

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

SUMMARY RECORD OF 45th MEETING OF THE COMMITTEE OF THE EXPERT APPRAISAL COMMITTEE FOR ENVIRONMENTAL APPRAISAL OF NON-COAL MINING PROJECTS CONSTITUTED UNDER THE EIA NOTIFICATION, 2006.

The 45th meeting of the Expert Appraisal Committee for Environmental Appraisal of Mining Projects (Non-Coal) of the Ministry of Environment, Forest and Climate Change was held during 24th, 25th and 27th January, 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 the 43rd EAC Meeting (Non-Coal Mining) held on 14th - 16th December, 2021.

The minutes 43rd EAC Meeting (Non-Coal Mining) held on 14th - 16th December, 2021 were placed before the members of the Committee. The Member Secretary informed the Committee regarding the following corrigendum:

| S. No. | As per 43rd EAC Meeting (Non-Coal Mining) held on 14th - 16th December, 2021 | Typographical error (Project proponent's letter dated 25.12.2021) | EAC recommended during 45th EAC meeting held during 24th, 25th and 27th January, 2022 |
|---------------|--|--|---|
| 1 | Agenda 3.4, project title, Page no. 72 and Para 21, Page no. 84 | "Sheopura – Kesarpura Limestone Mine of M/s Shree Cement Limited for mining of limestone with reduction in limestone production capacity from 4.0 Million TPA to 1.5 Million TPA & Inter Burden 0.65 MTPA (Total excavation of 2.15 Million TPA) [existing EC granted with capacity of 4.0 Million TPA under EIA Notification, 1994] and existing operating crushers | Sheopura – Kesarpura Limestone Mine of M/s Shree Cement Limited for mining of Limestone with reduction of Limestone production capacity from 4.0 Million TPA to 2.0 Million TPA & Inter-burden: 0.81 Million TPA (Total Excavation: 2.81 Million TPA) and increase in Limestone crushing capacity of existing crusher of 800 TPH from 2.0 to 4.0 Million TPA (3.2 Million TPA Crushed Limestone & 0.8 |

| | | |
|--|---|---|
| | of 800 TPH in the mine lease area 856.8 ha, located near Village Sheopura & Kesarpura, Tehsil Masuda, District Ajmer, Rajasthan.” | Non Crushed Limestone with installation of additional screening) in existing mine lease area of 856.83 Ha (ML No. 24/97(R) located near Village Sheopura & Kesarpura, Tehsil: Masuda, District: Ajmer, Rajasthan. |
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(1.2) Deliberation & Circulation on the Minutes of the 44th EAC meeting held during 28th to 29th December, 2021.

The minutes of 44th EAC meeting held during 28th to 29th December, 2021 were placed before the members of the Committee.

Day 1: 24th January, 2022 (Monday)

1.1 Proposal for Environmental Clearance for Sindwari, Ramakhera, Satkhanda Block-B (Auctioned Block) over an area of 474.50 ha with production capacity of 3 Million TPA ROM (Limestone: 1.80 MTPA, Soil: 0.076 MTPA, OB: 1.124 MTPA) along with crusher capacity of 500 TPH located in Villages: Ravliya, Bhavliya, Bhopali, Cherliya, Mangrol and Sindwari, Tehsil: Nimbahera, District: Chittaurgarh, Rajasthan of M/s Dalmia Cement (Bharat) Limited (DCBL)– [File. No: J-11015/4/2022-IA-II(NCM); Proposal No: IA/RJ/MIN/73471/2018] – Environmental Clearance

EAC Meeting Details:

| | |
|-----------------|--|
| EAC meeting | 45 th |
| Date of Meeting | 24 th , 25 th and 27 th January, 2022 |

2. Project details:

| | | |
|---------------------|--|--|
| Name of the Project | Sindwari, Ramakhera, Satkhanda Block-B (Auctioned Block) over an area of 474.50 ha with production capacity of 3 Million TPA ROM (Limestone: 1.80 MTPA, Soil: 0.076 MTPA, OB: 1.124 MTPA) along with crusher capacity of 500 TPH | |
| Location | Village | Ravliya, Bhavliya, Bhopali, Cherliya, Mangrol and Sindwari |
| | Tehsil | Nimbahera |
| | District | Chittaurgarh |
| | State | Rajasthan |
| | Latitudes | 24°42'28.45132"N to 24°43'28.01216"N; |
| | Longitudes | 74°37'20.04389"E to 74°38'52.59332"E |
| | SoI Topo sheet No. | Core zone: G43U10 (45L/10) Buffer Zone: G43U9 (45L/ |

| | |
|--|---|
| | 9)&G43U10 (45L/ 10) |
| Company Name | Dalmia Cement (Bharat) Limited |
| Accredited Consultant Organisation and its certificate no. | Enkay Enviro Services Pvt. Ltd., Jaipur Accredited EIA Consultant by NABET (QCI) Certificate No: NABET/EIA/2023/RA 0183, valid up to 12.12.2023 |
| KML file | Submitted |
| Seismic zone | II |

3. Category details:

| | |
|-------------------------|--|
| Category of the project | Category "A", Project or Activity 1(a) – 3 for Mining of Mineral |
| Provisions | As per EIA Notification S.O. 1533 (E), dated 14 th September 2006 and subsequent amendments |
| Mining lease Area | 474.50 Ha |

4. ToR Details:

| | |
|------------------------------------|--|
| ToR Proposal No. | IA/RJ/MIN/73471/2018 |
| Online application date for Form-I | 5 th April, 2018 |
| EAC meeting for ToR | 15 th May, 2018 |
| ToR Letter No. | J-11015/38/2018-IA-II(M) |
| ToR grant Date | 6 th June, 2018 |
| Production capacity (TPA) | Limestone: 1.8 Million TPA |
| Soil | 0.076 Million TPA |
| Waste | Shale/ OB/ Subgrade- 1.124 Million TPA |
| Total Excavation | 3.0 Million TPA |
| Crusher | One crusher (500 TPH) |
| EIA/EMP uploaded on | 21 st December, 2021 |

5. Lease Details:

| | | |
|------------------|---|-------------------------------|
| Letter of Intent | The proposed mine "Sindwari, Ramakhera, Satkhanda Block- B" was e-auctioned by Government of Rajasthan and DCBL was declared as the "Preferred Bidder" for grant of this mining lease | |
| | Letter No. | P. 5(2) Khan/ Group – 2/ 2017 |
| | Date | 29 th August, 2017 |
| Extension of LOI | Mines & Petroleum Department, Govt. of Rajasthan has granted extension of LOI validity vide letter dated 19.10.2020 and dated 03.11.2021. Presently is valid till 28.08.2022. | |

6. Mining plan details:

| | | |
|--|------------|---------------------------------------|
| Mining Plan (approved by Indian Bureau of Mines/DMG) | Letter No. | 584(4)(3)(1754)/ 2018–RCM-Ajmer/ 1382 |
| | Date | 26.09.2018 |

| | | |
|--------------------------|--|--|
| | Validity | 5 years from date of mine lease execution & registration. Lease will be executed after grant of EC. |
| Mining Parameters | | Quantitative Description |
| Bench Height | 10 m | |
| Bench Width | 12-16 m | |
| Method of Mining | Opencast fully mechanized | |
| Individual bench slope | 75 ⁰ | |
| Overall pit slope | 40 ⁰ | |
| Drilling/Blasting | Yes | |
| RoM output size | 50 to 75 mm sizes | |
| Life of mine | 11 Years (Based on current level of exploration carried out by DMG, Rajasthan which is likely to extend after the proposed exploration by drilling 115 boreholes at various locations during 1st Five year in order to bring into G-1 category) | |
| Transportation details | It is a non-captive mine. Part of crushed limestone will be transported to the cement plant of the subsidiary company (RPPL) of DCBL and part of the limestone along with other waste materials produced may also be sold to other cement plants & end use industries by road transport. NH 56 is passing through the lease and will be used for transportation. | |
| Dumpers capacity | 25 tonnes of dumpers for transportation of excavated limestone/waste within mine block and 35 tonnes for transportation of crushed limestone to end-use industries. | |

7. Land Area Breakup:

| | |
|-------------------------|--|
| Private land | 411.6 Ha |
| Government land | Govt. Land/Abadi – 29.14 Ha & Charagah/ Pasture Land:- 33.76 Ha |
| Total Mining lease area | 474.50 Ha |
| Additional information | Charagah land will be transferred to the company for mining activities after providing equivalent land along with prescribed cost for raising gowcher- bhoomi as per the notification of State Govt. vide Department of Revenue Notification No.F10(3)Revenue-6/2001/19 dated 31.05.2017. Equivalent alternative land has been identified and company has entered into ATS with the owners of the land. Company has submitted an application to Govt. of Rajasthan for exception on land ceiling which is under process. |

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

| Particulars | Particular's Name | Distance & Directions |
|-----------------|-----------------------------|------------------------------|
| Nearest Village | Ravliya (Entire habitation) | Within lease area towards NE |

| | | |
|--------------------------------|------------------------------------|--------------------------------|
| | Bhavliya (A Part of Habitation) | Within lease area towards E |
| Nearest Town & City | Nearest Town- Nimbahera | 9.0 Km, SSE |
| | Nearest City- Chittorgarh | 15.0 Km, N |
| Nearest Highway | NH- 56 (Earlier known as NH-79) | Passing through the lease area |
| Nearest Railway Station | Mangrol Railway Station | 2.40 Km, SE |
| Water Bodies | SatkhandaNadi | 0.35 Km, N |
| | Murliya dam | 0.28 Km, S |
| | Gambhiri River | 5.80 Km, E |
| | Gambhiri Reservoir | 6.50 Km, ESE |

9. Water requirement

| | | | |
|-------------------------|---|---------------|----------|
| Total water requirement | 83.0 KLD | Fresh water | 74.3 KLD |
| | | Treated water | 8.7 KLD |
| Source | Water demand will be met from ground water and after development of the mine pit; DCBL will augment the mine pit rain water for meeting the requirements except domestic water requirement. | | |
| Permission | Permission for abstraction of ground water has been obtained from CGWA, Department of Water Resources, Govt. of India vide NOC no. CGWA/NOC/MIN/ORIG/2021/13708 dated 12.11.2021. | | |

10. Presence of Environmentally Sensitive areas in the study area

| Forest Land/Protected Area/Environmental Sensitivity Zone | Yes/No | Details of Certificate/letter/Remarks |
|---|--------|---|
| Forest Land | No | No National Park, Wildlife Sanctuary or Reserve of Special Zone etc. fall within 10Km radius of the lease area. There is no forest land within the lease area. The same has been authenticated from Office of DCF, Chittaurgarh vide letter dated 22.09.2021. |
| National Park | No | |
| Wildlife Sanctuary | No | |

| Schedule-1 species | Yes/No | Details of Certificate/letter/Remarks |
|--------------------|--------|---|
| Schedule-I species | Yes | There are six Schedule -I species found/reported which are as follows: - (a.) Pavocristatus (Indian Peafowl), (b.) Pantherapardusfusca (Indian Leopard), (c.) Prionailurusrubiginosus (Rusty-Spotted Cat), (d.) Canis lupus pallipes (Indian Wolf), (e.) Varanusbengalensis (Indian Monitor Lizard) & (f.) Gyps indicus/Gyps bengalensis (Indian Vulture) |

| | | |
|----------------------------|-----|---|
| Wildlife Conservation Plan | Yes | <p>According to the Instruction issued by Additional Principal Chief Conservator of Forest & Chief Wildlife Warden, Rajasthan, Jaipur vide F. No. () WCP/CWLW/2019/6451-6453 dated 24.05.2019 for processing of Wildlife Conservation Plan (WLCP) for projects, a sum of Rs. 2.67 crores have been allocated for various conservation and mitigative activities.</p> <p>In-Principle Approval of WLCP with a budget of Rs. 2.67 Cr. Has been granted by PCCF&CWLW, Rajasthan vide letter F11(422)Vikas-II/CWLW/2021-22/115 dated 23.09.2021 and as per the instruction received, Rs. 53.4 lacs which is 20% of earmarked budget (2.67 Cr.) has already been deposited in account of Rajasthan Protected Areas Conservation Society (RPACS), Govt. of Rajasthan.</p> |
|----------------------------|-----|---|

11. Green belt/plantation details:

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|---|---|
| Proposed area for green belt/plantation | 103.953 ha with 259,883 no. of trees (Safety zone along Lease boundary-6.6 ha; Safety barrier along nallah, road & canal-50.01 ha; Back filled area-5 ha; upper most 2 benches of excavated pits-24.29 ha and plantation on Infrastructure area at the end of life of mine-18.053 ha) |
| Budget for green plant & plantation till the end of life of mine. | Rs. 520 Lakhs |
| Budget for nursery | Rs. 10 lakhs |

| Particulars for Green belt/plantation | Area covered (in Ha) |
|---|---|
| 7.5 m barrier & non-mineralized zone | 6.6 |
| 50 m safety zone of nallah, roads, electric lines | 50.01 (in safety barrier along road, nallahs, canal and around mine office) |
| 500 m safety zones of nearest habitation villages | Covered under 50.01 ha as mentioned above |
| Additional information | Plantation will also be done on backfilled area (5 ha), on upper most 2 benches of excavated pits (24.29 ha) and on Infrastructure area at the end of life of mine (18.053 ha). |

12. Baseline Details:

| Baseline Data (Air / Water / Noise / Soil / Ground water table/ others) | |
|---|--|
| Period of baseline data collection | October to December, 2018 |
| Season (Summer / Pre-monsoon / Post-monsoon / Winter) | Post Monsoon Season |
| Data collection by approved Laboratory | Baseline data generation was carried out by NABL approved laboratory M/s SCS Enviro Services Pvt. Ltd., Jaipur (Rajasthan) |
| Pre-dominant wind direction | North-East to South-West and North to South during post monsoon season |
| Air quality monitoring | PM ₁₀ 44.0 - 65.3 µg/m ³ |

| | | |
|----------------------------------|-------------------|-------------------------------|
| | PM _{2.5} | 25.7 - 40.1 µg/m ³ |
| | SO _x | 6.0 - 9.4 µg/m ³ |
| | NO _x | 6.0 - 10.5 µg/m ³ |
| Surface water quality monitoring | pH | 7.43 – 7.88 |
| | DO | 4.7 - 5.2 mg/l |
| | BOD | 2.0– 3.5 mg/l |
| | COD | 9.0–13.0 mg/l |
| Ground water quality monitoring | pH | 6.69-7.19 |
| | TDS | 436– 1114 mg/l |
| | Total Hardness | 276Mg/l - 484 mg/ l |
| | Total Alkalinity | 240 – 544 mg/l |
| | Calcium | 92.80 – 153.60 mg/ l |
| | Sulphate | 48.75 - 234.26 mg/l |
| Noise monitoring | Day time | 47.9-52.1 dB(A) |
| | Night time | 40.7 – 42.2 dB(A) |
| Soil quality monitoring | pH | 7.25 - 7.81 |
| | Nitrogen | 35 - 70Mg/100 gram |
| | Phosphorus | 13.70– 105.16Mg/100 gram |
| | Potassium | 0.6 - 24Mg/100 gram |

13. Public Hearing Details:

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| Advertisement for PH with date | Indian Express, Rajasthan Patrika & Danik Bhaskar, Chittorgarh Advertisement date: 24.01.2020 |
| Date of PH | Public Hearing was scheduled to be conducted on 16.09.2019 as per the EIA Notification 14th September' 2006 but it was cancelled by District Collector, Chittaurgarh because of exigency. Later, it was rescheduled and conducted successfully on 27.02.2020 |
| Venue | Community Building, Village: Cherliya: Gadia, Tehsil: Nimbahera, District: Chittaurgarh |
| Chaired by | Shri Mukesh Kumar Kalal, Additional District Collector, Chittaurgarh and Mr. Sharad Saxena, Regional Officer, Rajasthan State Pollution Control Board, Chittaurgarh |
| Main issues raised during PH | Land Compensation, Infrastructure development, Employment, Education facilities, Ground water Development, Medical facilities, Environmental pollution etc. |
| Budget proposed for addressing issues raised during PH | Rs. 472 Lakh. |
| Additional information | Also, Rs. 2.72 crore is earmarked as soft loan for PAFs for development of start-ups which is covered in R&R budget. |

14. Court case details:

| | |
|------------|--|
| Court Case | No court case/litigation is pending against the project. |
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15. Rehabilitation and Resettlement:

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|---------------|---|
| R & R details | <p>Habitation of two Villages i.e., Ravaliya (entire habitation) and Bhavaliya (a part of habitation) are within the lease area. NH 56 is passing through the lease and both villages are at eastern side of NH. There will be no resettlement of the villages as the entire working will be restricted till the safety distance from NH-56 on its Western side which otherwise will also be acting as a natural barrier between the working of mine and habitation of both the villages. Opposite side/eastern side of NH-56 including NH itself, is not proposed to be disturbed.</p> <p>However, there is encroachment on chargah land. Resettlement of the same has been considered in R&R budget. For charagah land, as per the Govt. of Rajasthan, Revenue (Group- 6) Notification No. F10 (3) Revenue-6/2001/19 dated 31.05.2017– The development charges for, the year 2017 shall be rupees fifty thousand per bigha or part thereof and for subsequent year it shall be increased by five percent every year”. As per the rules of State Government vide Department of Revenue, Equivalent alternative land has been identified for Charagah land and company has entered into ATS with the owners of the land. Company has submitted an application to Govt. of Rajasthan for exception on land ceiling which is under process.</p> <p>It is proposed to purchase the private agriculture land with mutual agreement in line of the RFCTARR Act 2013 (Right to Fair Compensation, Transparency in land Acquisition and Rehabilitation & Resettlement) and Gazette Notification released by Revenue (Group-6) Department, Govt. of Rajasthan vide notification no P.1(3)RAJ.6 /2011 /PART/26 dated 14.06.2016. There will be a mutual consent between the PP and PAF's/ PAP's on the budget negotiation. Estimated budget towards land purchase is Rs. 150 cr.</p> |
|---------------|---|

16. Affidavit/Undertaking details:

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|--|---|
| PP submitted an undertaking dated 17.12.2021 | The instructions as per MoEF&CC O.M. No. J-11013/41/2006-IA. II (I) dated 04.08.2009 has been followed during the preparation of this EIA/EMP Report. |
| Consultant submitted an Undertaking dated 21.12.2021 | The Consultant submitted an undertaking to the effect that the data and the information provided are to the best of consultant's knowledge. |

17. Details of the EMP:

| S. No. | Activities | Capital Cost(Lakhs) | Recurring Cost(Lakhs) |
|--------|------------|---------------------|-----------------------|
|--------|------------|---------------------|-----------------------|

| | | | |
|---|--|-----------|-----------|
| A. Air Quality Management and monitoring | | | |
| Mitigative Measures | | | |
| 1 | Permanent water sprinkling arrangements for main haulage road | 10 | 2 |
| 2 | One tanker (16 KL) mounted water sprinkling system | 20 | 8 |
| 3 | Bag filter for crusher, Mist fog system and construction of wind breaking wall for crusher hopper | 15 | |
| 4 | Installation of one online Ambient Air Quality Monitoring Station at mine site and three manual monitoring station in surrounding villages | 60 | 4 |
| 5 | Fugitive dust emission monitoring (6 locations * monthly) | -- | 2 |
| 6 | Personal Dust Monitoring (6 locations * Quarterly) | -- | 1 |
| SUB-TOTAL | | 45 | 17 |
| B. *Greenbelt development/plantation | | | |
| 1 | Greenbelt in 7.5 m wide safety zone covering an area of 15.75 ha (No. of Saplings: 39375) | 79 | 40 |
| | Plantation in safety barrier along nalla, canal etc., on backfilled area and on upper most 2 benches of pits covering an area of about 88.203 ha with total 2220508 saplings [Total cost = Rs. 4.41 Crore] | | |
| SUB-TOTAL | | 79 | 40 |
| C. Water Quality Management and monitoring | | | |
| Mitigative Measures | | | |
| 1 | Construction of garland drain and retaining wall and sedimentation pits to channelized the surface runoff. | 70 | 10 |
| 2 | Installation of STP and waste water quality monitoring | 8 | 2 |
| Monitoring | | | |
| 1 | Installation of 2 piezometer within the lease area. | 5 | 2 |
| 2 | o Water quality and level monitoring at mine site and villages (4 locations). | 5 | 3 |
| | o water quality monitoring of Nala (during monsoon) and canal | | |
| | o Workshop Waste water quality analyses | | |
| 3 | Development of Rainwater Harvesting System | 10 | 2 |
| SUB-TOTAL | | 98 | 19 |
| D. Noise and Vibration Management and monitoring | | | |
| | PPE to workers | -- | 0.5 |
| 1 | The Peak particle velocity monitoring for nearest habitation | 3 | 1 |

| | | | |
|--------------------|--|---------------------------------|------------|
| | Noise Level Monitoring in core and buffer zone | | |
| SUB-TOTAL | | 3 | 1.5 |
| E. | Occupational Health & safety | 5 | 2 |
| F. | Environmental Awareness Program | 1 | 1.5 |
| G. | Digital mapping of the entire lease area once in three years | 5.0 Lakh once in 3 years | |
| H. | Action plan for addressing the issues raised during the public hearing with budgetary provision | 472 (within 3 years) | |
| I | Wild Life Conservation Plan as per In-principle approval of PCCF&CWLW | 267 | |
| GRAND TOTAL | | 975 | 81 |

18. Details of project cost and employment:

| Particulars | (Rs. In Crore) |
|--|----------------|
| Capital Cost for Environment Protection | 2.36 |
| Budget for addressing the Public Hearing issues | 4.72 |
| Budget for Wild Life Conservation Plan as per In-principle approval of PCCF&CWLW | 2.67 |
| Total Cost for EMP | 9.75 |
| Recurring Cost for EMP | 0.81 |
| Project Cost | 243 |
| Employment | 46 persons |

3. Observation and Recommendation of the Committee:

The proposal for Environmental Clearance was considered in the 45th EAC (Non-Coal Mining) Meeting held during 24th, 25th and 27th January, 2022. After detailed deliberations made by the project proponent and the consultant, the Committee noted that the impact of mine working on the Highway traffic and the vice versa was not addressed in the EIA/EMP report. The Committee also noted that there is a dam and a reservoir near the mine lease area. There are also few lacunae in the Wildlife Conservation Plan. Therefore, the Committee **deferred** the proposal due to want of following information:

- 1) The project proponent needs to submit the impact of vibrations from the mine on the Highway traffic and vice versa. The project proponent needs to carry out the Vibration study and submit the impacts of vibration during blasting and excavation on the Highway.
- 2) The dam is about 6.5 km and the reservoir is 250 m away from the mine site. The project proponent needs to submit the impact of mining, particulate emissions, deposition of particles in the water bodies, and any change in the water quality likely to occur due to mining activities as well as transportation of the material.

- 3) The Wildlife Conservation Plan needs to be revised as per the suggestions given by the experts during the presentation and the project proponent needs to submit the revised approved wildlife conservation plan needs to submit.
- 4) The EMP cost needs to be revised by deleting the cost of monitoring and the EMP cost should address only the cost of prevention and control of emission including the noise and vibration and submit accordingly.
- 5) The project proponent needs to submit the detailed note on transportation currently in practice both on the highway and the underpass and the scenario after the mine starts working, impacts if any, on the traffic as well as movement of people residing on the either side of the Highway.

1.2 Proposal for Terms of Reference for Taliha Graphite Deposit over an area of 496 ha with total excavation of 852007.4 TPA [Graphite: 410879 TPA (ROM), Top soil: 82201.99 TPA, OB/SB/IB: 358926.45 TPA] along with five mobile crushers at pit mouth with capacity of 100 t/h to crush the mineralized material to <80 mm size located at Village Taliha, District Upper Subansiri, Arunachal Pradesh of M/s Sthenos Cement Private Limited – [File No: J-11015/1/2022-IA-II(NCM); Proposal No: IA/AR/MIN/248659/2021] - Terms of Reference (ToR)

EAC Meeting Details:

| | |
|-----------------|--|
| EAC meeting | 45 th |
| Date of Meeting | 24 th , 25 th and 27 th January, 2022 |

The proposal of M/s Sthenos Cement Private Limited is for grant of Terms of Reference for Taliha Graphite Deposit over an area of 496 ha with total excavation of 852007.4 TPA [Graphite: 410879 TPA (ROM), Top soil: 82201.99 TPA, OB/SB/IB: 358926.45 TPA] along with five mobile crushers at pit mouth with capacity of 100 t/h to crush the mineralized material to <80 mm size located at Village Taliha, District Upper Subansiri, Arunachal Pradesh. The mine lease area is located between Latitude 28° 13'30.539"N to 28° 14' 41.651"N and Longitude 94° 07' 6. 850" E to 94° 09' 26.539" E. The mine lease area falls under the Survey of India Toposheet No. 82L/4 and falls in Seismic Zone-V.

2. M/s. M/s Sthenos Cement Private Limited had made an online application vide proposal no. IA/AR/MIN/248659/2021 dated 31.12.2021 and submitted Form-1 and Pre-feasibility report under the provisions of the EIA Notification, 2006 for the project mentioned above. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals under Category "A" of the schedule of the EIA Notification, 2006 as the mining lease area is greater than 100 ha and appraised at Central level.

3. Observation and Recommendation of the Committee:

The proposal for Terms of Reference was considered in the 45th EAC (Non-Coal Mining) Meeting held during 24th, 25th and 27th January, 2022. The Member

Secretary informed the Committee that the Project Proponent vide letter dated 18.01.2022 requested to withdraw the application submitted for Terms of Reference as there is some technical modification in the proposal. The Project Proponent will apply afresh for ToR after the modification. Therefore, the Committee **returned the proposal in the present form.**

1.3 Proposal for Corrigendum in Environmental Clearance for correction of validity of mine lease i.e. 2026 instead of 2016 in EC vide letter no. J-11011/986/2008-IA-II(I) dated 24th June, 2009 of Expansion of Cement Plant (600 TPD to 900 TPD) and expansion of Limestone Mining (MLA: 144.25 Ha) located at Khasra no. Khasra No.-2591, 2593min, 2594, 2597, 2601, 2608min, 2609, 2611min, 2612, 2613, 3881/2614, 2610, 2615, Village: SamanKhoumoh, Tehsil: Srinagar, District: Srinagar, Jammu and Kashmir of M/s. Saifco Cements Pvt Limited– [File. No: J-11015/5/2022-IA-II(NCM); Proposal No: IA/JK/MIN/245842/2021] - Corrigendum in EC

EAC Meeting Details:

| | |
|-----------------|--|
| EAC meeting | 45 th |
| Date of Meeting | 24 th , 25 th and 27 th January, 2022 |

2. Project details:

| | | |
|----------------------|--|-------------------|
| Name of the Proposal | Proposal for Corrigendum in Environmental Clearance for correction of validity of mine lease i.e. 2026 instead of 2016 in EC vide letter no. J-11011/986/2008-IA-II(I) dated 24th June, 2009 of Expansion of Cement Plant (600 TPD to 900 TPD) and expansion of Limestone Mining (MLA: 144.25 hac) | |
| Location | Village | Saman Khoumoh |
| | Tehsil | Srinagar |
| | District | Srinagar |
| | State | Jammu and Kashmir |
| Company's Name | M/s. Saifco Cements Pvt Limited | |

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 | 144.25 Ha |

4. EC Details:

| | |
|---|---|
| Previous EC letter no. | J-11011/986/2008-IA-II(I) |
| Previous EC date | June 24, 2009 |
| Online application date for Corrigendum in EC | 22 nd December 2021 |
| Documents Submitted | Copy of EC letter, cover letter, CTO, Copy of Form-1, |

| | |
|------------------------------|---|
| | approved mining plan, previous EIA/EMP report for integrated cement plant and Limestone mine and mine lease grant order. |
| Reason for Corrigendum in EC | The Correction in valid mining lease upto 2026 instead of 2016 |
| Grant of mine lease | Lease was granted for Limestone for manufacture of cement and installation of a 150 TLP plant over an area of 144.25 Ha on 08.08.1996 for 30 years. |

5. Observation and Recommendation of the Committee:

The proposal for Corrigendum in Environmental Clearance was considered in the 45th EAC (Non-Coal Mining) Meeting held during 24th, 25th and 27th January, 2022. After the detailed deliberations made by the project proponent and the consultant, the Committee observed that earlier the Environmental Clearance was granted by the Industry-1 division of MoEF&CC vide letter no. J-11011/986/2008-IA-II(I) dated June 24, 2009, for the Integrated Cement Plant (600 TPD to 900 TPD) and Limestone Mine. The Project Proponent has requested for the correction in mine lease validity as 2026 instead of 2016. It was also noted that the project proponent had applied for the corrigendum in the Industry-1 of IA Division in the Ministry and the proposal was considered in the 1st EAC meeting (Industry-I) held during 26th to 28th November, 2018, wherein the Committee referred the proposal to Non-Coal Mining Division as the matter was related to correction in mine lease validity. The matter was examined by the EAC, Non-Coal Mining and **recommended** the proposal for mine lease validity up to 2026 instead of 2016.

1.4 Proposal for Terms of Reference for Dodeserum Graphite Deposit over an area of 183 Ha for total excavation of 2,20,812 TPA [Graphite: 1,59,957 TPA (ROM), Top Soil: 652.6 TPA, OB/SB/IB: 60202 TPA] and setting up of 3 mobile crushers at pit mouth with capacity of 100 t/h to crush the mineralized material to <80 mm size located in Dodeserum Area, Lower Subansiri District of Arunachal Pradesh by M/s. Tasso Alloys Private Limited – [File. No: IA-J-11015/3/2022-IA-II(NCM); Proposal No: IA/AR/MIN/249929/2022] - Terms of Reference

EAC Meeting Details:

| | |
|-----------------|--|
| EAC meeting | 45 th |
| Date of Meeting | 24 th , 25 th and 27 th January, 2022 |

The proposal of M/s. Tasso Alloys Private Limited is for grant of Terms of Reference for Dodeserum Graphite Deposit over an area of 183 Ha for total excavation of 2,20,812 TPA [Graphite: 1,59,957 TPA (ROM), Top Soil: 652.6 TPA, OB/SB/IB: 60202 TPA] and setting up of 3 mobile crushers at pit mouth with capacity of 100 t/h to crush the mineralized material to <80 mm size located in Dodeserum Area, Lower Subansiri District of Arunachal Pradesh. The mine lease area is located between Latitude 27° 24' 10.768" N -27° 25' 44.600" N and Longitude 93° 45' 7.700"

E- 93° 45' 50.800" E. The mine lease area falls under the Survey of India Toposheet No.83 E/11& 83 E/15 and falls in Seismic Zone-V.

2. M/s. Tasso Alloys Private Limited had made an online application vide proposal no. IA/AR/MIN/249929/2022 dated 05.01.2022 and submitted Form-1 and Pre-feasibility report under the provisions of the EIA Notification, 2006 for the project mentioned above. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals under Category "A" of the schedule of the EIA Notification, 2006 as the mining lease area is greater than 100 ha and appraised at Central level.

3. Observation and Recommendation of the Committee:

The proposal for Terms of Reference was considered in the 45th EAC (Non-Coal Mining) Meeting held during 24th, 25th and 27th January, 2022. The Member Secretary informed the Committee that the Project Proponent vide letter dated 18.01.2022 requested to withdraw the application submitted for Terms of Reference as there is some technical modification in the proposal. The Project Proponent will apply afresh for ToR after the modification. Therefore, the Committee **returned the proposal in the present form.**

1.5 Proposal for Terms of Reference for Tai-Techidoni Graphite deposit over an area of 196 Ha for total excavation of 406489.95 TPA [Graphite: 279923.18 TPA (ROM), OB/SB/IB: 126566.77 TPA] and setting up of 4 mobile crushers at pit mouth with capacity of 100 t/h to crush the mineralized material to <80 mm size located in Villages: Tai, Tamaripa&Techidoni, Districts: Lepa Rada &UpperSubansiri, Arunachal Pradesh by M/s. Tasso Alloys Private Limited – [File. No: J-11015/7/2022 IA.II (M), Proposal No: IA/AR/MIN/250486/2022] - Terms of Reference

EAC Meeting Details:

| | |
|-----------------|--|
| EAC meeting | 45 th |
| Date of Meeting | 24 th , 25 th and 27 th January, 2022 |

The proposal of M/s. Tasso Alloys Private Limited is for grant of Terms of Reference for Tai-Techidoni Graphite deposit over an area of 196 Ha for total excavation of 406489.95 TPA [Graphite: 279923.18 TPA (ROM), OB/SB/IB: 126566.77 TPA] and setting up of 4 mobile crushers at pit mouth with capacity of 100 t/h to crush the mineralized material to <80 mm size located in Villages: Tai, Tamaripa&Techidoni, Districts: Lepa Rada &UpperSubansiri, Arunachal Pradesh. The mine lease area is located between Latitude 270 58' 26.684" N to 280 0' 24.146" N and Longitude 940 30' 47.000" E to 940 32' 15.227" E. The mine lease area falls under the Survey of India Toposheet No.82L/12 & 83 I/9 and falls in Seismic Zone-V.

2. M/s. Tasso Alloys Private Limited had made an online application vide proposal no. IA/AR/MIN/250486/2022 dated 07.01.2022 and submitted Form-1 and Pre-feasibility report under the provisions of the EIA Notification, 2006 for the project mentioned above. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals under Category “A” of the schedule of the EIA Notification, 2006 as the mining lease area is greater than 100 ha and appraised at Central level.

3. Observation and Recommendation of the Committee:

The proposal for Terms of Reference was considered in the 45th EAC (Non-Coal Mining) Meeting held during 24th, 25th and 27th January, 2022. The Member Secretary informed the Committee that the Project Proponent vide letter dated 18.01.2022 requested to withdraw the application submitted for Terms of Reference as there is some technical modification in the proposal. The Project Proponent will apply afresh for ToR after the modification. Therefore, the Committee **returned the proposal in the present form.**

1.6 The proposal for Terms of Reference (ToR) under the provision of Ministry’s Notification S.O. 1530 (E) dated 06.04.2018 for Rajanka Limestone Mine (MLA: 81.50 Ha, F Block out of total mine lease area of 598.88 ha) with total excavation of 2.16 MTPA (Limestone: 1.3 MTPA, Waste/OB/Topsoil: 0.86 MTPA) located at Village Rajanka, Dakota, Purna Chaibasa, Kondwa & Indikuri etc., Tehsil Tonto, District West Singhbhum, Jharkhand by ACC Ltd. – [File. No: J-11015/155/2018-IA.II (M), Proposal No: IA/JH/MIN/233447/2021] – Reconsideration of Terms of Reference

EAC Meeting Details:

| | |
|-----------------|--|
| EAC meeting | 45 th |
| Date of Meeting | 24 th , 25 th and 27 th January, 2022 |

2. Project details:

| | | |
|----------------------|---|--|
| Name of the Proposal | Rajanka Limestone Mine (MLA: 81.50 Ha, F Block out of total mine lease area of 598.88 ha) with total excavation of 2.16 MTPA (Limestone: 1.3 MTPA, Waste/OB/Topsoil: 0.86 MTPA) under the provision of Ministry’s Notification S.O. 1530 (E) dated 06.04.2018 | |
| Location | Village | Rajanka, Dakota, Purna Chaibasa, Kondwa & Indikuri etc |
| | Tehsil/Taluka | Tonto |
| | District | West Singhbhum |
| | State / UT | Jharkhand |
| | Latitudes | 22°24'9.81"N to 22°25'15.66"N |
| | Longitudes | 85°43'36.46"E to 85°44'20.92"E |
| | SoITopo sheet No. | 73F/11 |

| | |
|---|--|
| Company's Name | M/s Sthenos Cement Private Limited |
| Accredited Consultant and certificate no. | Vardan EnviroNet NABET/EIA/1922/RA 0166 (Rev.1) |
| KML file | Submitted |
| Seismic zone | II |

3. Category details:

| | |
|-------------------------|---|
| Category of the project | Category "A", Project or Activity 1(a) – 3 for Mining of Mineral |
| Provisions | As per EIA Notification S.O. 1533 (E), dated 14 th September 2006 and Ministry's Notification S.O. 1530 (E) dated 06.04.2018 and subsequent amendments |
| Mining lease Area | 598.88 Ha |

4. Previous EC/ToR Details:

| | |
|------------------------------------|--|
| Previous EC Letter No. | J-11015/129/2001.IA.II (M) |
| Previous EC Letter Date | 28 th December 2004 and corrigendum EC letter dated 18 th January 2005 for expansion project of Rajanka Limestone Mine F and F2 Blocks (0.45 to 2.11 MTPA) over an area of 145.37 Ha. |
| Proposed Production capacity (TPA) | 1.3 million TPA (Limestone) |
| Soil | Max. 900 cum per annum of topsoil will be generated |
| Waste | 0.86 MTPA |
| Total Excavation | 2.16 MTPA |
| Crusher | The crusher is situated in F2 lease (adjacent lease to F-block of the same lessee). Limestone is crushed through a crusher of 1100 TPH in 50 mm size and conveyed by Pipe conveyor to the ACC Chaibasa Cement plant for manufacturing of cement. |
| Previous EAC meetings | <p>1) 38th EAC meeting held during November 15-16, 2018 wherein EAC observed that Rajanka Limestone Mine 598.88 Ha Main lease comprising F-Block among other blocks was granted by the State Government on 04.06.1943 and Rajanka Limestone Mine, F-2 lease was granted on 13.09.1965. After subsequent renewals of M.L. areas separately, now the mine is valid till 31.3.2030 as per the section 8A(5) of New MMDR Amendment act 2015 and the Committee deferred the proposal due to few shortcomings.</p> <p>2) 12th EAC Meeting held during December 19-20, 2019 wherein the EAC deferred the proposal due to few shortcomings and also noted that there is two mine leases. Two agreements but only one EC. F block having mine lease area of 81.50 ha and F2 block having mine lease area of 63.87 ha). Therefore, Committee is of the view that the</p> |

| | |
|--|--|
| | <p>PP should either get the lease deed agreement or apply for separate ToR/EC for each lease agreement.</p> <p>3) 40th EAC Meeting (Non-Coal Mining) held during 26th – 27th October, 2021 wherein the EAC deferred the proposal and asked the PP to submit latest certified compliance report.</p> |
|--|--|

5. Lease Details:

| | |
|--------------------|--|
| Granted Mine Lease | The main lease was granted on 04.06.1943 which was valid till 31.12.1970. First renewal of lease was on 01.01.1971 valid till 31.12.1990, second renewal of lease was deemed renewed over an area of 598.88 ha including F block (81.5ha) expired on 31.12.2010. The application for 3rd renewal for 20 years was filed in December 2009. The deemed lease has been extended by State Government vide letter No. 2112/M Dated on 17.10.2017 and is valid till 31.03.2030 in the name of M/s ACC Limited (Chaibasa Cement Works). |
|--------------------|--|

6. Mining plan details:

| | | |
|--|--|---------------------------|
| Mining Plan (approved by Indian Bureau of Mines/DMG) | Letter No. | RAN/WSB/LST/MP-37/2019-20 |
| | Date | 26.11.2020 |
| | Validity | 2020-21 to 2024-25 |
| Mining Parameters | Quantitative Description | |
| Bench Height | 7 - 11.5 m | |
| Bench Width | 15 m | |
| Method of Mining | Fully Mechanized open cast mining | |
| Individual bench slope | About 85° | |
| Overall pit slope | less than 45 deg | |
| Drilling/Blasting | drilling & blasting has been carried out by 115 & 152 mm dia DTH drills, | |
| RoM output size | <0.7 m3 | |
| Life of mine | 07 Years | |
| Transportation details | The broken material will be transported using Dumpers | |
| Dumpers capacity | 40/50/60 tons (BEML dumpers) | |

7. Land Area Breakup:

| | |
|-------------------------|----------|
| Private land | 81.50 ha |
| Government land | - |
| Total Mining lease area | 81.50 ha |

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

| Particulars | Particular's Name | Distance & Directions |
|-------------|-------------------|------------------------|
| Town | Jhinkapani | 2.54 Km East direction |
| Highway | NH-75 | 2.43 Km E |

| | | |
|-----------------|---|---|
| Railway station | Jhinkpani Railway Station | 3.65 Km NE |
| Water bodies | Jambira Nala from Block F - Lake (showing only in google earth) - Pond near Jhinkpani Colony (Showing only in Topo Map) Pond near Rajanka - Gumua Gara - Surniyana Gara - Iii Gara - Baddiri Talab - Roro Gara - | Adjacent to F block Adjacent to F block 0.4 km ENE 1.12 km NE 4.04 km NNE 4.10 km West 4.67 Km West 7.99 Km SE 9.69 km NW |

9. Water requirement

| | | | |
|-------------------------|--|-----------------------|---------|
| Total water requirement | 193 KLD | Sprinkling | 160 KLD |
| | | Greenbelt | 26 KLD |
| | | Workshop | 2 KLD |
| | | Drinking and Domestic | 5 KLD |
| Source | The drinking water requirement is 5 KLD which will be obtained from a nearby cement plant of ACC Ltd. via pipeline rest water will be sourced through seepage water from mine sump | | |
| Permission | Permission will be obtained from CGWB | | |

10. Presence of Environmentally Sensitive areas in the study area

| Forest Land/Protected Area/Environmental Sensitivity Zone | Yes/No | Details |
|---|--------|--|
| Forest Land | Yes | Protective Forest No. 168 from F block - Near to Block F Protective Forest from Block F - 0.40 Km E Siringsiya Protective Forest No.78 from Block E - 0.68 km ESE Protective Forest near Baralisia from Block F1- 2.13 km E Siringsiya Protective Forest No.32 from Block E - 2.32 km SSW Protective Forest near Dudiabasa from Block A- 2.68 km SE Protective Forest near Loksai from Block F1.- 3.23 km ESE Durula Protective Forest 31 from Block E - 3.31 km SW |
| National Park | No | |
| Wildlife Sanctuary | No | |

| | | |
|--|--|---|
| | | <p>Protective Forest near Janumpi from Block A - 3.55 km ESE</p> <p>Talaburu Protective Forest from Block E - 4.12 km E</p> <p>Protective Forest near Nawagaon from Block F1 - 4.48 km ESE</p> <p>Bidri Protective Forest from Block E - 5.44 km ESE</p> <p>Jojokabir Protective Forest No.33 from Block F - 6.65 km WSW</p> <p>Protective Forest No.30 from Block L - 6.71 km E</p> <p>Sahedba Reserve Forest from Block Q - 7.64 km NNW</p> <p>Bichaburu Protective Forest from Block E - 8.09 km SE</p> <p>Kokcho Protective Forest from Block G - 9.12 km ENE</p> <p>Anjadbera Protective Forest from Block N - 9.23 km WNW</p> <p>Protective Forest No. 30 A from Block N- 9.53 km WNW</p> |
|--|--|---|

11. Green belt/plantation details:

| | |
|---|--|
| Proposed area for green belt/plantation | Till now 0.16 Ha of plantation has been developed in 7.5 m safety zone and 26.99 ha in backfilled area. Further 12.04 Ha of backfilled area is proposed to be afforested at the end of the mine life |
| Budget for green plant & plantation till the end of life of mine. | Rs. 132000 which includes plantation and maintenance of Plantation for One year |

| Particulars for Green belt/plantation | Area covered (in Ha) |
|---|---|
| 7.5 m barrier & non-mineralized zone | 0.16 |
| 50 m safety zone of nallah, roads, electric lines | - |
| 500 m safety zones of nearest habitation villages | - |
| Additional information | 12.04 ha backfilled area will be restored by plantation |

12. Court case details:

| | |
|------------|--|
| Court Case | No court case/litigation is pending against the project. |
|------------|--|

13. Affidavit/Undertaking details:

| | |
|-----------------------|---------------|
| Affidavit/Undertaking | Not submitted |
|-----------------------|---------------|

14. Previous EC compliance and production details:

| Particulars | Letter no. and date |
|--------------------------------|--|
| Certified EC compliance report | Letter No. 103-82/109/EPE/03 dated: 05/01/2022 duly certified by IRO, Ranchi |
| Certified past production | PP has submitted past production details from 1992-93 to 2015-16 but certified copy has not been received. |

15. ADS Details:

| S.No | ADS Point raised in 40 th EAC Meeting held during 26 th – 27 th October, 2021 | Reply dated 10.01.2022 |
|------|--|--|
| 1 | PP needs to submit latest certified compliance report. | PP has submitted certified compliance report vide letter no. 103-82/109/EPE/03 dated: 05/01/2022 duly certified by IRO, Ranchi |

16. Details of project cost and employment:

| Particulars | Details |
|--------------|-------------|
| Project Cost | 7.5 Crore |
| Employment | 100 persons |

17. Observation and Recommendation of the Committee:

The proposal for Terms of Reference was considered in the 45th EAC (Non-Coal Mining) Meeting held during 24th, 25th and 27th January, 2022. After detailed deliberations made by the Project Proponent and the Consultant, the Committee **recommended** the proposal for Terms of Reference under the provision of Ministry's Notification S.O. 1530 (E) dated 06.04.2018 for Rajanka Limestone Mine (MLA: 81.50 Ha i.e. F Block out of total mine lease area of 598.88 ha) with total excavation of 2.16 MTPA (Limestone: 1.3 MTPA, Waste/OB/Topsoil: 0.86 MTPA) located at Village Rajanka, Dakota, Purna Chaibasa, Kondwa & Indikuri etc., Tehsil Tonto, District West Singhbhum, Jharkhand by ACC Limited 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. Since the Environmental Clearance was granted by MoEF&CC in 2004 for F and F2 Block with a production capacity of 2.11 MTPA of Limestone with a combined area of 145.37 Ha. The EIA/EMP report must address the impacts due to both the blocks for 2.11 MTPA Limestone mining and must address the total excavation i.e. 2.16 MTPA for F Block and the total excavation for F2 Block.
- ii. Public Hearing had already been conducted in 2004 for the same scope and at present there is no change in scope. Therefore, as per Ministry's O.M. dated 16.02.2021 the project proponent shall carry out public consultation instead of public hearing and shall address the concerns of the public in the

- EIA/EMP report. The Project Proponent must ensure that the total excavation from F and F2 Block does not exceed the quantities of overburden, interburden waste and topsoil which indicates for F Block as 0.6 MTPA and for F2 Block needs to be addressed in the EIA/EMP report. The project proponent shall submit a detailed note on the public concerns raised in the earlier Public Hearing and if any non-compliance, submit the reason for the same during the appraisal for Environmental Clearance.
- iii. The Project Proponent should install the continuous ambient air quality monitoring stations in such numbers as per the scientific study and in consultation with CPCB.
 - iv. Since the instant mine lease area falls under Chaibasa area, a letter may be obtained from DFO indicating the distance of this Block from the 'No Go' area and also clearly mentioning that this lease area does not fall under 'No Go' zone.
 - 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 by considering all the mining activity.
 - vi. The Project Proponent should submit the detailed plantation plan in tabular format (year wise for entire life of mine) with proper capital and recurring cost. PP shall undertake the adequate plantation with the seedling of 10 ft height with at least 90% survival rate and the plantation shall be completed within 3 years from the start of mining operations. The casualties of each year shall be replaced every year with new saplings and such number of saplings shall not be counted in the number of saplings proposed to plant in that year.
 - vii. The Project Proponent should submit list of Schedule – I species present in the lease area authenticated by PCCF and the status of National Park/Sanctuary, Biosphere Reserve/Tiger Reserve/Elephant Reserve/any other Reserve, Habitat for migratory birds, Corridor for animals within 10 km of the lease area.
 - viii. The Project Proponent shall incorporate the 3 monthly baseline data monitoring results in the EIA/EMP report for F and F2 Block separately and analyze the results for both the blocks separately as well as altogether.
 - ix. The project proponent must validate the EMP and if the concerns of the public are not totally addressed in the EMP, accordingly a budget provision must be made and incorporate in the fresh EIA/EMP report.
 - x. The project proponent shall submit the details of the proposal of F2 Block submitted to the SEIAA for the record of the Ministry.

Day 2: 25th January, 2022 (Tuesday)

2.1 Proposal for Environmental Clearance of proposed project for Stone Mining from Lolo Stone Deposit (MLA: 6.07 Ha) along with Crushing & Screening plant located at Plot no. - 2392 P, 2402 P, 2403, 2404, 2405 P, 2408 P, 2410 P, 2411 P, 2412 P, Khata no. 184,55 & 25, Mauza: Lolo, Block: Ramgarh,

District: Ramgarh, Jharkhand of M/s Fairmine Resources Limited– [File. No: J-11015/46/2020-IA-II(M), Proposal No: IA/JH/MIN/173744/2020] -Reconsideration of EC

EAC Meeting Details:

| | |
|-----------------|--|
| EAC meeting | 45 th |
| Date of Meeting | 24 th , 25 th and 27 th January, 2022 |

2. Project details:

| | | |
|---|---|--------------------------------|
| Name of the Proposal | Stone Mining from Lolo Stone Deposit along with Crushing & Screening plant, at Plot no. - 2392 P, 2402 P, 2403, 2404, 2405 P, 2408 P, 2410 P, 2411 P, 2412 P, Khata no.184, 55 & 25, Mauza – Lolo, Block – Ramgarh, District –Ramgarh, State – Jharkhand. | |
| Location | Village | Lolo |
| | Tehsil/Taluka | Ramgarh |
| | District | Ramgarh |
| | State / UT | Jharkhand |
| | Latitudes | N23°33'33.64" to N23°33'44.94" |
| | Longitudes | E85°33'53.51" to E85°34'03.40" |
| | SoITopo sheet No. | F45B10 |
| Company's Name | M/sFairmine Resources Ltd. | |
| Accredited Consultant and certificate no. | Crystal Consultants QCI/NABET/ENV/ACO/21/1921 | |
| KML file | Submitted | |
| Seismic zone | II | |

3. Category details:

| | |
|-------------------------|--|
| Category of the project | Category "B", Project or Activity 1(a) – 4 for Mining of Mineral |
| Provisions | EIA Notification dated 14 th September 2006 |
| Mining lease Area | 6.07 Ha |
| General condition | The block is located in Ramgarh District in Jharkhand. This area has been declared as "Severally Polluted Area" by CPCB. |

4. ToR Details:

| | |
|------------------------------------|---|
| ToR Proposal No. | IA/JH/MIN/173744/2020 |
| Online application date for Form-I | 17/09/2020 |
| Documents Submitted | Form – I, Pre-Feasibility Report, Approved Mine Plan, Letter of Intent, KML File, Toposheet, District Survey Report, Cover Letter and Affidavit |
| Previous EAC meeting for ToR | 26/10/2020 |

| | |
|---------------------|--|
| ToR Letter No. | J-11015/46/2020-IA-II(M) |
| ToR grant Date | 12/11/2020 |
| Production capacity | 3,60,872 TPA |
| Total Excavation | 1563201 Tonne |
| Crusher | Yes, semi-mobile crusher with 250 TPH capacity in NW direction of the mine lease site. |
| EIA/EMP uploaded on | 02/10/2021 |

5. Lease Details:

| | | |
|------------------------|---|--|
| Letter of Intent | Issued by | Government of Jharkhand issued LOI after open bidding for Lolo Stone Mining Block measuring 6.07 Ha to M/s Fairmine Resources Limited for mining of stone. |
| | Letter No. | Kha.Ni (Nilami)-04/2019/1852 |
| | Date | 6 th August, 2019 |
| Validity of mine lease | 10 Years | |
| Additional information | The project proponent submitted that there had been illegal mining over a patch of 0.56 ha confined to outcrop. | |

6. ADS Details: The proposal was earlier considered in 41st EAC Meeting held during 15th – 16th November and 18th November, 2021. The Project Proponent submitted the ADS reply on 27th December 2021 which is as follows:

| S. No. | ADS raised in | ADS reply dated |
|--------|---|---|
| 1 | Serious concerns were raised by the public during the public hearing regarding the air pollution and the measures indicated are not adequate to satisfy the people in the location. People have also raised the issues regarding the transportation; therefore, the air quality data has to be monitored again at the site as well as in the villages, along the road as the emission during the transportation has been shown the maximum. The project proponent also needs to submit the proper and | Detailed reply is submitted to MoEF&CC. |

| | accurate micro-meteorological data. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|----------------|-------------|-----------------|-------|--|-------|---------------------------------|-------|-----------|-------|------------|-------|--|-------|-------------------------------------|-------|--|-------|--|-------|---|-------|---------------------------------------|-------|--------------|--------------|----------------------|--|----------------------------|-------|------------------|-------|----------------------------------|-------|-----------------------------|-------|--|-------|--------------|--------------|
| 2 | The project proponent needs to submit the proper control measures to be taken during mining, crushing and transportation. | The Project Proponent has submitted proper control measures to be taken during mining, crushing and transportation. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | The cost of EMP is inadequate. Therefore, the project proponents should include measures for control of noise, vibration and dust separation during blasting and submit. | <p>Revised budget submitted by PP is as follows:</p> <table border="1"> <thead> <tr> <th>Capital Budget</th> <th>Rs. (Lakhs)</th> </tr> </thead> <tbody> <tr> <td>Water Sprinkler</td> <td>10.00</td> </tr> <tr> <td>Garland Drains Decantation Pond Interception channel</td> <td>05.00</td> </tr> <tr> <td>Rain Water Harvesting Structure</td> <td>05.00</td> </tr> <tr> <td>Check Dam</td> <td>10.00</td> </tr> <tr> <td>Green Belt</td> <td>07.00</td> </tr> <tr> <td>Dust Control Measures Crusher House</td> <td>05.00</td> </tr> <tr> <td>Acoustic Screen in Crusher House</td> <td>03.00</td> </tr> <tr> <td>Dust Control Measures for the Drill</td> <td>01.50</td> </tr> <tr> <td>Avenue Plantation along evacuation road</td> <td>03.00</td> </tr> <tr> <td>Culvert on the Nallah crossing the link road</td> <td>05.00</td> </tr> <tr> <td>Socio Economic Development Schemes</td> <td>05.00</td> </tr> <tr> <td>TOTAL</td> <td>59.50</td> </tr> <tr> <td colspan="2" style="text-align: center;">Annual Budget</td> </tr> <tr> <td>Operation & Maintenance</td> <td>05.00</td> </tr> <tr> <td>Road Maintenance</td> <td>05.00</td> </tr> <tr> <td>Chemical for Dust Suppression</td> <td>02.50</td> </tr> <tr> <td>Environmental Monitoring</td> <td>05.00</td> </tr> <tr> <td>Annual Occupation Health Check – Up</td> <td>02.50</td> </tr> <tr> <td>TOTAL</td> <td>20.00</td> </tr> </tbody> </table> | Capital Budget | Rs. (Lakhs) | Water Sprinkler | 10.00 | Garland Drains Decantation Pond Interception channel | 05.00 | Rain Water Harvesting Structure | 05.00 | Check Dam | 10.00 | Green Belt | 07.00 | Dust Control Measures Crusher House | 05.00 | Acoustic Screen in Crusher House | 03.00 | Dust Control Measures for the Drill | 01.50 | Avenue Plantation along evacuation road | 03.00 | Culvert on the Nallah crossing the link road | 05.00 | Socio Economic Development Schemes | 05.00 | TOTAL | 59.50 | Annual Budget | | Operation & Maintenance | 05.00 | Road Maintenance | 05.00 | Chemical for Dust Suppression | 02.50 | Environmental Monitoring | 05.00 | Annual Occupation Health Check – Up | 02.50 | TOTAL | 20.00 |
| Capital Budget | Rs. (Lakhs) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Water Sprinkler | 10.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Garland Drains Decantation Pond Interception channel | 05.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rain Water Harvesting Structure | 05.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Check Dam | 10.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Green Belt | 07.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dust Control Measures Crusher House | 05.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acoustic Screen in Crusher House | 03.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dust Control Measures for the Drill | 01.50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Avenue Plantation along evacuation road | 03.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Culvert on the Nallah crossing the link road | 05.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Socio Economic Development Schemes | 05.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TOTAL | 59.50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Annual Budget | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Operation & Maintenance | 05.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Road Maintenance | 05.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chemical for Dust Suppression | 02.50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Environmental Monitoring | 05.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Annual Occupation Health Check – Up | 02.50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TOTAL | 20.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | The project proponent should also demonstrate the impact of noise and vibration during drilling | The Project Proponent has submitted with the ADS reply. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | |
|---|--|---|
| | and blasting on village Lolo as well noise impacts on the roads particularly in the villages. | |
| 5 | The project proponent should demonstrate the impact of mining on the nala which is being crossed by a kachcha road as well as any impact on Damodar River due to stone mining and crushing in this area as this particular area looks to be rich in stone. | Link Road connecting lease area in Lolo village to NH-33 through evacuation road which is about 3.5 Km long is partly black topped and partly metalled crosses a seasonal Nala. The drainage crossing would consist of a pipe culvert with abutments & splay wall. This would be designed to take load of trucks passing over it. The abutment and splay wall will prevent flow of loose soil to the water stream. This will ensure that the hydrology of seasonal stream is not affected as well quality of stream water is not impacted. Quality of water of this seasonal stream would not be affected by project activities as no waste water generated by project would be allowed to flow into this stream. |
| 6 | As 1203 tonnes per day will be excavated as per the plan given, no. of trucks that will be deployed, the frequency of vehicles and emissions from the vehicles (air and noise both) needs to be computed and mitigated through proper measures | Evacuation of the finished product will generate the additional traffic of 60 Trucks in a day. This works out to 8 trucks per hour which will be approx. 8-9 minutes per vehicles. With this rate of vehicle movement there would not be overlapping of noise produced by one truck with the Truck following it or leading it. Thus, the net noise level close to the evacuation route will be that of noise produced by 1 truck. The observed level of noise is 70 dBA when measured at a distance of 3m from the source. There is also less sound pressure level with increasing distance. With this situation the level of noise in village located at some distance (say 100m) from the highway will be less than the prescribed limit. Normally the human habitations are about 100-200m away from the road. |
| 7 | The project proponent needs to submit an undertaking stating that the quarry seen in the mine lease area through KML file is not done by the present project proponent. The PP also | Undertaking by the PP with the copy of Geological Report published by Dept. of Mines & Geology, Govt. of Jharkhand is submitted. |

| | | |
|---|---|--|
| | needs to submit the copy of Geology report mentioning about the quarry already done. | |
| 8 | The project proponent needs to submit the potential impacts on the protected forest due to dust, since protected forest is only 1.5 kms from the mine lease | Nearest forest is located on south side of the lease area. Its distance from boundary of lease area is 1.5 KM. Prevailing wind direction in the study area has been found to be from NW to SE. Thus, air pollutants generated by project activities would impact air quality on area lying in SE quadrant. Using AERMOD versin-9.0 prediction of project activities on air quality have been drawn for study area. It has been concluded from the study that contribution of air pollutants generated by project activities have insignificant impact at a distance of 1.5KM from lease area. Present level of PM10 near the forest has been observed as 61.1 Mg/m ³ . Hence net level of PM10 near forest would be a little over this value. Impact of project activities on ambient air quality is confined to area covered under 100-200 m from lease area. Thus, impact of project activities on the nearest forest would not be significant. |

7. Details of the EMP

| Capital Budget | Rs. (Lakhs) |
|--|--------------|
| Water Sprinkler | 10.00 |
| Garland Drains Decantation Pond Interception channel | 05.00 |
| Rain Water Harvesting Structure | 05.00 |
| Check Dam | 10.00 |
| Green Belt | 07.00 |
| Dust Control Measures Crusher House | 05.00 |
| Acoustic Screen in Crusher House | 03.00 |
| Dust Control Measures for the Drill | 01.50 |
| Avenue Plantation along evacuation road | 03.00 |
| Culvert on the Nallah crossing the link road | 05.00 |
| Socio Economic Development Schemes | 05.00 |
| TOTAL | 59.50 |
| Annual Budget | |
| Operation & Maintenance | 05.00 |
| Road Maintenance | 05.00 |
| Chemical for Dust Suppression | 02.50 |
| Environmental Monitoring | 05.00 |

| | |
|-------------------------------------|--------------|
| Annual Occupation Health Check – Up | 02.50 |
| TOTAL | 20.00 |

8. Details of project cost and employment:

| Particulars | (Rs. In Crore) |
|---|--|
| Capital Cost for Environment Protection | 0.4853 |
| Budget for addressing the Public Hearing issues | Rs. 5,00,000.00 for road maintenance & environment pollution control measures Rs. 48,53,000.00. |
| Total Cost for EMP | 0.4853 |
| Recurring Cost for EMP | 0.15 |
| Project Cost | 4.7645 |
| Employment | 39 persons |

9. Observation and Recommendation of the Committee:

The proposal for Environmental Clearance was considered in the 45th EAC (Non-Coal Mining) Meeting held during 24th, 25th and 27th January, 2022. After detailed deliberations made by the Project Proponent and the Consultant, the Committee noted that the reply for additional details sought in 41st EAC Meeting held during 15th – 16th November and 18th November, 2021 was not satisfactory. Also, the Committee observed that air quality monitoring stations are not installed at appropriate places, noise level results do not seem to be correct, and isopleths are not appropriate. The Committee also noted that the mine lease area falls under 'severely polluted area' declared by CPCB. Therefore, the Committee **deferred** the proposal due to want of following information:

- 1) Air quality data generated as per the earlier ADS point no. 1 must be strengthened further by installing at least three stations at the downwind direction, one station in the core zone and one station as already installed in upwind direction. Data must be collected by a NABL accredited laboratory.
- 2) Noise and vibration given that the noise levels at the source are in the range of 85-95 decibels and after the proposed noise barrier, it is reported in the range of 34-38 decibels. A supporting data through the case studies needs to be submitted for the review by EAC. Noise monitoring data is also appeared to be less than the actual levels. Therefore, this also needs to be re-done at the sensitive receptors and submit accordingly. The project proponent also needs to submit the detail of equipment's used for monitoring.
- 3) Maintenance of village road during transportation from mine to Highway as well as control of dust was indicated to left to local villagers. How the villagers would use the same road, should be properly demonstrated. The project proponent also needs to submit the potential impacts on the villager's movement due to transportation and risk of accidents, if any, needs to be examined and submit.

- 4) Fixing permanent sprinklers from crusher to the mine should be explored and submit the undertaking regarding the same.
- 5) Better environmental technologies for drilling and blasting such as rotary drill be examined and submit.
- 6) The project proponent needs to submit the laboratory report of the monitoring results and the actual photographs needs to be submitted.

2.2 Proposal for extension of validity of Environmental Clearance vide letter dated 23rd January, 2018 for mining of Granite Building Stone in the mine lease area of 3.9364 Ha of Smt. Annamma Antony located at Village: Pindimana, Tehsil: Kothamangalam, District: Ernakulam, Kerala – [File. No: IA-J-11015/6/2022-IA-II(NCM); Proposal No: IA/KL/MIN/248153/2021] - Validity Extension of EC

EAC Meeting Details:

| | |
|-----------------|--|
| EAC meeting | 45 th |
| Date of Meeting | 24 th , 25 th and 27 th January, 2022 |

The proposal of Smt. Annamma Antony is for grant of validity extension of Environmental Clearance for mining of Granite Building Stone in the mine lease area of 3.9364 Ha located at Village: Pindimana, Tehsil: Kothamangalam, District: Ernakulam, Kerala. The mine lease area is located between Latitude 10°07'49.27" N 10°07'58.76" N and Longitude 76°38'37.57" E 76°38'46.28" E. The mine lease area falls in seismic zone III. The consultant for this project is Geo Exploration and Mining Solutions, Salem, certificate no. NABET/EIA/1922/SA 0139 with validity upto 06.08.2022.

2. Smt. Annamma Antony has made an online application vide proposal no: IA/KL/MIN/248153/2021 dated 28.12.2021 and submitted Form 6, certified compliance report dated 23.12.2021, past production details, EC letter dated 23.01.2018 valid for 5 years, CTO, approved mining plan details, authorization letter for the project mentioned above. The category of the project is Category "B", Project or Activity 1(a) – 4 for Mining of Mineral as per EIA Notification S.O. 1533 (E), dated 14th September 2006 and subsequent amendments. The project proponent applied at MoEF&CC as SEIAA, Kerala does not exist at present.

3. The Project Proponent submitted that Environmental Clearance was granted by SEIAA, Kerala vide letter no. P/6567/2017 dated 23.01.2018 which is valid till 22.01.2023 for 1,70,000 Metric Tonnes per annum of Granite Building Stone. The project proponent has requested to extend the validity of EC till the life of mine. The project proponent submitted that the Letter of Intent (LOI) was issued vide letter no. 7079/M3/2017 dated 04.08.2017 which is valid till 16.02.2030. The Mining plan is approved by vide letter no. DOE/1985/E2/2017, dated 20/09/2017. The mine lease area of 3.9364 Ha is a private land.

4. The Project Proponent submitted that mining is carried out by opencast mechanized mining method with no deep drilling and blasting. Life of mine is 12 years. The material is transported by 10 to 20 tonnes of tippers. There is a Thattekad Bird Sanctuary which is 3.21 Km in Northeast direction. The project proponent has submitted the latest certified compliance report vide letter no. EP/12.1/07/DEIAA/KER 1203 dated: 23.12.2021. The total water requirement for the project activity is 15 KLD. The project cost is 1 Crore and manpower requirement is 20 persons.

5. Observation and Recommendation of the Committee:

The proposal for validity extension of Environmental Clearance was considered in the 45th EAC (Non-Coal Mining) Meeting held during 24th, 25th and 27th January, 2022. After detailed deliberations made by the Project Proponent and the Consultant, the Committee noted that Environmental Clearance was granted by SEIAA, Kerala vide letter no. P/6567/2017 dated 23.01.2018 which is valid till 22.01.2023. The Committee informed the project proponent that re-constitution of committee of SEIAA, Kerala is under active consideration in the Ministry and since the EC is valid for another one year, the Project Proponent shall apply for extension of validity at appropriate time to concerned regulatory authority. Therefore, the Committee **returned the proposal in the present form.**

2.3 Proposal of Terms of Reference under the provision of Ministry's Notification S.O. 1530 (E) dated 06.04.2018 for Khandel Ki Pal Soapstone and Dolomite Mine (Old ML No. 7/84, New ML No. 1/2003) in the mine lease area of 156.310 ha which is a forest land, out of which 34.22 ha is diverted forest land with the production capacity of 16,000 TPA for Soapstone and 15,200 TPA for Dolomite located near Village: Khandel Ki Pal, Tehsil: Salumber, District: Udaipur, Rajasthan of M/s Mahaveer Trading Company – [File. No: J-11015/21/2005- IA.II (M), Proposal No: IA/RJ/MIN/77624/2018] - Reconsideration for ToR

EAC Meeting Details:

| | |
|-----------------|--|
| EAC meeting | 45 th |
| Date of Meeting | 24 th , 25 th and 27 th January, 2022 |

2. Project details:

| | | |
|----------------------|--|----------------|
| Name of the Proposal | Khandel Ki Pal Soapstone and Dolomite Mine (Old ML No. 7/84, New ML No. 1/2003) with the production capacity for mineral Soapstone is 16,000 MTPA and Dolomite is 15,200 MTPA in the mine lease area of 156.310 ha out of which 34.22 ha of forest | |
| Location | Village | Khandel Ki Pal |
| | Tehsil/Taluka | Salumber |

| | | |
|----------------|------------------------------|-----------------------------------|
| | District | Udaipur |
| | State / UT | Rajasthan |
| | Latitudes | 24°05'37.48" N to 24°06' 50.88" N |
| | Longitudes | 74°10'52.48" E to 74°11'51.01" E |
| | SoI Topo sheet No. | 45L4 |
| Company's Name | M/s Mahaveer Trading Company | |
| KML file | Submitted | |
| Seismic zone | Seismic zone II | |

3. Category details:

| | |
|-------------------------|--|
| Category of the project | Category "A", Project or Activity 1(a) – 3 for Mining of Mineral |
| Provisions | As per EIA Notification S.O. 1533 (E), dated 14 th September 2006 and Ministry's Notification S.O. 1530 (E) dated 06.04.2018 and subsequent amendments |
| Mining lease Area | The total mine lease area is 156.31 Ha which is a forest land. Forest Clearance was granted for diversion of 34.22 Ha on 08.01.1998. Remaining 122.09 ha is in possession of Forest Department. |
| Aravalli Range | The Project Proponent submitted that mine falls in Aravalli range. However, vide Supreme Court order no. 301 & 304 renewal was allowed by forest department and mining department vide Govt. order no. F-5(110)Khan/Gr.-2/2005 on dated-25/11/2006 for 20 years and co-terminus with mining lease. |

4. ToR/EC Details:

| | |
|------------------------------------|---|
| ToR/EC Proposal No. | IA/RJ/MIN/77624/2018 |
| Online application date for Form-I | 04/09/2018 |
| Documents Submitted | Form-I, PFR, KML file, Production certificate, Executive summary, Previous EC |
| Previous EC Letter No. | J-11015/22/2005-IA.II(M) |
| EC grant Date | 07.09.2005 |
| Earlier Public Hearing details | The Public Hearing was earlier conducted on 27.12.2004 for the Khandel Ki Pal Soapstone and Dolomite Mine for the area of 156.310 ha for minerals Soapstone: 16,000 TPA, Dolomite: 15,200 TPA and Marble: 1,00,000 TPA. |
| Submission of Project Proponent | There will be no change in area of lease, diverted area, production, technology and investment. |
| Production capacity | Mineral Soapstone-16,000 TPA, Dolomite- 15,200 TPA Dolomitic Block (Marble)- 1,00,000 TPA |

| | |
|----------------------|--|
| Waste | 1,54,266 MTPA |
| Total Excavation | 2,71,003 MTPA |
| Earlier EAC meetings | The proposal was considered in the 37 th EAC Meeting held during 15 th to 17 th September 2021 wherein the Committee deferred the proposal due to shortcomings. |

5. Lease Details:

| | | |
|------------------------------|--|---------------------------------------|
| Granted Mining Lease | Area | 156.31 ha |
| | Lease deed execution date | 14/5/1965 |
| | ML No. | Old ML No. 7/84, New ML No. 1/2003 |
| | The Mining lease for mineral Soapstone mineral was originally granted to M/s Oriental Talc Products Pvt. Ltd., Udaipur vide Govt. order no. F-3(1) (5)IND/65/1826 on dated-26/02/1965. The lease deed was registered on dated 24/06/1965 for 20 Years. (14/05/1965 to 13/05/1985). | |
| First renewal of mine lease | The mining lease was first renewed in favor of M/s Oriental Talc Products Pvt. Ltd., Udaipur vide Govt. order no. F-2(41) Khan/Gr.-2/85 on dated- 02/03/1987. The lease deed was executed on dated- 25/08/1987 and the lease deed was registered on dated 28/08/1987 for 20 Years. (14/05/1985 to 13/05/2005). | |
| Transfer of mine lease | The mining lease was transferred in favor of M/s Mahaveer Trading Company vide order No. P-12(4)/Khan/II/85 on dated- 21/05/1988. | |
| Second renewal of mine lease | The second mining lease renewal was granted for an area of 156.310 ha in favour of M/s Mahaveer Trading Company vide Govt. order no. F-5(110)Khan/Gr.-2/2005 on dated-25/11/2006. The lease deed was executed on dated- 17/01/2007 and the lease deed was registered on dated 20/01/2007 for 20 Years. Mining lease is renewed from 14/05/2005 to 13/05/2025 | |
| Validity of mine lease | Valid upto 31.03.2030 | |

6. Mining plan details:

| | | |
|--|---------------------------------|--|
| Mining Plan (approved by Indian Bureau of Mines/DMG) | Letter No. | No.SME/Udai.-CIR/Mine-Scheme/Salu./F-01/2020/491 |
| | Date | 22/07/2020 |
| | Validity | 5 years |
| Mining Parameters | Quantitative Description | |
| Bench Height | 6 m | |
| Bench Width | 6 m | |
| Method of Mining | Underground and opencast mining | |

| | |
|------------------------|--|
| Individual bench slope | 45° |
| Overall pit slope | - |
| Drilling/Blasting | - |
| RoM output size | 2,71,003 MTPA |
| Life of mine | 23 years at the end of current mining plan |
| Transportation details | By dumpers |
| Dumper's capacity | 10 to 20 tonnes |

7. Land Area Breakup:

| | |
|-------------------------------|-----------|
| Private land | Nil |
| Government land | 156.31 ha |
| Total Mining lease area (MLA) | 156.31 ha |

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

| Particulars | Particular's Name | Distance & Directions |
|-------------------------|-------------------|-----------------------|
| Nearest Village | Ghatet | 7 km SW |
| Nearest Town | Salumber | 34 km W |
| Nearest City | Udaipur | 70 km NW |
| Nearest Railway station | Sur KhandkaKhera | 26 km W |
| Nearest Highway | SH-32 | 12.46 km SW |
| River | Sarininadi | 3 km N |
| River | Chamlanadi | 4 km E |

9. Water requirement

| | | | |
|-------------------------|----------------|---------------|--|
| Total water requirement | 22 KLD | Fresh water | |
| | | Treated water | |
| Source | Mine water | | |
| Permission | Not applicable | | |

10. Presence of Environmentally Sensitive areas in the study area

| Forest Land/Protected Area/Environmental Sensitivity Zone | Yes/No | Details of Certificate/letter/Remarks |
|---|--------|---|
| Forest Land | Yes | The mine lease area falls in Sarvadvan Reserved Forest. Diversion of 34.22 ha of Forest land for Renewal of mining lease ML No. 7/84 vide letter no.F.No.8-95/ 2004-FC dated 29th June 2005 and is valid up to 13/5/2025. |
| National Park | No | |
| Wildlife Sanctuary | No | |

11.Green belt/plantation details:

| | |
|---|--|
| Proposed area for green belt/plantation | 4.46 ha |
| Budget for green plant & plantation till the end of life of mine. | Approx Rs. 2 lacs per year. Rs. 1.4 Crore already given to Govt in against NPV of forest land |

| | |
|--|-----------------------------|
| Particulars for Green belt/plantation | Area covered (in Ha) |
|--|-----------------------------|

| | |
|---|---------|
| 7.5 m barrier & non-mineralized zone | 1.75 ha |
| 50 m safety zone of nallah, roads, electric lines | 2 ha |

12. Court case details:

| | |
|------------|---|
| Court Case | No court case is pending against the project. |
|------------|---|

13. Previous EC compliance and production details:

| Particulars | Letter no. and date |
|--------------------------------|---|
| Certified EC compliance report | The Project Proponent has submitted the certified compliance report dated 20 th December 2021 duly certified by IRO, Jaipur. |
| Certified past production | The Project Proponent has submitted the certified past production figures dated 6 th September 2021 duly certified by AME, Department of Mines & Geology, Rajasthan. |
| District Survey Report | The Project Proponent submitted during the presentation that authentication of DSR is in process. |

14. ADS Details: The proposal was earlier considered in the 37th EAC Meeting held during 15th to 17th September 2021. The Project Proponent submitted the ADS reply on 22nd December 2021 which is as follows:

ADS 1: Project Proponent needs to submit the latest certified compliance report from IRO.

Reply: The Project Proponent has submitted the certified compliance report dated 20th December 2021 duly certified by IRO, Jaipur.

ADS 2: From the KML file it appears that the mining plan is not properly adhered and after obtaining the EC, only underground mining has been undertaken, in contrary to EC which was for both open cast and underground. The project proponent needs to submit the clarification of the same.

Reply:

- Mining plan is adhered to. Pit No 3, 5, 6, 7 and 8 were initially opened by opencast method. Due to higher stripping ratio they became uneconomical due; so we had to switch over to underground method. In opencast method bench height and width were kept 3 m by 3m. Drilling was done by Jackhammer and blasting was with very lightly charged explosive.
- This year also PP is opening a pit by opencast method for soapstone and Dolomite (Under Scheme of Mining 2002-2025).
- As regard Dolomitic Block (Marble) Mechanized mining initial Capital-intensive Heavy Earth Moving Machine will incur very high cost and during currency of mining it has to be further examined in perspective of depressed market in marble and very

high GST but our planning for mining of marble still stands. All pits are not amenable to O/C mining due to very high stripping ratio.

ADS 3: The Project Proponent has not carried out plantation in the peripheral area, dump etc. as per previous EC condition stipulation. The project proponent needs to submit the current status and plan of greenbelt and plantation.

Reply:

- Under FC conditions PP carried out plantation on approach roads with in mines and near office. PP erected safety zone of 7.5 width on periphery of diverted area with inner and outer walls (at pillar) by masonry stone and being maintained. Plantation in safety zone is done by Forest Deptt but PP is maintaining it by providing logistic support and supply of water. The selection of plant and its growth and survival is in domain of forest department. On inoperative waste /Overburden dumps we do plantation.
- Under EC Specific Condition No (iv) initially green belt was raised by planting the native plant species all around the periphery of ML area in consultation with DFO/Agriculture deptt. The density of trees was around 1000 trees per ha.
- At present Overburden/Waste dumps are in operation. When they will become inoperative then plantation will be done over them with support of dump slope by Iron Wires Mesh Support Net.
- There is propensity of poor plant growth in hilly terrain; since it is devoid of any Soil on it. Without soil survival rate of plants is very poor say 30%. There is very poor rainfall and there is no water source. Weather is also dry so poor moisture content. Watering of plants is done by accumulated rain water in depressed ground.

ADS 4: The Project Proponent also had no clarity on the proposal of soapstone, marble and dolomite. Hence, the production capacity of mineral soapstone is 16,000 MTPA and dolomite is 15,200 MTPA. There is only a mention of dolomitic block for which permission has to be obtained from the State Authority. However, it appears that permission for dolomitic block has not been obtained yet. Therefore, the project proponent needs to clarify whether this proposal comes only under Ministry's Notification S.O. 1530 (E) dated 06.04.2018 or should it be considered for expansion.

Reply: Ministry's Notification S.O. 1530 (E) dated 06.04.2018 is applicable and it is not a case for expansion. Production for Soapstone is 16000 TPA, 15200 TPA of Dolomite and 1,00,000 TPA of marble (Dolomite Blocks). Though there are more than one issues to be addressed before going for Dolomitic Block Mining.

ADS 5: The total excavation indicated is 2,71,000 MTPA. The project proponent needs to clarify whether this quantity of excavation was taken into

consideration at the time of preparation of EIA/EMP report earlier which was also presented in the public hearing in 2004.

Reply: Yes, this quantity of excavation was taken into consideration at the time of preparation of EIA/EMP report earlier which was also presented in the public hearing in 2004.

ADS 6: Since, only underground mining has been undertaken; the waste generation will be restricted to only 7000 tonnes. Therefore, the two figures of 40,000 indicated in the soapstone and dolomite and 1,30,000 mentioned in the dolomitic block has to be a part of EIA/EMP report on which the EC was granted.

Reply: The indicated figures are as per mining plan and EIA/EMP report taken into consideration at the time of EC and which was also presented in the public hearing. There has been no increase in any manner.

ADS 7: The project proponent needs to submit the DMG certified past production details as per the granted EC.

Reply: The Project Proponent has submitted the certified past production figures dated 6th September 2021 duly certified by AME, Department of Mines & Geology, Rajasthan.

ADS 8: The project proponent needs to submit the bifurcation details of open cast and underground mining as per the approved mining plan.

Reply: 500 Tonnes Soapstone by opencast and 15,500 by underground.

ADS 9: The project proponent needs to submit the final outcome of Hon'ble Supreme Court in Contempt Petition (C) no. 412/2004 in IA no. 833 in Writ Petition (C) No. 202 of 1995 as mentioned in specific condition (i) of EC granted on 07.09.2005.

Reply:

- This case is related to the mining in Aravalli range.
- On 16.12.2002 after hearing all the parties and the State of Rajasthan and Haryana pleading for the modification and clarification of earlier order dated 30.10.2002, this Hon'ble Court pleased to modify order dated 30.10.2002 in so far as the State of Rajasthan is concerned to the following effect.
- The Hon'ble Supreme Court modified and amended of order of 30/10/2002 and gave order on 16/12/2002 " Wherever requisite approvals in the said state have been obtained under FC Act and EP Act , and the mining is not prohibited under the applicable Acts or notifications or orders of the court, mining can continue and to such mining the order aforesaid will not apply.
- The Hon'ble Supreme Court has ordered to stop the mining operations where the renewals of leases are pending and has allowed the mining where the renewal of the leases are already done. Since the renewal of our lease was already done, hence mining operation in our lease is being continued.

- The present status of the said court case and Specific Condition (i) is unchanged. Since the Supreme Court order is Interim Order. It will subject to Final Outcome of Hon'ble Supreme Court Status Contempt Petition and Writ Petition as mentioned is specific condition (i) EC granted on 07.09. 2005 stand and prevail.

15. Details of the EMP:

| Activities | Capital cost (Crores) | Recurring cost (Lakhs/annum) |
|---------------------------------|-----------------------|------------------------------|
| Dust Suppression & Wet Drilling | 0.20 lacs | 3.5 |
| Pollution Monitoring | - | 0.20 |
| Green Belt | - | 2.30 |

16. Details of project cost and employment:

| Particulars | Details (Rs. In Crore) |
|---|------------------------|
| Capital Cost for Environment Protection | 1.4 Crore |
| Recurring Cost for EMP | 6 lakhs per annum |
| Project Cost | 7.5 Crore |
| Employment | 150 persons |

17. Observation and Recommendation of the Committee:

The proposal for Terms of Reference was considered in the 45th EAC (Non-Coal Mining) Meeting held during 24th, 25th and 27th January, 2022. After detailed deliberations made by the Project Proponent and the Consultant, the Committee **recommended** the proposal for Terms of Reference under the provision of Ministry's Notification S.O. 1530 (E) dated 06.04.2018 for Khandel Ki Pal Soapstone and Dolomite Mine (Old ML No. 7/84, New ML No. 1/2003) in the mine lease area of 156.310 ha which is a forest land, out of which 34.22 ha is diverted forest land with the production capacity of 16,000 TPA for Soapstone and 15,200 TPA for Dolomite located near Village: Khandel Ki Pal, Tehsil: Salumber, District: Udaipur, Rajasthan of M/s Mahaveer Trading Company 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:-

- Since the Public Hearing had already been conducted in 2004 for the same scope i.e., production of Soapstone-16000 TPA, Dolomite 15,200 TPA and associated waste generation and at present there is no change in lease area, diverted area, production and technology, as per Ministry's O.M. dated 16.02.2021 the project proponent shall carry out public consultation instead of public hearing and shall address the concerns of the public in the EIA/EMP report. The Project Proponent shall submit a detailed note on the public concerns raised in the Public Hearing dated 27.12.2004 and if any non-compliance, submit the reason for the same during appraisal for EC.

- ii. The Project Proponent should install the continuous ambient air quality monitoring stations in such numbers as per the scientific study and in consultation with CPCB.
- iii. The Project Proponent should prepare the EMP considering the scenario of pollution to be generated for normative and peak total excavation for assessing air and noise pollution by considering all the mining activity.
- iv. The Project Proponent should submit the detailed plantation plan in tabular format (year wise for entire life of mine) with proper capital and recurring cost. PP shall undertake the adequate plantation with the seedling of 10 ft height with at least 90% survival rate and the plantation shall be completed within 3 years from the start of mining operations. The casualties of each year shall be replaced every year with new saplings and such number of saplings shall not be counted in the number of saplings proposed to plant in that year.
- v. The Project Proponent should submit list of Schedule – I species present in the lease area authenticated by PCCF and the status of National Park/Sanctuary, Biosphere Reserve/Tiger Reserve/Elephant Reserve/any other Reserve, Habitat for migratory birds, Corridor for animals within 10 km of the lease area.
- vi. The Project Proponent must establish the permanent air quality monitoring stations as indicated in the earlier Environmental Clearance dated 07.09.2005.
- vii. The Project Proponent shall submit the details of total excavation and the EIA/EMP report shall be prepared based on the total excavation.
- viii. The Project Proponent shall update the Wildlife Conservation plan to current status with recent information and approve by PCCF and submit it along with the EIA/EMP report.
- ix. The Project Proponent shall incorporate the 3 monthly baseline data monitoring results in the EIA/EMP report.
- x. The applicability of any court decision which is mentioned in ADS point 9 of the 37th EAC meeting shall remain in place.
- xi. The Environmental Clearance dated 07.09.2005 mentions about the area of 14.20 Ha of open cast and 20 Ha underground mine. The Project Proponent shall submit the breakup of excavation from underground and open cast. PP shall also address the issues of both separately and altogether in the EIA/EMP report. PP shall also specifically delineate the areas of open cast (14.2 Ha) and underground (20 Ha) on the map.
- xii. The project proponent shall submit the methodology and risk associated with the underground mining in EIA/EMP report.
- xiii. The project proponent shall submit the current status of transportation with potential impacts on the air quality and noise levels in the study area.

2.4 Proposal for Environmental Clearance of M/s Satish Kumar Garg & Company for Proposed Mine with Production Capacity of Quartz: 0.14 MTPA,

Feldspar: 0.52 MTPA, Barites: 0.001 MTPA, Quartzite & Stone (Road Metal & Masonry Stone): 8.42 MTPA & Soil: 1.0 MTPA, (Total Excavation: 10.081 MTPA) along with 4 Mobile Crushers with (4 x 300) TPH Capacity in the mine lease area of 79.32 ha, located at Village: Musnota, Tehsil: Narnaul, District: Mahendragarh, Haryana – [File. No: IA-J-11015/14/2021-IA-II(M), Proposal No: IA/HR/MIN/197727/2021; Consultant: J.M. EnviroNet Pvt. Ltd.] - Environmental Clearance (EC).

EAC Meeting Details:

| | |
|-----------------|--|
| EAC meeting | 45 th |
| Date of Meeting | 24 th , 25 th and 27 th January, 2022 |

The proposal of M/s Satish Kumar Garg & Company is for mining of 'Quartz, Feldspar, Barites, and Quartzite & Stonewith production capacity of Quartz: 0.14 MTPA, Feldspar: 0.52 MTPA, Barites: 0.001 MTPA, Quartzite & Stone (Road Metal & Masonry Stone): 8.42 MTPA & Soil: 1.0 MTPA, (Total Excavation: 10.081 MTPA) along with 4 Mobile Crushers with (4 x 300) TPH capacity in the mine lease area of 79.32 ha, located at Village: Musnota, Tehsil: Narnaul, District: Mahendragarh, Haryana. The mine lease area is located between Latitude: 27°51'56.85" N to 27°52'27.02" N and Longitude 76°01'06.56"E to 76°01'43.23" E. The mine lease area falls under the Survey of India Toposheet No: G43E1, H43W4 & G43D13 and falls in Seismic Zone-III. The Project Proponent presented the KML file during the presentation to indicate the location of mine lease on Google Earth.

2. M/s Satish Kumar Garg & Company has made an online application vide proposal no. IA/HR/MIN/197727/2021 dated 04.01.2022 along with Form 2 and EIA Report 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 interstate boundary of Haryana-Rajasthan is located about ~3.0 km, S from the mine lease boundary.

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

| Date of application | Proposal No | Consideration | Details | Date of accord |
|---------------------|-----------------------|---|---|----------------|
| 11.02.2021 | IA/HR/MIN/197727/2021 | 24 th - 26 th Feb, 2021 | Production Capacity Quartz: 0.14 MTPA, Feldspar: 0.52 MTPA, Barites: 0.001 MTPA, Quartzite & Stone (Road Metal & Masonry Stone): 8.42 MTPA & Soil: 1.0 MTPA, (Total Excavation: 10.081 MTPA) along with 4 | 23.03.2021 |

| | | | | |
|--|--|--|--|--|
| | | | Mobile Crushers with (4 x 300) TPH Capacity in the mine lease area of 79.32 ha | |
|--|--|--|--|--|

4. The Project Proponent submitted that the mining lease deed executed on 29.04.2002 for Barites, Feldspar and Quartz for a period of 20 years. Further, Mines and Geology Department, Haryana has added Associated Minor Minerals (Quartzite & Stone) vide Memo no. Glg/Hy/E-2625/4245, dated 29.08.2018. PP also submitted the Supplementary mining lease deed executed on 14.03.2019 between the Governor of Haryana and M/s Satish Kumar Garg & Company on addition of Quartzite & Stone, minor minerals and the lease period extended for a period of 50 years i.e., from 29.04.2002 to 28.04.2052 for excavation of 'Quartz, Feldspar, Barites, and Quartzite & Stone, minor minerals.

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

| | |
|---|----------|
| Private land | Nil |
| Government land | 79.32 ha |
| Total Mining lease area (MLA) | 79.32 ha |
| Private land for crusher, workshop & other infrastructure outside the MLA | Nil |

6. Details of Mine Plan:

| | | |
|--|---|--|
| Modified Mining Plan along with the Progressive Mine Closure Plan approved by Department of Mines and Geology, Haryana | Letter No. | DMG/HY/MP/Musnota/415-418 |
| | Date | 02.02.2021 |
| | Validity | 01.01.2021 to 31.12.2025 |
| | Mineral | Quartz, Feldspar, Barites, and Quartzite & Stone, minor minerals |
| | Mine lease area | 79.32 ha |
| Mining Parameters | Quantitative Description | |
| Method of Mining | Opencast mechanized method | |
| Total Geological Resources | Quartzite & Stone: 184.85 Million Tonnes Quartz: 1.26 Million Tonnes Feldspar: 21.24 Million Tonnes | |
| Mineable Reserves | Quartzite & Stone: 146.02 Million Tonnes Quartz: 1.02 Million Tonnes Feldspar: 16.89 Million Tonnes | |
| Life of Mine | Quartzite & Stone: 17 Years Quartz: 12 Years Feldspar: 34 Years Life of mine as per Barite Production: It is not possible to establish the | |

| | |
|----------------------------|--|
| | <p>exact reserves of barite in the absence of exploratory data. Only surface inferences show the existence of thin veins of barite. The reserves may be a few thousand tones. Actual quantity will be established once the mine is operative and actual exploration is done. In view of the coexistence of different minerals in the same area, selective mining will be done. Systematic bench formation will be done and whatever minerals come in the way, the same will be mined & segregated.</p> |
| Bench Height | 9 m |
| Bench Width | 15-20 m |
| Individual bench slope | 80° |
| Overall pit slope | 45° |
| Drilling/Blasting | The drilling machines of 110 mm diameter with on board compressor are proposed to be used for primary drilling of blast holes in square and staggered pattern with 4.0 m spacing and 4.0 m burden for 9 m bench height and shall vary depending on variable bench height. Secondary blasting will be minimized by deploying hydraulic rock breaker for breaking large size of stone/boulders. |
| Transportation details | Excavated mineral will be transported from mine face to the crusher (4 Mobile Crushers with 300 TPH Capacity to be installed within the ML Area) & also to the crusher owners located in and around Narnaul and Dholera area by 40 Tonne capacity of dumpers. |
| Topsoil/ Over Burden | PP reported that about 0.03 MTPA of Top Soil will be generated and will be simultaneously used for the greenbelt/plantation and 0.97 MTPA of OB will be generated and will be stacked separately and later on used for the bench plantation. During the plan period about 1.69 MT of the Soil/OB will be generated and at the conceptual period it will be 4.60 MT. |
| Conceptual Land Use | PP reported that at the conceptual stage, total excavated area will be 76.50 ha area, out of which 53.14 ha area will be developed as a water reservoir and remaining 23.36 ha area will be developed as bench plantation and 2.81 ha area will be covered under greenbelt along the 7.5m periphery of the lease. |
| Ultimate Working Depth | 280m AMSL (74m bgl) |
| Water Table | 80 - 90 m bgl |
| Ground water intersection | PP reported that water table will not be intersected due to mine working. |
| Cluster around 500m radius | PP submitted the letter from District Mining Officer vide no. 1396 dated Narnaul dated 06.02.2019 that there is no mine within the radius of 500m. |

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

| Particulars | Villages | Directions |
|-------------------------|---|----------------|
| Nearest Village | Sadha Ki Dhani | ~300 m, NE |
| | Musnota | ~1.0 km, North |
| Nearest Town/ City | Nangal Chaudhary | ~8.0 km, ENE |
| | Narnaul | ~20.0 km, NNE |
| Nearest Highway | SH-37 B | ~9.0 km, South |
| | NH-8 | ~22.5 km, East |
| Nearest Railway Station | Dabla Railway station | ~7.0 km, WNW |
| Water Bodies | <ul style="list-style-type: none"> ➤ Krishnawati Nadi (~6.0 km, East) ➤ Beside this, various village ponds are also present within the study area | |

8. Water requirement

| | | | |
|-------------------------|--|--|-----------|
| Total water requirement | 173.0 KLD, Fresh water: 169.0 KLD Treated water: 4.0 KLD | Wet Drilling, Crushing, Dust Suppression on haul roads | 140.0 KLD |
| | | Plantation and Greenbelt development | 25.0 KLD |
| | | HEMM Washing | 5.0 KLD |
| | | Drinking water & Domestic Purpose | 3.0 KLD |
| Source | Ground Water and Mine sump | | |
| Permission | PP submitted that application has been submitted to CGWA for obtaining permission for ground water abstraction vide application no HWRA/MIN/N/2021/8 dated 21.12.2021 and the same is under process. | | |

9. The Project Proponent reported that there is no forest land within the mine lease area. PP also reported that there is no National Park, Wildlife Sanctuary, Wildlife Corridor, Tiger/Elephant Reserves found within 10km radius of the study area. PP submitted that one Reserve Forest is found at ~3.0km, NW and Protected Forest viz. Kharjo PF, Mina Ka Nangal PF, Dokan PF, Patan PF, Balupura PF, Baneti PF, Balupura PF & Bhopiya PF exists within 10km radius of the study area. PP submitted the No Objection Certificate (NOC) from the Dy. Conservator of Forests, Mahendergarh vide no. 1004 dated 16.09.2002 that village Musnota is not a forest land vide Haryana Notification no. S.O 113/P.A2/1900/S4/3/97 dated 17.11.1997, proposed mining area in Musnota village falls in the purview of Section 4 of Punjab Land Preservation Act. PP also submitted the letter bearing no. 3223 dated 28.10.2016, the office of Dy. Conservator of Forests, Mahendergarh declined to issue No Objection Certificate (NOC) for the purposes of undertaking mining in areas falling under Khasara No. 599, 600, 601 and 626, 627, 648 and 649 in village Musnota on the ground that 'the stated Khasara Nos are included in the list of Aravali Plantation. Further, PP submitted the letter from the Divisional Forest Officer, Mahendergarh issued in compliance to the judgement of the Hon'ble High Court of Punjab & Haryana in CWP No. 2682 of 2018 (O&M) dated 26.04.2018 stating that the letter bearing no:3223 dated 28.10.2016 issued by the Office of Deputy

Conservator of Forests, Mahendragarh be considered as having been rescinded. As a consequence, the NOC granted through letter bearing No. 1004 and 16.09.2002 stands revived and operational along with the conditions included in the said letter for grant of NOC. PP also submitted the letter from the Director General, Mines and Geology, Haryana vide Memo No: Glg/HY/E2625/7045 dated 20.12.2021 stating that the mine lease area is not covered by Aravalli notification i.e., notification dated 07.05.1992 of the MoEF&CC, GoI.

10. The Project Proponent reported that there is one Schedule I faunal species [Indian Peafowl (*Pavo cristatus*)] observed in the study area. PP submitted the Wildlife Conservation Plan approved from the Principal Chief Conservator of Forests & Chief Wildlife Warden, Forests & Wildlife Department, Govt., of Haryana vide Lr No: 2167 dated 06.12.2021 with a budget of Rs 0.40 Cr.

11. Green belt/plantation details

| | |
|---|--|
| Proposed area for green belt/ plantation | 26.18 ha with 65,425 no. of saplings @ 2500 trees/ha. Survival rate will be maintained at 90%. |
| Budget for green plant & plantation till the end of life of mine. | Rs. 98.13 Lakh |
| Budget for nursery | Nil |
| Additional information (if any) | <ul style="list-style-type: none"> i. Greenbelt will be developed along the 7.5m of the lease periphery covering an area of 2.82 ha (7,025 no. of saplings). ii. Bench plantation will be carried out covering an area of 23.36 ha (58,400 no. of saplings). iii. Local and fruit bearing species will be planted after consultation with local forest officer and as per CPCB Guideline. |

12. The Project Proponent submitted the District Survey Report (DSR) prepared in accordance with Para 7 (iii) of S.O 3611(E) dated 25.07.2018.

13. Baseline details:

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

| Period | December, 2020 to February, 2021 | | | | |
|-------------------------------|----------------------------------|-------------------------------|-------------------------------|-----------------------------------|------------------------------------|
| AAQ parameters at 8 locations | Pollutant | Min, $\mu\text{g}/\text{m}^3$ | Max, $\mu\text{g}/\text{m}^3$ | 98 %ile, $\mu\text{g}/\text{m}^3$ | Standard, $\mu\text{g}/\text{m}^3$ |
| | PM2.5 | 24.9 | 51.9 | 51.3 | 60 |

| | | | | | | |
|-------------------------------------|---|--|---|-------------------------------------|----------|--|
| | PM10 | 55.2 | 90.2 | 89.5 | 100 | |
| | SO2 | 5.4 | 15.6 | 15.3 | 80 | |
| | NOx | 11.6 | 27.7 | 27.3 | 80 | |
| AAQ modelling (Incremental GLC) | Pollutant | Baseline Concentration, $\mu\text{g}/\text{m}^3$ | Incremental Concentration, $\mu\text{g}/\text{m}^3$ | Total GLC, $\mu\text{g}/\text{m}^3$ | Standard | |
| | PM2.5 | 38.5 | 1.7 | 40.2 | 60 | |
| | PM10 | 78.8 | 4.4 | 83.2 | 100 | |
| | SO2 | 11.0 | 2.0 | 13.0 | 80 | |
| | NOx | 20.1 | 2.3 | 22.4 | 80 | |
| Noise level at 8 locations | Day Time: 51.6 to 61.7 Leq dB (A) Night Time: 40.1 to 52.4 Leq dB (A) | | | | | |
| Ground water quality at 7 locations | PP submitted that the pH of collected water samples varied from 7.02 to 8.06, Total hardness varied from 122.40 mg/l to 554.40 mg/l, Total dissolved solids varied from 223 mg/l to 948 mg/l and Total suspended solids (DL 1.0) were analyzed and not detected. As the ground water quality is good in the area, the villagers use ground water for drinking purposes and also rain water stored in small tanks, village ponds etc. | | | | | |
| Surface water quality at 1 location | PP submitted that the pH of collected water sample is 7.23 indicating slightly alkaline & productive to water body. The colour and turbidity were of permissible range and odour was found agreeable. Total hardness (65.28 mg/l), Total dissolved solids (129 mg/l), Alkalinity (69.07 mg/l) and conductivity (229 mg/l) were found to be within standards in water samples. Chloride 17.4 mg/l and Magnesium 1.49 mg/l. BOD varies from 8.25 mg/l & COD varies from 32.6 mg/l indicating that water is not good. | | | | | |
| Soil quality at 7 locations | PP submitted that the organic matter (0.63% to 1.01%) and organic carbon (0.37% to 0.52%) present in the soil observed to be appropriate for the plant growth. The texture of the soil samples found to be silt loam and sandy loam. All soil samples have slightly alkaline having pH ranging from 7.94 to 8.26 which is an optimal range for most the plant to thrive and grow. The analysis revealed that there is a need to replenish phosphorus to improve the productivity of the agricultural land in the study area. | | | | | |
| Traffic study | PP submitted that about 30270 TPD of Mineral will be transported to the various crusher clusters in or nearby Delhi NCR, village Golwa, Village Galgata etc through 4 routes. Study has been done for worst case scenario in which transportation of material has to be done on single route. Frequency of tippers/tip trailers deployed/hour will be 63. Increase in PCU's per hour is 189. PP proposed to construct the existing Village Road (Birbal Ki Dhani to IOCL) -Kaccha Road to two lane Bituminous Road having a carriage way of at least 6 m. | | | | | |

14. Public Hearing (PH) Details:

| | |
|--------------------------------|---|
| Advertisement for PH with date | Dainik Jagran, Dainik Bhaskar, Hari Bhumi on 01.09.2021 |
|--------------------------------|---|

| | |
|--|--|
| Date of PH | 04.10.2021 |
| Venue | Project site, Village: Musnota, Tehsil: Narnaul, District: Mahendragarh, Haryana |
| Chaired by | 1. Mr. Ajay Kumar, Deputy Commissioner, Mahendragarh 2. Mr. Sandeep Singh: Regional Officer, HSPCB (Dharuheda), Haryana |
| Main issues raised during PH | Employment, Infrastructure Development, Impact of blasting on habitation, Dedicated route for transportation, Fodder arrangement in Gaushala etc |
| Budget proposed for addressing issues raised during PH | Rs. 1.14 Crore |

15. The Project Proponent submitted that total lease area is 79.32 ha which is Govt. Land. Hence, R & R is not applicable.

16. The Project Proponent submitted that the Lessee & Company challenged the order /letter of DFO, Mahendragarh in Hon'ble Punjab and Haryana High Court through CWP no. 2682 of 2018 (Satish Kumar Garg vs. State of Haryana). The High Court Judgment dated 26.04.2018 permitting mining on the leased area of 79.32 ha and wherein the Divisional Forest Officer, Mahendragarh issued the letter in compliance to the judgement of the Hon'ble High Court of Punjab & Haryana in CWP No. 2682 of 2018 (O&M) dated 26.04.2018 stating that the letter bearing no:3223 dated 28.10.2016 issued by the Office of Deputy Conservator of Forests, Mahendragarh be considered as having been rescinded. As a consequence, the NOC granted through letter bearing No. 1004 and 16.09.2002 stands revived and operational along with the conditions included in the said letter for grant of NOC. In Hon'ble Punjab and Haryana High Court vide order dated 08.04.2019 in the matter of Satish Kumar Garg vs State of Haryana (CWP No. 4450 of 2019) has directed MoEF&CC to consider the grant of EC to the petitioner and decide the matter at hand, as expeditiously as possible preferably within a period of six weeks from the date of receipt of certified copy of the order. The special leave petition filed against order dated 26.04.2018 and same has been dismissed as withdrawn from Supreme Court of India. PP also submitted the letter from the Director General, Mines and Geology, Haryana vide Memo No: Glg/HY/E2625/7045 dated 20.12.2021 stating that the mine lease area does not fall under court restrictions.

17. Affidavit/Undertaking details

| | |
|--|--|
| Affidavit in a Non-Judicial stamp dated 10.02.2021 as per Ministry's OM dated 30.05.2018 | The company hereby undertake that they will comply with all the statutory requirement & judgment of Hon'ble Supreme Court dated 2 nd August 2017 in writ Petition (civil) No. 114 of 2014 in the matter of common cause versus Union of India & Ors'. |
| Project Proponent submitted | PP submitted an undertaking to the effect that the |

| | |
|--|--|
| an Undertaking vide Letter dated 26.12.2021 | conditions laid down in Terms of Reference prescribed by MoEF&CC, New Delhi vide letter no. J11015/14/2021-IA.II (M) dated 23.03.2021 have been complied with and the data submitted and the information presented in this report are factually correct. |
| Consultant submitted an Undertaking dated 29.12.2021 | The Consultant submitted an undertaking to the effect that the conditions laid down in Terms of Reference prescribed by MoEF&CC, New Delhi vide letter no. J11015/14/2021-IA.II (M) dated 23.03.2021 have been complied as per data/details provided by Project Proponent & as per Modified Mining Plan along with Progressive Mine Closure Plan approved by IBM and the data submitted are factually correct. |

18. Details of the EMP:

| S. No. | Activities | Capital Cost | Recurring Cost |
|-------------------------------|---|--------------|----------------|
| A. Mitigative Measures | | | |
| 1. | Two water tanker (12 KL) for water sprinkling in other roads and mining areas/activities. | 10.00 | 0.25 |
| 2. | Sprinkling system at crusher hopper | 2.00 | 0.10 |
| 3. | Pollution Control Device (Bag filter at Crusher) Equipment and its installation Cost, Operation & Maintenance | 14.00 | 1.00 |
| 4. | Construct of road for transportation of material (0.8 km in North + 1.2 km in SW part) | 15.00 | 1.00 |
| 5. | Bench plantation will be carried out covering 23.36 ha with total 58,400 saplings from 6 th year to 20 th year (Considering Rs. 87.60 Lakh) | - | 5.84 |
| 6. | Green belt around 7.5 m periphery covering an area of 2.81 ha (No. of saplings: 7025) | 10.54 | - |
| 7. | Annual cost for watering, manuring & post care of plantation (Considering Rs. 10 Lakh) | - | 0.30 |
| 8. | Garland Drain around soil dump (L*W*D = 910 m x 1 m x 1 m) | 5.00 | 1.65 |
| 9. | Retaining Wall around soil dump (L*W*H = 210 m x 1 m x 1 m) | 4.96 | 0.50 |
| 10. | Channelized Catch Drains (L*W*D = 590 m x 1 m x 1 m) | 4.00 | 0.20 |
| 11. | 2 nos. of Settling Tank / Sedimentation Pond (Length*Width*Depth = 8 m x 4 m x 3 m) | 2.50 | 0.30 |
| 12. | Construction of Protective Bunds along the water reservoir | 4.00 | 0.20 |
| 13. | Construction of recharge well - 1 no. (10 inch dia. & 35 m deep) for water harvesting | 3.00 | 0.10 |
| 14. | Procurement of one Blast Vibration Measuring Instrument | 5.00 | - |
| Sub Total | | 80.00 | 11.44 |
| B. Monitoring | | | |
| 1. | 4 Ambient Air Quality Monitoring Stations at Mine Site and | 30.00 | 1.00 |

| | | | |
|--|--|---------------|--------------|
| | at villages: Musnota, Nangal Daru, Gangytana, Panchnota | | |
| 2. | Fugitive dust emission monitoring (4 locations * monthly) | 1.00 | 1.50 |
| 3. | Personal Dust Monitoring (4 locations * Quarterly) | 1.00 | 0.15 |
| 4. | Monitoring of PAH in the transportation route | 2.00 | 0.50 |
| 4. | Installation of 2 Piezometers along the periphery in the premises | 5.00 | - |
| 5. | Ground water quality analysis (4 locations * 4 times in a year) | - | 0.30 |
| 6. | Raw water analysis (PZ wells) (2 locations * 4 times in a year) | - | 0.20 |
| 7. | Peak Particle Velocity Monitoring for nearest habitation i.e. Musnota, Nangal Daru, Gangytana, Panchnota | 3.00 | 0.30 |
| 8. | Ambient Noise Monitoring (04 locations * quarterly frequency) | 0.50 | 0.50 |
| 9. | Work Place Noise Level Monitoring (4 Locations * quarterly frequency) | - | 0.16 |
| 10. | Personal Noise Monitoring (4 Locations * quarterly) | - | 0.70 |
| 11. | Providing Ear muffs/plus to workers working in high noise area & PPEs | 2.00 | 1.00 |
| Sub Total | | 44.5 | 6.31 |
| Total (A + B) | | 124.50 | 17.75 |
| C. | Estimated Budget for Conservation Plan | 40.00 | - |
| D. | Estimated budget for addressing the Public Hearing Issues (within 3 years) | 114.00 | 7.0 |
| E. | Others | - | - |
| 1. | Digital mapping of entire mine area once in three years (Rs. 4 .5Lacs once in 3 years) | - | 1.50 |
| Grand Total (A + B + C + D + E) | | 278.50 | 26.25 |

19. Details of project cost and employment:

| Particulars | Budget |
|---|---|
| Capital Cost for Environment Protection | 1.25 Crore |
| Budget for addressing the Public Hearing issues | 1.14 Crore |
| Total Cost for EMP | 2.79 Crore (Including 0.40 Crore for Wildlife Conservation) |
| Recurring Cost for EMP | 0.27 lakh/annum |
| Project Cost | 22 Crore |
| Employment | 264 Persons |

20. Observation and Recommendation of the Committee:

The proposal for Environmental Clearance was considered in the 45th EAC (Non-Coal Mining) meeting held during 24th, 25th and 27th January, 2022. After detailed deliberations made by the Project Proponent and the Consultant, the Committee noted that the Kharsa no.s 599,600,601,626,627, 628,648 & 649 at

Village Musnota of the instant mine lease area falls under the Aravalli Plantation as per the list of villages/area located in Aravalli Plantation in Mahendergarh block published in the portal of Haryana Forest Department. The Committee was of the view that the instant proposal as per MoEF Notification dated 07.05.1992 falls under Aravalli range and unless the Forest Department quotes and interprets the Hon'ble Supreme Court order and excludes the Khasra Nos falling in the mine lease area, the instant proposal cannot be considered further. Therefore, the Committee **deferred** the proposal for want of following additional information: -

- i. The Project Proponent needs to submit all the mine lease documents such as Prospecting License, Letter of Intent (LoI) and Grant of mining lease and its execution details since from the inception of the mine chronologically with the supporting documents.
- ii. The Project Proponent needs to submit the letter from the APCCF, Department of Forest Haryana with specific reference to latest order of Hon'ble Supreme Court stating that the mine lease area does not fall under Aravalli range and the Kharsa no.s 599, 600, 601, 626, 627, 628, 648 & 649 does not falls under the Aravalli Plantation.
- iii. The Project Proponent has shown that the road network to transport the materials using the village roads i.e., Musnota-Panchoota, Gagunta-Golwa & Galgata and part of the road falls under the forest land i.e., 0.9350ha and will be constructed through Aravalli Plantation kharsa no. 514, 578, 651, 672, 673 and 689 of Villages Musnota. Hence, PP needs to obtain the Forest Clearance for diversion of forest land of 0.9350ha for construction of kutchcha path.
- iv. The Committee noted that the road width of 4.5m is grossly inadequate and PP should make it to minimum 9m wherever applicable in all four evacuation routes.
- v. The public hearing concerns raised during public hearing to be addressed with the revised budget and should be more focused on health, education and livelihood for the welfare of the local people. PP also needs to revise the EMP cost.
- vi. The Project Proponent needs to submit the letter from the Principal Chief Conservator of Forest (PCCF) that there is no National Park, Wild Life Sanctuary, Tiger Reserves and Wildlife Corridors etc. within 10 km radius of the study area.

- vii. The Project Proponent submitted the list of flora and fauna in the report of Wildlife Conservation Plan and not a separate letter authenticated by Principal Chief Conservator of Forest (PCCF) submitted. Hence, the PP needs to submit the separate letter for list of flora and fauna in the 10km study area authenticated by Principal Chief Conservator of Forest (PCCF).
- viii. The Project Proponent needs to submit the 500 meters Cluster Certificate obtained from State Mines and Geology in the PARIVESH portal.
- ix. Proposed mining area in Musnota village falls in the purview of Section 4 of Punjab Land Preservation Act. PP shall clarify the same whether the mine lease area covers under jurisdiction of Punjab or Haryana from the concern state Governments.
- x. PP shall also submit the current status of the mine lease area as per the Revenue records and Forest records along with the supporting Documents duly authenticated by the concern Revenue Department and Forest Department.

2.5 Proposal for amendment in EC dated 28.05.2008 w.r.t. transportation of leftover stock of 7,34,767.4 tonnes of Bauxite by road, over and above the permitted EC capacity of 3.0 MTPA during the FY 2022-23 for M/s Odisha Mining Corporation Limited for Kodingamali Bauxite Mine with production capacity of 3.0 MTPA Bauxite ore in the mine lease area of 428.075 ha, located at Kodingamali Village, Tehsil and District Koraput, Odisha – [File. No: J-11015/439/2007-IA.II(M), Proposal No: IA/OR/MIN/245821/2021; Consultant: Ind Tech House Consult] - Amendment in EC.

EAC Meeting Details:

| | |
|-----------------|--|
| EAC meeting | 45 th |
| Date of Meeting | 24 th , 25 th and 27 th January, 2022 |

The proposal of M/s Odisha Mining Corporation Limited is for amendment in EC dated 28.05.2008 w.r.t. transportation of leftover stock of 7,34,767.4 tonnes of Bauxite by road, over and above the permitted EC capacity of 3.0 MTPA during the FY 2022-23 for Kodingamali Bauxite mine with production capacity of 3.0 MTPA Bauxite ore in the mine lease area of 428.075 ha, located at Kodingamali Village, Tehsil and District Koraput, Odisha. The mine lease area located between Latitude 19°01'46.35" N to 19°05'13.85" N and Longitude: 83°03'22.91"E to 83°05'11.89" E. The mine lease area falls under the Survey of India Toposheet No. 65 M/4. The Project Proponent presented the KML file during the presentation to indicate the location of mine lease on Google Earth.

2. M/s Odisha Mining Corporation Ltd has made an online application vide proposal no. IA/OR/MIN/245821/2021 dated 18.12.2021 along with Form 4 under the provisions of EIA Notification, 2006. The proposed project activity is listed at schedule no.1(a) Mining of Minerals under Category "A" of the schedule of the EIA Notification, 2006 as the mining lease area is greater than 100 ha and appraised at Central level.

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

| Date of application | Proposal No | Consideration | Details | Date of accord |
|---------------------|---------------------|--|--|----------------|
| 15.05.2007 | IA/OR/MIN/6980/2007 | - | Environmental clearance for production capacity of 3.0 MTPA of Bauxite by opencast mechanized method involving lease area of 447.25 ha. | 28.05.2008 |
| 10.11.2016 | IA/OR/MIN/6980/2007 | May 29-30, 2017, July 24, 2017 & August 29-30, 2017 | Amendment in EC w.r.t. i. use of 400 KLD of water for its operations as per the permission granted by Water Supply Department, Govt., of Odisha ii. The land-use for the project shall be governed as per the Stage-I FC granted by MoEFCC vide its letter dated 17.04.2017. The operations shall be started only after obtaining required approvals under Forest (Conservation) Act, 1980 iii. The PP shall carryout mineral transportation of only up to 1.26 million TPA of Bauxite ore by road subject to required strengthening of | 24.11.2017 |

| | | | | |
|------------|-----------------------|---|---|------------|
| | | | <p>carriageway. As the EC permits production of 3 MTPA of Bauxite ore, transportation beyond 1.26 MTPA by road shall be allowed only on prior confirmation from the State PWD Department regarding preparedness of the 7m wide carriageway. At present, the PP is allowed to carry out transportation limited to 1.26 MTPA and</p> <p>iv. The ML area shall be read as 428.075 ha in place of 447.25 ha, based on executed lease deed and approved mining plan submitted by PP.</p> | |
| 09.10.2018 | IA/OR/MIN/6980/2007 | 23 rd – 24 th Oct, 2018 | Amendment in EC w.r.t. transportation of 3.0 MTPA of bauxite ore by road. | 17.12.2018 |
| 09.04.2020 | IA/OR/MIN/151193/2020 | 5 th – 6 th May, 2020 | Amendment in EC for dispatch of 0.7 million ton of leftover stock of bauxite ore mined during 2018- 19, in the current FY 2020-21, in the distributed manner over the financial year (58333 tons/month), as a special case. | 29.05.2020 |
| 31.03.2021 | IA/OR/MIN/202346/2021 | 9 th – 15 th June, 2021 | Amendment in EC by keeping the transport of 0.7 MTPA as cap. The Project Proponent is permitted to access 1.43 MT as well also the production capacity of | 05.08.2021 |

| | | | | |
|--|--|--|---|--|
| | | | 3.0 MTPA. However, the total dispatch from the mines during 2021-22 should not exceed in 3.7 MT in pursuant to permission already granted in FY 2020-21 as a one-time measure. For the subsequent year the total dispatch from the mines should not be more than 3.0 MTPA as already approved in EC dated 28.05.2008. | |
|--|--|--|---|--|

4. The Project Proponent submitted that the Department of Steel and Mines, Govt., of Odisha vide letter no. III (BX) SM-06/2003/303/ SM dt. 09.01.2017 in exercise of powers conferred u/s 10 A (2) (c) of MMDR Amendment Act, 2015 read with Rule 8 (2) of MC Rules, 2016 granted the mine lease over an area of 428.075ha (406.385ha in Koraput District and 21.69 ha in Rayagada District) for a period of 50 years. PP also submitted the lease deedbearing no: G593527 executed on 10.01.2017 between the Governor of Odisha and M/s Odisha Mining Corporation Ltd for a period of 50 years.

5. Now, the Project Proponent requested to amendment the EC to despatch the leftover stock of 0.73 MT (expected upto 31.03.2022) of bauxite ore by road during the FY 2022-2023. PP reported that there is a further accumulation of 6,93,586.677 MT (as on 31.12.2021) and it is expected that left over stock upto 31.03.2022 will be 7,34,767.392 Tons and the production will be 3.0 MTPA. PP also reported that it is proposed to use 18 T trucks in lieu of 15 T trucks, No. of PCUs in two directions will increase from 3636 to 3780 and Carrying capacity of 7m wide road in hilly terrain (PCU) is 8050.

6. The Project Proponent submitted that the Stage-II Forest Clearance accorded by MoEF&CC vide letter no F.No. 8-46/2016-FC dt 25thSept, 2017 for diversion of 434.935 ha of forest land (428.075 ha of forest land within Kodingamali Bauxite mine lease area including 18.098 ha of forest land in Safety Zone and 6.860 ha of forest land out-side the ML area for construction of for approach road to the mining lease) for mining of Bauxite in Kodingamali Bauxite mines.

7. The Project Proponent submitted that Consent to Operate (CTO) issued by the State Pollution Control Board, Odisha vide letter no. 5116/IND-I-CON-6632 dated 26.03.2021 for the production of 3.0 MTPA of Bauxite and crushing plant of capacity 2 x 500 TPH for the period ending up to 31.03.2022. PP also submitted that the EC compliance report certified by IRO, Bhubaneswar on 01.03.2021.

8. The Project Proponent submitted the past production details duly authenticated by the Deputy Director of Mines, Koraput Circle vide Letter No: 74/Mines, dated 13.01.2022 for the period 2017-18 to 2021-22 (i.e., March 2018 to December, 2021).

9. Observation and Recommendation of the Committee:

The proposal for amendment in Environmental Clearance was considered in the 45th EAC (Non-Coal Mining) meeting held during 24th, 25th and 27th January, 2022. After detailed deliberations made by the Project Proponent and the Consultant, the Committee noted that the initially PP obtained EC on 28.05.2008 for production capacity of 3.0 MTPA of Bauxite.

Further, PP sought amendment in EC stating to inclusion of road transportation as a mode of mineral transport, incorporating correction in M.L area from 447.15 ha to 428.075 ha, updating the land use pattern in line with the Stage I FC granted by MoEF&CC and incorporating supply of 400 KLD from the Water Resources Department, Govt. of Odisha as a source of water for this project and accordingly amendment in EC was issued on 24.11.2017 regarding use of 400 KLD water, reducing the lease area from 447.25 to 428.075 and transportation by road limited to 1.26 Million TPA subject to required strengthening of carriageway.

Subsequently, PP sought amendment in EC stating to amend the condition that the PP shall carryout mineral transportation of only up to 1.26 million TPA of Bauxite ore by road as the PP widened the carriageway to 7m and obtained the letter from the State PWD Department dated 01.08.2018 and accordingly amendment in EC was issued on 17.12.2018 for transportation of 3.0 MTPA of bauxite ore by road.

PP again sought amendment in EC stating to provide one-time permission to transport 0.7 MTPA stock lying in the mine premises through road for a period of 4-6 months and accordingly amendment in EC was issued on 29.05.2020 for dispatch of 0.7 million ton of leftover stock of bauxite ore mined during 2018-19, in the FY 2020-21, in the distributed manner over the financial year (58333 tons/month) as a special case and

Thereafter, PP sought amendment in EC by stating that the 1.43 MnT of bauxite remains unsold and not dispatched due to COVID-19 and amendment in EC was issued on 05.08.2021 by keeping the transport of 0.7 MTPA as cap. The Project Proponent is permitted to access 1.43 MT as well also the production capacity of 3.0 MTPA. However, the total despatch from the mines during 2021-22 should not exceed in 3.7 MT in pursuant to permission already granted in FY 2020-21 as a one-time measure. For the subsequent year the total dispatch from the mines should not be more than 3.0 MTPA as already approved in EC dated 28.05.2008.

The Committee stringently viewed the amendment obtained by the PP over and over again and noted that as per the authenticated past production details submitted by the PP, it was observed that the opening balance of leftover stock of bauxite during April, 2021 was 14,83,271.938 MT and closing balance of leftover stock of bauxite during December, 2021 (as on 31.12.2021) was 6,93,586.677 MT. The Committee also observed that the PP produced 19,65,000 MT and despatched 27,06,180.715 MT till 31.12.2021. During the meeting, PP informed that due to COVID-19, the entire material could not be transported and there is a further accumulation of 6,93,586.677 MT (as on 31.12.2021) and it is expected that left over stock upto 31.03.2022 will be 7,34,767.392 MT. Hence, the Committee permitted to access the leftover stock of 0.7 MTPA for further period of one year i.e., during the FY 2022-23 and opined that no further amendment in this regard will be considered beyond the EC capacity of 3.0 MTPA. Based on the above discussions held, the Committee **recommended** the proposal for amendment in EC by keeping the transport of left over stock 0.7 MTPA as cap. The Project Proponent is permitted to access 0.7 MTPA as well also the production capacity of 3.0 MTPA. However, the total dispatch from the mines during the FY 2022-23 should not exceed 3.7 MTPA in pursuant to permission already granted in FY 2021-22. For the subsequent year the total dispatch from the mines should not be more than 3.0 MTPA as already approved in EC dated 28.05.2008. The other terms and conditions mentioned in the Ministry's EC letter no J-11015/439/2007-IA. II(M) dated 28.05.2008 and amendment in EC letter no J-11015/439/2007-IA. II(M) dated 24.11.2017, 17.12.2018, 29.05.2020 and 05.08.2021 shall remain the same with the following additional specific conditions:

- i. The Project Proponent should explore the feasibility of establishing conveyor belt from mine lease to railway siding for dispatch of 3.0 MTPA and suggest a suitable time frame for the implementation.
- ii. The Project Proponent needs to monitor the air and noise quality during the additional transportation of the material by road and shall submit a report to the Ministry's Integrated Regional Office, Bhubaneswar.

2.6 Proposal for Terms of Reference of M/s Rungta Mines Ltd for Jumka Rathiriposhi Pahar Iron Ore block for production capacity of 3.35 million TPA and 0.63 million TPA of waste (Total excavation: 3.98 Million TPA) along with 300 TPH mobile screening units & 3 sets of mobile crushing + screening plants in the mine lease area of 158.509 ha, located at Villages Batagaon, Kensara in Tehsil Lahunipara, District Sundargarh & Village Kadakala in Tehsil Banspal, District Keonjhar, Odisha – [File. No: IA-J-11015/2/2022-IA-II(NCM), Proposal No: IA/OR/MIN/250030/2022; Consultant: Min Mec Consultancy Pvt. Ltd.] - Terms of Reference (ToR)

EAC Meeting Details:

| | |
|-----------------|--|
| EAC meeting | 45 th |
| Date of Meeting | 24 th , 25 th and 27 th January, 2022 |

The proposal of M/s Rungta Mines Ltd is for mining of Iron ore in JumkaRathiriposhiPahar Iron Ore block with production capacity of 3.35 million TPA and 0.63 million TPA of waste (Total excavation: 3.98 Million TPA) along with 300 TPH mobile screening units & 3 sets of mobile crushing + screening plants in the mine lease area of 158.509 ha, located at Villages Batagaon, Kensara in Tehsil Lahunipara, District Sundargarh & Village Kadakala in Tehsil Banspal, District Keonjhar, Odisha. The mine lease area is located between Latitude 21°48'54.81396"N to 21°47'32.62280"N and Longitude 85°13'25.32167"E to 85°12'13.87352"E. The mine lease area falls under the Survey of India Toposheet No: 73 G/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. M/s Rungta Mines Ltd has made an online application vide proposal no: IA/OR/MIN/250030/2022 dated 05.01.2022 and submitted Form 1 and Prefeasibility report under the provisions of the EIA Notification, 2006. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals under Category "A" of the schedule of the EIA Notification, 2006 as the mining lease area is greater than 100 ha and appraised at Central level.

3. Details of Mine lease

| S.no | Prospecting License/Letter of Intent/Grant of mine lease order | Date of the grant | Name of the Mineral | Period of Grant | Granted by | Mine lease area in Ha |
|------|--|-------------------|---------------------|--|----------------------|-----------------------|
| 1 | Letter of Intent for grant of mining lease for a period of 50 years in pursuant to Rule 10(2) of the Auction Rules vide Lr No IV(B)SM-49/2021/8716/SM, Bhubaneswar | 28.10.2021 | Iron ore | Letter of Intent valid for a period of 3 years from the date of its issuance | Government of Odisha | 158.509 ha |

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

| | | |
|------------------------|----------|-------------------------------|
| Private land | Nil | |
| Government land (Hudi) | 1.531 ha | |
| Forest land | 9.175 ha | Total Forest land: 156.978 ha |

| | | |
|--------------------------------------|-------------------|--|
| DLC land | 147.803 ha | |
| Total Mining lease area (MLA) | 158.509 ha | |

5. Details of Mine Plan:

| S.no | Mining Plan along with the Conceptual Plan Approved By | Letter no | Dated of Approval | For a period | Details |
|------|---|-------------------------|-------------------|---|---------------------|
| 1 | Mining Plan along with Progressive Mine Closure Plan (PMCP) approved by IBM | MP/A/18-ORI/BHU/2021-22 | 24.11.2021 | 5years from the execution of mining lease | 158.509ha, Iron ore |

6. The Project Proponent submitted that the method of mining will be opencast mechanized mining with drilling and blasting. Wagon drills will be used for deep hole drilling. Drill holes will be up to a depth of 11 m and with 110 mm dia. Blasting will be carried out with the help of explosives (slurry type) boosters and ANFO and Class-VI explosives (TLD, electric detonators and detonating fuse). PP reported that the total geological reserve (total resource) is 155.864 million tonnes and mineable reserve is 140.278 million tonnes. Considering the rated annual production of iron ore as 3.35 MTPA, the anticipated life of mine will be 50 years from the execution of the mining lease. PP also reported that the height and width of the benches will be maintained at 10 m & 18 m respectively. Overall pit slope will be 40°. PP submitted that the excavator of capacity upto 4.5 cu.m will be utilized for loading purpose. Both ore & OB/waste will be transported by dumpers of capacity up to 30-40 MT. Ore will be dispatched to nearby railway siding by 40 MT (35 MT payload) dumpers. ROM iron ore will be produced as an admixture of high grade (+55%Fe) & low grade (mineral reject) ore. The market demand is for Fines (-5 mm) & Sized ore (5-18 mm, 10-30 mm). PP proposed to install 300 TPH mobile screening units & 3 sets of mobile crushing + screening plants for processing of iron ore as per buyer's requirement. As all screening and crushing units are mobile in nature, they will work on processing yard or within pit. Processing units will either work as single unit or in combination. PP reported that the sub grade iron ore will be sold directly after blending and waste material will be dumped in Dump D1 on the south western direction. A terrace will be formed with minimum 20 m width at 10 m height to maintain the overall slope of the dump.

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

| Particulars | Details | Distance & Direction |
|-------------|---------|----------------------|
|-------------|---------|----------------------|

| | | |
|-------------------------|----------------------------|--------------|
| Nearest Town | Tensa | 7.9 km, NNW |
| Nearest Highway | NH-520(Rajamunda – Rimuli) | 10.3 km, N |
| Nearest Railway station | Barasuan Railway station | 10.6 km, WNW |
| Nearest water bodies | Barapokhari Nala | 0.14 km, W |
| | Raikirhia Munibi Nala | 0.5 km, E |
| | Garhgi Nala | 0.5 km, S |
| | Sarkanda Nadi | 1.0 km, WNW |
| | Phulamanali Nala | 2.6 km, SSW |
| | Champajhar Nala | 2.7 km, E |

8. Water requirement

| | | | | |
|-------------------------------|---|-----------|----------------------------------|-----------|
| Total water requirement (KLD) | 464.0 KLD | | Dust suppression | 240.0 KLD |
| | Ground water | 94.0 KLD | Greenbelt | 30.0 KLD |
| | Surface water | 370.0 KLD | Drinking & Domestic | 94.0 KLD |
| | | | Dry crushing and screening plant | 95.0 KLD |
| Miscellaneous | | | 5.0 KLD | |
| Source | <ul style="list-style-type: none"> i. Water harvested within mine lease during rainy season. ii. Surface water from nearby nala (Phulamalani Nala) for after due approval & agreement with Water Resources Division iii. Ground water for drinking and domestic purpose, with due permission from Central Ground Water Authority (CGWA). | | | |

9. The Project Proponent reported that the total mine lease area is 158.509ha out of which forest land is 156.978 ha and non-forest land is 1.531ha. PP submitted that the application for forest clearance has been submitted vide proposal no: FP/OR/MIN/150048/2021 dated 10.12.2021 for diversion of 156.978ha of forest land. PP reported that there are no National Park, Wildlife Sanctuary, Biosphere Reserves, Tiger/Elephant Reserves within the 10km radius of the study area. Further, PP reported that the following Reserve Forest such as Khajurdihi RF(0.8 km,NE),Sarkanda RF(2.9 km,NW), RF near Anandapur (Bhabari Pahar) (7.8 km,NNE), Khandadhar RF(6.4 km,SW) and Torha RF (6.0 km,WNW) are found within 10km radius of the study area.

10. The Project Proponent reported that no rehabilitation and resettlement plan is envisaged as there is no habitation within the mine lease area.

11. 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.

12. Details of project cost and employment:

| Particulars | (Rs. In Crore) |
|--------------|----------------|
| Project Cost | Rs.380 Crores |

| | |
|------------|-------------|
| Employment | 258 Persons |
|------------|-------------|

13. Observation and Recommendation of the Committee:

The proposal for Terms of Reference was considered in the 45th EAC (Non-Coal Mining) meeting held during 24th, 25th and 27th January, 2022. After detailed deliberations made by the Project Proponent and the Consultant, the Committee **recommended** the proposal for grant of Terms of Reference (ToR) for M/s Rungta Mines Ltd for mining of Iron ore in JumkaRathiriposhiPahar Iron Ore block with production capacity of 3.35 million TPA and 0.63 million TPA of waste (Total excavation: 3.98 Million TPA) along with 300 TPH mobile screening units & 3 sets of mobile crushing + screening plants in the mine lease area of 158.509 ha, located at Villages Batagaon, Kensara in Tehsil Lahunipara, District Sundargarh & Village Kadakala in Tehsil Banspal, District Keonjhar, Odisha for undertaking detailed EIA/EMP study. In addition to Standard Term of Reference for non-coal mining, along with the recommendation made by NEERI in its carrying capacity study for Odisha, the Committee also prescribed the following specific term of reference for this project: -

- i. The Wildlife Conservation Plan must ensure the measures taken for protection of wildlife by minimizing the impacts of the mining on wildlife specifically Elephants by creating facilities to facilitate conservation and propagation of wildlife in the forest areas with special reference to Schedule I species.
- ii. The Project Proponent should explore the possibility of dumping the material to fill the void at any stage of mining as and when created.
- iii. Since the mining will be done at the hill at 128m above height with annual rainfall of 1400mm, PP must address the erosion potential of the hill, soil conservation plan and strong catchment area plan to protect the 1st order, 2nd order water bodies and also to prevent land degradation.
- iv. The Project Proponent should prepare the EMP considering the scenario of pollution to be generated for normative and peak total excavation for assessing air and noise pollution.
- v. The Project Proponent needs to submit the map demarcating the mineralized and non-mineralized zone in the forest land of 156.978 ha.
- vi. The Project Proponent needs to submit the plan for protection of nallah in the vicinity of the mine lease area at the time of appraisal of EC.

- vii. The Project Proponent should install the continuous ambient air quality monitoring stations in such numbers as per the scientific study and in consultation with CPCB.
- viii. The Project Proponent needs to carry out the Public Hearing as per provisions of EIA Notification, 2006. PP should also submit the time bound action plan on concerns of the public through proper separate budget for the concerns of the local people in terms of health care facilities for COVID, betterment of schools nearby and to facilitate the online education system by providing Wi-Fi connectivity, smart classrooms and desktops/tablets, infrastructure, and environment protection.
- ix. The Project Proponent should submit the detailed plantation plan in tabular format (year wise for entire life of mine) with proper capital and recurring cost. PP shall undertake the adequate plantation with the seedling of 10 ft height with at least 90% survival rate and the plantation shall be completed within 3 years from the start of mining operations. The casualties of each year shall be replaced every year with new saplings and such number of saplings shall not be counted in the number of saplings proposed to plant in that year. PP shall undertake the progressive bench plantation up to HFL for eco restoration of water bodies. Undertaking in this regard needs to be submitted by the PP.
- x. The Project Proponent needs to submit the Affidavit as per Ministry's O.M No 3-50/2017 -IA.II (M) dated 30.05.2018.

Day 3: 27th January, 2022 (Thursday)

3.1 Proposal for Environmental Clearance of M/s. UltraTech Cement Ltd for Guma II Limestone Block with Limestone Production Capacity: 3.5 Million TPA (ROM), Top Soil: 0.038 Million TPA, Over Burden: 0.690 Million TPA, Sub Grade: 0.320 Million TPA and Mineral Reject: 0.560 Million TPA (Total Excavation: 5.108 Million TPA) along with installation of Crusher with Wobbler of 1500 TPH Capacity and Installation of a New Belt Conveyor (length 4.05 km) from Crusher to the Plant in the mine lease area of 249.03ha located at Villages: Guma, Sarseni, Khapradih, Tehsil: Palari&Simga, District: BalodaBazar-Bhata, Chhattisgarh –[File. No: J-11015/09/2019-IA.II(M), Proposal No: IA/CG/MIN/87280/2018, Consultant: J.M. EnviroNet Pvt. Ltd.] - Environmental Clearance (EC)

EAC Meeting Details:

| | |
|-----------------|--|
| EAC meeting | 45 th |
| Date of Meeting | 24 th , 25 th and 27 th January, 2022 |

The proposal of M/s. UltraTech Cement Ltd is for mining of Limestone in Guma II Limestone Block with Production Capacity: 3.5 Million TPA (ROM) of Limestone, Top Soil: 0.038 Million TPA, Over Burden: 0.690 Million TPA, Sub Grade: 0.320 Million TPA and Mineral Reject: 0.560 Million TPA (Total Excavation: 5.108 Million TPA) along with installation of Crusher with Wobbler of 1500 TPH Capacity and Installation of a New Belt Conveyor (length 4.05 km) from Crusher to the Plant in the mine lease area of 249.03ha located at Villages: Guma, Sarseni, Khapradih, Tehsil: Palari & Simga, District: BalodaBazar-Bhata, Chhattisgarh. The mine lease area is located between Latitude 21°34'50.98807"N to 21°36'07.75979"N and Longitude 82°02'35.10228"E to 82°03'37.91742"E. The mine lease area falls under the Survey of India Toposheet No: F44Q2, F44P14, F44Q2 & F44Q3 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. UltraTech Cement Ltd has made an online application vide proposal no: IA/CG/MIN/87280/2018 dated 16.12.2021 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 and 2(b) Mineral beneficiation under Category "A" of the schedule of the EIA Notification, 2006 as the mining lease area is greater than 100 ha and appraised at Central level.

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

| Date of application | Proposal No | Consideration | Details | Date of accord |
|----------------------------|----------------------|----------------------|---|-----------------------|
| 01.12.2018 | IA/CG/MIN/87280/2018 | January 22-23, 2019 | For mining of Limestone block with Limestone Production Capacity: 3.5 Million TPA (ROM), Top Soil: 0.038 Million TPA, Over Burden: 0.690 Million TPA, Sub Grade: 0.320 Million TPA and Mineral Reject: 0.560 Million TPA with installation of Crusher with Wobbler of 1500 TPH Capacity and Installation of a new Conveyor (length 4.05 km) from Crusher to the Plant in the mine lease area of 249.03ha. | 22.02.2019 |

4. **Details of Mine lease**

| S.no | Letter of Intent/ Grant of mine lease order | Date of the grant | Name of the Mineral | Period of Grant | Granted by | Mine lease area in Ha |
|------|---|-------------------|---------------------|--------------------------|--|-----------------------|
| 1 | Letter of Intent (LOI) for grant of mining lease vide letter no F-3-09/2017/12 | 01.05.2018 | Limestone | 3 years | Mineral Resources Department, Government of Chhattisgarh | 249.03 |
| 2 | Amendment in LOI dated 01.05.2018, that the 6 months period is replaced by 3 years in the first line of Para-4 (d) and in the second line of section-6, twenty six crores thirty seven lakhs seventy six thousand is replaced by the words twenty one crores thirty seven lakhs seventy six thousand. | 22.06.2018 | Limestone | 3 years | Mineral Resources Department, Government of Chhattisgarh | 249.03 |
| 3 | Extension of Validity of LOI for another 1 year vide Lr No: F3-09/2017/12, | 27.07.2021 | Limestone | 01.05.2021 to 30.04.2022 | Mineral Resources Department, Government of Chhattisgarh | 249.03 |

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

| | |
|---|------------------------------------|
| Private Agriculture land | 215.874 ha |
| Government land | 33.156 ha (27.722 ha Grazing land) |
| Total Mining lease area (MLA) | 249.03 ha |
| Private land for crusher, workshop & other infrastructure outside the MLA | Nil |

| | |
|---------------------------------|---|
| Additional information (if any) | PP submitted that as per Chhattisgarh Gazette Notification dated 05.05.2016, Collector has been empowered that they may divert such Govt land allotted for mining purpose, when the equivalent land provided for the purpose within the same village. Therefore, as per this Gazette Notification, alternate land for 27.722 ha of Grass land will be provided to the same villages respectively and process for the same is already started. PPearedmarked a budget of Rs 12.34 Cr for the same. However, all Rules, Regulations & Guidelines of the State will be followed to purchase the land during the working on Grass land. |
|---------------------------------|---|

6. Mining Plan Details:

| | | |
|---|--|---|
| Mining Plan along with Progressive Mine Closure Plan approved by Indian Bureau of Mines (IBM) | Letter No. | Balodabazar/Chup/Khyo-1167/2018-Raipur/1121 |
| | Date | 11.10.2018 |
| | Mineral | Limestone |
| | Validity | 5 years from the date of execution of mining lease deed |
| | Mine lease area | 249.03 ha |
| Mining Parameter | Quantitative Description | |
| Method of Mining | Fully Mechanized Opencast Method by combination of shovel and dumper with drilling and blasting. | |
| Total Geological Resources | 124 Million Tonnes | |
| Total Mineable Reserves | 100.36 Million Tonnes (Includes 5.22 million Tonnes of blocked reserves in transmission line) | |
| Life of mine | 33 Years | |
| Bench Height | 3 & 4 Mtrs for OB and 8 Mtrs for limestone | |
| Bench Width | 30 m | |
| Individual bench slope | 80° | |
| Overall pit slope | 45° | |
| Drilling/Blasting | PP reported that the drilling will be carried out by crawler mounted DTH hammer Drill machine with a dia of 115mm, depth of 8.8m and no. of holes per round will be 35-40. PP also reported that various types of explosives such as ANFO, SME etc. will be used for blasting. | |
| Loading | Hydraulic excavator of 6.5 cu.m bucket capacity will be used for excavation and loading of blasted limestone into 55 tonnes capacity rear dumpers. | |
| Transportation | Transportation of limestone from the working faces to the crusher will be carried out by Dumpers/Tippers. Further crushed limestone will be transported to Rawan Cement Plant | |

| | | |
|---------------------------------|--|--|
| | | initially by Road and from 6 th year by proposed covered conveyor belt (4.05 kms) and to Hirni Cement Plant via Road with 25 T capacity of covered tippers for 10.5 kms distance. |
| RoM output size | | 1200mm |
| Crushing & Screening | | PP reported that Crushing & Screening Plant proposed is a single rotary impact type with wobbler having capacity of 1500 TPH. Before crushing there will be a system to segregate R.O.M in (+) 50 mm and (-) 50 mm through wobbler. Only (+) 50 mm material will be fed to crusher and (-) 50 mm material after screening shall be brought to the product (-50mm and +10mm) site through separate conveyors discharging the crushed product to desired size finally to the crusher line conveyor (-10 mm fraction will form rejects). Crusher to be installed from 6 th year onwards. |
| Mineral beneficiation | | PP submitted that the project neither involves any wet mineral beneficiation process nor any chemical mineral beneficiation process. |
| Topsoil | | PP reported that about 0.038 MT of top soil will be generated per annum and 1.35 MT of top soil will be generated during entire life of mine. Top soil generated from mining operations will be used for Green belt development and for levelling of OB peripheral dump for making the bund and plantation over backfilled areas. |
| OB, Subgrade and Mineral Reject | | PP reported that about 0.690 MT of OB, 0.320 MT of Sub grade and 0.560 MT of Mineral Reject will be generated per annum. At the conceptual stage, total 53.07 Million tonnes of Waste (OB: 24.04 MT, Sub grade: 10 MT, Mineral Reject: 19.03 MT) will be generated. About 49.94 MT will be backfilled in 78.30 ha area. Remaining 3.13 MT waste will be used to make the bund (Length x Width x Height = 5084m x 40m x 8m) along the canal on 20.33 ha area. Later on, backfilled area and the bund will be stabilized by plantation. Slope for bund will be maintained at 34° angle. |
| Conceptual Land use | | PP reported that total excavated area will be 201 ha, out of which 78.30 ha will be backfilled and 122.70 ha will be converted into water reservoir. Greenbelt will be developed along the 7.5 m wide mine periphery on 5.40 ha. Plantation will be done on 98.63 ha (78.30 ha on backfilled area and 20.33 ha to stabilize the bund (40m width) along the mine boundary towards canal). An area of 22.3 ha area will remain undisturbed. |
| Ultimate Working Depth | | 233m AMSL (39m bgl) |
| Water Table | | 264 to 258m AMSL (8 -14m bgl) |
| Ground water intersection | | PP reported that there will be ground water intersection |

7. Water requirement:

| | | | |
|-------------------------|---|--------------------------------|-----------|
| Total water requirement | 250.0 KLD (Fresh water: 237.0 KLD & Treated water: 13.0 KLD) | Dust Suppression | 185.0 KLD |
| | | HEMM Operation & Washing | 15.0 KLD |
| | | Green Belt/ Plantation | 45.0 KLD |
| | | Drinking/Domestic & Sanitation | 5.0 KLD |
| Source | Mine pit & Bore wells | | |
| Permission | NOC for ground water abstraction obtained from Central Ground Water Authority (CGWA) vide NOC No. CGWA/NOC/MIN/ORIG/2021/11784 dated 29.04.2021 for ground water abstraction of fresh water of 250.0 KLD and dewatering of 138.0 KLD for the period ending upto 28.04.2023. | | |

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

| Particulars | Villages | Distance & Direction |
|-------------------------|--|--|
| Nearest Village | Guma | ~0.1 km, SE |
| Nearest Town/ City | Baloda Bazar | ~12 km, NE |
| Nearest Highway | SH-10 | ~9.5 km, NNE |
| Nearest Railway Station | Bhatapara Railway Station | ~ 17.5 km, NW |
| Water Bodies | Mahanadi canal Chitwar Nala Khorsi Nala Jhorkhi Nala Ameri Diversion Canal Banjari Nala Kukardih Talav Risda Canal Tengna Nala Kauwa Nala | ~ Adjacent, East ~0.5 km, East ~4.0 km, South ~4.5 km, SSE ~7.5 km, West ~5.0 km, WNW ~6.5 km, NE ~7.0 km, NE ~7.0 km, ESE ~9.0 km, ESE |

9. The Project Proponent reported that no forest land is involved in the mine lease area. PP also reported that there is no National Park, Wild Life Sanctuary, Tiger Reserves and Wildlife Corridors etc. within 10 Km radius of the study area. PP submitted that there is one Reserved Forest, i.e., "Dhabadih RF" located at ~4.0 km, NE from the mine lease boundary.

10. The Project Proponent reported that there are two Schedule I faunal species i.e., Monitor lizard (*Varanus bengalensis*) and Indian Python (*Python molurus*) are observed in the study area. PP submitted the Wildlife Conservation & Management Plan prepared by Nova Nature Welfare Society, Raipur, Chhattisgarh and approved by Principal Chief Conservator of Forest & Chief Wild Life Warden, Atal Nagar, Nava Raipur, vide letter no. V. Pra./Prabandh-510/3557 dated 28.09.2021 with a budget of Rs 18.0 Lakh for a period of 2 years.

11. The Project Proponent reported that the total area proposed for green belt/plantation is 106.0 ha. The area proposed under the greenbelt is 5.4 ha (No. of Saplings: 13,500), out of which greenbelt will be developed in 2.44 ha area of purchased land within 3 years from the start of mining operation and in remaining area i.e., 2.96 ha greenbelt will be developed from 6th- 10th year after purchasing the land. Plantation will be carried out over an area of 20.33 ha (No. of Saplings: 50,825) to stabilize the bund during 3rd to 15th year and 78.30 ha (No. of Saplings: 1,95,750) area will be covered under backfilling during 16th to 33rd year and 1.96 ha (No. of Saplings: 4,900) area for top bench plantation. PP earmarked a budget of Rs 410.59 Lakh towards development of green plant & plantation till the end of life of mine.

12. Baseline details:

The primary baseline data for specific micro-meteorology data, ambient air quality, waste quality, noise level, soil and flora & fauna has been collected during Winter Season i.e., December, 2018 to February, 2019. The Monitoring results of ambient air, surface water, soil, ambient noise and ground water for the month of December, 2018 to February, 2019 have been reported and no major divergence was observed with respect to concentration values of various parameters of collected samples.

| Period | December, 2018 to February, 2019 | | | | |
|--------------------------------------|--|---|--|------------------------------|-----------------------------|
| AAQ parameters at 9 locations | Pollutant | Min, µg/m ³ | Max, µg/m ³ | 98 %ile, µg/m ³ | Standard, µg/m ³ |
| | PM2.5 | 26.1 | 48.5 | 48.0 | 60 |
| | PM10 | 56.9 | 89.7 | 89.0 | 100 |
| | SO2 | 5.5 | 14.6 | 14.4 | 80 |
| | NOx | 11.4 | 27.9 | 27.5 | 80 |
| AAQ modelling (Incremental GLC) | Pollutant | Baseline Concentration, µg/m ³ | Incremental Concentration, µg/m ³ | Total GLC, µg/m ³ | Standard |
| | PM2.5 | 48.5 | 2.0 | 50.5 | 60 |
| | PM10 | 89.7 | 4.3 | 94.0 | 100 |
| | SO2 | 14.6 | 3.1 | 17.7 | 80 |
| | NOx | 27.9 | 4.7 | 32.6 | 80 |
| Noise level at 10 locations | Day Time: 51.6 to 68.3 Leq dB (A) Night Time: 40.1 to 59.5 Leq dB (A) | | | | |
| Ground water quality at 10 locations | PP submitted that pH varied from 7.11 to 8.21 indicating slightly alkaline to alkaline nature and maximum pH was recorded at mine site. The color and turbidity were within limits, and odour and taste were agreeable at all sampling locations. Total hardness (213.56 to 420.70 mg/l), alkalinity (213.65 to 387.65 mg/l) and total dissolved solids (406 to 666 mg/l) were medium; moreover, maximum hardness was found in the Village Semradih. The concentrations of other micro and macro nutrients were also at low level. The groundwater | | | | |

| | |
|--------------------------------------|--|
| | samples, including from plant (used RO Water) were observed to be good and complying to the drinking water standard (IS: 10500-2012). |
| Surface water quality at 1 locations | PP submitted that the pH of collected water sample is 7.32 indicating slightly alkaline & productive to water body. Total hardness is 123.75 mg/l, Total dissolved solids 229 mg/l, total alkalinity is 91.85 mg/l and conductivity is 381 µs/cm. BOD is 3.7 mg/l, COD is 14.2 mg/l & DO is 6.3 mg/l indicating that mine sump water is clean. The analysis indicated that physical and chemical parameters are good and safe for aquatic biodiversity. |
| Soil quality at 10 locations | PP submitted that the soil samples were greyish in colour indicating well drained soils. The texture of soil is silty loam and sandy loam. pH varied from 7.57 to 7.88 indicating slightly alkaline in nature. Water holding capacity (39.75% to 44.60%) and bulk density (1.30 to 1.44 g/cc) found to be ideal for the crops. Soil fertility found to be average with nitrogen, phosphorus and potassium in average quantity in some samples in the study area. |
| Traffic study | PP submitted that transportation will be done by using internal roads and there will be only 3 crossing points at public road between the Rawan Cement Plant to Hirmi Cement Plant during the mineral transportation. Therefore, Traffic Study over public roads is not conducted. |

13. Public Hearing (PH) Details

| | |
|--|--|
| Advertisement for PH with date | Times of India Edition on 13.11.2020 Patrika Edition on 13.11.2020 |
| Date of PH | 16.12.2020 |
| Venue | Courtyard in front of water tank, Village: Sarseni, Tehsil: Palari, District: Balodabazar-Bhatapara, Chhattisgarh |
| Chaired by | Mr. Rajendra Gupta: Additional District Magistrate, Balodabazar-Bhatapara Mr. Manish Kashyap: Regional Officer, CECB, Raipur, Chhattisgarh |
| Main issues raised during PH | i. Construction of cemented approach road ii. Construction of drains iii. Drinking water facilities iv. Infrastructure Development v. Employment vi. Land Compensation vii. Plantation Development |
| Budget proposed for addressing issues raised during PH | Rs 3.20 Crores |

14. The Project Proponent reported that the total mine lease area is 249.03 ha, out of total mine area 33.156 ha is Govt land and 215.874 ha is Private land. Out of the total 215.874 ha Private land, 133.144 ha land has been purchased & remaining 82.73 ha land will be purchased. PP submitted that there is no habitation inside the mine lease area and there will be no displacement due to the proposed mining

activities. PP also reported that there are 146 Project Affected Families (PAFs) having land only. The cost for the already purchased land is Rs. 59.90 crore & budget earmarked for the purchase of remaining land is Rs 37.046 crore. Thus, the total budget earmarked for the purchase of land is Rs. 96.946 crore. PP submitted that compensation will be paid directly to landowner. PP also submitted that the land for mining purpose is being/will be acquired through provisions of LARR Act, 2013 and Chhattisgarh LARR Act, 2019.

15. 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.

16. Affidavit/Undertaking details

| | |
|--|--|
| Affidavit in a Non-Judicial stamp paper of Rs 100 bearing L084298 dated 25.06.2019 as per Ministry's OM dated 30.05.2018 | The company shall comply with all the statutory requirement & judgment of Hon'ble Supreme Court dated 2 nd August 2017 in writ Petition (civil) No. 114 of 2014 in the matter of common cause versus Union of India & Ors'. |
| Project Proponent submitted an Undertaking vide Letter dated 14.12.2021 | PP submitted that we have reviewed the EIA report and take full responsibility and ownership of the contents presented in the EIA report by J.M. EnviroNet Pvt. Ltd. instructions as per MoEF&CC vide O.M. No. J-11013/41/2006-IA. II (I) dated 4 th August, 2009 has been followed in the preparation of this EIA Report. |
| Consultant submitted an Undertaking dated 14.12.2021 | The Consultant submitted an undertaking to the effect that the conditions laid down in Terms of Reference prescribed by MoEF&CC, New Delhi vide letter no. J11015/09/2019-IA.II (M) dated 22.02.2019 have been complied as per data/details provided by Project Proponent & as per Approved Mining Plan along with Progressive Mine Closure Plan approved by IBM and the data submitted are factually correct. |
| Plagiarism Certificate checked on 10.12.2021 | The Head of the Accredited Consultant Organization/ Authorized person certified that this EIA Report has been evaluated by using online software viz., Plagiarism Checker X. The report produced has been analysed by the system and based on it, I certify that the EIA Report produce in accordance with good scientific practice. |

17. Details of the EMP

| S. No. | Activities | Capital Cost (Rs. In Lakh) | Recurring Cost (Rs. In Lakh) |
|-------------------------------|------------|----------------------------|------------------------------|
| A. Mitigative Measures | | | |

| | | | |
|----------------------|---|---------------|--------------|
| 1 | Permanent water sprinkling arrangements for main haulage road (Length 0.5 km) | 10.5 | 0.12 |
| 2 | One water tanker (28KL) for water sprinkling in other roads and mining areas/activities. | 80.0 | 10.5 |
| 3 | Pollution Control Device (Bag filter at Crusher) Equipment and its installation Cost, Operation & Maintenance | 20.0 | 3 |
| 4 | Sprinkling system at crusher hopper and transfer point | 2.0 | 0.1 |
| 5 | Drip irrigation system for fruit orchard (Length of drip system is 1000 m X 3 lines) | 3.0 | 0.05 |
| 6 | Green belt around 7.5 m periphery covering an area of 5.40 ha within 10 years (No. of saplings: 13,500) (Considering Rs. 20.92 Lakh) | 20.92 | - |
| 7 | Plantation/Regrassing 78.30 ha on backfilled area from 16 th to 33 rd Year (No. of saplings: 195750) (Considering Rs. 294.63 Lakh) | - | 16.86 |
| 8 | Plantation on 20.33 ha on waste dump (40 m width) along with ML boundary towards canal) within initial 15 years (No. of saplings: 50,825) (Considering Rs. 78.778 Lakh) Top Bench Plantation nos of trees: 4900, Budget earmarked: Rs. 7.59 lakh | 10.50 7.59 | 5.25 - |
| 9 | Rain Water Harvesting Plan | 12 | 2 |
| 10 | Construction of Garland Drain around working mining pits & along the bund (L*W*D = 4000 x 1.2 x 1) | 2.0 | 1.65 |
| 11 | Construction of retaining walls within the mine lease (L*W*D = 3900 x 0.6 x 1) | 20 | 0.50 |
| 12 | Construction of Channelized Catch Drains (L*W*H = 10 m x 5 m x 1 m) | 0.5 | 0.2 |
| 13 | Construction of 02 nos Settling Tank/Sedimentation Pond (Length x Width x Depth = 5 m x 5 m x 3 m) | 4 | 0.3 |
| 14 | Construction of Protective Bunds along the water reservoir | 0.6 | 0.20 |
| 15 | Procurement of the Blast Vibration Measuring Instrument & Noise level meter | 6 | 0.1 |
| Sub Total | | 199.61 | 40.83 |
| B. Monitoring | | | |
| 1 | One Online Ambient Air Quality Monitoring Stations at Mine Site and 3 Manually at villages: Guma, Sarseni & Khapradih | 50 | 4 |
| 2 | Fugitive dust emission monitoring & Personal Dust Monitoring | 1.0 | 1.5 |
| 3 | Installation of 02 nos Piezometers in & around the mine area | 3.4 | 0.1 |
| 4 | Ground water quality analysis (08 locations * 04 times in a year) | - | 1.2 |

| | | | |
|--|--|---------------|--------------|
| 5 | Surface Water Quality Analysis (Upstream & downstream of Mahanadi Canal & Mine Sump) 2 samples * half yearly | - | 0.2 |
| 6 | Workshop Waste Water Quality Analysis (Monthly) as well as maintenance of oil-water separators | 5 | 0.5 |
| 7 | Peak Particle Velocity Monitoring for nearby habitation i.e. Guma, Kukurdih & Khapradih | 3.0 | 0.5 |
| 8 | Ambient Noise Monitoring (04 locations * quarterly frequency) | 0.5 | 0.5 |
| 9 | Providing Ear muffs/plus to workers working in high noise area & PPEs | 2.0 | 1.0 |
| Sub Total | | 64.9 | 9.5 |
| Total (A + B) | | 264.51 | 50.33 |
| C. | Estimated Budget for Conservation Plan | 18 | - |
| D. | Estimated budget for addressing the Public Hearing Issues (within 3 years) | 320 | 20 |
| E. | Others | | - |
| 1 | Digital mapping of entire mine area once in three years (Rs. 4 .5 Lacs once in 3 years) | - | 1.50 |
| 2 | Occupational Health Check-up of Mines Employees | 5.0 | 6.0 |
| Grand Total (A + B + C + D + E) | | 607.51 | 77.83 |

18. Details of project cost and employment:

| Particulars | Budget (Rs. In Crore) |
|---|--|
| Capital Cost for Environment Protection | 2.87 (including 0.18 crore for addressing the PH issues) |
| Budget for addressing the Public Hearing issues | 3.20 |
| Total Cost for EMP | 6.07 |
| Recurring Cost for EMP | 0.77 |
| Project Cost | 180 |
| Employment | 89 Persons |

19. Observation and Recommendation of the Committee:

The proposal for Environmental Clearance was considered in the 45th EAC (Non-Coal Mining) meeting held during 24th, 25th and 27th January, 2022. After detailed deliberations made by the Project Proponent and the Consultant the Committee **deferred** the proposal for want of following additional information: -

- i. Since the mine is going to operate at full capacity only after the 5th year, the Committee felt that the proposal to install the conveyor belt should be

reworked and mine should start only with conveyor belt to avoid additional impacts over and above the already operating mine. The erection of crusher within the mine should be concurrent with conveyor belt.

- ii. The Project Proponent needs to submit the detailed note on hydrogeological study and impact of drawal of water from the mine on canal, nearest pond as well as on the ground water since the ground water level exists at depth of 8-14m bgl.
- iii. The Project Proponent needs to revise the air quality modeling by considering all the activity of the operating mines in the vicinity of the mine lease area and should indicate the capacity of the each mine considered for predication of air quality modeling. 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.
- iv. Since many mines are operating in the vicinity of the mine lease area and the background air quality is already in the saturation zone, PP needs to further strengthen the measures taken for controlling dust from the mining activity including transportation and more effective EMP be submitted.
- v. 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.
- vi. The Project Proponent should increase the capacity of the dumpers with a view to reduce the no. of trips and accordingly PP should revise the transportation plan and incorporate in the EIA/EMP report.
- vii. The Committee not agreed with the project proponent proposal of transporting the excavated material from current mine to Rawan Jhipan mine and taking back to the Cement plant. Accordingly PP shall submit the Affidavit.
- viii. The Project Proponent needs to submit the map demarcating the mineralized and non-mineralized zone in the grazing land of 27.722ha. If grazing land is non-mineralized zone, PP should submit the plan for its protection and accessibility ensuring that no any activity will be carried out in the grazing land and if it's a mineralized zone, PP should showcase the plan for compensatory grazing land.

- ix. The Committee noted that Guma village is located about ~100m, SE. Hence, the PP needs to submit the mathematical modeling for anticipated ground vibration due to blasting. PP needs to provide the details of the nearest village/structure, nearest distance from the blasting zone, quantity of explosives used, kg and PPV, mm/s. The results are to be compared with the limiting values prescribed by Director General of Mine Safety (DGMS). PP also needs to submit the anticipated impact and mitigative measures to be taken from the viewpoint of protection of Mahanadi Canal from the blasting and other mining activity.
- x. The Project Proponent needs to submit the compensatory afforestation plan for removal of 585 no. of trees.
- xi. The Project Proponent needs to submit the map clearly demarcating the mineralized, non-mineralized zone, agriculture land, grazing land, water bodies, settlements and other surface features in the vicinity of the mine lease area.
- xii. The EMP for public hearing concern w.r.t the health issue on animals to be addressed through engagement with the local bodies and the Veterinary Department. PP needs to provide the budget for the same.
- xiii. The Project Proponent needs to submit the EC compliance report of all operating mines owned by PP, as there was a concern raised during public hearing regarding plantation.
- xiv. The Project Proponent needs to submit the letter obtained from the Principal Chief Conservator of Forest (PCCF) and Chief Wildlife Warden (CWW) that there is no forest land involved in the mine lease area and there is no National Park, Wild Life Sanctuary, Tiger Reserves and Wildlife Corridors etc. within 10 km radius of the study area as shown in the slide no: 5 of the presentation during the meeting.
- xv. The Project Proponent submitted the list of flora and fauna in the Wildlife Conservation Plan as Annexure 5 and not a separate letter authenticated by Principal Chief Conservator of Forest (PCCF) submitted. Hence, the PP needs to submit the separate letter for list of flora and fauna in the 10km study area authenticated by Principal Chief Conservator of Forest (PCCF).
- xvi. The Project Proponent needs to submit the English translation of Public Hearing minutes and other documents in compliance to the ToR S. No: 49 (d).

- xvii. The Project Proponent needs to submit all the analysis/testing reports of water, air, soil, noise, etc. using the MoEF&CC/NABL accredited laboratories.

3.2 Proposal for Amendment in ToR dated 19.11.2020 for M/s Shiva Cement Limited for Proposed Khatkurbahal (North) Block Limestone Mine with Limestone production capacity of 1.6 MTPA (ROM), Mineral Reject 0.035 Million TPA, Top Soil 0.033 MTPA & Waste 3.875 MTPA (Total Excavation: 5.543 MTPA) and installation of crusher & screen of 800 TPH in the mine lease area of 156.43 ha, located at Villages Khatkurbahal & Phalsakani, Tehsil Kutra, District Sundargarh, Odisha - [File. No: J-11015/47/2020-IA-II(M), Proposal No: IA/OR/MIN/248716/2021; Consultant: JM EnviroNet Pvt. Ltd.] - Amendment in ToR.

EAC Meeting Details:

| | |
|-----------------|--|
| EAC meeting | 45 th |
| Date of Meeting | 24 th , 25 th and 27 th January, 2022 |

The proposal of M/s Shiva Cement Limited is for Amendment in ToR dated 19.11.2020 *w.r.t. to amend the Specific ToR Condition of Point 1 regarding transportation of mineral through conveyor belt* for Proposed Khatkurbahal (North) Block Limestone Mine with Limestone production capacity of 1.6 MTPA (ROM), Mineral Reject 0.035 Million TPA, Top Soil 0.033 MTPA & Waste 3.875 MTPA (Total Excavation: 5.543 MTPA) and installation of crusher & screen of 800 TPH in the mine lease area of 156.43 ha, located at Villages Khatkurbahal & Phalsakani, Tehsil Kutra, District Sundargarh, Odisha. The mine lease area is located between Latitude 22°16'45.31025" N to 22°17'10.12835"N and Longitude 84°27'36.13496"E to 84°29'18.22107"E. The mine lease area falls under the Survey of India Toposheet No. 73-B/7, 73-B/8, 73-B/11 & 73-B/12 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 Shiva Cement Limited has made an online application vide proposal no: IA/OR/MIN/248716/2021 dated 11.01.2022 and submitted Form 3 with revised Form 1 and Prefeasibility report under the provisions of the EIA Notification, 2006. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals and 2(b) Mineral beneficiation under Category "A" of the schedule of the EIA Notification, 2006 as the mining lease area is greater than 100 ha and appraised at Central level.

3. The Project Proponent obtained Terms of Reference vide ToR Lr No: J-11015/47/2020-IA-II(M) dated 19.11.2020 for mining of 1.6 MTPA (ROM) Limestone, Mineral Reject 0.035 Million TPA, Top Soil 0.033 MTPA & Waste 3.875 MTPA (Total Excavation: 5.543 MTPA) and installation of crusher & screen of 800 TPH in the mine lease area of 156.43 ha, located at Villages Khatkurbahal & Phalsakani, Tehsil Kutra, District Sundargarh, Odisha.

4. Now, the Project Proponent requested to amend the Specific ToR Condition of Point 1 of ToR Letter dated 19.11.2020 as mentioned below: -

| S. No | Reference of ToR dated 19.11.2020 | Description | Amendment sought |
|-------|--|--|---|
| 1 | Specific ToR i. The transportation of mineral has to be carried out through conveyor belt and the installation of conveyor belt shall be complete before commencing the operations. | PP submitted that the Industrial Promotion and Investment Corporation of Odisha (IPICOL) vide letter No. IPICOL/SW/SCL-Exp./1 dated 08.06.2021 recommended acquisition/alienation and allotment of a total of 107.95 acres (85.17 acres for plant and railway siding and 22.8 acres for OLBC) of land in favour of M/s Shiva Cement Limited by Odisha Industrial Infrastructure Development (IDCO) to set up the facilities. PP also submitted that the land acquisition for OLBC has been delayed by by Odisha Industrial Infrastructure Development (IDCO), Govt. of Odisha. Hence, PP requested to allow the transportation initially through road for 2.5 years and eventually complete transportation of mineral will be carried out by OLBC. | Initially transportation through road for 2.5 years from the date of start of mining operations and eventually by OLBC (Over Land Belt Conveyor). |

5. The Project Proponent submitted that about 5333 TPD of crushed Limestone will be transported to the cement plant of the lessee at a distance of ~19.2 km at Village Telighana, Kutra, District Sundargarh, through 25 tonne capacity tippers. Maximum of 0.8 MTPA material will be transported during the first 2.5 years through road with total trips of 214 (to & fro) with increase in 42 PCU/hour. PP also proposed to construct 0.5 km CC road (width 7 m) connecting mine lease to Kutra Road with a budget of Rs. 4 Crore. PP also submitted that the stretch of Road from SH-10 to Cement Plant is currently being paved and widened (from 3.5 m to 14 m) with a budget of Rs. 6.5 Crore.

6. Observation and Recommendation of the Committee:

The proposal for amendment in ToR was considered in the 45th EAC (Non-Coal Mining) meeting held during 24th, 25th and 27th January, 2022. After detailed deliberations made by the Project Proponent and the Consultant, the Committee noted that the instant proposal is for Amendment in ToR dated 19.11.2020 *w.r.t. to amend the Specific ToR Condition of Point 1 regarding transportation of mineral through conveyor belt*. The Committee also noted that the same was deliberated in detail during 42nd EAC (Non-Coal Mining) meeting held during 30th November – 3rd December, 2021 for grant of Environmental Clearance. The Committee was of the view that as the PP has already carried out the Public Hearing on 24.08.2021 as per the Terms of Reference issued on 19.11.2020 for the given scope, request for amendment in ToR dated 19.11.2020 *w.r.t. to amend the Specific ToR Condition of Point 1 (The transportation of mineral has to be carried out through conveyor belt and the installation of conveyor belt shall be complete before commencing the operations)* cannot be accepted. The Committee advised the PP to submit the details on the schedule of installation of conveyor belt and impacts in the EIA report. PP also vide email/letter dated 27.01.2022 informed that the company will comply with the specific condition 1 of ToR and will submit the revised transportation through Over-Land-Belt Conveyor as part of the additional documents sought by the EAC for grant of EC. Therefore, the Committee **returned the proposal in present form.**

3.3 Proposal for Amendment in ToR dated 31.12.2020 for M/s JSW Steel Ltd for Narayanposhi Iron and Manganese Ore Mine for production of 10 million TPA (ROM) of Iron Ore with total excavation of 10.815 million TPA (ROM 10 MTPA + OB 0.815 MTPA) and 0.036 million TPA of Manganese Ore (ROM) with total excavation of 0.3059 million TPA (ROM 0.036 MTPA + OB 0.269 MTPA), along with Screening, Crushing and 6 MTPA Beneficiation Plant in the mine lease area of 347.008ha (As per DGPS) / 349.254ha (As per ROR) in Harischandrapur, Koira, Kashira, Kusumdihi and Kathamala RF Villages under Koira Tehsil of Sundargarh District, Odisha– [File. No: J-11015/62/2020-IA.II (M); Proposal No: IA/OR/MIN/248209/2021, Consultant: Vimta Labs Ltd.] - Amendment in ToR

EAC Meeting Details:

| | |
|-----------------|--|
| EAC meeting | 45 th |
| Date of Meeting | 24 th , 25 th and 27 th January, 2022 |

The proposal of M/s JSW Steel Ltd is for amendment in ToR dated 31.12.2020 for Narayanposhi Iron and Manganese Ore Mine for production of 10 million TPA (ROM) of Iron Ore with total excavation of 10.815 million TPA (ROM 10 MTPA + OB 0.815 MTPA) and 0.036 million TPA of Manganese Ore (ROM) with total excavation of 0.3059 million TPA (ROM 0.036 MTPA + OB 0.269 MTPA), along with Screening, Crushing and 6 MTPA Beneficiation Plant in the mine lease area of

347.008ha (As per DGPS) / 349.254ha (As per ROR) in Harischandrapur, Koira, Kashira, Kusumdihi and Kathamala RF Villages under Koira Tehsil of Sundargarh District, Odisha. The mine lease area is located between Latitude 21°54'46.07"N - 21°56'23.13"N and Longitude 85°13'41.16" E - 85°14'56.56" E. The mine lease area falls under the Survey of India Toposheet No: 73 F/4,F/8,G/1,G/5 and falls in Seismic Zoe-II. The Project Proponent presented the KML file during the presentation to indicate the location of mine lease on Google Earth.

2. M/s JSW Steel Ltd has made an online application vide proposal no: IA/OR/MIN/248209/2021 dated 11.01.2022 and submitted Form 3 with revised Form 1 and Prefeasibility report under the provisions of the EIA Notification, 2006. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals and 2(b) Mineral beneficiation under Category "A" of the schedule of the EIA Notification, 2006 as the mining lease area is greater than 100 ha and appraised at Central level.

3. The Project Proponent obtained Terms of Reference vide ToR Lr No: J-11015/62/2020-IA.II(M) dated 31.12.2020 for production of 10 million TPA (ROM) of Iron Ore with total excavation of 10.815 million TPA (ROM 10 MTPA + OB 0.815 MTPA) and 0.036 million TPA of Manganese Ore (ROM) with total excavation of 0.3059 million TPA (ROM 0.036 MTPA + OB 0.269 MTPA), along with Screening, Crushing and 6 MTPA Beneficiation Plant in the mine lease area of 347.008ha (As per DGPS) / 349.254ha (As per ROR).

4. Now, the Project Proponent requested to amend the ToR due to Modification of Mining Plan along with the Progressive Mine Closure Plan approved by Indian Bureau of Mines (IBM) vide Lr No: MPM/A/08-ORI/BHU/2021-22/742 dated: 05.08.2021 and sought amendment as mentioned below: -

| S. No | Reference of approved ToR dated 31.12.2020 | Description as per approved ToR dated 31.12.2020 | Amendment Sought by project proponent |
|-------|--|--|---|
| 1 | Point.no.1 Page 1, of 28, Point.no.13 Page 4, of 28 (Total Excavation) | 10 million TPA (ROM) of Iron Ore with total excavation of 10.815 million TPA (ROM 10 MTPA + OB 0.815 MTPA) and 0.036 million TPA of Manganese Ore (ROM) with total excavation of 0.3059 million TPA (ROM 0.036 MTPA + OB 0.269 MTPA) | 10 million TPA (ROM) of Iron Ore with total excavation of 14.216 million TPA (ROM 10 MTPA + OB 4.216 MTPA) and 0.036 million TPA of Manganese Ore (ROM) with total excavation of 0.259 million TPA (ROM 0.036 MTPA + OB 0.223 MTPA) |
| 2 | Point no.6 Page 2 of 28 (Approval of Mining Plan) | Letter No: MP/A/14-OR/BHU/2020-21 Dated 08.09.2020. | Letter no. MPM/A/08-ORI/BHU/2021-22 Dated: 05.08.2021. |
| 3 | Point no.7 Page 3 of | Bench Height = 9 m - Iron | Bench Height = 9 m -Iron |

| | | | |
|---|--|--|---|
| | 28 (Height and Width of the Benches for Iron and Manganese Ore) | Bench Width = 15 m - Iron Bench Height = 6 m -Mn Bench Width = 10 m - Mn | Bench Width = 10-12 m – Iron Bench Height = 6 m - Mn Bench Width = up to 10 m-Mn |
| 4 | Point no.7 Page 3 of 28(Working Depths) | Iron Ore: 22.35m - 165.95m Manganese Ore: 23.30 m -68.10 m | The GIST of the mine shall be maintained in consonance with the approved mining plan |
| 5 | Point.no.8 Page 3 of 28 (Total Reserves and Mineable Reserves) | Total reserves Iron: 186.05 Million tonnes (Mt) Manganèse: 0.538 Million tonnes (Mt) | Total reserves Iron: 181.03 Million tonnes (Mt) Manganèse: 0.537 Million tonnes (Mt) |
| | | Mineable reserves Iron: 185.51 Million tonnes (Mt) Manganèse: 0.507 Million tonnes (Mt) | Mineable reserves Iron: 164.79 Million tonnes (Mt) Manganèse: 0.508 Million tonnes (Mt) |
| 6 | Point.no.9 Page 4 of 28 (Water Requirement) | Water requirement = 415 m³/day | Water requirement = 568 m³/day |
| 7 | Point.no.9 Page 4 of 28 (Dewatering System) | Filter press | Filter press/ Paste Thickener |
| 8 | Point.no.12 Page 4 of 28 (Manpower requirement) | 997 | 952 |
| 9 | Point.no.13 Page 4 of 28(Central Processing Unit (CPU) and Grinding & De sliming/Beneficiation Plant & Slurry Pumping Station and Mobile Crushing and Screening Plant) | Central Processing Unit (CPU) of 1500 TPH and 6 MTPA Grinding & De sliming/ Beneficiation Plant. | Central Processing Unit (CPU) of 2000 TPH, 6 MTPA of Grinding & Beneficiation Plant for Mineral Processing and Slurry Pumping Station within Mine Lease area to transport Iron Ore Concentrate |
| | | - | Mobile Crushing and Screening Plant 400 TPH x 10 Nos. 250 TPH x 7 Nos |

5. Observation and Recommendation of the Committee:

The proposal for amendment in ToR was considered in the 45th EAC (Non-Coal Mining) meeting held during 24th, 25th and 27th January, 2022. During the meeting, the Committee noted that the instant proposal is for amendment in ToR letter dated 31.12.2020 and PP has not yet carried out the public hearing. After

detailed deliberations made by the Project Proponent and the Consultant, the committee **recommended** the proposal for amendment sought in para 4 for only SNo: 1, 2, 4, 5, 7 & 9 in ToR letter dated 31.12.2020 for Narayanposhi Iron and Manganese Ore Mine for production of 10 million TPA (ROM) of Iron Ore with total excavation of 10.815 million TPA (ROM 10 MTPA + OB 0.815 MTPA) and 0.036 million TPA of Manganese Ore (ROM) with total excavation of 0.3059 million TPA (ROM 0.036 MTPA + OB 0.269 MTPA), along with Screening, Crushing and 6 MTPA Beneficiation Plant in the mine lease area of 347.008ha (As per DGPS) / 349.254ha (As per ROR) in Harischandrapur, Koira, Kashira, Kusumdihi and Kathamala RF Villages under Koira Tehsil of Sundargarh District, Odisha.

3.4 Proposal for Environmental Clearance of M/s Nemani Ramakrishna for Kunteshu Decorative Stone (Garnetiferous Granite Gneiss) mine with the production capacity of 2400 m³/annum over an area of 13.703 Ha (33.86 Acres), located at Village Kunteshu No.52, under Tehsil: Bandhugaon, District: Koraput, Odisha – [File. No: IA-J-11015/3/2021-IA-II(M), Proposal No: IA/OR/MIN/191282/2021; Consultant: Kalyani Laboratories Private Limited] - Environmental Clearance (EC)

EAC Meeting Details:

| | |
|-----------------|--|
| EAC meeting | 45 th |
| Date of Meeting | 24 th , 25 th and 27 th January, 2022 |

The proposal of M/s Nemani Ramakrishna is for mining of Decorative Stone in Kunteshu mine with production capacity of 2400 m³/annum over an area of 13.703 ha (33.86 Acres), located at Village Kunteshu No.52, under Tehsil: Bandhugaon, District: Koraput, Odisha. The mine lease area is located between Latitude 18°59'36.09" N to 18°59'59.80"N and Longitude 83°17'41.90" to 83°17'52.90"E. The mine lease area falls under the Survey of India Toposheet No: 65M/8 (E44F8) and falls in Seismic Zone-III.

2. M/s Nemani Ramakrishna has made an online application vide proposal no. IA/HR/MIN/197727/2021 dated 01.01.2022 along with Form 2 and EIA Report 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 interstate boundary of Odisha-Andhra Pradesh is located about ~1.5 km, SE from the mine lease boundary.

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

| Date of application | Proposal No | Consideration | Details | Date of accord |
|---------------------|-----------------------|--|---|----------------|
| 05.01.2021 | IA/OR/MIN/191282/2021 | 3 rd -5 th Feb, 2021 | Production capacity of 2400m ³ /annum of Decorative Stone over | 02.03.2021 |

| | | | | |
|--|--|--|----------------------|--|
| | | | an area of 13.703 Ha | |
|--|--|--|----------------------|--|

4. Details of Mine lease

| S.no | Prospecting Licence/ Letter of Intent | Date of the grant | Name of the Mineral | Period of Grant | Granted by | Mine lease area in Ha |
|------|--|-------------------|---------------------|--|----------------------|-----------------------|
| 1 | Prospecting Licence vide Order No-10859/DM | 02.12.2016 | Decorative Stone | 2 years | Government of Odisha | 13.703ha |
| 2 | Letter of Intent for grant of mining lease for a period of 30 years vide Lr.no. 6538/IV (DS) SM-03/2019/S&M, Bhubaneswar | 05.09.2019 | Decorative Stone | Valid for a period of 6 months from the date of its issuance | Government of Odisha | 13.703ha |

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

| | |
|---|-----------|
| Private land | Nil |
| Government land | 13.703 ha |
| Total Mining lease area (MLA) | 13.703 ha |
| Private land for crusher, workshop & other infrastructure outside the MLA | Nil |

6. The Project Proponent submitted that the Mining Plan with Progressive Mine Closure Plan was approved by Directorate of Mines, Odisha, Bhubaneswar vide letter No. MXXII-(a) 10/2019/5103/ DM dated 27.07.2020 over an area of 13.703ha.

7. The Project Proponent submitted that the opencast semi mechanized method of mining with drilling and blasting will be adopted. PP reported that the Geological reserve is 3,75,519m³ and Mineable reserve is 2,81,596m³. Life of the mine is 50 years. PP also reported that the height of the benches will be maintained at 3m and width of the benches will be more than bench height. Slope of the benches will be maintained at 70° to 80° and overall slope of the benches will be <45°. PP submitted that the 30 Tonne Dumper will be used for transportation. PP also submitted the Letter dated 18.12.2020 obtained from the local panchayat stating that Kissam Pahada is allowed to utilize the panchayat road of Kunteshu village for transportation of decorative stone with number of trucks per day and in this regard the maintenance of panchayat road will be done by PP. During the plan period of five years non

saleable stone will be 2,990m³ and total volume of waste will be 44,850m³. These wastes will be utilized con-currently for construction and maintenance of road in the lease area. For temporary storing of these wastes, an area of 0.423 ha has been earmarked in the southern part of the mining lease area. Exhausted Quarry area will be utilized as water reservoirs with proper bench plantation and fencing. PP reported that the ground water table occurs at 490 mRL in Pre monsoon and 480 mRL in Post monsoon. The mining will go upto the maximum depth of 588 mRL and hence there will be no ground water intersection due to mining activity. PP also submitted the letter from Mining Officer, Koraput that there are no other granted decorative stone mines exist within 500m radius.

8. The Project Proponent submitted that the total water requirement for the project will be 5.0 KLD out of which 2.0 KLD will be required for drinking and domestic purpose and 1.5 KLD for dust suppression and 1.5 KLD for plantation purpose. The water required for mining activity will be purchased through tanker. During the 1st two year of plan period the total water of 5.0 KLD will be sourced through tanker. Later, 1.5 KLD will be purchased and rest 3.5 KLD will be sourced from the rain water harvesting pit.

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

| Particulars | Particular's Name | Distance & Directions |
|-------------------------------|-----------------------------|-----------------------|
| Nearest Highway/State Highway | SH 4: | 11 Km, NW |
| Nearest Railway Station | Jemedipeta Railway Station: | 14 Km, NE |
| | Ledda Railway Station: | 17 Km, E |
| Nearest major habitation | Bandhugaon: | 9 Km, SW |
| Intersect Boundaries | Odisha-Andhrapradesh: | 1.5 Km, SE |
| Nearest Waterbodies | Rani turga Nadi: | 10 Km, W |
| | Nagabali River | 15 Km, E |

10. The Project Proponent submitted that there is no forest land involved in the mine lease area. The land use pattern of the mining lease area comes under the non-forest agricultural land (Abada Ajogya Anabadi), bearing Khata no.67, Plot no.385 (13.21Acres) and 397 (20.65 Acres), Kissam: Pahada. PP also submitted the letter from DFO, Koraput Forest Division vide Lr.No.4882/dated 03.10.2017 that the mining lease is not coming under DLC of Koraput District and it does not attract any provision of Forest Conservation Act, 1980 and hence it can be considered for M.L. PP further submitted that there are no National Park, Wildlife Sanctuary, Eco Sensitive Areas, Biosphere reserves, Elephant/Tiger Reserves within 10km radius of the study area.

11. The Project Proponent reported that there is no Schedule-I species found in the study area.

12. The Project Proponent submitted that the green belt is proposed to be developed in a width of 7.5 m in safety zone along the boundary of mine lease area

covering an area of 2.3 ha with saplings of 2,700 no.s. PP also submitted that species such as Mango, Neem, Mahaneem, Chakunda, Teak, Salapa, Sal & Mahua are proposed for plantation. PP earmarked a budget of Rs. 2,70,000/- towards development of green belt till the life of the mine.

13. Baseline details:

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

| Period | October - December 2020 | | | | |
|--------------------------------------|---|--|---|-------------------------------------|------------------------------------|
| AAQ parameters at 8 locations | Pollutant | Min, $\mu\text{g}/\text{m}^3$ | Max, $\mu\text{g}/\text{m}^3$ | 98 %ile, $\mu\text{g}/\text{m}^3$ | Standard, $\mu\text{g}/\text{m}^3$ |
| | PM2.5 | 16.8 | 22.6 | 21.0 | 60 |
| | PM10 | 29.2 | 53.8 | 31.8 | 100 |
| | SO2 | 6.3 | 14.4 | 10.0 | 80 |
| | NOx | 9.6 | 16.7 | 16.0 | 80 |
| AAQ modelling (Incremental GLC) | Pollutant | Baseline Concentration, $\mu\text{g}/\text{m}^3$ | Incremental Concentration, $\mu\text{g}/\text{m}^3$ | Total GLC, $\mu\text{g}/\text{m}^3$ | Standard |
| | PM2.5 | 20.7 | 0 | 20.7 | 60 |
| | PM10 | 31.8 | 1.15 | 32.95 | 100 |
| | SO2 | 10.4 | 0 | 10.4 | 80 |
| | NOx | 16.7 | 0 | 16.7 | 80 |
| Noise level at 8 locations | Day Time: 40.1 to 43.2 Leq dB (A) Night Time: 28.4 to 32.4 Leq dB (A) | | | | |
| Ground water quality at 7 locations | PP submitted that pH of the ground water varied from 6.5-7.6, Chlorides ranged from 6.0-18.0 mg/L, Sulphates value found to be less than 0.01, Fluoride Ranges low in lease area i.e. <0.05, Hardness varied from 48-80 mg/l, Total dissolved solid 70-140mg/l. The ground water has been analysed as per IS10500: 2012 and found to be suitable for drinking purpose. | | | | |
| Surface water quality at 2 locations | PP submitted that the pH of the water sample varied from 7.0 to 7.2, EC value ranged between 0.180-0.200 mS/cm, D.O varied from 6.8-7.1 mg/l, BOD in nearby waterbody is less than 2 mg/L, TDS ranged from 120-150 mg/l & total hardness varied from 80-100. All the parameters analyzed are under the prescribed limit as per IS 2296:1982 as per class C and the water does not contain any pollutants which would be hazardous for human, animal or crop health. | | | | |
| Soil quality at 4 | PP submitted that the pH of the soil is slightly acidic (6.5-7.3). The total organic carbon content of the soil found to be 0.15-0.91 Kg/Ha) | | | | |

| | |
|---------------|--|
| locations | i.e., low to medium fertile. Available phosphorus content in the soil varied from 55-146 Kg/Ha i.e., most of the soil contains medium to high quantity of phosphorus. Available potassium in soil found in the range of 53.8-121 Kg/Ha i.e., low to medium fertile. Available Nitrogen in soils found in the range from 166 Kg/Ha - 221 Kg/Ha i.e., low in nitrogen content. |
| Traffic study | PP submitted that the traffic density study was conducted near Kumbhariput village on the panchayat road connecting SH 4 at a distance of 4 km from the project site. The V/C ration on the panchayat road connecting the Kunteshu village to SH 4 is very less i.e., only 0.025. However, with the commencement of mining activity maximum of 3 trucks will carry decorative stone from the lease area to the polishing unit which will have additional PCU load of 10 PCU. So, with the additional PCU load due to mining operation the V/C ratio will remain as 0.034 with LoS A. |

14. Public Hearing (PH) Details

| | |
|--|--|
| Advertisement for PH with date | 27.08.2021 in The Samaj (Odia Daily) and The Times of India |
| Date of PH | 29.09.2021 |
| Venue | Mundapadar Village of Bandhugaon Tehsil of Koraput Dist. |
| Chaired by | Additional District Magistrate, Koraput |
| Main issues raised during PH | Employment, Skill development for local youth, Health facility, Mother and child health care, educational infrastructure development, road maintenance, Drinking water supply, Solar light, Pollution Control and surface runoff management. |
| Budget proposed for addressing issues raised during PH | Rs 42.80 Lakhs |

15. The Project Proponent submitted that the Resettlement & Rehabilitation (R&R) is not applicable for this project.

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

17. Affidavit/Undertaking details

| | |
|----------------------------------|--|
| Undertaking of Project Proponent | PP submitted that in Line with MoEF OM no. J-11013/41/2006-IA.II(I) dated 5 th October 2011, we hereby give our undertaking for owning the content and information provided in the EIA/EMP report submitted for EC of the proposed Kunteshu Decorative Stone mining at Village-Kunteshu, Tahasil-Bandhugaon, Dist-Koraput, Odisha, over an area of 13.703Ha of Sri Nemani Rama Krishna. |
|----------------------------------|--|

| | |
|--|---|
| Undertaking of Consultant | The Terms of Reference issued by MoEF&CC, New Delhi vide letter no. J-11015/3/2021-IA.II (M) dated 02.03.2021 have been complied with and data provided in the EIA/EMP report is factually correct. |
| Plagiarism Certificate checked on 29.04.2021 | The Head of the Accredited Consultant Organization/ Authorized person certified that this EIA Report has been evaluated by using online/in-house software viz., https://smallseotools.com/plagiarism-checker/ . There port produced has been analysed by the system and based on it, I certify that the EIA Report produce in accordance with good scientific practice. |

18. Details of the EMP

| Sl. No. | Particulars | Capital cost (Rs. Lakh) | Particulars | Recurring Cost (Rs. Lakh) |
|-------------|--|-------------------------|---|---------------------------|
| I. | Pollution Control | | Pollution Control | |
| 1. | Water Tanker for water sprinkling | 1.00 | Regular Water sprinkling in the dust prone areas | 0.5 |
| 2. | Garland drains & retaining walls around the dump (m) | 2.00 | Maintenance of garlan drain, settling tank & retaining wall | 1.0 |
| 3. | Construction of Rain water harvesting Structure cum settling tank (40x40x5m) | 3.00 | Sub Total | 1.5 |
| | Sub Total | 7.00 | Pollution Monitoring | |
| II. | Occupational Health | | Air pollution Monitoring | 1.5 |
| 1 | Safety equipment's (25 Sets) | 0.5 | Water Pollution Monitoring | 0.5 |
| 2 | Occupational health check-up for 25 persons | 0.5 | Noise monitoring | 0.2 |
| | Sub Total | 1.00 | Sub Total | 2.2 |
| III. | Green Belt (Pitting, Sapling cost, Manuring) | 2.7 | Occupational Health | |
| IV. | Miscellaneous | 0.5 | PPEs for workers (Replacement of PPE kits) | 0.5 |
| | Grand Total | 11.2 | Regular health check ups | 0.5 |
| | | | Sub Total | 1.0 |
| | | | Green Belt | 1.0 |

| Sl. No. | Particulars | Capital cost (Rs. Lakh) | Particulars | Recurring Cost (Rs. Lakh) |
|---------|-------------|-------------------------|--------------|---------------------------|
| | | | Total | 5.7 |

19. Details of project cost and employment:

| Particulars | (Rs. In Crore) |
|---|----------------|
| Capital Cost for Environment Protection | 0.11 |
| Budget for addressing the Public Hearing issues | 0.42 |
| Total Cost for EMP | 0.53 |
| Recurring Cost for EMP | 0.05 |
| Project Cost | 2.0 |
| Employment | 25 Persons |

20. Observation and Recommendation of the Committee:

The proposal for Environmental Clearance was considered in the 45th EAC (Non-Coal Mining) meeting held during 24th, 25th and 27th January, 2022. During the meeting, the Committee noted that the instant proposal is for mining of Decorative Stone which is a minor mineral and hence District Survey Report (DSR) is mandatory as per Ministry's Notification S.O. 3611(E) dated 25.07.2018 and the same has not been submitted by the PP. The Committee also noted that the PP obtained the Letter of Intent (LOI) for grant of mining lease vide Lr.no. 6538/IV (DS) SM-03/2019/ S&M, Bhubaneswar dated 05.09.2019 for a period of 30 years over an area of 13.703ha and the Letter of Intent (LOI) was only valid for a period of 6 months from the date of issue and PP has not submitted any further extension of validity of Letter of Intent (LOI), Grant of Mining lease and lease deed execution in the Parivesh portal. The Committee opined that valid lease document is the basis for considering the proposal and in the instant proposal PP has no valid mine lease document in support of the fact that Proponent is the rightful lessee of the mine as on date. Thus, the Committee was of the view that the proposal cannot be considered in the present form and therefore the Committee **deferred** the proposal for want of following additional information:-

- i. The Project Proponent needs to submit the valid mine lease document in support of the fact that Proponent is the rightful lessee of the mine. PP also needs to submit the copy of extension of LoI issued after 05.09.2019, Grant of Mining lease and lease deed execution in the PARIVESH portal.
- ii. As per the sub section (4) of the section 4A of MMDR Act, 1957 as amended on 28.03.2021 *“where the Central Government has communicated previous approval as required under sub-section (1) of section 5 for grant of a mining lease, or if a letter of intent (by whatever name called) has been issued by the State Government to grant a mining lease, before the commencement of the Mines and Minerals (Development and Regulation) Amendment Act, 2015,*

the mining lease shall be granted subject to fulfilment of the conditions of the previous approval or of the letter of intent within a period of two years from the date of commencement of the said Act". PP needs to submit the letter regarding current status of the mine lease from the State Government.

- iii. The Project Proponent needs to submit the normative and peak total excavation in tonnes including mineral, overburden, inter-burden, waste, top soil, rejects etc. to be handled annually and the management of topsoil and waste needs to be properly addressed. The mineable reserves, blocked reserves need to be mentioned along with the life of mine. Waste to be generated during the entire life of mine and details of the location of dumping/backfilling area need to be submitted.
- iv. The Project Proponent needs to submit the District Survey Report (DSR) as per Ministry's notification S.O 3611 (E) dated 25th July, 2018.
- v. The Project Proponent needs to submit the copy of the letter issued by the Divisional Forest Officer (DFO), Koraput Forest Division vide Lr.No.4882/dated 03.10.2017 in the PARIVESH portal.
- vi. The Project Proponent should submit list of Schedule – I species present in the lease area authenticated by PCCF and the status of the National Park/Wildlife Sanctuary, Biosphere Reserve/Tiger Reserve/Elephant Reserve/any other Reserve, Habitat for migratory birds, Corridor for animals within 10 km of the mine lease area.
- vii. The Project Proponent needs to submit the complete Mining Plan in the PARIVESH portal.
- viii. The Project Proponent needs to submit the Affidavit as per Ministry's O.M No 3-50/2017-IA.II(M) dated 30.05.2018.
- ix. The Project Proponent needs to submit the Authorization letter in the PARIVESH portal.

3.5 Proposal for Amendment in ToR dated 29.10.2021 for M/s. UltraTech Cement Ltd for Proposed Borkhedi-Nayagaon Limestone Mine with Limestone Production Capacity 2.5 Million TPA, Soil: 0.17 Million TPA, Subgrade: 1.46 Million TPA, Overburden: 0.46 Million TPA (Total Excavation: 4.59 Million TPA) along with installation of 1200 TPH Capacity of Crusher in the mine lease area of 453.423 ha, located at Villages: Borkhedi & Nayagaon, Tehsil: Jawad, District: Neemuch, Madhya Pradesh - [File. No: J-11015/68/2021-IA.II(M), Proposal No: IA/MP/MIN/249270/2021; Consultant: JM EnviroNet Pvt. Ltd.] - Amendment in ToR

EAC Meeting Details:

| | |
|-----------------|--|
| EAC meeting | 45 th |
| Date of Meeting | 24 th , 25 th and 27 th January, 2022 |

The proposal of M/s. UltraTech Cement Ltd is for amendment in ToR dated 29.10.2021 *w.r.t. to amend the Specific ToR Condition of Point 5, 7 and 10* for Proposed Borkhedi-Nayagaon Limestone Mine with Limestone Production Capacity 2.5 Million TPA, Soil: 0.17 Million TPA, Subgrade: 1.46 Million TPA, Overburden: 0.46 Million TPA (Total Excavation: 4.59 Million TPA) along with installation of 1200 TPH Capacity of Crusher in the mine lease area of 453.423 ha, located at Villages: Borkhedi & Nayagaon, Tehsil: Jawad, District: Neemuch, Madhya Pradesh. The mine lease area is located between Latitude 24°33'55.62" N to 24°35'36.28" N and Longitude 74°45'29.09" E to 74°47'43.48" E. The mine lease area falls under the Survey of India Toposheet No: G43U10, G43U11, G43U14 & G43U15 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. UltraTech Cement Ltd has made an online application vide proposal no: IA/MP/MIN/249270/2021 dated 11.01.2022 and submitted Form 3 with revised Form 1 and Prefeasibility report under the provisions of the EIA Notification, 2006. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals under Category "A" of the schedule of the EIA Notification, 2006 as the mining lease area is greater than 100 ha and appraised at Central level.

3. The Project Proponent obtained Terms of Reference vide ToR Lr No: J-11015/68/2021-IA.II(M) dated 29.10.2021 for Borkhedi-Nayagaon Limestone Mine with Limestone Production Capacity 2.5 Million TPA, Soil: 0.17 Million TPA, Subgrade: 1.46 Million TPA, Overburden: 0.46 Million TPA (Total Excavation: 4.59 Million TPA) along with installation of 1200 TPH Capacity of Crusher in the mine lease area of 453.423 ha, located at Villages: Borkhedi & Nayagaon, Tehsil: Jawad, District: Neemuch, Madhya Pradesh.

4. Now, the Project Proponent requested to amend the Specific ToR Condition of Point 5, 7 and 10 of ToR Letter dated 29.10.2021 as mentioned below: -

| S. No | Reference of ToR dated 29.10.2021 | Description | Reason for Amendment |
|-------|--|--|--|
| 1 | Specific ToR v. The Project Proponent needs to submit the plan for protection of nallah, embankment, garland drains and settling ponds. An | PP submitted that there is no Nallah & Road in ML area. The ML Area has already been granted by excluding Nallah and road along with its safety barrier, as per Rule 12 of MCR 2016. 50 m safety barrier has already | PP submitted that the 100m safety barrier as advised by the MoEF&CC, resulting blockage of 11.02 million tonne of reserve comes in |

| | | | |
|---|---|---|--|
| | <p>additional distance of 100 meters as a safety barrier on the both side of the nallah, embankment, garland drains and settling ponds shall be left apart from the distance already left while granting lease area by State Govt. as informed by PP. A safety barrier shall also be created all along the roads by leaving 100 meters distance (each side) in the direction of habitation and 100 meters distance (each side) in rest of the road.</p> | <p>been left along nallah and accordingly Mining Plan along with Progressive Mine Closure Plan has been approved by IBM, Jabalpur vide Letter no. MP/Neemuch/Limestone/MPLN/G-12/202021/ 3263, dated 27.11.2020. PP also submitted that they will protect the nallah with embankment, garland drains, settling ponds and quality of nallah will be monitored regularly. Also controlled blasting will be practiced in the vicinity of these area. Detailed plan will be incorporated with the EIA/EMP Report.</p> | <p>safety barrier of road & 13.27 million tonne reserve along the nallah). Total blockage of mineral will be 24.29 million Ton. The mine shall be contributing Rs. 615.92 Crore to the State and Central Govt. in form of Royalty, DMF & NMET, considering the reserves of 58.326 million ton. In case of additional 100m safety barrier, the reserve becomes 34.04 million ton & accordingly the revenue will be reduced from Rs 615.92 Crore to 359.46 Crores. Life of the mine will be also be reduced from 27 years to 17 years.</p> |
| 2 | <p>Specific ToR vii. The Project Proponent needs to submit an undertaking that no mining activity will be carried out in Block 1 and the peripheral plantation should be done in the entire Block-1.</p> | <p>PP submitted that since, no mining activity shall be carried out in Block-1, no land will be purchased in that block. The Block-1 shall remain in the present form for use of the land for agriculture purpose.</p> | <p>PP submitted that since no mining activity proposed and no land will be purchased in the Block-1. So, it's difficult to acquire land for peripheral plantation.</p> |
| 3 | <p>Specific ToR x. The Project proponent shall ensure that non-saleable or subgrade mineral shall not be used for backfilling purpose and stacked separately on earmarked site.</p> | <p>PP submitted that at conceptual stage, 23.159 million tonne sub-grade will be generated out of which 22.158 million tonne will be stored inside pit covering an area of 24.969 ha and 1.001 million tonne will be stored on surface covering an area of 9.0 ha. No overburden/ waste material will be mixed with sub</p> | <p>PP submitted that the sub grade mineral will be stored in-side pit, with sufficient distance from OB/ Waste material and hence no chance of mixing of sub grade with OB/ Waste material. Whenever, there will</p> |

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| <p>The overburden and waste material obtained during mining operations shall not be mixed with non-saleable or subgrade minerals/ores. The ground selected for dumping of overburden, waste material, the subgrade or non-saleable ores/minerals shall be away from working pit.</p> | <p>grade mineral at any point of time. Accordingly Mining Plan along with Progressive Mine Closure Plan has been approved by IBM, Jabalpur dated 27.11.2020.</p> | <p>be changes in technology and able to consume sub grade mineral, same may be utilized. PP also submitted that if these 22.158 million tons of subgrade will be stored in surface, it will require additional 78 ha of land resulting land degradation(considering 16 m Height of dump).</p> |
|--|--|---|

5. Observation and Recommendation of the Committee:

The proposal for amendment in ToR was considered in the 45th EAC (Non-Coal Mining) meeting held during 24th, 25th and 27th January, 2022. After detailed deliberations made by the Project Proponent and the Consultant, the Committee **recommended** the proposal for amendment in ToR dated 29.10.2021 as mentioned in table below for Proposed Borkhedi-Nayagaon Limestone Mine with Limestone Production Capacity 2.5 Million TPA, Soil: 0.17 Million TPA, Subgrade: 1.46 Million TPA, Overburden: 0.46 Million TPA (Total Excavation: 4.59 Million TPA) along with installation of 1200 TPH Capacity of Crusher in the mine lease area of 453.423 ha, located at Villages: Borkhedi & Nayagaon, Tehsil: Jawad, District: Neemuch, Madhya Pradesh.

| S. No | Reference of ToR dated 29.10.2021 | Deliberation of EAC | Recommendation of EAC |
|-------|---|---|---|
| 1 | <p>Specific ToR v. The Project Proponent needs to submit the plan for protection of nallah, embankment, garland drains and settling ponds. An additional distance of 100 meters as a safety barrier on the both side of the nallah, embankment, garland drains and settling ponds shall be left apart from the distance already left while granting lease area by State Govt. as informed by PP. A safety</p> | <p>The Committee not accepted the request of project proponent for amendment as proposed.</p> | <p>The Project Proponent shall maintain the 42.5 meters width along the sides of nallah and road in the final stages of mining by cutting and back filling in such a way that the safety barrier of additional 42.5m is always maintained after leaving 7.5m of safety zone plantation besides 50m of width along the</p> |

| | | | |
|---|---|--|--|
| | barrier shall also be created all along the roads by leaving 100 meters distance (each side) in the direction of habitation and 100 meters distance (each side) in rest of the road. | | nallah and road already outside the lease boundary. This should ensure maintaining 100m barrier on either side of nallah and road. |
| 2 | Specific ToR vii. The Project Proponent needs to submit an undertaking that no mining activity will be carried out in Block 1 and the peripheral plantation should be done in the entire Block-1. | The Committee accepted the request for amendment as proposed by project proponent. | The Project Proponent will continue to allow the agriculture activity and no mining activity shall take place in Block 1. |
| 3 | Specific ToR x. The Project proponent shall ensure that non-saleable or subgrade mineral shall not be used for backfilling purpose and stacked separately on earmarked site. The overburden and waste material obtained during mining operations shall not be mixed with non-saleable or subgrade minerals/ores. The ground selected for dumping of overburden, waste material, the subgrade or non-saleable ores/minerals shall be away from working pit. | The Committee not accepted the request for amendment as proposed by project proponent. | From the 6 th year onwards, PP shall dump the sub grade material in specific one or two excavated pits to fill up such excavated pits completely so that there will be no water accumulation in those pits. Accordingly, PP shall modify the Mining Plan. |

3.6 Proposal for Terms of Reference of M/s Ambuja Cements Limited for MaldiMopar Limestone Mine 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 – [File. No: J-11015/252/2008-IA.II(M), Proposal No: IA/CG/MIN/198612/2021; Consultant: J.M. EnviroNet Pvt. Ltd.] - Terms of Reference (Expansion)

EAC Meeting Details:

| | |
|-----------------|--|
| EAC meeting | 45 th |
| Date of Meeting | 24 th , 25 th and 27 th January, 2022 |

The proposal of M/s Ambuja Cements Limited is for grant of Terms of Reference for MaldiMopar Limestone Mine 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 is located between Latitude: 21°38'4"N to 21°39'47"N and Longitude: 82°02'20"E to 82°04'30"E. 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 Form 1 and Prefeasibility report under the provisions of the EIA Notification, 2006. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals and 2(b) Mineral beneficiation under Category "A" of the schedule of the EIA Notification, 2006 as the mining lease area is greater than 100 ha and appraised at Central level. The Ministry examined the proposal and sought EDS on 10.03.2021 that PP needs to submit Certified Compliance Report; PP needs to submit past production details; PP needs to submit complete approved mining plan. Then, the proposal was delisted on 13.04.2021 from the PARIVESH portal. The Project Proponent relisted the proposal on 19.11.2021 and submitted the reply for the EDS on 17.12.2021 in PARIVESH portal.

3. **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 |

4. 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. 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. 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.

5. 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 |

6. 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, 3.0MT 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). |

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

| Particulars | Villages | Directions |
|-------------------------|---|---|
| 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 | ~ 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 |

| | | |
|--|-------------|--------------|
| | Khorsi Nala | ~ 7.5 km, SE |
|--|-------------|--------------|

8. 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. | | | |

9. 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.

10. 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*).

11. 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.

12. Previous EC compliance and production details:

| Particulars | Letter no. and date |
|----------------------|---|
| Consent to Establish | Issued by Chhattisgarh Environment Conservation Board vide No. 3056/TS/CECB/2012 Raipur, dated 06.09.2012 |

| | |
|--------------------------------|--|
| (CTE) | 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 | 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 |
| Certified past production | 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). |

13. 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.

14. 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.

15. 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 |

16. Observation and Recommendation of the Committee:

The proposal for Terms of Reference (Expansion) was 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.

List of members of Expert Appraisal Committee participated through VC

| S.No. | Member Name | Member Address | Designation | 24 th Jan, 2022 | 25 th Jan, 2022 | 27 th Jan, 2022 |
|-------|--------------------------|---|-------------|----------------------------|----------------------------|----------------------------|
| 1 | Dr. S.R. Wate | Add. 148/149, Nagar Vikas Society, Narendra Nagar, Nagpur-440015, Maharashtra | Chairman | Yes | Yes | Yes |
| 2 | Dr. Ajay Deshpande | Building A-26, Flat-403, Happy Valley Homes, Manpada, Ghodbunder Road, Thane (West) - 400610, Maharashtra | Member | Yes | No | Yes |
| 3 | Shri B Ramesh Kumar | H-No. 6-1-134/6, Balram Compound, Padmarao Nagar, Secundrabad-500025, Andhra Pradesh | Member | Yes | Yes | Yes |
| 4 | Prof. S. Ramakrishna Rao | 50-120-9/1, Tulasi Mani Regency North Extension, Seethammadhara, Visakhapatnam - 530013 Andhra Pradesh. | Member | Yes | Yes | Yes |
| 5 | Shri Santosh Gupta | Flat No. 405, Block -B, Gaur Green Vista, NyayKhand - 1, Indrapuram, Ghaziabad- 201014 | Member | No | Yes | Yes |
| 6 | Dr. Asha Rajvanshi | Wildlife Institute of Inida, Chandrabani, Dehradun- 248001 | Member | Yes | Yes | Yes |
| 7 | Shri G.P. Kundargi | Plot No. 32, MOIL Vatika, Chicholi Road, Fetri, Nagpur 441501, Maharashtra | Member | No | No | Yes |
| 8 | Dr. A.K.Malhotra | House no. 33, Sector - 11, Dwarka. (Near Gate No. - 1 of sector 11 | Member | Yes | Yes | Yes |

| | | | | | | |
|----|-----------------------------------|---|------------------|-----|-----|-----|
| | | metro Station), New Delhi – 110075. | | | | |
| 9 | Dr. Gurdeep Singh | Centre of Mining Environment, Department of Environmental Science & Engg. Indian Institute of Technology (Indian School of Mines), Dhanbad-826004 | Member | Yes | Yes | Yes |
| 10 | Dr. Parimal Chandra Bhattacharjee | A/3 Asiyan Housing Complex Maligaon, Guwahati-781011, Assam | Member | No | No | No |
| 11 | Prof. Mukesh Khare | Department of Civil Engineering, IIT, Delhi | Member | Yes | Yes | No |
| 12 | Shri V. K. Soni | Government of India, Ministry of Earth Sciences, India Meteorological Department, Mausam Bhawan, Lodi Road, New Delhi – 110003 | Member | No | No | No |
| 13 | Shri Pankaj Kulakshethra | Regional Controller of Mines, IBM Block D, Second Floor, Indira Bhawan, Civil Lines, Nagpur - 440001 | Member | Yes | Yes | Yes |
| 14 | Shri Ram Avatar | Representative of DGMS | Member | No | No | No |
| 16 | Shri Pankaj Verma | 2 nd Floor, Prithvi Block, Indira Paryawaran Bhawan, MoEF&CC, Jorbagh, New Delhi- 110003 | Member Secretary | Yes | Yes | Yes |