth moving and material handling machinery also contribute air pollutants during transportation. However, the fugitive dust during these activities is not expected to spread beyond lease area. During transportation of ore outside the lease area, the emission shall be limited to close to road sides. Gaseous pollutants like SO₂, NO_x and CO will also be added to the ambient air due to vehicular traffic movement.</p> <p>Project Proponent reported that the proposed mine for EC (Kalta Iron Ore Mine, ML 139 – Production - 49,701 TPA) and the adjacent Kalta Iron Mine (MLA: 2564.323 ha, production capacity of 4.0 MTPA) is considered for modelling. The main Kalta Iron Mine with 4.0 MTPA capacity with 300 working days in a year on three shift (8 hours each) basis and transportation of ore through 28 tonne capacity trucks are also considered for modeling. The model is based on worst case scenario building. Blasting, loading– unloading, movement of truck on road, dust generation etc. are considered for modeling.</p> <p>Project Proponent submitted that the baseline value of PM₁₀ at mine lease area is 81.1 µg/m³ and the incremental concentration is 10.3 µg/m³ and the total GLC observed to be 91.1 µg/m³; the baseline value of PM_{2.5} at mine lease area is 47.6 µg/m³ and the incremental concentration is 5.0 µg/m³ and the total GLC observed to be 52.6 µg/m³; the baseline value of NO₂ at mine lease area is 19.7 µg/m³ and the incremental concentration is 3.0 µg/m³ and the total GLC observed to be 22.7 µg/m³ and the baseline value of SO₂ at mine lease area is 6.9 µg/m³ and the incremental concentration is 2.9 µg/m³ and the total GLC observed to be 9.8 µg/m³. The total GLC of PM₁₀, PM_{2.5}, SO₂ and NO₂ are observed to be within the prescribed limits of NAAQS.</p>
5	The Project	The Project Proponent submitted the revised budget of public

	<p>Proponent needs to 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. The activities proposed should be actionable and monitorable. As the study area is falling in two states, details of public participated in the public hearing from the both the States should be submitted.</p>	<p>hearing from concerns raised by the public with a timeline of 3 years. PP also submitted that the Public Hearing of Kalta Iron Mine for proposed production capacity of 49,701 TPA of Iron ore over an area of 25.981 ha was held on 15.09.2021 at 11 AM at Football Play Ground beside Gram Panchayat Office of Kalta village under Koida Block of Sundargarh District of Odisha. In the Public Hearing, 232 persons were attended and the attendees were mainly from Odisha. PP also submitted the attendance sheet of 232 persons participated in the public hearing.</p>					
6	<p>The Project Proponent needs to revise the EMP cost and should submit the activity wise time bound actionable budget with its efficacy. PP should assign the recurring cost on the EMP cost to be spent every year.</p>	<p>The Project Proponent submitted the revised capital cost of EMP from Rs 98.50 Lakhs to Rs 193.38 Lakhs and recurring cost from Rs 14.50 Lakhs to Rs 18.05 Lakhs.</p>					
		S. No.	Measures	Capital cost (in Rs.) Proposed	Time Frame	Annual recurring cost (in Rs.) Proposed	Time frame
		1	Pollution Control i. Dust Suppression ii. Check Dam on Samaj Nalla iii. Garland drain & ground dump, desilting etc.,	30,000,00 ¹ 15,00,000 -	During start of production from the ML	3,00,000 - 3,00,000	Annual - Annual
		2	Pollution Monitoring i) Air pollution ii) Water pollution	-	-	1,50,000 1,50,000	Annual Annual

		3	Occupational Health	5,00,000	1 st year of operation	3,00,000	Annual
		4	Green Belt	-	-	2,50,000	Annual
		5	Mine Closure Plan	46,08,000 ²	During closure of mine	-	-
		6	Others (Site Specific Wildlife Management Cost)	97,90,000 ³	Instant	3,55,000 ⁴	Annual
			Total	1,93,98,000		18,05,000	
		<p>Where, 1 = Mobile water sprinkler for dust suppression 2 = Approximate Cost of Mine Closure Plan over 9.216 ha [Plantation & long-term maintenance Rs 5 lakh per ha] 3 = Cost of Rs. 97.9 lakh shall be paid to State Forest Dept. towards Implementation of Site-Specific Wildlife Conservation Plan for the project impact area on approval of the Plan 4= Total cost of Rs. 35.5 lakh towards Implementation of Site-Specific Wildlife Conservation Plan within the project area will be spent over a period of 10 years. Annual cost will be around Rs. 3.55 lakh</p>					
		<p>PP also submitted that in addition to the above, an amount of Rs. 2,70,98,183/- was paid towards NPV for the total forest land involved in the ML @ Rs. 10,43,000/- per ha. Further, Rs. 11,17,183/- was paid to State Forest Department towards implementation of Regional Wildlife Management Plan @ 43,000/- per ha.</p>					
7	<p>The Committee noted that the Karo-Karampada Elephant Corridor is located at a distance of 1.2 km from the mine lease area as per the location map authenticated by the Principal Chief Conservator of Forests (Wildlife) & Chief Wildlife</p>	<p>The Project Proponent submitted that the mine lease area or the study area does not form a part of Sanctuary, National Park, Conservation or Community Reserve (Tiger, Elephant, or Biosphere Reserve). However, during fruit ripening and paddy crop season, occasional elephants may be spotted in the Buffer Zone.</p> <p>PP also submitted that the Site-Specific Wildlife Conservation Plan (SSWCP) for ML-139 has been prepared involving total cost of Rs. 133.4 lakh to be implemented in 10 years. PP vide letter dated 28.05.2022 submitted the Site-Specific Wildlife Conservation Plan (SSWCP) to Divisional Forest Officer (DFO), Bonai for approval Out of Rs. 133.4 lakh, about Rs. 97.9 lakh shall be spent by the State Forest Dept. towards Implementation of Site-Specific Wildlife Conservation Plan for the project impact area and on approval of the Plan and Rs 35.5 lakh shall be spent by PP towards Implementation of Site-</p>					

	<p>Warden, Odisha. Hence, the Project Proponent should specifically address the movement of elephants in the study area in the Wildlife Conservation Plan. PP also needs to submit the approval of Wildlife Conservation Plan for the instant mine lease (ML-139, 25.981 ha).</p>	<p>Specific Wildlife Conservation Plan within the project area which will be spent over a period of 10 years.</p>
8	<p>The Project Proponent needs to submit the Stage-I Forest clearance. PP needs to submit the details of payment towards Net Present Value (NPV).</p>	<p>The Project Proponent submitted that the entire mine lease of 25.981 ha comes under Toda Reserve Forest under Bonai Forest Division. The forest diversion proposal has been uploaded online vide Proposal No. FP/OR/MIN/10329/2015.</p> <p>PP submitted that Divisional Forest Officer (DFO), Bonai Forest Division vide letter dated 25.05.2012 issued a demand of Rs. 2,70,98,183 towards NPV @ 10,43,000 per ha for 25.981 ha under ML– 139. Then, PP vide letter dated 02.08.2012 informed the Divisional Forest Officer (DFO), Bonai Division that an amount of Rs 2,70,98,183/- have been deposited towards NPV in respect of Toda Iron ore mine of M/s SAIL (ML-139). PP also submitted that with continuous persuasion with Sate Forest Department, degraded forest land over 48.0 ha has been identified in Mahulpada R.F. of Kuliposh Range of Bonai Division and the scheme has been prepared for raising and maintaining plantation over 48 ha involving financial expenditure of Rs. 2,49,15,500/- in degraded forest land towards Compensatory Afforestation for the diversion proposal.</p> <p>Further, PP submitted that Gram Sabha was conducted and certificate regarding compliance of Scheduled Tribes and Other Traditional Forest Dwellers (Recognition of Forest Rights) Act was obtained on 14/05/2012.</p>
9	<p>The Project</p>	<p>The Project Proponent submitted that there is no perennial nala</p>

	<p>Proponent needs to submit the measures taken for protection of nalah in the vicinity of the mine lease area.</p>	<p>existing within the lease area. A dry nala is flowing in the mine lease area (Block-B) along east to west. The flow of water in the nala is restricted to the rainy season only. The mine working will be on hill slope. The average annual rainfall in the catchment area is about 1200 mm. A part of the rain water will be absorbed in the subsoil or filtered through cracks and fissures. Balance quantity of surface runoff water will flow through the natural drainage system. The quantity of rain water flow within the lease area will be negligible. However, retaining walls around the proposed dump have been proposed in order to arrest the solid waste. The trend of natural drainage pattern in the area is towards west. The surface run-off water will find clear access into the existing seasonal nala during rains. As the lease area is part of the undulating hill, and the surface run-off water will be channelized through the existing nalas. To arrest the suspensions of the flowing water, 8 no. of check dams made up of cement concrete have been proposed within the seasonal nala course in a staggered pattern. The length of each check dam will be 3 m, width 2 m and height 2 m. Shape of these check dams is proposed to be pyramidal. Also, a retaining wall of, 600 m length, 2 m height and 1 m width are proposed on both sides of the seasonal nalas. It is proposed to provide retaining wall, garland drain and settling tank at proposed dump in Block– B.</p>																																																																	
10	<p>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</p>	<p>The Project Proponent submitted that the peak excavation will be during the first year i.e., 49,935 MT. PP also submitted the year wise production plan as mentioned below.</p> <table border="1" data-bbox="529 1203 1424 1627"> <thead> <tr> <th rowspan="2">Year</th> <th rowspan="2">Total excavation (m³)</th> <th rowspan="2">Topsoil (m³)</th> <th rowspan="2">OB/SB/B (m³)</th> <th colspan="2">ROM</th> <th rowspan="2">Ore (Tonnes)</th> <th rowspan="2">Mineral rejects</th> <th rowspan="2">ROM/Waste Ratio (T/m³)</th> </tr> <tr> <th>Ore (m³)</th> <th>Mineral rejects (m³)</th> </tr> </thead> <tbody> <tr> <td>2020-21</td> <td>24,423</td> <td>0</td> <td>10,115</td> <td>14,308</td> <td>0</td> <td>49,935</td> <td>-</td> <td>1:0.2</td> </tr> <tr> <td>2021-22</td> <td>17,108</td> <td>0</td> <td>2,912</td> <td>14,196</td> <td>0</td> <td>49,544</td> <td>-</td> <td>1:0.06</td> </tr> <tr> <td>2022-23</td> <td>17,190</td> <td>0</td> <td>2,940</td> <td>14,250</td> <td>0</td> <td>49,733</td> <td>-</td> <td>1:0.06</td> </tr> <tr> <td>2023-24</td> <td>21,220</td> <td>0</td> <td>6,942</td> <td>14,278</td> <td>0</td> <td>49,830</td> <td>-</td> <td>1:0.14</td> </tr> <tr> <td>2024-25</td> <td>15,079</td> <td>0</td> <td>848</td> <td>14,231</td> <td>0</td> <td>49,666</td> <td>-</td> <td>1:0.02</td> </tr> <tr> <td>Total</td> <td>95,020</td> <td>0</td> <td>23,757</td> <td>71,263</td> <td>0</td> <td>248,708</td> <td>-</td> <td>1:0.10</td> </tr> </tbody> </table> <p>PP reported that considering the available exploration data, the resource of iron ore in Block-A is 11, 99,077 T and the resource of iron ore in Block-B is 9, 53,281 T. The total reserve is 21, 52,357 T. With ROM excavation @ 50,000 TPA, life of the mine will be 43 years. However, the life of the mine is relative & will depend on increase & decrease of production in subsequent</p>	Year	Total excavation (m ³)	Topsoil (m ³)	OB/SB/B (m ³)	ROM		Ore (Tonnes)	Mineral rejects	ROM/Waste Ratio (T/m ³)	Ore (m ³)	Mineral rejects (m ³)	2020-21	24,423	0	10,115	14,308	0	49,935	-	1:0.2	2021-22	17,108	0	2,912	14,196	0	49,544	-	1:0.06	2022-23	17,190	0	2,940	14,250	0	49,733	-	1:0.06	2023-24	21,220	0	6,942	14,278	0	49,830	-	1:0.14	2024-25	15,079	0	848	14,231	0	49,666	-	1:0.02	Total	95,020	0	23,757	71,263	0	248,708	-	1:0.10
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	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.	years and result of exploration. PP submitted that there is no top soil and mineral rejects will be generated during the plan period. The wastes to be removed from the quarries are mainly composed of laterite, shale, BHJ etc. In the plan period around 23,757 m ³ of overburden/waste will be generated. Out of which 615 m ³ will be utilize in filling of disturbed safety zone and 15,352 m ³ waste will be utilize in making of road etc., in first three years of plan period. In fourth year and fifth year 6,942 m ³ and 848 m ³ quantity of waste respectively will be dumped in the designated waste dump after proving barren through proposed exploration.
11	The Project Proponent needs to submit the letter from the State Govt for surrendered area of 12.2012 Ha.	The Project Proponent submitted that the Govt. of Odisha vide proceedings No. III(B)MG-40/72/537, dated 16 th January 1973 granted Mining Lease (ML-139) over 93.53 acre in two separate blocks viz Block– A and Block– B in Toda Reserve Forest in Sundargarh Dist. and directed to submit survey map and description of ML area. After survey and demarcation, the area came to 94.35 acres and a portion of the area of 30.15 acres or 12.2012 ha of Block– A fall in the Dist. of Keonjhar. The remaining Block– A over 10.7972 ha and Block– B over 15.1838 ha covering total area of 25.981 ha fall under Sundargarh District. Accordingly, Govt. of Odisha vide proceedings dated 26.08.1975 partially amended the original order dated 16.01.1973 and revised the mine lease area to 25.981 ha covering two blocks (Block– A and Block– B) located in the Sundargarh District and excluded the portion of Block– A over 12.201 ha located in Keonjhar District.
12	The Project Proponent needs to submit the Permission letter for withdrawal of Surface water from Najkura Nala.	The Project Proponent submitted that the water requirement for operating Kalta Iron mine is being drawn from Najkura Nala @ 24,922 cu.m per month, for which the water charges is being paid to Office of the Executive Engineer, Sundargarh Irrigation Division, Sundargarh, Govt. of Odisha on a monthly basis based on the demand. The water requirement of ML-139 will be fulfilled from the existing source. PP also submitted the copy of payment of water charges paid for the month of March '22.

4. Observation and Recommendation of the Committee:

The EAC after detailed deliberations made by the Project Proponent and the Consultant, noted that the entire mine lease area of 25.981 is a forest land and Project Proponent is not having Stage-I Forest Clearance which is under process.

The EAC also noted that the Project Proponent obtained the letter from the Govt. of Odisha vide letter dated 10.02.2016 for the extended lease period for a period of 50 years i.e., from 17.01.1975 to 16.01.2025 subject to execution of supplementary lease deed for the period from 17.01.1975 to 16.01.2025 obtaining all statutory clearances, payment of requisite dues as per act and rules within three months. Project Proponent vide letter dated 20.04.2022 submitted the requisition letter to the Govt. of Odisha to grant time for another 6 (six) months w.e.f. 09.05.2022 to 08.11.2022 for execution of supplementary lease deed. The EAC opined that the current status of the mine lease area is in question and advised the Project Proponent to submit a letter from the Govt. of Odisha regarding the present status of the mine lease area w.r.t MMDR Act, 1957.

The EAC observed that the Project Proponent has not submitted the total budget allocated for addressing the concerns raised during the public hearing with a timeline of 3 years. The EAC also noted that the Project Proponent have included the CSR activity in the budget of the public hearing. The EAC advised the Project Proponent to revise the public hearing action plan in accordance with the Ministry's OM dated 30.09.2020.

In view of the above, the EAC **deferred** the proposal and was of the view that the proposal may be considered only after the submission of the Stage-I Forest clearance as the entire mine lease area of 25.981 ha is a forest land along with the following additional information: -

- i. Project Proponent shall submit the Stage-I FC for 25.981 ha involved in the project area required for diversion for non-forestry activity.
- ii. The Project Proponent needs to submit the input parameters used for the Air Quality modeling, references taken for estimation of emission rate for cumulative impact assessment and also the controlling factors taken w.r.t to control case and worst-case scenario w.r.t additional details sought point no. 4.
- iii. The Project Proponent needs to submit the noise modeling and the anticipated ground vibration in PARIVESH as presented before the EAC during the meeting.
- iv. The Project Proponent needs to submit the action plan for installing water treatment plant for supply of water to the local people along with the timeline and budget. Project Proponent also needs to submit the action plan for installing online monitoring system for Chemical Oxygen Demand (COD), Biological Oxygen Demand (BOD), Total Suspended Solid (TSS) and pH.
- v. The Project Proponent needs to submit the revised total budget allocated for addressing the issues raised during the public hearing excluding the activity of

CSR/DMF along with the revised public hearing action plan in accordance with the Ministry's OM dated 30.09.2020 with a timeline of 3 years.

- vi. Project Proponent needs to submit the letter regarding current status of the mine lease from the State Government and submit the extension letter for execution for lease deed.
- vii. The EAC noted that the mine lease area is mentioned as 23.521 ha in Grama Sabha letter dated 14.05.2012 and in FRA Certificate whereas the instant mine lease area is 25.9821 ha. Hence, the Project Proponent needs to clarify the same.
- viii. Project Proponent shall conduct traffic impact assessment based on 40-50 tonnes trucks and accordingly submit the mitigation measures till Roxy Railway Siding. PP shall study the impact on habitation (present in 100 mts of either side of road) all along the road of transportation.

1.4 Itoura Limestone mine of M/s. RCCPL Private Limited with production capacity of 0.8 MTPA, Waste/rejection 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, KarhiPawai, Giduri, and Rewra, Tehsil Raghurajnagar, Satna District, Madhya Pradesh – [File No: J-11015/16/2019-IA.II(M), Proposal No: IA/MP/MIN/101792/2019; Consultant: Vimta Labs Ltd] - Reconsideration of EC

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 Project Proponent 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 proposal was earlier considered in the 42nd EAC (Non-Coal Mining) meeting held during 30th November – 3rd December, 2021. After detailed deliberations made by the Project Proponent and the Consultant, the Committee deferred the proposal for want of requisite information. The Project Proponent vide Letter Ref No: RCCPL/Itaura_MP/MoEF&CC/05 dated 28th March 2022 submitted the information sought by the EAC in its meeting held during 30th November – 3rd December, 2021. Accordingly, the proposal was reconsidered in the 49th EAC (Non-Coal Mining) meeting held during 19th- 21st April, 2022. After detailed deliberations made by the Project Proponent and the Consultant, the Committee noted that the railway line from Lalitpur to Singrouli passes through the mine lease area which is under construction and the Committee was of the view that since the Drilling and Blasting activities are proposed in mining operations, the Project Proponent should obtain the NOC from Railway Department for further appraisal of the project. Therefore, the Committee deferred the proposal for want of additional information. Then, the Project Proponent vide letter dated 02.06.2022 and 24.06.2022 submitted the information on 07.06.2022 and 27.06.2022 in PARIVESH and accordingly the proposal was reconsidered in the 1st EAC (Non-Coal Mining) meeting held during 27th – 29th July, 2022.

Based on observation of EAC and compliance of observation of EAC made by PP, the following are detailed below:

S. No	Observation of EAC	Reply by Project Proponent
1	The Project Proponent should obtain the NOC from Railway Department as drilling and blasting activities are proposed in mining operations	<p>The Project Proponent submitted the NOC from the Western Central Railway vide Lr No. Dy.CE/C-II/STA/Misc/NOC dated 20.06.2022 with the following terms and conditions:</p> <ul style="list-style-type: none"> i. No mining activity shall be permitted within 100m distance from Railway boundary. ii. The provision of Minor Mineral Rule, 1966 shall be followed for Railway boundary. iii. There should be no damage to Railway's property or safety of passengers due to mining activities. iv. Incase any loss/damage to Railways property or passengers, on account of mining activities, the same shall be borne by blasting RCCPL undertaking company. <p>The train operates from Satna to Barethiya-Nagod are likely to be started from 2023 onwards and subsequently the entire railway line from Khajuraho-Panna-Satna likely to be connected in coming years.</p>
2	The Committee noted that as the drilling & blasting	The Project Proponent submitted the Scientific study carried out by Rock Excavation Engineering Division, CSIR-Central Institute of Mining & Fuel Research, Dhanabad for

<p>activity is proposed and the railway line from Lalitpur to Singrouli passes through the mine lease area which is under construction, the Project Proponent should carry out the scientific study from CIMFR or any other recognized institution of repute which is approved for carrying out such studies. The study should be clearly demonstrated that whether there are any adverse impacts and it can be controlled by adopting mitigative measures or not?</p>	<p>assessment of blasting impacts on the under-construction railway line and for designing of controlled blasting patterns.</p> <p>The Project Proponent reported that the site visit was conducted on 8th June, 2022 to assess the physical conditions of the under-construction railway line, its distance from the mining lease area and various other features. In order to assess the possible impacts of blasting on the under-construction railway line, the ground vibration data collected during the scientific studies conducted by CSIR-CIMFR at the nearby limestone mines of RCCPL Pvt. Ltd and KJS Cement Pvt Ltd have been used.</p> <p>The Project Proponent submitted the observations made during the site visit, assessment of blasting impacts, conclusions and recommendations made in the report are summarized below.</p> <ol style="list-style-type: none"> i. A new railway line of Lalitpur-Singrauli section of the Indian Railways is under-construction and passing through the middle of the mining lease area of the proposed Itoura Limestone Mine. The footings of a Rail Under-Pass (RUP) of the new railway line is also in the process of construction. ii. Amongst the different components of Railway Line, railway sleeper, steel rails, joints and point boxes etc. and the underpass would require protection from the blast induced ground vibration, flyrock and air overpressure. iii. As per the MMR 1961, the mine management has to leave a safety barrier of 50 m on either side of the railway line iv. For the assessment of possible blasting impacts on the under-construction railway line and its various components, a ground vibration predictor equation has been developed by incorporating the data collected during the previous scientific studies done by CSIR-CIMFR at two nearby mines, Sadhera Limestone Mine of M/s RCCPL Pvt. Ltd. and KJS Limestone Mine of M/s KJS Cement Pvt. Ltd. Both these mines are located in same Satna District of Madhya Pradesh having similar geomining conditions. v. Based on the dominant frequencies of ground vibration waves obtained at the two limestone mines viz. Sadhera and KJS Limestone Mines, the safe level of PPV for different structures of the under-construction
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		<p>railway line may be taken as 20 mm/s. However, for additional safety, the PPV level of 10 mm/s has been taken as the safe value considering the sensitiveness of the structures.</p> <ul style="list-style-type: none"> vi. Based on the assessment of ground vibration levels for different explosive charge quantities at various distances from the under-construction railway line, blasting operations can be carried out safely without affecting and endangering the under-construction railway line. vii. The controlled blast design patterns have been recommended for conducting safe blasting operations nearby the under-construction railway line. The precautionary measures have also been recommended for controlled blasting operations. viii. It is recommended to muffle/cover the entire blasting area using blasting mats/wire-mesh/conveyor belts with sufficient number of sandbags within the blasting zone of 50-150m from the railway line. Within the blasting zone of 150 to 200 m from the railway line, all the blast holes should be covered with either wire-mesh or conveyor belts and sufficient sandbags. ix. The time of blasting in the mine should be fixed in consultation with the Railway Department. No blasting operation should be conducted during any train movement. x. Nonel (Shock Tube) initiation system is recommended for in-hole explosive initiation and surface hole-to-hole firing. For effective control on ground vibrations, the recommended maximum scattering of delays in case of TLD is = 5 ms and for DTH, the suggested limit for scattering of delay is 10 ms.
3	<p>The Project Proponent shall submit the measures taken for strengthening of mine pit and protection of railway line which is passing through the mine lease area. PP needs to mention the proposed frequency of the</p>	<p>The Project Proponent submitted that the railway line from Lalitpur to Singrouli passes through the mine lease area which is under construction. The following measures are proposed to mitigate the adverse impact of ground vibration on the railway line which are as follows.</p> <ul style="list-style-type: none"> i. The entire blasting area will be muffled using blasting mats/wire-mesh/conveyor belts within the blasting zone up to 150 m ii. Minimum three number of sandbags having sufficient weight will be placed over each blast hole to prevent any stemming ejection. iii. Within the zone of 150 to 200 m, all the blast holes will be covered with either wire-mesh or conveyor belts.

	<p>train passing along with timing and also the time of blasting. PP should also submit the map demarcating the railway line, railway boundary and safety distance left, distance of proposed working pit from railway line/railway boundary, mining zone within the mine lease area</p>	<ul style="list-style-type: none"> iv. Beyond 200 m of the railway line, muffling arrangement may not be required. However, all other precautionary measures for fly-rock shall be followed. v. Within the blasting zone of 100 to 150 m, if any hole contains water, it will be dewatered before charging of explosive. If holes are filled with water, stone chips of 6 - 8 mm sizes will be used for stemming materials. vi. Blasting time will be fixed in consultation with the Railway Management, avoiding blasting during any train movement. vii. The charging of explosive in a shot hole will be done by the authorized blaster only and no excess charging will be carried out during the blasting operations. viii. The holes will not be charged, stemmed or fired during thundering conditions in cloudy weather. ix. All loosened pieces of stone or rock will be removed from the blasting face before starting the charging operations. x. Additional safety measures given by the DGMS will be strictly followed. <p>PP also submitted that the Railway Dept. has informed that the train operations from Satna to Barethiya-Nagod are likely to be started from the year 2023 onwards. Subsequently entire railway line from Khajuraho-Panna-Satna likely to be connected in coming years.</p> <p>Further, PP also submitted the map demarcating the railway line, railway boundary and safety distance left, distance of proposed working pit from railway line/railway boundary, mining zone within the mine lease area.</p>
4	<p>The Project Proponent needs to submit the scenario of pollution to be generated nearby the railway line passing through the mine lease area</p>	<p>The Project Proponent submitted that the impact due to the mining activity on the railway track passing through the mine lease area has been determined using AERMOD Software. The total length of the railway line passing through the mine lease area is about 1 km approximately. The predicted incremental concentration along the railway line has been identified using cross section tool at 50 m distance along the railway line.</p> <p>PP reported that the predicted incremental GLC's due to mining activity for parameter PM₁₀ with 80% control measure towards Northern & Southern direction of the railway line at 50m found to be 7.43 µg/m³ & 7.70 µg/m³ respectively, whereas for PM_{2.5} the predicted GLC's are found to be 2.31 µg/m³ towards Northern direction and 2.34 µg/m³ towards</p>

		<p>southern direction. Similarly, the predicted incremental GLC's of PM₁₀ with 60% control measure towards Northern & Southern direction of the railway line at 50m found to be 12.1 µg/m³ & 12.3 µg/m³ respectively, whereas for PM_{2.5} the predicted GLC's are around 7.27 µg/m³ towards Northern direction and 7.94 µg/m³ towards southern direction. For NO_x the predicted GLC's found to be 4.47 µg/m³ towards Northern direction and 6.59 µg/m³ towards southern direction. For CO the predicted GLC's found to be 2.04 µg/m³ towards Northern direction and 3.08 µg/m³ towards southern direction. For SO₂ the predicted GLC's are around 0.41 µg/m³ towards Northern direction and 0.60 µg/m³ towards southern direction. The GLC's are higher in the southern direction when compared to northern direction due to the activity of proposed mining carried out towards south of the railway line. A safety barrier of 50m on either side of the railway line will be maintained which further reduce the impact to a great extent.</p> <p>PP also submitted the photograph showing the railway line under construction within the mine lease area and also the conceptual plan of railway line with 50m barrier. Further, PP submitted the graph of the predicted incremental Ground Level Concentration (GLC's) plotted using Line plot style with distance of the railway line as x-axis and GLC's along Y axis for the parameters PM₁₀ & PM_{2.5} with 80% and 60% control measures on both sides of the railway lines (Towards Northern and Southern Direction).</p>
5	<p>The Committee noted that the reply of the additional details sought for point no.1 is not satisfactory wherein the PP has not projected the pollution scenario for transportation of mineral for the parameters SO₂ and NO_x and its incremental concentration with and without control measures</p>	<p>PP submitted that the pollution scenario for transportation of mineral for the parameters NO_x, SO₂, CO, PM₁₀, & PM_{2.5} were carried out using AERMOD view Road Line source to predict the incremental GLC's along the transportation route. The crushed material will be transported by road to the cement plant located at a distance of 60 km. The modelling has been carried out by assuming the dumper capacity around 18 tonnes and 300 working days (2 shifts a day with 8 hours each). The emission rates as inputs to the line source model are calculated based on "Bharat Stage – IV Standards" and "ANL standards". The modeling has been carried out for two speeds 20 km/hr and 60 km/hr.</p> <p>PP reported that for NO_x for 60 kmph, the incremental concentration found to be 2.88 µg/m³ and for 20 kmph the incremental concentration found to be 0.10 µg/m³, For CO for 60 kmph, the incremental concentration found to be 1.85 µg/m³ and for 20 kmph, the incremental concentration found to be 1.23 µg/m³, for PM₁₀ for 60 kmph, the incremental</p>

	<p>and hence, PP needs to revisit the same and accordingly PP needs to submit the information</p>	<p>concentration found to be 0.03 µg/m³ and for 20 kmph, the incremental concentration found to be 0.0015 µg/m³. For PM_{2.5}, for 60 kmph, the incremental concentration found to be 0.02 µg/m³ and for 20 kmph, the incremental concentration found to be 0.0009 µg/m³. The predicted incremental concentration for SO₂ is around 0.0061 µg/m³ for 60 kmph and 0.00021 for 20 kmph that is almost negligible which are likely to occur at 100 m centre line from the road. From the observations it was observed that the NO_x and CO emission shall be reduced to a greater extent by the usage of Trucks with reduction of speed in HMV. The NO_x, CO, PM₁₀, PM_{2.5} and SO₂ concentrations are likely to be very low when compared with NAAQS standards. Hence, the impact will be limited.</p> <p>PP submitted that the proposed normative production is estimated to be 2667 TPD (ROM) for 300 working days. As a worst-case scenario, the air dispersion modeling has been carried out for peak production capacity of 2963 TPD (ROM) for 270 working days to predict the impact during their maximum peak production considering all mining activities as the equipment utilized for mitigating the pollution control can handle 10% increase in the production capacity. PP reported that the short-term air dispersion model simulations indicate that the predicted incremental maximum GLC's of PM₁₀ will be about 49.21 µg/m³ 'without control measures' within mine lease area. Further, assuming the mine will operate with 60% control measures in compliance with Environmental Clearances & Consent to Operate, the predicted incremental GLC's of PM₁₀ 'with control measures' will be 19.70 µg/m³. Similarly, incremental GLC's of PM_{2.5} were found to be 14.80 µg/m³ 'without control measures' within mine lease area. These GLC's will be further reduced after implementation of EMP control measures. The predicted incremental GLC's of PM_{2.5} 'with control measures' will be 5.91 µg/m³. The maximum incremental GLC's of NO₂, CO & SO₂ are about 10.04 µg/m³, 4.53 µg/m³, 0.93 µg/m³ which are likely to occur due to the movement of vehicles at the haul roads located within the mine lease area.</p>
6	<p>The Project Proponent needs to submit the protection measures to be taken in compliance of</p>	<p>Project Proponent submitted the point wise compliance of the Office Memorandum No. Z11013/57/2014-IA.II (M) dated 29th October, 2014 as mentioned below: -</p>

<p>the MoEF&CC Office Memorandum No. Z11013/57/ 2014-IA.II (M), dated 29th October, 2014</p> <p>a). The Project Authority shall adopt Best Mining Practice for the given mining conditions. In the mining area, adequate number of check dams, retaining walls/structures, garland drains and settling ponds should be provided to arrest the wash-off with rain water in catchment area.</p> <p>b). The natural water bodies and or streams which are flowing in and around the village should not be disturbed.</p> <p>The Water Table should be nurtured so as not to go down below the premining period.</p> <p>In case of any water scarcity in the area, the Project Authorities have to provide water to the</p>	<p>PP submitted that the fully mechanized opencast mining will be adopted with high efficiency latest machinery. In order to arrest wash off from solid waste into the water courses, retaining wall of 1.5 m x 1 m will be erected around the external dumps. The slope of mine lease area is gentle hence there are no water channels over which a check dam can be constructed. After initiating the mining operations, the rain fall run-off water will be channeled into mine pit which acts as settling ponds/rainwater harvesting structures.</p> <p>PP submitted that the natural water bodies and or streams which are flowing in and around the village will be preserved.</p> <p>Water will be accumulated in the mined-out pits. These pits will act as water reservoir. This will nurture ground water table.</p> <p>Addressing water scarcity issue will be taken-up under public hearing concerns.</p>
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<p>villagers for their use.</p> <p>A provision for regular monitoring of water table in open dug well located in village should be incorporated to ascertain the impact of mining over ground water table.</p> <p>c) The illumination and sound at night at project sites disturb the villages in respect of both human and animal population. Consequent sleeping disorders and stress may affect the health in the villages located close to mining operations. Habitations have a right for darkness and minimal noise levels at night. The Project Proponents (PPs) must ensure that the biological clock of the villagers is not disturbed by orienting the floodlights/ masks away from the villages and keeping the noise levels well within</p>	<p>Regular monitoring of water table levels along with assessment of water quality will be taken-up in post project monitoring.</p> <p>PP submitted that illumination lights will be positioned towards mining areas and due care will be taken not to disturb nearby population at night. Night shift operation will not be done. Noise levels will be kept within permissible levels by regular monitoring and taking all preventive and corrective measures.</p>
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<p>the prescribed limits for day/night hours.</p> <p>d) The Project Authority shall make necessary alternative arrangements, where required, in consultation with the State Government to provide alternate areas for livestock grazing. In this context, Project Authority should implement the directions of the Hon'ble Supreme Court with regard to acquiring grazing land. The sparse trees on such grazing ground, which provide midday shelter from the scorching sun should be scrupulously guarded against felling, lest the cattle abandon the grazing ground or return home by noon.</p> <p>e). Where ever blasting is undertaken as part of mining activity, the Project Authority shall carry out vibration</p>	<p>PP submitted that there is no grazing land in mine lease area. If required, suitable areas will be identified in coordination with revenue department for developing grazing land which acts as common property for the villagers.</p> <p>PP submitted that the Ground vibration study will be conducted during initial mining operation. Controlled blasting with delay detonators using Nonel will be adopted to keep noise and vibration within safe limits. No mining operation will be carried out within 50 meters of any public property. Drilling and blasting shall be carried out within 300 meters of public places with due permission from DGMS.</p>
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<p>studies well before approaching any such habitats or other buildings to evaluate the zone of influence and impact of blasting on the neighbourhood. Within 500 meters of such sites vulnerable to blasting vibrations, avoidance of use of explosives and adoption of alternative means of mineral extraction, such as ripper/dozer combination/rock breakers/ surface miners etc. should be seriously considered and practiced wherever practicable. A provision for monitoring of each blast should be made so that the impact of blasting on nearby habitation and dwelling units could be ascertained. The covenant of lease deed under Rule 31 of MCR 1960 provides that no mining operations shall be carried out within 50 meters of public</p>	
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	<p>works such as public roads and buildings or inhabited sites except with the prior permission from the Competent Authority.</p> <p>f). Main haulage road in the mine should be provided with permanent water sprinklers and other roads should be regularly wetted with water tankers fitted with sprinklers. Crusher and material transfer points should invariably be provided with Bag filters and or dry fogging system. Beltconveyors should be fully covered to avoid air borne dust.</p> <p>g). The Project Authority shall ensure that the productivity of agricultural crops is not affected due to mining operations. Crop Liability Insurance Policy has to be taken by the PP as a precaution to compensate for</p>	<p>PP submitted that main haulage road in the mine will be provided with permanent water sprinklers and other roads will be regularly wetted with water tankers fitted with sprinklers. Crusher and material transfer points will be provided with bag filters. Material will be transported by covered truck.</p> <p>PP submitted that crop liability insurance policy will be arranged as prescribed.</p>
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<p>any crop loss. The impact zone shall be 5km from the boundary of mine lease area for such insurance policy. In case, several mines are located in a cluster, the Associations of owners of the cluster mines, formed inter-alia, to sub-serve such an objective, shall take responsibility for securing such Crop Liability Policy.</p> <p>h). In case any village is located within the mining leasehold which is not likely to be affected due to mining activities during the life of mine, the Expert Appraisal Committee (EAC) should consider the proposal of Environmental Clearance (EC) for reduced mining area. The Mining lease may be executed for the area for which EC is accorded. The mining plan may also be accordingly revised and</p>	<p>PP submitted that the thick barrier of plants will be developed on 100 m wide safety zone around the habitation falling within mine lease area.</p>
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<p>routing of foot paths, pagdandies, cart roads, and village infrastructure/ public utilities or roads (for purposes of land acquisition for mining) shall be avoided to the extent possible and in case such acquisition is inevitable, alternative arrangements shall be made first and then only the area acquired. In these types of cases, Inspection Reports by site visit by experts may be insisted upon which should be done through reputed Institutes.</p>	<p>and then the original cart track shall be disturbed. Particulars about the proposed diversion is shown on the conceptual plan.</p>
<p>k). As CSR activities by Companies including the Mining Establishments has become mandatory up to 2% of their financial turn-over, Socio Economic Development of the neighborhood Habitats could also be planned and executed by the PPs more</p>	<p>PP submitted that as the mine is for captive purpose, no selling of limestone is envisaged. However, company has already started several CSR activities in and around mine lease area. R&R plan developed as per the state/national guidelines/policy. No village located in the mine lease will be displaced. SCs/STs and other weaker sections have given due weightage in the development plan and shall leverage with existing govt. schemes. Need based door to door survey has been carried out to plan socio economic development of neighborhood habitat during R&R study.</p>

<p>systematically based on the 'Need based door to door survey' by established Social Institutes/Workers on the lines as required under TOR. "R&R Plan/compensation details for the Project Affected People (PAP) should be furnished. While preparing the R&R Plan, the relevant State/National Rehabilitation & Resettlement Policy should be kept in view. In respect of SCs /STs and other weaker sections of the society in the study area, a need based sample survey, family-wise, should be undertaken to assess their requirements, and action programmes prepared and submitted accordingly, integrating the sectoral programmes of line departments of the State Government. It may be clearly brought out</p>	
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	whether the village located in the mine lease area will be shifted or not. The issues relating to shifting of Village including their R&R and socio-economic aspects should be discussed in the EIA report.”																																																														
7	The Project Proponent needs to submit the detailed comprehensive wildlife management plan by detailing the components involved and measures taken for protection of Schedule-I species	<p>The Project Proponent submitted the revised budget for Wildlife Conservation Plan increased from Rs 5.0 Lakhs to Rs 14.5 Lakhs by detailing the components involved and measures taken for protection of Schedule-I species as mentioned below.</p> <table border="1"> <thead> <tr> <th rowspan="2">S. No</th> <th rowspan="2">Activity</th> <th colspan="5">Year</th> <th rowspan="2">Total</th> </tr> <tr> <th>1</th> <th>2</th> <th>3</th> <th>4</th> <th>5</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Contribution to Forest Department</td> <td>50,000</td> <td>50,000</td> <td>50,000</td> <td>25,000</td> <td>25,000</td> <td>2,00,000</td> </tr> <tr> <td>2</td> <td>Habitat development for peafowl & in-situ conservation</td> <td>1,25,000</td> <td>1,25,000</td> <td>1,25,000</td> <td>1,25,000</td> <td>1,00,000</td> <td>6,00,000</td> </tr> <tr> <td>3</td> <td>Awareness program to local villagers on conservation of peafowl and its habitat</td> <td>75,000</td> <td>50,000</td> <td>25,000</td> <td>25,000</td> <td>25,000</td> <td>2,00,000</td> </tr> <tr> <td>4</td> <td>Providing watch & ward through local villagers</td> <td>50,000</td> <td>50,000</td> <td>40,000</td> <td>30,000</td> <td>30,000</td> <td>2,00,000</td> </tr> <tr> <td>5</td> <td>Introduction of Eco-clubs in schools and sensitizing children on conservation strategies</td> <td>50,000</td> <td>50,000</td> <td>50,000</td> <td>50,000</td> <td>50,000</td> <td>2,50,000</td> </tr> <tr> <td colspan="2">Total</td> <td>3,50,000</td> <td>3,25,000</td> <td>2,90,000</td> <td>2,55,000</td> <td>2,30,000</td> <td>14,50,000</td> </tr> </tbody> </table>	S. No	Activity	Year					Total	1	2	3	4	5	1	Contribution to Forest Department	50,000	50,000	50,000	25,000	25,000	2,00,000	2	Habitat development for peafowl & in-situ conservation	1,25,000	1,25,000	1,25,000	1,25,000	1,00,000	6,00,000	3	Awareness program to local villagers on conservation of peafowl and its habitat	75,000	50,000	25,000	25,000	25,000	2,00,000	4	Providing watch & ward through local villagers	50,000	50,000	40,000	30,000	30,000	2,00,000	5	Introduction of Eco-clubs in schools and sensitizing children on conservation strategies	50,000	50,000	50,000	50,000	50,000	2,50,000	Total		3,50,000	3,25,000	2,90,000	2,55,000	2,30,000	14,50,000
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8	The Project Proponent needs to submit the revised EMP	The Project Proponent submitted the revised action plan for public hearing concerns raised by the public with a timeline of 3 years with increase in budget from Rs 105.0 Lakhs to Rs 204 Lakhs.																																																													

	budget for addressing the public hearing concerns related to infrastructure, health, education, pollution control and plantation in the buffer zone	S. No	Thematic Area	Action Plan	Budget in lakhs		
					1 st year	2 nd year	3 rd year
		1	Providing Drinking Water Facility	Water Tank and provide safe drinking water in govt. schools/ villages. 6 Nos. @ Rs.2,00,000/- in all project villages	4.0	4.0	4.0
				Deepening/desiltation of pond. 7nos. @ 200000/- in all villages	6.0	6.0	2.0
				Water ATM. 4 Nos. @ Rs.5,00,000/- in project villages	5.0	10.0	5.0
		2	Health & Sanitation drive	Health check up camp. 15 Nos. @ Rs.40,000/- in all project villages	2.0	2.0	2.0
				Health awareness program in Schools and Anganwadi, distribution of swatchhata kits, Sanitation & Bleaching of villages, school area. 600 Nos. @ Rs.1,000/- in all project villages	2.0	2.0	2.0
		3	Promotion of sports	Playground preparation and supply of sports equipment/kits etc. 03 Nos. @ Rs. 2,00,000/- in all project villages	2.0	2.0	2.0
				Promotion of sports tournaments etc. 12 Nos. @Rs.50,000/- in all project villages	2.0	2.0	2.0
		4	Livelihood and Skill development	Skill development training for local youths-Technical training on LMV/HMV Motor driving, motor windings, electrical fittings, AC and refrigerator repairing,	4.0	6.0	6.0

			two-four-wheeler servicing and repairing, meson work, plumbing, bar windings, stitching & designing course for females, computer course etc. 80 Nos. @ Rs.20,000/- in all project villages				
			Farm based Livelihood program and entrepreneurship program to SHG and farmers. 550 Nos. of farmers @Rs.10,000/- in all project villages	15.0	20.0	20.0	
		5	Rural Infrastructure Development	Construction of CC road/drains etc. 600 RM @ Rs.4,000/- in all project villages	8.0	8.0	8.0
				Repairing of school buildings, community building, stage, school boundary wall/toilet etc. 08 Nos. @Rs.2,00,000/- in all project villages	4.0	6.0	6.0
		6	Environment and Energy	Installation of Solar Street light and Plantation. 60 Nos. @ Rs.15,000/- in all project villages	3.0	3.0	3.0
		7	Education Support	Development of Model Anganwadi, Model School Buildings & furniture etc. 10 Nos. @Rs.1,20,000/- in all project villages	4.0	4.0	4.0
		8	Others	Road Safety - Training on traffic rules & providing of fluorescent jackets etc. 08 Nos. @ Rs.25,000/- in all project villages	-	1.0	1.0
			Total (Rs 204.0 Lakhs)	61.0	76.0	67.0	
9	The Project	The Project Proponent submitted that the nearest village					

	Proponent shall increase the width of the plantation between the buffer zone and working pit to 180 m	within the mine lease area is Rewra village at a distance of 180 m. Earlier a 100m wide safety barrier with plantation was proposed from the village boundary. However, as per the recommendation of Hon'ble EAC, the width of proposed plantation has been increased from 100 m to 180 m between Rewra village and working pit. Total plantation within the mine lease area has been increased by 2.92 ha.
10	The Project Proponent shall ensure that the bund between the river shall be after the plantation where the Pit 11 and Pit 13 is indicated that the width is 8.5m and the total distance of the pit from the flood plain should be more than 60m	The Project Proponent submitted that the proposed embankment (bund) has been shifted after the 50 m wide plantation along the river. The bottom width of the proposed embankment is 8.5m. Total distance of the nearby pits from the flood plain has been kept more than 60m. PP also submitted the conceptual plan showing the embankment along the pit 1-6 and pit 7-9.
11	The Project Proponent needs to submit the Progressive Mine Closure Plan targeting the areas which are away from the habitation	<p>The Project Proponent submitted that they will undertake the plantation along the habitation in such a manner that the nearby habitation areas are well protected before start of mining operations near that area. Although the life of the mine is 50 years, all the safety barriers along the habitation covering an area of 56.41 ha will be completed in first 10 years, so that the habitations are well protected in advance before mining near those areas.</p> <p>PP also submitted the progressive mine closure plan showing phase wise plantation along the habitation. PP reported that plantation along the safety barriers over an area of 36.08 ha including 5.344 ha along habitation will be carried out in initial 3 years and plantation along habitation over an area of 22.18 ha will be completed in 4th to 6th year and remaining area of 28.88 ha will be completed in 7th to 10th year.</p>
12	The Committee noted that the proposal of installing crusher with a capacity of 400 TPH is not a part of TOR dated 09.07.2019. However, in Form	The Project Proponent submitted that at the time of submission of Terms of Reference (ToR), the crusher capacity was 300 TPH and it was considered in ToR. However, in later stage, the crusher capacity was revised to 400 TPH and accordingly crusher of 400 TPH is considered in approved mining plan. The crusher capacity of 400 TPH was considered in EIA report and the same was submitted for public hearing.

<p>1 under (II) Activity S. No 1.5, PP has mentioned that 300 TPH crusher will be involved. Hence, PP needs to submit the actual capacity of crusher and needs to clarify the whether the proposal of crusher is part of TOR or not and the impacts of crusher has been addressed in the public hearing or not? In EIA report (Ref C2-37), PP also mentioned that Wobbler of 300 TPH shall be considered with 2100 mm X 4500 mm with a separation size of 75 mm. PP needs to clarify whether mineral beneficiation is involved in the proposal or not?</p>	<p>PP also submitted that Wobbler was proposed to be considered along with crusher to remove soil/clay from the limestone of top bench. Further, PP submitted that after analyzing the issue critically by considering all technical and quality aspects and found that the Wobbler is not required. All the limestone will be crushed and consumed in the cement manufacturing process directly. PP clarified that mineral beneficiation is not involved in this proposal.</p>
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4. Observation and Recommendation of the Committee:

The EAC noted that the Project Proponent submitted the NOC from the Western Central Railway vide letter dated 20.06.2022 stating that the no mining activity shall be permitted within 100m distance from Railway boundary. The EAC also noted that the Project Proponent could not able to demarcate and show the railway boundary. The EAC asked the Project Proponent to define the railway boundary along with the coordinates from the Dept of Railways and submit a map accordingly.

The EAC also noted that there is an existing school inside the mine lease area. During the meeting, Project Proponent informed that the strength of the students is

about 500 nos. The EAC advised the Project Proponent to relocate the school with all existing available infrastructure facilities. Accordingly, Project Proponent shall submit a plan with alternative location and budget allocated along with the suitable timeframe. The EAC also noted that during the meeting, the Project Proponent agreed to relocate the school.

Further, the EAC noted that a road of length about 1.2 km connecting NH 39 is falling within the mine lease area. The EAC also asked the Project Proponent to explore the possibility of shifting the road connecting NH falling within the mine lease area before commencement of mining operations in area adjacent to road.

The EAC observed that the EMP budget allocated under Air Environment at item (1) APCE at crusher & conveying system and (2) Dust suppression system at crusher is inappropriate. The EAC opined that the Project Proponent needs to revisit the same. Therefore, the EAC **deferred** the proposal and was of the view that the proposal may be considered only after the submission of the following additional information: -

- i. The Project Proponent needs to submit the map from the Dept of Railways delineating the railway boundary from the railway line with the geographical coordinates.
- ii. The Project Proponent shall submit a plan for relocation of school with all the existing infrastructure facilities available along with the budget with the suitable timeframe for relocation of school as committed by the Project Proponent during the meeting. An Undertaking in this regard needs to be submitted by the Project Proponent.
- iii. The project proponent needs to submit the road alignment of the bypass road passing through the lease area connecting the NH with the geographical coordinates. The Project Proponent needs to submit the action plan for strengthening road network and bypass road proposed to be used for transportation along with the timeline. Also, the Project Proponent needs to explore the possibility of shifting the road connecting National Highway falling within the mine lease area before commencement of mining operations in area adjacent to road.
- iv. The Project Proponent shall submit the detailed action plan for plantation on the proposed embankment along the river Satna with local and diversified species.

- v. The Project Proponent needs to submit the detailed plan for rainwater harvesting with year wise target for reduction in consumption of the ground/surface water by developing alternative source of water through rainwater harvesting measures.
- vi. The Project Proponent needs to revisit the EMP budget allocated under Air Environment at item (1) APCE at crusher & conveying system and (2) Dust suppression system at crusher with proper estimation.
- vii. The Project Proponent needs to submit the Environmental Policy by mentioning the name of the company.
- viii. The Project Proponent needs to submit all the analysis/testing reports of water, air, soil, noise, etc. using the MoEF&CC/NABL accredited laboratories.

Day 2: 28th July, 2022 (Thursday)

2.1 Amendment in existing Environmental Clearance dated 2nd November, 2007 w.r.t Amalgamation of Korumanipalli & Thollamadugu Limestone Mine (ML Area 205.212 ha) and Korumanipalli Limestone Mine (49.64 ha) of M/s. Penna Cement Industries Ltd with combined production capacity of 2.30 MTPA over an amalgamated mine lease area of 254.856 ha, located at villages Korumanipalli & Thollamadugu, Mandal- Kolimigundla, District- Kurnool, Andhra Pradesh – [J-11015/654/2007-IA.II(M), IA/AP/MIN/276997/2022; Consultant: J.M. EnviroNet Pvt. Ltd] - Amendment in EC

The instant proposal is for amendment in EC dated 02.11.2007 w.r.t Amalgamation of Korumanipalli & Thollamadugu Limestone Mine (ML Area 205.212 ha) and Korumanipalli Limestone Mine (49.64 ha) of M/s. Penna Cement Industries Ltd, with combined production capacity of 2.30 MTPA over an amalgamated mine lease area of 254.856 ha, located at villages Korumanipalli & Thollamadugu, Mandal- Kolimigundla, District- Kurnool, Andhra Pradesh. The mine lease area is located between Latitude 14°58'42.488" N to 14°58'44.382" N and Longitude 78°06'01.789" E to 78°06'15.139" E. The mine lease area falls under the Survey of India Toposheet No: 56 J/1 and falls in Seismic Zone-II. The Project Proponent presented the KML file during the presentation to indicate the location of mine lease on Google Earth.

2. The Project Proponent has made an online application vide proposal no: IA/AP/MIN/276997/2022 dated 08.06.2022 and submitted Form-4 for amendment in EC under the provisions of EIA Notification, 2006. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals and falls under Category "A" as the mining lease area is greater than 250ha and appraised at the Central level.

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

Date of application	File. No/ Proposal No	Consideration	Details	Date of accord
Mine Lease Area: 49.64 ha				
11.08.2003	J-11015/ 138/2003- IA.II(M) IA/AP/MIN/ 21785/1910	-	Korumanipalli Limestone Mine involving a mine lease area of 49.64 ha for expansion in production of limestone at a rated capacity of 0.20 million TPA under the provisions of EIA Notification, 1994	27.08.2004
29.10.2018	SIA/AP/MIN/ 29197/2018	SEAC meeting held during 04 th December, 2019	Mining of Limestone in an area of 49.64 ha with the production capacity of 0.20 MTPA under the provisions of EIA Notification, 2006	07.01.2020
Mine Lease Area: 205.212 ha				
23.06.2004	J-11015/ 141/2003- IA.II(M) IA/AP/MIN/ 21278/1910	-	Korumanipalli Limestone Mine involving a mine lease area of 205.212 ha to produce limestone at a rated capacity of 0.13 MTPA under the provisions of EIA Notification, 1994	27.08.2004
23.06.2007	J-11015/ 654/2007- IA.II(M)	October 11-12, 2007	Korumanipalli Limestone Mine involving a mine lease area of 205.212 ha for expansion of limestone production from 0.13 MTPA to 2.10 MTPA under the provisions of EIA Notification, 2006	02.11.2007

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
Mine Lease Area: 49.64 ha						

Minutes of Meeting of 1st EAC (Non-Coal Mining) meeting held during 27th – 29th July, 2022

1	Grant of Mining lease vide G.O.Ms. No 202 in favour of Sri Gnana Sundara Rajan	22.04.1985	Limestone	19.09.1985 to 18.09.2005 (20 years)	Govt. of Andhra Pradesh	122.67 Acres or 49.64 ha
2	Transfer of Mining lease from Sri Gnana Sundara Rajan to M/s Penna Cement Industries Limited vide G.O.Ms. No 75	02.02.2000	Limestone	For the remaining period of the lease i.e., up to 18.09.2005.	Govt. of Andhra Pradesh	122.67 Acres or 49.64 ha
3	1 st Renewal of Mining lease for a further period of 20 years w.e.f. 19.09.2005 vide G.O Ms No 129	28.04.2006	Limestone	19.09.2005 to 18.09.2025	Govt. of Andhra Pradesh	122.67 Acres or 49.64 ha
4	Transfer of Mining lease held by M/s Penna Cement Industries Limited to M/s Penna Limestone Quarries Limited vide G.O Ms. No 36	07.03.2007	Limestone	For the un-expired portion of the lease period i.e., up to 18.09.2025.	Govt. of Andhra Pradesh	122.67 Acres or 49.64 ha
5	Change of Name from M/s Penna Limestone Quarries Limited to M/s Penna Cement Industries Limited vide Memo No.INC01-MG0MAJM/3/2021-M-III	12.02.2021	Limestone	For the un-expired portion of the lease period i.e., up to 18.09.2025.	Govt. of Andhra Pradesh	122.67 Acres or 49.64 ha
Mine Lease Area: 205.212 ha						
1	Grant of Mining lease vide G.O.Ms. No 242	19.08.2003	Limestone	29.01.2004 to 28.01.2024	Govt. of Andhra Pradesh	507.08 Acres or 205.212

	in favour of M/s Penna Cement Industries Limited			(20 years)		ha
Amalgamation of mining leases: 629.75 Acres or 254.856 ha						
1	Amalgamation of two mining leases held by M/s Penna Cement Industries Limited over an extent of 507.08 Acres and 122.67 Acres as one mining lease for a total extent of 629.75 Acres vide G.O Ms No: 18	16.03.2021	Limestone	Co-terminus with the mining lease period up to 18.09.2035 on which one ML of the two expires first, in terms of Rule 56 of Minerals (Other Than Atomic & Hydro Carbons Energy Minerals) Concession Rules, 2016 duly treating the lease period deemed to have been extended up to 18.09.2035 as per Section 8 (A) (5) of MM (D&R) Amendment Act, 2015	Govt. of Andhra Pradesh	629.75 Acres or 254.856 ha
2	Proceedings of the Asst. Director of Mines and Geology, Banaganapalle vide Proceedings No: 1196/M4/2007	24.03.2021	Limestone	For the Lease Period up to 18.09.2035	Govt. of Andhra Pradesh	629.75 Acres or 254.856 ha
3	Supplementary lease deed	24.03.2021	Limestone	For the Lease Period	Supplementary lease	629.75 Acres or

				up to 18.09.2035	deed made between the Govt. of Andhra Pradesh and M/s Penna Cement Industries Limited	254.856 ha
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5. Details of Mining Plan:

S.no	Particulars	Date of the grant	Name of the Mineral	Mine lease area, Ha	Validity	Land Use, Ha
1	Modified Mining Plan (Progressive Mine Closure Plan) approved by the Indian Bureau of Mines (IBM) vide Lr No F.No AP/KNL/MP/LST-148/HYD	08.06.2021	Limestone	254.856 ha	2021-22 to 2025-26	Govt. Waste land: 87.15 Ha & Pvt. Agricultural un irrigated land: 167.70 ha

6. Now, the Project Proponent requested to amalgamate both the EC's held by M/s Penna Cement Industries Limited vide EC dated 02.11.2007 over an area of 205.212 ha with Limestone production capacity of 2.10 MTPA and EC dated 07.01.2020 over an area of 49.64 ha with Limestone production capacity of 0.20 MTPA into single EC over an area of 254.856 ha with Limestone production capacity of 2.30 MTPA. PP also submitted that two mining leases are compact and contiguous and share the common boundary. Therefore, considering mineral conservation and environmental issues, principles of safe and scientific mining and to maintenance of statutory records, process of administration, etc., M/s Penna Cement Industries Limited amalgamated these two contiguous lease into a single mine lease over an area of 254.856 ha and the same has been accorded by Govt. of Andhra Pradesh vide G.O Ms No: 18 dated 16.03.2021. Further, PP submitted that the amalgamation simplifies and maintenance of environment parameters and facilitates complete extraction of limestone in between

these two lease boundaries, conservation plan and due to which State Government will get more revenue.

7. The Project Proponent submitted the authenticated past production details issued from the Office of the Asst. Director of Mines and Geology, Banaganapalle over an area of 205.212 Ha for the period from 2006-07 to 2020-21 and over an area of 49.64 Ha for the period from 2017-18 to 2019-20 and over an area of 254.856 Ha for the period 2021-22.

S. No	Mine Lease Area: 205.212 ha			S. No	Mine Lease Area: 49.64 ha		
	Year	Limestone Production (MTPA)	EC Capacity (MTPA)		Year	Limestone Production (MTPA)	EC Capacity (MTPA)
1	2006-07	0.03	2.10	1	2006-07	-	0.20
2	2007-08	1.64	2.10	2	2007-08	-	0.20
3	2008-09	1.63	2.10	3	2008-09	-	0.20
4	2009-10	1.67	2.10	4	2009-10	-	0.20
5	2010-11	1.45	2.10	5	2010-11	-	-
6	2011-12	1.15	2.10	6	2011-12	-	-
7	2012-13	1.23	2.10	7	2012-13	-	-
8	2013-14	1.14	2.10	8	2013-14	-	-
9	2014-15	0.97	2.10	9	2014-15	-	-
10	2015-16	0.94	2.10	10	2015-16	-	-
11	2016-17	0.86	2.10	11	2016-17	-	-
12	2017-18	0.42	2.10	12	2017-18	0.11	-
13	2018-19	0.62	2.10	13	2018-19	0.16	-
14	2019-20	0.44	2.10	14	2019-20	0.15	0.20
15	2020-21	0.47	2.10	15	2020-21	-	0.20

S. No	Mine Lease Area: 254.856 ha			
	Year	Limestone Production (MTPA)	EC Capacity (MTPA)	Excess Production (MTPA)
1	2021-22	0.77	2.30	-

8. The Project Proponent submitted the Certified Compliance Report issued by the Integrated Regional Office, Vijayawada vide Lr No File No. IRO/VIJ/EPA/MISC/111-01/2021 dated 29.11.2021 for the two EC's dated 02.11.2007 and 07.01.2020. The site was conducted on 08.09.2021.

9. Observation and Recommendation of the Committee:

The EAC noted that the instant proposal is for amendment in EC dated 02.11.2007 w.r.t Amalgamation of Korumanipalli & Thollamadugu Limestone Mine (ML Area 205.212 ha) and Korumanipalli Limestone Mine (49.64 ha) of M/s. Penna Cement Industries Ltd with combined production capacity of 2.30 MTPA over an amalgamated mine lease area of 254.856 ha.

The EAC observed that the Project Proponent amalgamated the mine lease on 16.03.2021 and continued to operate the mines after 16.03.2021 without obtaining amendment in EC. The Project Proponent informed the EAC, that they are having valid EC's dated 02.11.2007 (ML Area 205.212 ha) and 07.01.2020 (49.64 ha) for the above said mine leases and there is no any violation has been done by the Project Proponent. The Project Proponent also informed that the no mining has been done in ML-2 after amalgamation of mine lease. Further, the EAC observed that the Project Proponent initially obtained EC on 27.08.2004 and whereas the Project Proponent submitted the authenticated past production details from the year 2006-07 to 2020-21 (ML-205.212 ha) and 2017-18 to 2019-20 (ML-49.64 ha). The EAC was of the view that the Project Proponent needs to submit the letter from the Department of Geology and Mining in this regard to ascertain the violation.

The EAC noted that the Project Proponent submitted the Certified Compliance Report issued by the Integrated Regional Office (IRO), Vijayawada vide Lr No File No. IRO/VIJ/EPA/MISC/111-01/2021 dated 29.11.2021 for the two EC's dated 02.11.2007 and 07.01.2020 and the site was conducted by IRO on 08.09.2021. The EAC also noted that during the site visit the IRO sought information/action plans have been sought on following points (i). It is required to study the land-use pattern of the nearby villages and action plan for abatement and compensation for damages to agricultural land / common property land (if any) due to mining activity should be submitted to Ministry as well as Integrated Regional Office, Vijayawada at the earliest, (ii). It is required to develop water bodies and utilized to develop pisciculture by organizing fishermen cooperative society with the land losers (if any) and specially the poorer section as members of such society with initial financial and managerial assistance provided in the form of share money so that the members themselves can run the affairs of the society in due course. The project proponent shall arrange marketing tie up so that the society gets fair price of their product and the profits are equitably shared by the members of the society as regular source of income and (iii). It is required to submit the details regarding date of financial closure and final approval of the project by the concerned authorities and the date of start of land development work to Integrated Regional Office, Vijayawada. Further, the EAC observed that the Project Proponent has not submitted the action taken report and final closure report issued by the IRO.

The EAC also noted that the Project Proponent has not submitted the environmental impacts due to amalgamation of the two mining leases. Therefore, the EAC **deferred** the proposal for want of the following additional information: -

- i. The Project Proponent needs to submit the environmental impacts arising due to amalgamation of the two mining leases.

- ii. The Project Proponent needs to submit the final closure report issued by the Integrated Regional Office (IRO) for the non-compliances identified by IRO during the site visit conducted on 08.09.2021.
- iii. During the EAC meeting, the EAC observed that the Project Proponent amalgamated the mine lease on 16.03.2021 and continued to operate the mines after 16.03.2021 without obtaining amendment in Environmental Clearance (EC). Further, the EAC observed that the Project Proponent initially obtained EC on 27.08.2004 and whereas the Project Proponent submitted the authenticated past production details from the year 2006-07 to 2020-21 (ML-205.212 ha) and 2017-18 to 2019-20 (ML-49.64 ha). Hence, the Project Proponent needs to submit the letter from the Department of Geology and Mining (DMG) in this regard for examination of violation in the Ministry. Further, PP shall submit the letter from the DMG stating that no mining has been done in ML-2 after amalgamation of mine lease as informed during the meeting.

2.2 Amendment in EC dated 12.07.2021 of M/s Odisha Mining Corporation Ltd for enhancement of production capacity of 3.0 MTPA to 6.0 MTPA at Dairi Iron mine from 95.60 ha (already diverted forest land) out of mine lease area 1018.3085 ha at Keonjhar and Jaipur District, Odisha – [F. No: 23-236/2018-IA.III(V), Proposal No: IA/OR/MIN/282235/2022] - Amendment in Environment Clearance – reg.

The instant proposal is for amendment in EC dated 12.07.2021 in specific condition (xi) which *inter-alia* states that: “Production of Iron Ore at the rate of 6.0 MTPA from the already diverted forest land (95.6 ha), subject to the permission from Indian Bureau of Mines for the period of one year from the date of EC granted”. The mine lease area is located between Latitude 21°5’33.09701” N to 21°7’08.80495” N and Longitude 85°46’01.89311” E to 85°49’17.01804” E. The mine lease area falls under the Survey of India Toposheet No: 73 G/16 and falls in Seismic Zone-II.

2. The Project Proponent has made an online application vide proposal no: IA/OR/MIN/282235/2022 dated 13.07.2022 and submitted Form-4 for amendment in EC under the provisions of EIA Notification, 2006. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals and falls under Category “A” as the mining lease area is greater than 250ha and appraised at the Central level.

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

Date of application	File. No/ Proposal No	Consideration	Details	Date of accord
27.04.2010	J-11015/ 1003/2007- IA.II(M)	-	An annual production capacity of 3,000,000 tonnes (3.0 million tonnes) of iron ore by the opencast	22.09.2010

	IA/OR/MIN/ 7061/2007		mechanized method involving total mine lease area of 1812.99 ha	
08.04.2016	J-11015/ 1003/2007- IA.II(M) IA/OR/MIN/ 7061/2007	April 25-26, 2016 & May 23-24, 2016	Amendment in EC <i>w.r.t.</i> "grant of temporary permission of two years for completing the installation of conveyor belts and rail heads in the Daitari Iron ore mining project".	31.03.2017
22.04.2017	J-11015/ 1003/2007- IA.II(M)	-	Corrigendum in EC - "It is reiterated that grant of temporary permission for transportation of Iron Ore by road is for two years only w.e.f 31.03.2017 and during this period, PP shall complete the installation of conveyors belt and rail heads in the Daitari Iron Ore mining project.	16.05.2017
08.12.2020	23-236/ 2018- IA.III(V) IA/OR/MIN/ 186262/2018	31 st December, 2020 & 18 th -19 th February, 2021	Enhancement of production capacity of 3.0 MTPA to 6.0 MTPA at Daitri Iron mine from 95.60 ha (already diverted forest land) out of mine lease area 1018.3085 ha at Keonjhar and Jaipur District, Odisha	12.07.2021

4. Now, the Project proponent has requested to amendment in EC to allow iron ore production @ 6.0 MTPA from 95.60 ha (already diverted forest land) for a further period of two years i.e., upto 12.07.2024 since the said production capacity of 6.0 MTPA could not be achieved due to COVID-19. Project Proponent submitted the past production details authenticated by the Deputy Director of Mines, Jajpur Road Circle vide letter dated 04.07.2022 for the period July 2021 to June, 2022. As per the past production details submitted by the Project Proponent, it was observed that the Project Proponent produced the iron ore of 2.85 MTPA (ROM) during the period 2021-22 (July, 2021-March, 2022) and 1.73 MTPA (ROM) during the period 2022-23 (April, 2022-June, 2022).

5. The Project Proponent submitted that the Modified Mining Plan along with Progressive Mine Closure Plan (PMCP) has been approved by Indian Bureau of Mines for an area of 1018.3085 ha vide letter no. RMP/A/46-ORI/BHU/2019-20/2353 dated 21.02.2020 which is valid upto 31.03.2025.

6. The Project Proponent reported that the total mine lease area is 1018.3085 ha out of which forest land is 846.3995 ha and non-forest land is 171.909 ha. The Project Proponent obtained Stage-II FC over an area of 95.60 ha vide MoEF letter no. 8-164/97-FC dated 27th January 2005. Stage-I FC for 106.016 ha (Daitari Conveyor Corridor proposal) has been accorded by MoEF&CC (which includes 4.467 ha of Daitari ML area) vide no 8-27/2017-FC dated 27.09.2017. Stage-I FC for balance 746.3325 ha forest land involved in the project is under process vide Proposal no. FP/OR/MIN/9112/2015. Project Proponent has also submitted that Stage-I FC for the balance forest area over an area of 746.3325 ha is pending due to the Indian Council of Forestry Research and Education (ICFRE) report on carrying capacity. The draft report submitted by ICFRE vide letter dated 23.03.2022 is under scrutiny by State Government. Further, Project Proponent submitted that after submission of final report by ICFRE, Dehradun and recommendation by State Govt., the proposal will be further considered for grant of Stage-I FC.

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

The EAC noted that the instant proposal is for amendment in EC dated 12.07.2021 in specific condition (xi) which *inter-alia* states that: *“Production of Iron Ore at the rate of 6.0 MTPA from the already diverted forest land (95.6 ha), subject to the permission from Indian Bureau of Mines for the period of one year from the date of EC granted”*.

The EAC noted the past production details submitted by the Project Proponent and observed that the Project Proponent produced the iron ore of 2.85 MTPA (ROM) during the period 2021-22 (July, 2021- March, 2022) and 1.73 MTPA (ROM) during the period 2022-23 (April, 2022-June, 2022). The Project Proponent informed the EAC that the said production capacity of 6.0 MTPA could not be achieved due to COVID-19.

The EAC observed that the total mine lease area is 1018.3085 ha out of which forest land is 846.3995 ha and non-forest land is 171.909 ha and the Project Proponent obtained Stage-II FC over an area of 95.60 ha vide letter dated 27th January 2005. The EAC also observed that the Stage-I FC for the remaining area of 746.3325 ha of forest land involved in the project is still under process.

Based on the above discussions held, the EAC **recommended** the proposal for amendment in EC dated 12.07.2021 of M/s Odisha Mining Corporation Ltd for production of Iron Ore at the rate of 6.0 MTPA from the already diverted forest land (95.6 ha) out of mine lease area 1018.3085 ha, located at Keonjhar and Jaipur District, Odisha for further period of one year subject to submission of revised approved mining plan over an area of 95.6 ha out of mine lease area of 1018.3085 ha along with the following additional specific conditions : -

- i. The EC shall be functional only after submission of revised approved mining plan for restricted mine lease area of 95.60 ha out of 1018.3085 ha.
- ii. The Project Proponent shall submit the action taken report and the amount spent towards the Ecological Damage Assessment, Natural Resource Augmentation Plan (NRAP), Community Resource Augmentation Plan (CRAP) to the Ministry's Integrated Regional Office.
- iii. Further extension shall only be considered based on Certified Compliance Report issued by IRO for the EC dated 12.07.2021
- iv. All other terms and conditions mentioned in the EC letter dated 12.07.2021 shall remain unchanged.

2.3 South Kaliapani mine of M/s Odisha Mining Corporation Ltd for mining of Chromite Ore without change in production capacity of 1.40 MTPA of Chromite Ore [Total Excavation: 16.64 MTPA (Production: 1.40 MTPA (ROM) + Waste Rock: 15.24 MTPA)] with increase in mine lease area from 552.457 ha to 720.727 ha along with an annual throughput capacity of 4,74,000 tonnes (0.47 million tonnes) of COB plant, located at Villages Kaliapani, Gurujangpal, Sukurangi and Saruabi, Tehsil Sukinda, District Jajpur, Odisha - [F. No: J-11015/407/2008-IA.II(M), Proposal No: IA/OR/MIN/279986/2022; Consultant: MECON Limited] - Terms of Reference (ToR)

The instant proposal is for mining of Chromite Ore in South Kaliapani mine of M/s Odisha Mining Corporation Ltd without change in production capacity of 1.40 MTPA of Chromite Ore [Total Excavation: 16.64 MTPA (Production: 1.40 MTPA (ROM) + Waste Rock: 15.24 MTPA)] with increase in mine lease area from 552.457 ha to 720.727 ha along with an annual throughput capacity of 4,74,000 tonnes (0.47 million tonnes) of COB plant, located at Villages Kaliapani, Gurujangpal, Sukurangi and Saruabi, Tehsil Sukinda, District Jajpur, Odisha. The mine lease area is located between Latitude 21°00'49.64076"N to 21°03'25.10625"N and Longitude: 85°46'25.96764"E to 85°48'28.53433"E. The mine lease area falls under the Survey of India Toposheet No: F45N16 and falls in Seismic Zone - II. The Project Proponent presented the KML file during the presentation to indicate the location of mine lease on Google Earth.

2. The Project Proponent has made an online application vide proposal no: IA/OR/MIN/279986/2022 dated 25.06.2022 and submitted Form-1 and Prefeasibility report under the provisions of EIA Notification, 2006. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals & 2(b) Mineral beneficiation and falls under Category "A" as the mining lease area is greater than 250ha and appraised at the Central level.

3. The details of the project as ascertained from the document submitted by the Project Proponent are mentioned below:

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

Date of application	File. No/ Proposal No	Consideration	Details	Date of accord
31.10.2009	J-11015/ 407/2008- IA.II(M) IA/OR/MIN/ 8899/2007	-	Environmental Clearance of for an annual production capacity of 14,00,000 tonnes (1.4 million tonnes) of chromite ore by the opencast semi-mechanized method involving total mining lease area of 552.457 ha along with an annual throughput capacity of 4,74,000 tonnes (0.47 million tonnes) of COB plant.	20.07.2010
31.08.2015	J-11015/ 407/2008- IA.II(M) IA/OR/MIN/ 8899/2007	September 22- 24, 2015 July 21-22, 2016	Amendment in EC dated 20.07.2020 w.r.t shifting the tailing pond area with the additional condition that the Project Proponent will take sufficient precautions and safety measures around the Tailing pond.	06.07.2021

ii. Details of Mine lease:

- a) The Project Proponent submitted that the initially mine lease deed was executed on 22.01.1980 between the Governor of Orissa and M/s Orissa Mining Corporation Ltd for a period of 20 years for the period up to 21.01.2000. Then, the Project Proponent submitted the application for renewal of mine lease before the expiry of the mine lease period and the lease was under deemed renewal stage.
- b) The Govt. of Odisha vide Order No: 2749/SM dated 26.03.2015 have extended the validity period of the lease from 22.01.2000 to 31.03.2020. Then, the Project Proponent executed the supplementary lease deed for the extended period and registered vide e-Registration ID No. 1871500004 and e-Registration document No. 11871500004 dated 06.10.2015.
- c) Further, Project Proponent submitted that the Govt. of Odisha have extended the validity period of the lease for a period of 50 years from the original period of

lease i.e., from 22.01.1980 to 21.01.2030. Accordingly, the Project Proponent executed the supplementary lease deed on 12.08.2016 between the Governor of Odisha and M/s Odisha Mining Corporation Ltd for the period upto 21.01.2030.

- d) Thereafter, the Govt. of Odisha vide Lr No. 10647/III(Cr)SM-03/2013/SM, Bhubaneswar dated 14.12.2021 granted the mining lease over an area of 168.948 ha of non-mineralised land in favour of M/s Odisha Mining Corporation Ltd to be included in its South Kaliapani Chromite Mining lease with existing area of 552.457 ha for a period co-terminus with the validity of the South Kaliapani Chromite Mining lease for the specific use for dumping of overburden dumps (OB) from its existing chromite mines at South Kaliapani and Sukrangi mining lease in Jajpur District.
- e) The Project Proponent also submitted the surface right obtained over an area of 721.25 acres vide letter dated 19.08.1985.

iii. Mining plan details:

Modification of Review of Mining Plan along with the Progressive Mine Closure Plan approved by Indian Bureau of Mines (IBM)	Letter No.	BBS/JJP/CR/2015/MPM/2022-23	
	Date	12.05.2022	
	Mine Lease area, Ha	720.727 Ha	
	Mineral	Chromite	
	Validity	2022-23 to 2024-25	
Mining Parameters	Quantitative Description		
Method of Mining	Open Cast Mechanized Mining		
Total Mineral Reserves + Resources	116,21,334 Tonnes		
Life of mine	9 years		
Bench Height	6 m		
Bench Width	11 m		
Individual bench slope	70 ⁰ -80 ⁰		
Overall pit slope	18-29 ⁰		
Drilling/Blasting	HEMM with deep hole drilling & blasting with combination of loaders and tippers.		
RoM output size	Type of crusher	Product size in mm	
	Hammer Mill (New COBP)	-18	
	Rock Breaker (New COBP)	-300	
	Hammer Mill (Old COBP)	-18	
	Mobile Jaw/Cone Crushing & Screening Plant	-100	
Transportation details	By trucks to nearby railway siding(s) at buyers' discretion		
Dumpers capacity	30-45 T		
Mineral Beneficiation	Crushing & screening. Wet beneficiation of		

	beneficiable ore
Waste Generation	PP reported that it has been estimated that approximately 76.9 million cu.m of overburden will be generated till the end of conceptual period. 1.672 million tonnes of sub grade material will be generated up to the conceptual stage.
Waste Disposal	PP submitted that initially the wastes will be dumped. These dumps will be compacted and afforested on the terraces as well as along the slopes after spreading a layer of top soil over it before rehabilitation.
Present Proposal	PP submitted that the proposed project is only for increase in mine lease area. No increase in production capacity or change in mining technology or increase in beneficiation capacity or change in beneficiation technology are proposed in the present proposal.

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

Forest Land	594.346 ha
Private land	8.009 ha
Government land	119.050 ha
Total Mining lease area (MLA)	720.727 ha as per DGPS/ 721.405 ha as per ML grant orders (including 168.948 Ha of additional granted area)
Private land for crusher, workshop & other infrastructure outside the MLA	NA

v. Water requirement

Total water requirement	Potable: 120 m ³ /day	Fresh water	120 m ³ /day
	Industrial: 2200 m ³ /day	Treated water	2200 m ³ /day
Source	Industrial: Recycled effluents/mine discharge water Potable: Bore-wells		
Permission	PP submitted that the NOC obtained from CGWA vide letter No. CGWA/NOC/MIN/REN/1/2021/6334, dated 26.10.2019 for groundwater abstraction of fresh water of 120.0 m ³ /day which was valid up to 25.10.2021.		
Additional information (if any)	PP also submitted that no fresh water is utilized for Industrial purpose.		

vi. Nearest village / town/ highway/railway station / water bodies/monument

Particulars	Particular's Name	Distance & Direction
Nearest Town	Sukinda	~13.5 km (SE)
Nearest railway station	Baghupal on Padapahar Jn.	~21.5 km (E)

Nearest Highway	Daitari- Paradeep Express Highway	~10 km (NE)
Water Bodies	a. Damsal Nala b. Talangi Nala c. Nadibarana Nala d. Pandaral Nala	0.12 km (N) 2.4 km (NE) 4.8 km (W) 7.7 km (S)

vii. The Project Proponent reported that the total mine lease area is 720.727 ha out of which Forest land is 594.346 ha, Private land is 8.009 ha and Govt. land is 119.050 ha. PP submitted that the Stage-II Forest Clearance over the forest area of 425.398 ha within the original mining lease area of 552.457 ha, have been obtained from MoE&F vide F No. 8-15/2000-FC dated 08.06.2001 for diversion of 146.047 ha of already broken up forest land and MoE&FCC vide file No. 8-15/2000-FC (Vol.) dated 25.02.2016 for diversion of 279.351 ha of forest land including 2.790 ha for safety zone in addition to 146.047 ha of forest land already diverted within total mining lease area of 552.457 ha. Further, PP submitted that the Stage-I Forest Clearance granted by MoEFCC vide F No. 8-19/2019- FC dated 15.10.2019 for diversion of 168.948 ha of forest land adjacent to South Kaliapani Mines of OMC for dumping of overburden of South Kaliapani and Sukurangi Chromite Mine. PP reported that there are no National parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, and Tiger/Elephant Reserves (existing as well as proposed) within 10 km of the mine lease area. Also, there is no archeological site, defense installation and airports within 10 km of the periphery of the lease area. The area does not fall in seismically active or landslide prone zone. PP submitted the Approval of Site Specific Wildlife Conservation Plan of South Kaliapani Chromite mines approved by the Chief Conservator of Forests (WL) vide Memo no. 5911/1 WL(C) SSP-351/2012 dated 20.07.2013 with a financial forecast of Rs 2,01,14,080 (Rupees Two Crore One Lakh Fourteen Thousand Eighty Only).

viii. Green belt/plantation details:

Proposed area for green belt/ plantation	Sl. No	Year	Green Belt Location (s)	Area Proposed to be Covered (Ha)	Number of Plants Proposed	Expected Survival Rate (%)	Estimated Expenditure (INR)
		1	2022-2023	Existing Dump	3.7	9,250	>85%
	2	2023-2024	Existing Dump	6.0	15,000	>85%	3225000
	3	2024-2025	Existing Dump	6.0	15,000	>85%	3375000

Additional information (if any)	Cumulative work done				
	Sr. No	Total Expenditure Incurred up to Last Year (INR)	Area Covered (Ha)	Number of Plants	Survival Rate (%)
	01.	4,03,52,797	58.52	124659*	85%
	*The total costing has been for 1,24,659 plantations which includes 16000 nos of Vertiver, Lemon, Palmarosa and Napier grass.				
Particulars for Green belt/plantation				Area covered (in Ha)	
7.5 m barrier & non-mineralized zone				5.578	
50 m safety zone of nallah, roads, electric lines				-	
500 m safety zones of nearest habitation villages				-	

ix. Previous EC compliance and production details:

Particulars	Granted by, Letter no. and date																																						
Consent to Establish (CTE)	PP submitted the Consent to Establish (CTE) issued by the State Pollution Control Board, Orissa vide letter no: 16706/IND-II-NOC-4702 on dated 06.10.2010 for increase in production of chromite ore (ROM) of quantity up to 14,23,500 Ton/Annum and capacity of existing COB Plant from 1.8 Lakh Ton/Annum to 3.24 Lakh Ton/Annum with additional 1.5 Lakh Ton/Annum new COB Plant (over mine lease hold area of 552.457 ha).																																						
Consent to Operate (CTO)	PP submitted the Consent to Operate (CTO) issued by the State Pollution Control Board, Odisha vide letter no 3844/IND-I-CON-253(A) with Consent Order No - 368 dated 27.03.2020 for production of 1.4 MTPA of Chrome ore and COB Plant of throughput capacity of 0.47 MTPA and is valid up to 31.03.2025.																																						
Certified past production	PP submitted the production details authenticated from the Office of Deputy Director of Mines; Jajpur Road Circle vide Lr No 815/Mines dated 27.05.2022 from the year 1992-93 to 2021-22.																																						
	<table border="1"> <thead> <tr> <th>S. No</th> <th>Year</th> <th>Production (MTPA)</th> <th>EC Capacity (MTPA)</th> <th>Excess Production (MTPA)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>1992-93</td> <td>0.20</td> <td>-</td> <td rowspan="8">Exceeded the base year production of 1993-94</td> </tr> <tr> <td>2</td> <td>1993-94</td> <td>0.20</td> <td>-</td> </tr> <tr> <td>3</td> <td>1994-95</td> <td>0.21</td> <td>-</td> </tr> <tr> <td>4</td> <td>1995-96</td> <td>0.47</td> <td>-</td> </tr> <tr> <td>5</td> <td>1996-97</td> <td>0.34</td> <td>-</td> </tr> <tr> <td>6</td> <td>1997-98</td> <td>0.37</td> <td>-</td> </tr> <tr> <td>7</td> <td>1998-99</td> <td>0.38</td> <td>-</td> </tr> <tr> <td>8</td> <td>1999-</td> <td>0.51</td> <td>-</td> </tr> </tbody> </table>	S. No	Year	Production (MTPA)	EC Capacity (MTPA)	Excess Production (MTPA)	1	1992-93	0.20	-	Exceeded the base year production of 1993-94	2	1993-94	0.20	-	3	1994-95	0.21	-	4	1995-96	0.47	-	5	1996-97	0.34	-	6	1997-98	0.37	-	7	1998-99	0.38	-	8	1999-	0.51	-
	S. No	Year	Production (MTPA)	EC Capacity (MTPA)	Excess Production (MTPA)																																		
	1	1992-93	0.20	-	Exceeded the base year production of 1993-94																																		
	2	1993-94	0.20	-																																			
	3	1994-95	0.21	-																																			
	4	1995-96	0.47	-																																			
	5	1996-97	0.34	-																																			
	6	1997-98	0.37	-																																			
7	1998-99	0.38	-																																				
8	1999-	0.51	-																																				

	2000				
	9	2000-01	0.24	0.20	0.04
	10	2001-02	0.75	0.20	0.54
	11	2002-03	0.67	0.20	0.46
	12	2003-04	0.71	0.20	0.50
	13	2004-05	0.65	0.20	0.44
	14	2005-06	0.61	0.20	0.41
	15	2006-07	1.20	0.20	0.99
	16	2007-08	1.15	0.20	0.94
	17	2008-09	0.90	0.20	0.69
	18	2009-10	0.49	0.20	0.29
	19	2010-11	1.10	0.99	0.02
	20	2011-12	0.41	1.40	-
	21	2012-13	0.52	1.40	-
	22	2013-14	0.48	1.40	-
	23	2014-15	0.65	1.40	-
	24	2015-16	0.83	1.40	-
	25	2016-17	1.00	1.40	-
	26	2017-18	0.75	1.40	-
	27	2018-19	10.5	1.40	-
	28	2019-20	0.71	1.40	-
	29	2020-21	0.96	1.40	-
	30	2021-22	0.99	1.40	-
Compliance of the Hon'ble Supreme Court Order dated 02.08.2017 in the matter of W.P.(C) No.114/14 Common cause vs Union of India and Others	<p>PP submitted that in pursuant to the Hon'ble Supreme Court Order dated 02.08.2017 in the matter of W.P.(C) No.114/14 Common cause vs Union of India and Others, it was deemed that during the period 2001-02 to 2010-11, the mine had produced a total of 5384427.613 tonnes of chromite without EC.</p> <p>PP also submitted that the Demand Notice was issued by the Office of Deputy Director of Mines, Jajpur Road Circle, Jajpur Road, vide notice no. 543/Mines dated 10.04.2018 for depositing Rs.1662,85,42,189/- (Rupees One thousand six hundred sixty-two crore eighty-five lakh forty two thousand one hundred eighty nine). PP submitted that the above said demand was on 15.03.2022.</p> <p>Further, PP submitted the undertaking by way of affidavit as per the Ministry's OM dated 30.05.2018 in a non-judicial stamp paper of Rs 100 bearing K 141113 dated 09.08.2018 stating that M/s OMC 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.</p>				

- x. The Project Proponent submitted that the mine is already in operation. The additional land allocated is a forest land. The proposed project does not envisage any leasing and / or acquisition of additional private land, hence no rehabilitation & resettlement is involved in this project.
- xi. The Project Proponent submitted that there is one court case pending in the JMFC Court, Barbil, Odisha vide case. No 2(C)C.C.No.11114 and the matter is subjudice.
- xii. Details of project cost and employment:

Particulars	(Rs. In Crore)
Project Cost	Rs. 500 Crores
Employment	608 Persons

4. Observation and Recommendation of the Committee:

The EAC noted that the instant proposal is for grant of Terms of Reference (ToR) for increase in mine lease area from 552.457 ha to 720.727 ha without change in production capacity of 1.40 MTPA of Chromite Ore [Total Excavation: 16.64 MTPA (Production: 1.40 MTPA (ROM) + Waste Rock: 15.24 MTPA)] along with an annual throughput capacity of 4,74,000 tonnes (0.47 million tonnes) of COB plant.

The EAC also noted that the Project Proponent obtained letter from the Govt. of Odisha vide Lr No. 10647/III(Cr)SM-03/2013/SM, Bhubaneswar dated 14.12.2021 for grant of mining lease over an area of 168.948 ha of non-mineralised land in favour of M/s Odisha Mining Corporation Ltd to be included in its South Kaliapani Chromite Mining lease with existing area of 552.457 ha for a period co-terminus with the validity of the South Kaliapani Chromite Mining lease for the specific use for dumping of overburden dumps (OB) from its existing chromite mines at South Kaliapani and Sukrangi mining lease in Jajpur District.

The EAC was of the view that as per Hon'ble Supreme Court order in the Writ Petition (Civil) No. 435 of 2012 in the matter of Goa Foundation vs UoI & Ors, at Para-29: *“a holder of mining lease does not have any right to dump any reject, tailings or waste in any area outside the leased area of the mining lease on the strength of mining lease granted under the MMDRA Act and the Rules made thereunder. Such area outside the leased area of the mining lease may belong to the State or may belong to any private person, but if the mining lease does not confer any right whatsoever on the holder of a mining lease to dump any mining waste outside the leased area, he will have no legal right whatsoever to remove his dump, overburden, tailings or rejects and keep the same in such area outside the leased area. In other words, dumping of any waste*

materials, tailing and rejects outside the leased area would be without a valid authorization under the lease deed".

Further, the EAC observed that the entire area of 168.948 ha acquired for dumping of overburden dumps (OB) falls in the forest land and also the Project Proponent will utilize the dumping of overburden dumps (OB) from its existing chromite mines at South Kaliapani (instant mine lease area) and Sukrangi mining lease (another mine) in Jajpur District. The EAC was of the view that by dumping of overburden dumps (OB) chromium either through rainwater or through leachate may pollute the ground water table. Thus the EAC opined that the Project Proponent should find out the alternate place for dumping over burden. Therefore, the EAC **deferred** the proposal for the want of following additional information: -

- i. The Project Proponent needs to explore the alternate location of non-forest land for dumping the over burden.
- ii. The Project Proponent shall carryout a geology study within the pit/mine lease area and based on the study Project Proponent needs to explore the feasibility for dumping of overburden dumps (OB) within the pit/mine lease area.
- iii. The Project Proponent needs to submit the measures taken for treatment and discharge of water in Damsal Nala (0.12 km, N).
- iv. The Project Proponent needs to submit the test report on physical and chemical characteristics of tailing pond.
- v. The Project Proponent needs to submit the production details authenticated by Department of Mines and Geology for chrome ore beneficiation plant.
- vi. The Project Proponent needs to submit the copy of the demand raised from the Office of Deputy Director of Mines, Jajpur Road Circle, Jajpur Road, vide letter dated 10.04.2018 in pursuant to the Hon'ble Supreme Court judgement dated 02.08.2017 in the matter of W.P.(C) No.114/14 Common cause vs Union of India and Others. Project Proponent also needs to submit the payment of proof deposited on 15.03.2022.

2.4 Proposal for amendment in TOR dated 13.06.2022 for M/s Sagar Cements Ltd for mining of Limestone for increase in Limestone production from 3.3 MTPA to 5.40 MTPA with increase of Total Excavation from 3.398 MTPA to 5.550 MTPA [Cement grade LS-5.100 MTPA + Sub Grade LS (Blendable) 0.30 MTPA + Topsoil-0.15 MTPA] along with 1 x 1000 TPH crusher in the mine lease area of 326.58 ha, located at Pedaveedu and Mattampally Village of Mattampally Mandal, Suryapet

District, Telangana - [F.No: J-11015/53/2003-1A-II(M), Proposal No: IA/TG/MIN/278456/2022; Consultant: B. S. Envi-Tech Pvt. Ltd] - Amendment in TOR

The instant proposal is for amendment in ToR dated 13.06.2022 for M/s Sagar Cements Ltd for increase of limestone production from 3.3 MTPA to 5.40 MTPA with increase of Total Excavation from 3.398 MTPA to 5.550 MTPA [Cement grade LS-5.100 MTPA + Sub Grade LS (Blendable) 0.30 MTPA + Topsoil- 0.15 MTPA] along with 1 x 1000 TPH crusher in the mine lease area of 326.58 ha, located at Pedaveedu and Mattampally Village of Mattampally Mandal, Suryapet District, Telangana. The mine lease area is located between Latitude A (16°44'21.00"N - 16°46'14.30"N) & B (16°44'48.40"N - 16°44'59.90"N) and Longitude A (79°51'13.00"E - 79°52'23.30"E) B (79°50'19.60"E - 79°51'3.80"E). The mine lease area falls under the Survey of India Toposheet No: 56/P/13 & 14 and falls in Seismic Zone- II. The Project Proponent presented the KML file during the presentation to indicate the location of mine lease on Google Earth.

2. The Project Proponent has made an online application vide proposal no: IA/TG/MIN/278456/2022 dated 16.06.2022 and submitted Form-3 for amendment in ToR under the provisions of EIA Notification, 2006. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals and falls under Category "A" as the mining lease area is greater than 250ha and appraised at the Central level.

3. The Project Proponent obtained Terms of Reference vide letter dated 13.06.2022 under Ministry's SOP for identification and handling of violation cases under EIA Notification, 2006 dated 07.07.2021 for mining of Limestone with production capacity of 3.3 MTPA with Total Excavation 3.398 MTPA [Cement grade LS - 3.135 MTPA + Sub Grade LS (Blendable) 0.165 MTPA + Topsoil- 0.098 MTPA] along with 1 x 1000 TPH crusher in the mine lease area of 326.58 ha.

4. The Ministry vide letter dated 13.06.2022 requested the Secretary, Department of Environment, Forests, Science and Technology, Telangana to initiate action under the provisions of section 19 of the Environment (Protection) Act, 1986 against the Project Proponent and the details of the action taken against the Project Proponent may be intimated to the Ministry to take further necessary action.

5. Now, the Project Proponent requested for amendment in ToR dated 13.06.2022 stating that the M/s Sagar Cements Ltd proposing to go for expansion of the Clinker production, which requires additional quantity of Limestone. Hence, the Project Proponent now proposes to increase limestone production from 3.3 MTPA to 5.40 MTPA with increase of total Excavation from 3.398 MTPA to 5.550 MTPA [Cement grade LS - 5.100 MTPA Sub Grade LS (Blendable) 0.30 MTPA + Topsoil- 0.15 MTPA].

Accordingly, the Project Proponent requested for amendment in ToR dated 13.06.2022 as mentioned below:

S. No	Reference of Terms of Reference (ToR) dated 13.06.2022	As per Terms of Reference (ToR) dated 13.06.2022	Amendment sought by the Project Proponent	Remarks submitted by the Project Proponent
1	Subject, Line 2, Page No: 1, Point No: 1, Line 2, Page No: 1, Point No: 20, Line 14, Page No: 8 Point No: 21, Line 8, Page No: 8	Limestone with production capacity of 3.3 MTPA	Limestone with production capacity of 5.40 MTPA	Increase in production capacity
2	Subject, Line 2, Page No: 1, Point No: 1, Line 3, Page No: 1, Point No: 20, Line 15, Page No: 8 Point No: 21, Line 8, Page No: 8	Total Excavation 3.398 MTPA (Cement grade LS-3.135 MTPA + Sub Grade LS (Blendable) - 0.165 MTPA + Top Soil - 0.098 MTPA)	Total Excavation 5.550 MTPA [Limestone - 5.100 MTPA + Sub Grade LS (Blendable) 0.30 MTPA + Topsoil- 0.15 MTPA]	Increase in total excavation
3	Point No: 10, Clause 5, Page No: 5	Life of mine: 27 years	Life of mine: 16 years	Decrease in life of mine
4	Point No: 11, Clause 1, Page No: 6	Total water requirement: 100 m³/day	Total water requirement: 180 m³/day	Source: Existing Mine pits
5	Point No: 19, Clause 1, Page No: 8	Project Cost: Rs 0.5 Crore	Project Cost: Rs 7.5 Crores	Additional Cost for expansion

6	Point No: 19, Clause 2, Page No: 8	Employment: 82 Persons	Employment: 100 Persons	Additional Man Power
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6. Observation and Recommendation of the Committee:

The EAC noted that the instant proposal is for amendment in ToR dated 13.06.2022 for increase of limestone production from 3.3 MTPA to 5.40 MTPA with increase of Total Excavation from 3.398 MTPA to 5.550 MTPA [Cement grade LS-5.100 MTPA + Sub Grade LS (Blendable) 0.30 MTPA + Topsoil- 0.15 MTPA] along with 1 x 1000 TPH crusher in the mine lease area of 326.58 ha.

The EAC also noted that the Project Proponent is transporting the Limestone from the mine pit to the crusher by 60 tons tippers dumpers and then to the cement plant (through closed conveyor of 1km length) for its captive use. The EAC was of the view that since the Project Proponent is increasing the production from 3.3 MTPA to 5.40 MTPA, the rate of emissions will be higher and thus the EAC opined that the Project Proponent should the avoid dumper movement from the mine pit to the crusher. The EAC advised the Project Proponent to bring out the action plan for deploying in-pit crusher and conveyor along with the timeline and budget. The EAC also asked the Project Proponent to submit the comparison of list of equipment's/machineries with their particulars w.r.t earlier production and expansion proposal.

Based on the above discussions held, the EAC **recommended** the proposal for amendment in ToR as sought in para 5 for M/s Sagar Cements Ltd with limestone production capacity of 5.40 MTPA with Total Excavation of 5.550 MTPA [Cement grade LS-5.100 MTPA + Sub Grade LS (Blendable) 0.30 MTPA + Topsoil- 0.15 MTPA] along with 1 x 1000 TPH crusher in the mine lease area of 326.58 ha, located at Pedaveedu and Mattampally Village of Mattampally Mandal, Suryapet District, Telangana along with the following additional specific conditions: -

- i. The Project Proponent needs to submit the action plan for deploying in-pit crusher and conveyor along with the timeline for implementation and budget.
- ii. The Project Proponent needs to submit the water management plan and its action plan for utilization of creation of water body of 211.25 ha for benefit of the agriculture, local people and community use.
- iii. The Project Proponent needs to submit the preventive measures for taken for protection of seasonal nala passing through the center of the lease from NE to SW and Mamidimotra Vagu (0.8 km, W) and other water bodies in the vicinity of the mine lease area.

- iv. The Project Proponent shall submit a report on the quality of water by comparing the previous baseline data and the present baseline data monitored for preparation of EIA/EMP report with specific reference to Langelier Saturation Index to assess the impact of calcium carbonate.
- v. The Project Proponent should clearly bring out the details of the manpower to be engaged for the project with their roles /responsibilities/designations. The Project Proponent should also clearly bring out the Output per Manpower per Shift (OMS). In addition to these, Project Proponent needs to submit the details of Environmental Management Cell and its effective role and functioning from the start of mining operations.
- vi. The Project Proponent needs to submit the comparison of list of equipment's/ machineries with their particulars w.r.t earlier production and expansion proposal.
- vii. All other terms and conditions mentioned in the Terms of Reference (ToR) letter dated 13.06.2022 shall remain unchanged.

DAY 3: 29th July, 2022

3.1 Proposal for Terms of Reference for Lumshnong Limestone Mine of M/s Meghalaya Minerals & Mines Limited with production capacity of 1,80,000.015 TPA of Limestone in the mine lease area of 4.2 Ha located at Village Lumshnong, Mandal Narpuh, District East Jaintia Hills, Meghalaya - [Proposal number: IA/ML/MIN/279160/2022; File No.: IA-J-11015/30/2022-IA.II(NCM)]

The proposal is for Terms of Reference Lumshnong Limestone Mine is of M/s Meghalaya Minerals & Mines Limited with production capacity of 1, 80,000.015 TPA of Limestone. The mine lease area is 4.2 Ha and is located at Village Lumshnong, Mandal Narpuh, District East Jaintia Hills, Meghalaya.

2. Project details:

Location	Village	Lumshnong
	Tehsil/Taluka	Narpuh
	District	East Jaintia Hills
	State / UT	Meghalaya
	Latitudes	25°09'49.50" to 25°10'03.5" N
	Longitudes	92°22'42.7" to 92°22'49.8" E
	Sol Topo sheet No.	83C/8
Company's Name	M/s Meghalaya Minerals and Mines Limited	
Accredited Consultant and certificate no.	Green Circle, INC. NABET/ EIA/ 2124/RA 0219	
KML file	Project proponent has uploaded the KML in Form-1	

Seismic zone	V
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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 14 th September, 2006 and subsequent amendments
Mining lease Area	4.2 ha
General condition	Narpuh Wildlife Sanctuary is approximately 3.51 km away from the mine lease area

4. Details of current application of Terms of Reference and previous Environmental Clearance:

ToR Proposal No.	IA/ML/MIN/279160/2022
Online application date for Form-I	21.06.2022
Documents Submitted	Form-1, PFR and Approved Mining Plan
Production capacity	1,80,000.015 TPA of Limestone
Waste	Yes
Total Excavation(with break-up) in tonnes per annum	-
ROM in tonnes per annum only	1,80,000.015 TPA of Limestone
Previous EAC details	The project proponent earlier applied for Terms of Reference on 27.12.2016 and was then considered in the EAC meeting held during January 30-31, 2017, wherein PP did not attend the meeting.
Previous EC details as per the Pre-Feasibility Report (PFR)	As per PFR, the EC has already been accorded under EIA Notification dated 15.01.2016 by Ministry of Environment & Forest. MSPCB has given the CTO to M/s Meghalaya Minerals & Mines Limited vide letter no. MPCB/TB-676/2022-2023/33 for (4.2Ha) for production capacity 250 TPD of Limestone.

5. Lease Details:

Letter of Intent	Letter No.	MG.74/2000/140-A
	Date	11.10.2001

6. Mining plan details:

Mining Plan (approved by Indian Bureau of Mines/DMG)	Letter No.	IBM/GHY/MEG/JNH/LST/MS-73
	Date	18.04.2022
	Validity	31.03.2027
Mining Parameters	Quantitative Description	
Bench Height	6m	

Bench Width	6m
Method of Mining	Mechanized opencast mining method will be adopted by using deployment of HEMM and Deep hole blasting.
Individual bench slope	85 ⁰
Overall pit slope	37 ⁰
Drilling/Blasting	Drilling - Mechanical drilling will be done by ATLAS - COPOCO which is WAGON type and the diameter of Hole is 115 mm. Effective shift hour is 6 (hours). To achieve the annual target of 180000.015 TPA, drilling requirement per day will be 32m per day. Blasting-To achieve the annual target of 180000.015 TPA, Blasting will be done with the help of Nitrate Mixture & Anfo Explosives, and after the blasting the lumps will be resized by Rock breaker with the capacity of MB-1500.
RoM output size	Lump < 300mm
Life of mine	5 years
Transportation details	The RoM will be transported by 2 Dumpers and 2 Dumpers will be kept as standby.
Dumpers capacity	20 t

7. 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	Non forest land certificate has issued by PCCF Meghalaya vide letter no. FOR.131/2006/289 on dated 03.08.2018.
National Park	No	
Wildlife Sanctuary	Yes	Narpuh Wild life Sanctuary is approximately 3.51 kms.
Eco-Sensitive Zone(ESZ) /Eco-Sensitive Area(ESA)	Yes	Narpuh Wild life Sanctuary is approximately 3.51 kms.

8. Status of CTE/CTO.

CTE is issued by MSPCB to M/s Meghalaya Minerals and Mines Limited for establishment of a Limestone crushing unit for the production of 470 TPD of Limestone vide letter no. MPCB/TB-CON-93-2006/2006-2007/06 dated 26.02.2007.

The renewed CTO is issued by MSPCB for the production of 250 TPD vide letter no. MPCB/TB-676/2022-2023/33, on dated 26.04.2022 and it is valid upto 31.03.2023.

9. Court case details:

Court Case	Registration No. - 2198/2020, Court: Magistrate court (Kamrup) Chief Judicial Magistrate. Till no summon has been issued by the Hon'ble court.
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10. Observation and Recommendation of the Committee:

The proposal was considered in the 1st EAC (Non-Coal Mining) meeting held during 27th– 29thJuly, 2022. After the detailed presentation given by the project proponent and the consultant, the EAC noted that the project proponent submitted the incomplete proposal. The project proponent did not submit the certified past production details, plantation details etc. and the presentation for Terms of Reference was also poor. There was no clarity of the proposal in the presentation and the queries of EAC members were not addressed properly during the meeting by the consultant. The EAC warned the consultant. Also, the project proponent vide e-mail dated 29.07.2022 requested to withdraw the proposal and apply afresh along with all the relevant documents. Therefore, the Committee **returned the proposal in the present form.**

3.2 Amendment in Environmental Clearance vide letter dated 04.07.2022 w.r.t. specific condition No. (1) and (5) of M/s. NMDC Ltd for Kumarswamy Iron Ore Mine for production capacity of 7 MTPA ROM Iron Ore and 1.6 MTPA waste Excavation (Total Excavation 8.6 MTPA) in the mine lease area of 639.8 ha located at Tehsil: Sandur, District: Ballari, Karnataka – [File. No: J-11015/93/2018-IA.II (M), Proposal No: IA/KA/MIN/75088/2018]- Amendment in EC

The proposal is for amendment in existing Environmental Clearance (EC) vide letter dated 04.07.2022 w.r.t. specific condition No. (1) and (5) of M/s. NMDC Ltd for Kumarswamy Iron Ore Mine for production capacity of 7 MTPA ROM Iron Ore and 1.6 MTPA waste Excavation (Total Excavation 8.6 MTPA) in the mine lease area of 639.8 ha located at Tehsil: Sandur, District: Ballari, Karnataka. The Project Proponent has submitted an online application vide proposal no: IA/KA/MIN/75088/2018 dated 05.07.2022 and submitted Form-4 under the provisions of EIA Notification, 2006.

2. The Project Proponent has made a separate amendment application vide proposal no: IA/KA/MIN/75088/2018 dated 05.07.2022 and submitted Form-4 under the provisions of EIA Notification, 2006 for amendment in EC specific condition number (i) and (v) in the EC letter dated 25.01.2021. The details are given as under:

Reference of approved EC dated 27.04.2022	Specific condition	Amendment sought by Project Proponent	Reasons for Amendment

Specific Condition No. 1, Pg. No: 8	The validity of EC will be co-terminus with the validity of lease period	The Validity of the EC will be co-terminus with the validity of the extended lease period.	The validity of lease period has been extended by Government of Karnataka, Bangalore on 22/6/2022 for the period of 20 years from 18/10/2022 to 17/10/2042.
Specific Condition No. 5, Pg. No: 8	The Environmental Clearance (EC) is accorded for the mining activities in 480.79 ha (non-forest area 159.01 ha and diverted forest area 321.78 ha). No mining activities shall be taken up on forest land beyond the diverted forest area.	The Environmental clearance is accorded for the mining activities in 477.49Ha(non-forest area 152.79Ha and diverted forest area– 324.70 Ha) out of 639.80 Ha of mine lease area.	Area details are as per joint survey and lease extension order dated 22/6/2022.

3. Observation and Recommendation of the Committee:

The proposal was considered in the 1stEAC (Non-Coal Mining) meeting held during 27th– 29thJuly, 2022. After the detailed presentation given by the project proponent and the consultant, the EAC noted that the project proponent obtained the Environmental Clearance from MoEF&CC on 25.01.2021. The project proponent requested for amendment in two specific conditions i.e. A(1) and A(5). The Committee was of the following opinion:

S. No	Request by project proponent for amendment in EC dated 25.01.2021	Deliberation of EAC during 1st EAC meeting held during 27th – 29th July, 2022	Recommendation of the Committee during 1st EAC meeting held during 27th – 29th July, 2022
1	Specific condition 1:	As per specific condition of existing EC dated 25.01.2021, “the validity of EC will	The Committee did not accept the

	The validity of EC will be co-terminus with the validity of lease period	be co-terminus with the validity of lease period". Since the validity of lease period has been extended by Government of Karnataka, Bangalore on 22/6/2022 for the period of 20 years from 18/10/2022 to 17/10/2042 and the specific condition clearly specifies that 'co-terminus with the validity of leave period'. Amendment is not required.	request of project proponent for amendment as proposed.
2	Specific condition 2: The Environmental Clearance (EC) is accorded for the mining activities in 480.79 ha (non-forest area 159.01 ha and diverted forest area 321.78 ha). No mining activities shall be taken up on forest land beyond the diverted forest area.	<p>The Committee noted that earlier the project proponent applied for expansion of Environmental Clearance for Kumaraswamy Iron Ore Mine of M/s NMDC Limited in the mining lease area of 477.49 ha out of total mine lease area of 639.80 ha for expansion of production capacity from 8.6 MTPA (7 MTPA of Iron ore + 1.6 MTPA of waste) to 16.25 MTPA (10 MTPA of Iron ore + 6.25 MTPA of waste) with 1800 TPH Crushing and screening plant located at Village Deogiri, Tehsil Sandur, District Ballari, Karnataka - Proposal No. IA/KA/MIN/273078/2018. The proposal for expansion was considered during the EAC meeting on 14 to 15th June, 2022 and the EAC deferred the proposals for want of mandatory information.</p> <p>The EAC noted that, since the proposal for expansion is under consideration and project proponent informed during the meeting the information to be submitted shortly.</p> <p>Therefore, the Committee did not accept the request of project proponent for amendment as proposed and was of the view that the instant clarification may be rectified during the appraisal of expansion proposal.</p>	

In view of the above, the Committee returned the proposal in the present form.

3.3 Expansion in Environmental Clearance of Lumshnong Limestone Mine of M/s Star Cement Limited in the mining lease area of 70ha with enhancement in production capacity of Limestone from 9 Lakh TPA (ROM) to 25 Lakh TPA (ROM) located at village Lumshnong, Tehsil Khliehriat, District East Jaintia Hills, Meghalaya - [File No. J-11015/34/2017-IA.II(M); Proposal No. IA/ML/MIN/283180/2017] - Environmental Clearance

The proposal is for Environmental Clearance of Lumshnong Limestone Mine of M/s Star Cement Limited in the mining lease area of 70 ha. The proposal is for enhancement in production capacity of Limestone from 9 Lakh TPA (ROM) to 25 Lakh TPA (ROM). The mine lease area is located at village Lumshnong, Tehsil Khliehriat,

District East Jaintia Hills, Meghalaya. Earlier, the proposal was considered in 52nd EAC meeting held during 14th -15th June, 2022 wherein the proposal returned in the present form. The reason for returning the proposal during the aforesaid EAC-NCM meeting was due to calculation of ToR Validity as per the formula suggested by IA Policy Division. In light of the representation given by the PP, the matter was re-examined and validity has been calculated as per the actual details as given under and approved by the Competent Authority;

- Date of grant of TOR –18thJuly,2017;
- Validity of TOR for 4 years till 17th July,2021(As per Ministry’s notification dated 17th Feb,2022;
- TOR time period availed by PP before corona notification: 2 years 8 months 13 days(18 July, 2017 to 31 March,2020)
- Remaining TOR time period available for PP = (4 years - 2 years 8 months 13 days)= 1 year 3 months 17 days;
- Time period not to be calculated (corona notification) – 1stApril, 2020 to 31st March 2021;
- TOR validity period = 2 years 8 months 13 days + 1 year 3 months 17 days (count starts from 1st April, 2021) =17th July, 2022.

In view of the above, the instant project is being considered in the EAC-NCM Meeting scheduled during 27-29, July 2022 as EIA/EMP report submitted on Parivesh Portal on 24.05.2022.

2. Project details:

Location	Latitudes	25°09'56.134"N to 25°10'34.288"N
	Longitudes	92°21'47.340"E to 92°22'26.153"E
	Sol Topo sheet No.	83C/8 (restricted)
Company’s Name	M/s Star Cement Limited	
Accredited Consultant and certificate no.	Perfact Enviro Solutions Pvt Ltd. (NABET/EIA/1922/SA 0143) – Valid till 26.11.2022	
KML file	Submitted	
Seismic zone	V	

3. Category details:

Category of the project	Category “A”, Project or Activity 1 (a) (3) for Mining of Mineral
Provisions	EIA Notification dated 14 th September, 2006
Mining lease Area	70 ha.
General condition	The mine lease area is 4.8 km away in S direction from Narpuh Wildlife Sanctuary. ESZ boundary is 2.7 km away in SE direction from the mine lease boundary.

4. Terms of Reference and previous Environmental details:

ToR Proposal No.	IA/ML/MIN/63217/2017
Online application date for Form-I	20/03/2017
Documents Submitted	Yes
EAC meeting date	27 – 28 th April, 2017
ToR Letter No.	J-11015/34/2017-IA-II(M)
ToR grant Date	18/07/2017
Production capacity	25 Lakhs TPA Limestone (ROM)
Soil	3.64 million tons of Overburden sandy soil (upto the life of mine)
Waste	10.72 million tons of inter-burden sandstone (upto the life of mine)
Total Excavation	30,00,000 TPA
EIA/EMP uploaded on	24.05.2022
Previous EC details	J-11015/04/2011-IA.II(M) dated 01.04.2016 obtained for enhancement in production capacity of Limestone for 9 Lakh TPA (ROM)

5. Lease Details:

Application for the Mining lease area and Date	Mining lease over an area of 70 ha. was granted vide letter no. MG-54/2009/350 dated 04.01.2017	
Validity of mine lease	50 years from 10.01.2017 to 09.01.2067	
Letter of Intent	Letter No.	MG.54/2009/190
	Date	22/12/2009
	Mineral	Limestone
	In favor of	Cement Manufacturing Company Limited (CMCL)
Company's name change	The company name was changed to Star Cement Limited (SCL). Certificate of Incorporation Pursuant to Change of name was obtained vide letter dated 21.06.2016 by Registrar of Companies.	
Mine lease deed	Mine lease deed was executed on 10 Jan 2017 in favor of M/s Star Cement Limited (SCL)	
Validity of mine lease	50 years from 10.01.2017 to 09.01.2067	

6. Mining plan details:

Mining Plan approved by Indian Bureau of Mine, Guwahati	Letter No.	Review of Mining Plan by IBM was approved vide letter IBM/GHY/MEG/EJNH/LST/MP-83 dated 27.08.2021 for the period 2021-22 to 2025-26.
	Date	
	Validity	
Mining Parameters	Quantitative Description	
Bench Height	9 m (Ultimate)	
Bench Width	9m (ultimate) and 25 m to 30 m (working width)	
Method of Mining	Opencast mechanized mining	
Individual bench slope	80° to 85° from horizontal	
Overall pit slope	<45°	
Drilling/Blasting	Fully Mechanized opencast using HEMM and deephole blasting.	
RoM output size	-1000 mm	
Life of mine	38 Years	
Transportation details	The broken material will be transported using 27 no. of 16 m ³ (~23 tonne) capacity tippers	
Dumpers capacity	16 m ³ (~23 tonne)	

7. Presence of Environmentally Sensitive areas in the study area

Forest Land/Protected Area/Environmental Sensitivity Zone	Yes/No	Details of Certificate/letter/Remarks
Forest Land	Yes	4.82 ha is forest land for which forest diversion has already been obtained from MoEF&CC vide letter no. 3-MG - B024/ 2014 -SHI/ 4483-84 dated 11.01.2017.
Wildlife Sanctuary	Yes	Narpuh WildLife Sanctuary is 4.8 km away and Narpuh Reserve Forest is 8.56 Km, SE.
ESZ	Yes	ESZ of Narpuh WildLife Sanctuary is 2.7 km away in SE vide letter no .MFG.16/50/CMCL/Vol III / I / 512 dated 22.08.2019.
National Park	No	
Eco-Sensitive Zone(ESZ)	Yes	ESZ - Narpuh Wildlife Sanctuary. (2.7 km SE)

8. Previous EC compliance and production details:

Particulars	Letter no. and date
Certified EC compliance report	No.14/18/2011/E-RONE/2305 dated 21.12.2021 (Inspection date 01.12.2021)
Certified past production	No. DMO-J/R/66/2020/13 dated 12.04.2022

9. Observation and Recommendation of the Committee:

The proposal was considered in the 1st EAC (Non-Coal Mining) meeting held during 27th– 29th July, 2022. After the detailed presentation given by the project proponent and the consultant, the EAC observed non-compliance of the Environmental Clearance vide letter no. J-11015/04/2011-IA.II(M) dated 01.04.2016 obtained for enhancement in production capacity of Limestone for 9 Lakh TPA (ROM). A detailed Hydro geological report as stipulated has not been carried out. Water spraying by the water tankers along the approach road and other areas is insufficient. During the meeting, the project proponent submitted the closure of report against ATR of monitoring report on compliance of EC conditions vide letter dated 21.04.2022 by which the Committee was not fully satisfied, as compliance of many conditions still needs to be verified by IRO. Therefore, the Committee **deferred** the proposal due to want of the following information:

1. The project proponent needs to submit the detailed justification on the delay for carrying out the Hydro-geological study and further progress made therein.
2. The Public Hearing was conducted on 29.01.2022 at Village Lumshnong, Tehsil Khliehriat, District East Jaintia Hills, Meghalaya. Project proponent is requested to provide the video of public hearing proceeding via CD.
3. The project proponent needs to upload the closure report of the certified compliance report on PARIVESH portal. Project proponent also needs to upload the past production detail duly authenticated by the DMG on parivesh portal.
4. As per closure report of ATR dated 21.04.2022, the project proponent needs to approach the IRO for verification, as identified by the IRO in the ATR report.
5. The project proponent needs to submit the time frame for completing the construction of conveyor belt along with the complete breakup of the total project cost.
6. As the seismic zone is V, the project proponent needs to submit the risk assessment and disaster management plan with specific reference to seismic zone.

List of members of Expert Appraisal Committee participated through VC

S.No	Member Name	Member Address	Designation	27th July 2022	28th July 2022	29th July 2022
1	Dr. Dinesh Misra, IFS (Retd)	Plot No 65, Sector 8, Gandhinagar, Gujarat India, 382 008	Chairman	Yes	Yes	Yes
2	Sh. Niranjan Kumar Vasu, IFS (Retd)	816, Shanti Nagar, Opposite Durgapur Railway Station, Jaipur-Rajasthan, India, 302018	Member	Yes	Yes	Yes
3	Dr. Asha Rajvanshi Scientist 'G' (Retd.), WII	B/104/106 Rock Valley Apartments, GMS Road, Sewla Kalan, P.O. Majra, Dehradun, Uttarakhand-248171	Member	Yes	Yes	Yes
4	Shri. Avijit Gosh (CMD-Heavy Engineering Corporation Limited) (Retd)	Singhee Marg, A-604 Shahadeo Tower, P.P. Compound, Ranchi 834001, Jharkhand	Member	Yes	Yes	Yes
5	Shri. Bandi Ramchandra Reddy (CMD-South Eastern Coalfields Limited)- (Retd.)	Flat No-503 A, Jyoti Cosmos, White Fields, Hi-Tech City, Kondapur, Hyderabad-500081	Member	Yes	Yes	Yes
6	Prof. Pramod Kumar, Professor, Shri Aurobindo College, University of Delhi	Shri Aurobindo College, University of Delhi 1372, B-1, Vasant Kunj, New Delhi-110070	Member	Yes	Yes	Yes
7	Prof. Devesh Walia,	Department of Environmental Studies,	Member	Yes	Yes	Yes

	Professor, Department of Environmental Studies	NEHU, Shillong-793022 Meghalaya				
8	Dr. Suresh Tiwari Scientist-F	Indian Institute of Tropical Meteorology, Pune, New Delhi Branch, Prof. Ram Nath Viji Marg Rajinder Nagar, New Delhi - 110060	Member	Yes	Yes	No
9	Dr. K.G Asha Manjari, Professor, University of Mysore	10/B, "SPARSHA", 2nd Main, 2 nd Cross, Bhogadi IInd Stage, Mysore-570026, Karnataka	Member	Yes	Yes	Yes
10	Prof. Dev Dutt Sharma, Vice- Chancellor	Sardar Patel University, Mandi H.P. 175001	Member	Yes	Yes	Yes
11	Shri V. K. Soni, Representative of India Meteorological Department	Government of India, Ministry of Earth Sciences, India Meteorological Department, MausamBhawan, Lodi Road, New Delhi – 110003	Member	No	No	No
12	Shri Abhay Agrawal	Representative of Indian Bureau of Mines Regional Controller of Mines, IBM Block D, Second Floor, Indira Bhavan, Civil Lines, Nagpur - 440001	Member	Yes	Yes	-
	Shri YG Kale			-	-	Yes
13	Shri Niyazi	Representative of Directorate General of Mines Safety	Member	Yes	Yes	Yes
14	Shri Pankaj Verma	2 nd Floor, Prithvi Block, Indira Paryawaran Bhawan, MoEF&CC, Jorbagh, New Delhi- 110003.	Member Secretary	Yes	Yes	Yes