

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

SUMMARY RECORD OF 17TH MEETING OF THE COMMITTEE OF THE RE-CONSTITUTION OF EXPERT APPRAISAL COMMITTEE FOR ENVIRONMENTAL APPRAISAL OF NON-COAL MINING PROJECTS CONSTITUTED UNDER THE EIA NOTIFICATION, 2006.

The 17th meeting of the Re-constitution of Expert Appraisal Committee (EAC) for Environmental Appraisal of Mining Projects (Non-Coal) of the Ministry of Environment, Forest and Climate Change was held during 11-12 July, 2023 through video conference. The list of participants is annexed herewith. After login of the Committee Members through video conference link provided by NIC, discussion on each of the Agenda Items was taken up ad-seriatim.

(1.0) Deliberation & Circulation on the Minutes of 16thEAC (Non-Coal Mining) meeting held on 20th June, 2023:

The minutes of the 16thEAC meeting held on 20th June, 2023 were placed before the members of the EAC.

Day 1: 11th July, 2023 (Tuesday)

1.1 South Kaliapani mine of M/s Odisha Mining Corporation Ltd for mining of Chromite Ore without change in production capacity of 1.40 MTPA of Chromite Ore [Total Excavation: 16.64 MTPA (Production: 1.40 MTPA (ROM) + Waste Rock: 15.24 MTPA)] with increase in mine lease area from 552.457 ha to 720.727 ha along with an annual throughput capacity of 4,74,000 tonnes (0.47 million tonnes) of COB plant, located at Villages Kaliapani, Gurujangpal, Sukurangi and Saruabi, Tehsil Sukinda, District Jajpur, Odisha - [F.No: J-11015/407/2008-IA.II(M), Proposal No: IA/OR/MIN/434336/2023; Consultant: M/s MECON Limited]- Environmental Clearance

The instant proposal is for mining of Chromite Ore in South Kaliapani mine of M/s Odisha Mining Corporation Ltd without change in production capacity of 1.40 MTPA of Chromite Ore [Total Excavation: 16.64 MTPA (Production: 1.40 MTPA (ROM) + Waste Rock: 15.24 MTPA)] with increase in mine lease area from 552.457 ha to 720.727 ha along with an annual throughput capacity of 4,74,000 tonnes (0.47 million tonnes) of COB plant, located at Villages Kaliapani, Gurujangpal, Sukurangi and Saruabi, Tehsil Sukinda, District Jajpur, Odisha.

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

- i. The mine lease area is located between Latitude 21°00'49.64076"N to 21°03'25.10625"N and Longitude: 85°46'25.96764"E to 85°48'28.53433"E. The mine lease area falls under the Survey of India Toposheet No: F45N16 and falls in Seismic Zone - II.
- ii. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals & 2(b) Mineral beneficiation and falls under Category "A" as the mining lease area is greater than 250ha and appraised at the Central level.

iii. Details of previous Environmental Clearance (EC):

| Date of application | File. No/ Proposal No | Consideration | Details | Date of accord |
|---------------------|--|--|--|----------------|
| 31.10.2009 | J-11015/ 407/2008- IA.II(M) IA/OR/MIN/ 8899/2007 | - | Environmental Clearance of for an annual production capacity of 14,00,000 tonnes (1.4 million tonnes) of chromite ore by the opencast semi-mechanized method involving total mining lease area of 552.457 ha along with an annual throughput capacity of 4,74,000 tonnes (0.47 million tonnes) of COB plant. | 20.07.2010 |
| 31.08.2015 | J-11015/407/ 2008-IA.II(M) IA/OR/MIN/8 899/2007 | September 22- 24, 2015 July 21-22, 2016 | Amendment in EC dated 20.07.2020 w.r.t shifting the tailing pond area with the additional condition that the Project Proponent will take sufficient precautions and safety measures around the Tailing pond. | 06.07.2021 |

iv. Details of Terms of Reference (ToR):

| Date of application | File. No/ Proposal No | Consideration | Details | Date of accord |
|---------------------|--|--|---|----------------|
| 25.06.2022 | J-11015/407/ 2008-IA.II(M) IA/OR/MIN/2 79986/2022 | 27-29 July, 2022 & 18-20 October, 2022 | Terms of Reference (ToR) for South Kaliapani mine of M/s Odisha Mining Corporation Ltd for mining of Chromite Ore without | 07.11.2022 |

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| | | | change in production capacity of 1.40 MTPA of Chromite Ore [Total Excavation: 16.64 MTPA (Production: 1.40 MTPA (ROM) + Waste Rock: 15.24 MTPA)] with increase in mine lease area from 552.457 ha to 720.727 ha along with an annual throughput capacity of 4,74,000 tonnes (0.47 million tonnes) of COB plant, located at Villages Kaliapani, Gurujangpal, Sukurangi and Saruabi, Tehsil Sukinda, District Jajpur, Odisha | |
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v. Details of Mine lease:

- a) The Project Proponent submitted that the initially mine lease deed was executed on 22.01.1980 for a period of 20 years for the period up to 21.01.2000. Then, the Project Proponent submitted the application for renewal of mine lease before the expiry of the mine lease period and the lease was under deemed renewal stage.
- b) The Govt. of Odisha vide Order No: 2749/SM dated 26.03.2015 have extended the validity period of the lease from 22.01.2000 to 31.03.2020. Then, the Project Proponent executed the supplementary lease deed for the extended period and registered vide e-Registration ID No. 1871500004 and e-Registration document No. 11871500004 dated 06.10.2015.
- c) Further, Project Proponent submitted that the Govt. of Odisha have extended the validity period of the lease for a period of 50 years from the original period of lease i.e., from 22.01.1980 to 21.01.2030. Accordingly, the Project Proponent executed the supplementary lease deed on 12.08.2016 between the Governor of Odisha and M/s Odisha Mining Corporation Ltd for the period upto 21.01.2030.
- d) Thereafter, the Govt. of Odisha vide Lr No. 10647/III(Cr)SM-03/2013/SM, Bhubaneswar dated 14.12.2021 granted the mining lease over an area of 168.948 ha of non-mineralised land in favour of M/s Odisha Mining Corporation Ltd to be included in its South Kaliapani Chromite Mining lease with existing area of 552.457 ha for a period co-terminus with the validity of the South Kaliapani Chromite Mining lease for the specific use for dumping of overburden dumps (OB) from its existing chromite mines at South Kaliapani and Sukurangi mining lease in Jajpur District.

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

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|---|---|
| Forest Land | 594.346 ha |
| Private land | 8.009 ha |
| Government land | 119.050 ha |
| Total Mining lease area (MLA) | 720.727 ha as per DGPS/ 721.405 ha as per ML grant orders (including 168.948 Ha of additional granted area) |
| Private land for crusher, workshop & other infrastructure outside the MLA | NA |
| Additional information (if any) | The Project Proponent has submitted that the surface right has been obtained over an area of 721.25 acres vide letter dated 19.08.1985. |

vii. Details of Mining Plan: -

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| Modification of Review of Mining Plan along with the Progressive Mine Closure Plan approved by Indian Bureau of Mines (IBM) | Letter No. | BBS/JJP/CR/2015/MPM/2022-23 | |
| | Date | 12.05.2022 | |
| | Mine Lease area, Ha | 720.727 Ha | |
| | Mineral | Chromite | |
| | Validity | 2022-23 to 2024-25 | |
| Mining Parameters | Quantitative Description | | |
| Method of Mining | Open Cast Mechanized Mining | | |
| Total Mineral Reserves + Resources | 1,16,21,334 Tonnes | | |
| Life of mine | 9 years | | |
| Bench Height | 6 m | | |
| Bench Width | 11 m | | |
| Individual bench slope | 70 ⁰ -80 ⁰ | | |
| Overall pit slope | 18-29 ⁰ | | |
| Drilling/Blasting | HEMM with deep hole drilling & blasting with combination of loaders and tippers. | | |
| RoM output size | Type of crusher | Product size in mm | |
| | Hammer Mill (New COBP) | -18 | |
| | Rock Breaker (New COBP) | -300 | |
| | Hammer Mill (Old COBP) | -18 | |
| | Mobile Jaw/Cone Crushing & Screening Plant | -100 | |
| Transportation details | By trucks to nearby railway siding(s) at buyers' discretion | | |
| Dumpers capacity | 30-45 T | | |
| Mineral Beneficiation | Crushing & screening. Wet beneficiation of beneficiable ore | | |
| Topsoil | Project Proponent reported that during the initial three years, ~0.193 Mm ³ of top soil is expected to | | |

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| | be generated. Top soil will not be stored. Top soil generated will be spread over stabilised portions of the existing external waste dumps as part of biological reclamation. |
| Waste Generation | PP reported that it has been estimated that approximately 76.9 million cu.m of overburden will be generated till the end of conceptual period. About 1.672 million tonnes of sub grade material will be generated up to the conceptual stage. ~2.16 MT of tailings will be generated from the COB Plant till end of conceptual period. |
| Waste Disposal | PP submitted that initially the wastes will be dumped. These dumps will be compacted and afforested on the terraces as well as along the slopes after spreading a layer of top soil over it before rehabilitation. |
| Present Proposal | PP submitted that the proposed project is only for increase in mine lease area. No increase in production capacity or change in mining technology or increase in beneficiation capacity or change in beneficiation technology are proposed in the present proposal. |

viii. Water requirement:

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|---------------------------------|--|---------------|--------------------------|
| Total water requirement | Potable: 120 m ³ /day | Fresh water | 120 m ³ /day |
| | Industrial: 2200 m ³ /day | Treated water | 2200 m ³ /day |
| Source | Industrial: Recycled effluents/mine discharge water Potable: Bore-wells | | |
| Permission | Project Proponent has submitted that the NOC for groundwater abstraction has been obtained from CGWA vide letter No. CGWA/NOC/MIN/REN/2/2022/7117, dated 26.10.2021 for abstraction of fresh water of 120.0 m ³ /day and dewatering of 21,557 m ³ /day and is valid upto 25.10.2023. | | |
| Additional information (if any) | PP also submitted that no fresh water is utilized for Industrial purpose. | | |

ix. Nearest village / town/ highway/railway station / water bodies/monument:

| Particulars | Particular's Name | Distance & Direction |
|-------------------------|---|--|
| Nearest Town | Sukinda | ~13.5 km (SE) |
| Nearest railway station | Baghupal on Padapahar Jn. | ~21.5 km (E) |
| Nearest Highway | Daitari- Paradeep Express Highway | ~10 km (NE) |
| Water Bodies | a. Damsal Nala b. Talangi Nala c. Nadibarana Nala d. Pandaral Nala | 0.12 km (N) 2.4 km (NE) 4.8 km (W) 7.7 km (S) |

x. 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- 594.346 ha | Yes | <p>Project Proponent has submitted that the Stage-II Forest Clearance has been obtained over the forest area of 425.398 ha within the original mine lease area of 552.457 ha in two parts</p> <p>a) MoE&F vide F No. 8-15/2000-FC dated 08.06.2001 accorded diversion for an area of 146.047 ha of already broken up forest land.</p> <p>b) MoE&FCC vide file No. 8-15/2000-FC (Vol.) dated 25.02.2016 accorded diversion for an area of 279.351 ha of forest land including 2.790 ha for safety zone in addition to 146.047 ha of forest land already diverted within total mining lease area of 552.457 ha</p> <p>Project Proponent also submitted that the Stage-I Forest Clearance granted by MoEF&CC vide F No. 8-19/2019- FC dated 15.10.2019 for diversion of 168.948 ha of forest land adjacent to South Kaliapani Mines of OMC for dumping of overburden of South Kaliapani and Sukurangi Chromite Mine.</p> |
| National park | No | Project Proponent has submitted the map authenticated by the Divisional Forest Officer, Cuttack Forest Division showing the Sanctuaries, Biosphere reserves, Elephant Reserves & Elephant Corridors from the mine lease area. |
| Wildlife Sanctuary | No | |
| Eco-Sensitive Zone(ESZ) /Eco-Sensitive Area(ESA) | No | |
| Schedule-I species | Yes | <p>Project Proponent has submitted the authenticated list of Flora and Fauna found within 10 km radius of the study area obtained from the Office of the Divisional Forest Officer, Cuttack Forest Division vide Memo no: 8529/5F (Forest Division) 15/2018, Cuttack dated 19.12.2020.</p> <p>Project Proponent has submitted the approval of Site Specific Wildlife Conservation Plan of South Kaliapani</p> |
| Wildlife Conservation Plan | Yes | |

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| | | Chromite mines approved by the Chief Conservator of Forests (WL) vide Memo no. 5911/1 WL(C) SSP-351/2012 dated 20.07.2013 with a financial forecast of Rs 2,01,14,080. |
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xi. Green belt/plantation details:

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|---|---|--|----------------------------------|---------------------------|----------------------------|-----------------------------|
| Proposed area for green belt/plantation | Year | Green Belt Location (s) | Area Proposed to be Covered (Ha) | Number of Plants Proposed | Expected Survival Rate (%) | Estimated Expenditure (INR) |
| | 1 st Yr | Existing Dump | 3.7 | 9,250 | >85% | 18,96,250 |
| | 2 nd Yr | Existing Dump | 6.0 | 15,000 | >85% | 32,25,000 |
| | 3 rd Yr | Existing Dump | 6.0 | 15,000 | >85% | 33,75,000 |
| Additional information (if any) | Cumulative work done | | | | | |
| | Sr. No | Total Expenditure Incurred up to Last Year (INR) | | Area Covered (Ha) | Number of Plants | Survival Rate (%) |
| | 01. | 4,03,52,797 | | 58.52 | 124659* | 85% |
| | *The total costing has been for 124659 plantations which includes 16000 nos of Vertiver, Lemon, Palmarosa and Napier grass. | | | | | |
| 7.5 m barrier & non-mineralized zone | | | | 5.578 ha | | |

xii. Baseline detail:

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| Baseline Data (Air / Water / Noise / Soil / Ground water table/ others) | | | | |
| Period of baseline data collection | 1 st March - 31 st May, 2022 | | | |
| Season (Summer / Pre-monsoon / Post-monsoon / Winter) | Summer Season 2022 | | | |
| Predominant Wind direction (From) | East | | | |
| Ambient Air Quality (10 locations) and results | S.No | Parameters | Winter Season | Standards ($\mu\text{g}/\text{m}^3$) |
| | 1 | PM ₁₀ | 45.0 – 90.0 $\mu\text{g}/\text{m}^3$ | 100 |
| | 2 | PM _{2.5} | 26.0 – 58.0 $\mu\text{g}/\text{m}^3$ | 60 |
| | 3 | SO ₂ | 4.0 – 10.0 $\mu\text{g}/\text{m}^3$ | 80 |
| | 4 | NO ₂ | 10.0 – 24.0 $\mu\text{g}/\text{m}^3$ | 80 |
| | 5 | CO | 0.20 – 1.64 | 2.0 mg/m ³ |

| | | mg/m ³ | |
|--|--|-------------------|-----------------|
| Noise level (10 locations) and results | Day Time: 40.3 to 63.2 Leq dB (A) Night Time: 36.5 to 59.7 Leq dB (A) | | |
| Surface Water Quality (8 no. of locations) and results | Project Proponent has submitted that pH of water samples found in the range of 7.14 to 7.85. The dissolved oxygen varied from 5.8 to 6.9 mg/l. Total coliform results in all the samples are above 500 MPN/ 100 ml which makes these surface water quality falls under Class C i.e. surface water which can be used as drinking water source after conventional treatment and disinfection. Samples were also analysed for Cr ⁺⁶ and total chromium. Hexavalent Chromium found to be in the range from 0.016 to 0.040 mg/l and Total Chromium found to be in the range from 0.041 to 0.089 mg/l. | | |
| Ground Water Quality (8 no. of locations) and results | Project Proponent reported that TDS value was found to be in the range of 74- 434 mg/L; Total alkalinity value: 20-290 mg/L; Total hardness value: 20-304 mg/L; Calcium value: 8-62.4 mg/L and Magnesium value: 1.9-48.5 mg/L. Samples were also analysed for Cr ⁺⁶ and Cr (total) and the concentration of Cr (total) were observed in traces but well within the norm of IS: 10500 (2012) for drinking water quality of 0.05 mg/l. | | |
| Soil Quality (6 no. of locations) and results | Parameters | | Observed Values |
| | pH | | 4.92 – 6.44 |
| | Electrical Conductivity (µS/cm) | | 46.3 – 197.6 |
| | Nitrogen as N (Kg/Ha) | | 369-1430 |
| | Phosphorus (Kg/Ha) | | 0.109-0.762 |
| Hydro geological study and results | Potassium (Kg/Ha) | | 148 to 719 |
| | A comprehensive hydrogeological study has been carried out by a CGWA accredited ground water professional to assess the impact on ground water due to workings of South Kaliapani chromite mines. Based on the findings of the report, CGWA has renewed the NOC [CGWA/NOC/MIN/REN/2/2022/7117 upto 25/10/2023 for dewatering 21,557 m ³ /day of mine water and 120 m ³ /day of fresh water for meeting potable water requirement of the project. The calculation given in the hydro-geological report shows that ground water demand in the sub-watershed, in which the mine is located, is a meager fraction of total annual replenishable recharge. There will be no ground water discharge from this mine and no impact on water resources is expected due to this project. | | |
| Traffic study (no. of locations) and | Project Proponent has submitted that the Traffic | | |

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| results | density analysis has been carried out at two locations on separate routes; envisaged to be used for ore transportation from the mine site to different customer location. Monitoring was carried out in May 2022. Classified volume count was recorded at hourly intervals for 24 hours continuously. The transportation of over burden to the new dump will be through the haul roads within the mine lease only. Therefore, no additional traffic on the existing public road infrastructure has been envisaged. Chromite is despatched to end-users from South Kaliapani Mines in buyers' trucks through existing roads. Since the proposed expansion project does not envisage any increase in chromite production, mineral despatch from the mine shall remain unchanged. Thus there shall be no change in the traffic pattern on public roads due South Kaliapani Mines' activities. |
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xiii. Public Hearing (PH) Details:

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| Advertisement for PH with date (Name of major national daily and one regional vernacular daily newspaper) | The New Indian Express- 05.04.2023 The Dharitri- 05.04.2023 |
| Date of PH | 19.04.2023 |
| Venue | Community Center Ground, OMC township, Kaliapani under Sukinda Tehsil of Jajpur District, Odisha. |
| Chaired by | Additional District Magistrate, Kalinganagar, Jajpur. |
| Main issues raised during PH | Related to employment, Health, Education, Drinking water, afforestation, CSR activities, Bus transportation, Dust generation, Environment. etc. |
| Budget proposed for addressing issues raised during PH | Rs. 1690.63 Lakhs |

xiv. Details of CTE/CTO, previous EC compliance and Past production:

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| Particulars | Granted by, Letter no. and date |
| Consent to Establish (CTE) | Consent to Establish (CTE) was issued by the State Pollution Control Board, Orissa vide letter no: 16706/IND-II-NOC-4702 on dated 06.10.2010 for increase in production of chromite ore (ROM) of quantity up to 14,23,500 Ton/Annum and capacity of existing COB Plant from 1.8 Lakh Ton/Annum to 3.24 Lakh Ton/Annum with additional 1.5 Lakh Ton/Annum new COB Plant (over mine lease hold area of 552.457 ha). |

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| Consent to Operate (CTO) | Consent to Operate (CTO) was issued by the State Pollution Control Board, Odisha vide letter no 3844/IND-I-CON-253(A) with Consent Order No - 368 dated 27.03.2020 for production of 1.4 MTPA of Chrome ore and COB Plant of throughput capacity of 0.47 MTPA and is valid up to 31.03.2025. | | | | |
| Certified Compliance Report | Certified Compliance Report was issued by Integrated Regional Office (IRO), Bhubaneswar vide File No: 101-284/07/EPE dated 30.05.2023. Site visit was conducted by IRO on 27.04.2023. Project Proponent submitted the action report to the IRO on 08.06.2023. | | | | |
| Certified past production | PP submitted the production details authenticated from the Office of Deputy Director of Mines; Jajpur Road Circle vide Lr No 815/Mines dated 27.05.2022 from the year 1992-93 to 2021-22. | | | | |
| | S. No | Year | Production (MTPA) | EC Capacity (MTPA) | Excess Production (MTPA) |
| | 1 | 1992-93 | 0.20 | - | |
| | 2 | 1993-94 | 0.20 | - | Exceeded the base year production of 1993-94 |
| | 3 | 1994-95 | 0.21 | - | |
| | 4 | 1995-96 | 0.47 | - | |
| | 5 | 1996-97 | 0.34 | - | |
| | 6 | 1997-98 | 0.37 | - | |
| | 7 | 1998-99 | 0.38 | - | |
| | 8 | 1999-2000 | 0.51 | - | |
| | 9 | 2000-01 | 0.24 | 0.20 | 0.04 |
| | 10 | 2001-02 | 0.75 | 0.20 | 0.54 |
| | 11 | 2002-03 | 0.67 | 0.20 | 0.46 |
| | 12 | 2003-04 | 0.71 | 0.20 | 0.50 |
| | 13 | 2004-05 | 0.65 | 0.20 | 0.44 |
| | 14 | 2005-06 | 0.61 | 0.20 | 0.41 |
| | 15 | 2006-07 | 1.20 | 0.20 | 0.99 |
| | 16 | 2007-08 | 1.15 | 0.20 | 0.94 |
| | 17 | 2008-09 | 0.90 | 0.20 | 0.69 |
| | 18 | 2009-10 | 0.49 | 0.20 | 0.29 |
| | 19 | 2010-11 | 1.10 | 0.99 | 0.02 |
| | 20 | 2011-12 | 0.41 | 1.40 | - |
| | 21 | 2012-13 | 0.52 | 1.40 | - |
| | 22 | 2013-14 | 0.48 | 1.40 | - |
| | 23 | 2014-15 | 0.65 | 1.40 | - |
| | 24 | 2015-16 | 0.83 | 1.40 | - |
| | 25 | 2016-17 | 1.00 | 1.40 | - |
| | 26 | 2017-18 | 0.75 | 1.40 | - |

| | | | | | |
|--|--|-----------|--------------------|-------------------|---|
| | 27 | 2018-19 | 10.5 | 1.40 | - |
| | 28 | 2019-20 | 0.71 | 1.40 | - |
| | 29 | 2020-21 | 0.96 | 1.40 | - |
| | 30 | 2021-22 | 0.99 | 1.40 | - |
| | 31 | 2022-23 | 1.00 | 1.40 | - |
| <p>The Project Proponent has submitted the past production details authenticated by the Dy. Director of Mines, J.K Road vide letter dated 15.09.2022 for chrome ore beneficiation plant for the period 1993-94 to 2021-22.</p> | | | | | |
| | S. No | Year | Production (in MT) | EC capacity (TPA) | |
| | 1 | 1993-94 | 166.670 | - | |
| | 2 | 1994-95 | 1976.290 | - | |
| | 3 | 1995-96 | 29,284.290 | - | |
| | 4 | 1996-97 | 56,151.900 | - | |
| | 5 | 1997-98 | 71,424.550 | - | |
| | 6 | 1998-99 | 78,176.260 | - | |
| | 7 | 1999-2000 | 1,13,479.240 | - | |
| | 8 | 2000-01 | 1,05,717.500 | - | |
| | 9 | 2001-02 | 3,04,898.910 | - | |
| | 10 | 2002-03 | 2,17,119.600 | - | |
| | 11 | 2003-04 | 1,68,635.000 | - | |
| | 12 | 2004-05 | 1,70,372.040 | - | |
| | 13 | 2005-06 | 1,79,901.170 | - | |
| | 14 | 2006-07 | 1,80,475.638 | - | |
| | 15 | 2007-08 | 1,02,841.237 | - | |
| | 16 | 2008-09 | 44,622.880 | - | |
| | 17 | 2009-10 | 35,286.745 | - | |
| | 18 | 2010-11 | 91,767.605 | 4,74,000 | |
| | 19 | 2011-12 | 83,583.588 | 4,74,000 | |
| | 20 | 2012-13 | 83,682.410 | 4,74,000 | |
| | 21 | 2013-14 | 76,280.070 | 4,74,000 | |
| | 22 | 2014-15 | 37,445.555 | 4,74,000 | |
| | 23 | 2015-16 | 29,568.310 | 4,74,000 | |
| | 24 | 2016-17 | 34,827.845 | 4,74,000 | |
| | 25 | 2017-18 | Nil | 4,74,000 | |
| | 26 | 2018-19 | Nil | 4,74,000 | |
| | 27 | 2019-20 | Nil | 4,74,000 | |
| | 28 | 2020-21 | Nil | 4,74,000 | |
| | 29 | 2021-22 | Nil | 4,74,000 | |
| Compliance of the Hon'ble Supreme Court Order dated 02.08.2017 | Project Proponent has submitted that in pursuant to the Hon'ble Supreme Court Order dated 02.08.2017 in the matter of W.P.(C) No.114/14 Common cause vs Union of | | | | |

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| <p>in the matter of W.P.(C) No.114/14 Common cause vs Union of India and Others</p> | <p>India and Others, it was deemed that during the period 2001-02 to 2010-11, the mine had produced a total of 5384427.613 tonnes of chromite without EC.</p> <p>PP also submitted that the Demand Notice was issued by the Office of Deputy Director of Mines, Jajpur Road Circle, Jajpur Road, vide notice no. 543/Mines dated 10.04.2018 for depositing Rs.1662,85,42,189/- (Rupees One thousand six hundred sixty-two crore eighty-five lakh forty two thousand one hundred eighty nine). PP submitted that the payment for the above said demand was made on 15.03.2022 and submitted the proof for the same.</p> <p>Further, PP submitted the undertaking by way of affidavit as per the Ministry's OM dated 30.05.2018 in a non-judicial stamp paper of Rs 100 bearing K 141113 dated 09.08.2018 stating that M/s OMC shall comply with all the statutory requirements and judgment of Hon'ble Supreme Court dated 2nd August 2017 in the matter of Common Cause Vs Union of India & Ors in Writ Petition (Civil) No. 114 of 2014.</p> |
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xv. Rehabilitation & Resettlement:

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| <p>R & R details</p> | <p>The Project Proponent has submitted that the mine is already in operation. The additional land allocated is a forest land. Proposed project does not envisage any leasing and / or acquisition of additional private land, hence no rehabilitation & resettlement is required for this project.</p> |
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xvi. Court Case details: The Project Proponent has submitted that there is one court case pending in the JMFC Court, Barbil, Odisha vide case. No 2(C)C.Case No.11 of 2014 and the matter is subjudice.

xvii. Undertaking details:

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|---|---|
| <p>Undertaking by Project Proponent in EIA/EMP report</p> | <p>The Project Proponent has submitted an undertaking vide letter dated 19.06.2023 stating that the prescribed Terms of Reference pertaining to South Kaliapani mine has been complied while conducting the EIA studies. The contents (information and data) as given by the Consultant in the EIA/EMP report are factually correct with full knowledge of the undersigned.</p> |
| <p>Undertaking by Consultant in EIA/EMP report</p> | <p>The Consultant (M/s MECON Limited) has submitted an undertaking vide letter dated 19.06.2023 that the EIA/EMP report has been prepared as per Terms of Reference prescribed by MoEF&CC vide ToR letter dated 07.11.2022 based on baseline environmental data</p> |

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|------------------------|--|
| | monitored by Environmental Engineering Laboratory, MECON Limited (CPCB recognized Laboratory) during Summer Season, 2022 and also undertaken that the ToR prescribed for above mentioned project has been complied while conducting the EIA-EMP studies and the data submitted is factually correct. |
| Plagiarism Certificate | The Head of the Accredited Consultant Organization certified that no unethical practices, plagiarism involved in carrying out the work and external data/text has not been used without proper acknowledgement while preparing this EIA report. |

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

| Activities | Capital Cost (Rs.) | Recurring Cost (Rs. /y) |
|---|--------------------|-------------------------|
| Pollution control | 1,14,00,000 | 33,98,400 |
| Pollution monitoring (laboratory) | Nil | 10,00,000 |
| Occupational safety | 5,00,000 | - |
| Green belt & plantation | 2,55,62,250 | - |
| Net Present Value (NPV) of Forest | 32,72,58,270 | - |
| Compensatory Afforestation | 14,49,30,460 | - |
| Wildlife Conservation | 2,01,14,080 | - |
| Socio-economic welfare measures in nearby villages (CSR budget) | - | 12,52,82,000 |
| Total | 52,97,65,060 | 12,96,80,400 |
| EMP cost for addressing PH issues (formerly called CER) | 1690,63,000 | - |

xix. Details of project cost and employment:

| Particulars | (Rs. In Crore) |
|-------------------|---|
| Total cost of EMP | Capital cost: Rs. ~52,97,65,060/- Recurring cost (per annum): Rs. 12,96,80,400/yr. EMP cost for addressing PH issues (formerly called CER) - Rs. 16,90,63,000/- |
| Project Cost | Rs. 500 Crores |
| Employment | Presently, 608 persons are deployed at the mine. After the present proposal no additional employment is envisaged as there is no increase in production. |

3. Observation and Recommendation of the EAC:

The Project Proponent/Consultant informed the EAC that the instant proposal is for expansion in mine lease area from 552.457 ha to 720.727 ha without change in production capacity of 1.40 MTPA of Chromite Ore and an annual throughput capacity of

4,74,000 tonnes (0.47million tonnes) of COB plant. Govt. of Odisha vide letter dated 14.12.2021 granted the mining lease over an area of 168.948 ha of non-mineralised land in favour of M/s Odisha Mining Corporation Ltd to be included in its South Kaliapani Chromite Mining lease with existing area of 552.457 ha for a period co-terminus with the validity of the South Kaliapani Chromite Mining lease for the specific use for dumping of overburden dumps (OB) from its existing chromite mines at South Kaliapani and Sukrangi mining lease in Jajpur District. The Project Proponent has shown the existing mining lease area and the additional area allocated by the State Govt. in KML file. The EAC asked the Project Proponent whether lease is a single lease or two leases. The Project Proponent informed the EAC that it is a single lease. The EAC observed that the mine lease area is 720.727 ha as per DGPS and 721.405 ha as per ML grant orders. The EAC also observed that the in the approved Mining Plan dated 11.05.2022, Terms of Reference dated 07.11.2022 and in Public hearing dated 19.04.2023, the mine lease area is mentioned as 720.727 ha. The EAC asked the Project Proponent to clarify the actual mine lease and to show the lease document/lease deed for which the mine lease area has been executed. The Project Proponent informed the EAC that the actual mine lease area is 720.727 ha and the mine lease deed will be executed after obtaining all the statutory clearances. The EAC noted that the Project Proponent is not having a mine lease document showing that the actual mine lease area is 720.727 ha. The EAC was of the view that the State Govt. needs to rectify the actual mine lease w.r.t DGPS/ML grant orders. The EAC asked the Project Proponent to obtain the letter from the State Govt. for the single mine lease for the actual mine lease area.

The EAC asked about the status of the Forest Clearance. The Project Proponent informed the EAC that total forest land is 594.346 ha, out of which Stage-II FC has been obtained over an area of 425.398 ha and Stage-I FC over an area of 168.948 ha. The EAC noted that the advertisement for the public hearing was published on 05.04.2023 and Public hearing carried out on 19.04.2023. The EAC was of the view that as per EIA Notification, 2006, *a minimum notice period of 30(thirty) days shall be provided to the public for furnishing their responses.* The EAC asked the Project Proponent to clarify the same. The Project Proponent informed the EAC that the initially advertisement for the public hearing was published on 15.02.2023 and due to unavoidable circumstances, the public hearing has been postponed and rescheduled on 19.04.2023. The EAC asked the Project Proponent to submit the copies of the advertisements and postpone notice for the earlier public hearing. The EAC asked the Project Proponent to carry out the scientific study for stabilization of OB dump through reputed institute and also to submit the action plan for phase wise dump management over an area of 168.948 ha. The EAC was of the view that the chromite ore might cause serious effect to soil, groundwater and humans if not treated properly. The EAC opined that the Project Proponent needs to carry out the study on the occupational health exposure on mine workers/local people, land, water bodies and biological environment due to mining

activity with respect to hexavalent chromium and total chromium. After detailed deliberations made by the Project Proponent and the Consultant, the EAC **deferred** the proposal for want of following additional information: -

- i. The Project Proponent needs to carry out the fresh scientific study for stabilization of OB dump through reputed institute.
- ii. The Project Proponent needs to submit the action plan for phase wise dump management over an area of 168.948 ha.
- iii. The Project Proponent needs to carry out the study on the occupational health exposure on mine workers/local people, land, water bodies and biological environment due to mining activity with respect to hexavalent chromium and total chromium. The Project Proponent needs to submit the records of the occupational health check-up carried out during the FY 2022-23 with supporting documents.
- iv. The Project Proponent needs to submit the action plan for phase wise tree felling.
- v. The Project Proponent needs to highlight on the Specific Terms of Reference point no. iii. i.e. *“The Project Proponent shall revise the Mining Plan to dispose the overburden of this instant mine in the allocated of area of overburden (an area of 168.948 ha) instead of dumping of Sukrangi Overburden and shall submit the same at the time of appraisal of Environmental Clearance (EC)”*.
- vi. The Project Proponent needs to obtain the letter from the State Govt. for the single mine lease for the actual mine lease area.
- vii. The Project Proponent needs to submit the copies of the advertisements and postpone notice for the earlier public hearing.
- viii. The Project Proponent needs to submit the current status of the court case pending in the JMFC Court, Barbil, Odisha vide case. No 2(C)C.C.No.11/2014.
- ix. The Project Proponent needs to submit the copies of the certified analysis/testing reports of water, air, soil, noise etc. carried out by MoEF&CC/NABL accredited laboratories.

1.2 Sekinar Khunmoh Limestone mine of M/s Khyber Industries Private Limited with enhancement in production capacity of Limestone from 20,000 TPA to 2,50,000 TPA in the mine lease area of 14.93 ha, located at Khasra No. 2601 & 2608, Sekinar Village- Khunmoh, Tehsil- Pantha Chowk, District- Srinagar, Union

Territory: Jammu & Kashmir - [File. No: IA-J-11015/15/2023-IA-II(NCM), Proposal No: IA/JK/MIN/427380/2023, Consultant: M/s Grass Roots Research and Creation India (P) Ltd.] - Terms of Reference (Expansion)

The instant proposal is for mining of Limestone in Sekinar Khunmoh Limestone mine of M/s Khyber Industries Private Limited with enhancement in production capacity of Limestone from 20,000 TPA to 2,50,000 TPA in the mine lease area of 14.93 ha, located at Khasra No. 2601 & 2608, Sekinar Village- Khunmoh, Tehsil- Pantha Chowk, District- Srinagar, Union Territory: Jammu & Kashmir.

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

- i. The mine lease area is located between Latitude: 34°04'42.17"N to 34°05' 0.56"N and Longitude: 74°58'41.92"E to 74°58'55.14"E. The mine lease area falls under the Survey of India Toposheet No: 43J16 and falls in Seismic Zone-V.
- ii. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals and instant proposal attracts the general conditions as the Dachigam National Park is located at a distance of 1.92 km, N from the mine lease area and falls under Category "A" and appraised at the Central level.
- iii. Details of Previous EC:
 - a) The Project Proponent has submitted that initially Integrated EC was obtained vide EC Lr. No. J-11011/61/2008-IA.II(I) dated 04.05.2009 for Cement Plant (800 TPD) along with Limestone Mines such as Tulpov Limestone Mine (3,80,000 TPA, MLA: 77.96 ha) and Sekinar Khunmoh Limestone mine (Limestone: 20,000 TPA) & Siliceous Stone (1,00,000 TPA, MLA:14.93 ha).
- iv. Details of Mine Lease:
 - a) The Project Proponent has submitted that the entire mine lease area of 14.93 ha is Govt. waste land.
 - b) The Project Proponent has submitted that initially mining lease was granted by Govt. of Jammu and Kashmir vide Govt. Order No. 181 IND of 2015 dated 01.12.2015 for a period of 30 years over an area of 14.93 ha.
 - c) Then, the Govt. of Jammu and Kashmir, Industries & Commerce Dept., vide order no. 168 - IND of 2017 dated 30.06.2017 in partial modification to Govt. Order No. 181 IND of 2015 dated 01.12.2015, accorded the grant of mining lease of Limestone mineral over an area of 14.93 ha for a period of "50 years" instead of "30 years" in favour of M/s Khyber Industries Private Limited.
 - d) The rider agreement made on 28.09.2017 and the mine lease is valid upto 30.11.2065.
- v. Details of Mining Plan:
 - a) The Project Proponent has submitted that the Review and updation of Mining Plan along with Progressive Mine Closure Plan (PMCP) was approved by Indian

- Bureau of Mines (IBM) vide Lr. No: 614(2)/MP-B-235/06-DDN dated 28.01.2022 for mining of Limestone over an area of 14.93 ha for the production capacity of 2,50,000 TPA for the period 2022-23 to 2026-27.
- b) The method of mining will be opencast Fully Mechanized Mining by deploying hydraulic excavator - tipper combination and by using deep hole blasting, a fleet of 1 backhoe (1.2 m³ bucket Capacity), 4 tippers (10 tonne capacity), 1 wagon drills (ROC-203) and other ancillary equipment.
 - c) Total mineral resources estimated as 12.843 Million Tonnes. Proved Mineral reserves estimated as 7.293 Million Tonnes. Life of the mine estimated as approx. 51 years.
 - d) Bench height and bench width will be maintained at 8m and 8m each respectively.
 - e) As the deposit is not covered by any topsoil and over burden, there will be no generation of OB and topsoil.
 - f) The excavated Limestone will be transported to the own Cement Plant for captive use.
- vi. The domestic water requirement will be 1.35 KLD (from ground Water), Green belt: 4.29 KLD (for 5 years assuming first 3 years of irrigation after planting - from treated STP sewage) and for Plantation on mine benches: 8.98 KLD (for 25 years assuming first 3 years of irrigation after planting - from treated STP sewage). The Project Proponent has submitted the letter from the Office of the Chief Engineer, Kashmir Public Health Engineering Dept. dated 20.04.2019 for extracting Ground water of 225 m³/day from production Tubewell at Tulpow Khanmoh, for a period of 5 years unless renewed.
 - vii. The Project Proponent has submitted that the nearest connecting village road is located at a distance of 0.25 km towards South which is connected to Khunmoh road at a distance of 3 km towards SW and NH-44 is located about 8.5 km in SW direction to the mine site.
 - viii. The Project Proponent has submitted that no forest land is involved in the mine lease area. NOC has been obtained from the Forest Dept, Government of Jammu & Kashmir vide letter no. CFS/2022-23/lease/CFS/2022/448 dated 01.08.2020 stating that the lease area falls outside demarcated Forest Area as defined in the Indian Forest Act of 1927. Dachigam National Park is located at a distance of 1.92 km, N from the mine lease area. Further, the Project Proponent has submitted that the proposal for obtaining Wildlife Clearance has been submitted vide online proposal no: FP/JK/MIN/5356/2020, dated 18/09/2020.
 - ix. The Project Proponent has submitted that about 572 no. of saplings have been already planted within the lease area of the mine covering an area of 0.505 ha. Additionally, an area of 8.195 ha. on mine benches and at mine periphery is proposed to be planted. Area to be afforested is 7.48 ha on mine benches in 25 years and 0.715 ha under Green belt in 5 years.
 - x. Details of CTE/CTO, Certified Compliance Report, Certified Production Details from the inception of the mine:

| Particulars | Details of Letter along with date of grant and validity | | | |
|---|--|------------------------------|-------------------------|---|
| Consent to Operate (CTO) | CTO was granted by the Jammu & Kashmir Pollution Control Committee vide Consent order no. PCC/digital/22062574560 of 2022 dated 23.08.2022 for production of 20,000 TPA of Limestone and 1,00,000 TPA of Siliceous Stone for the period upto 30.04.2026. | | | |
| Certified Production Details from the inception of the mine (in tabular form against the EC capacity) | The Project Proponent has submitted the details of the production of Limestone from Sekinar Limestone Mine from the start of its mining operation from the year 2017-18 to 2022-23 certified from the Office of the District Mineral Officer, Geology and Mining Dept., Srinagar vide Lr.No. DMO/DGM/Sgr/F-01-III/1258 dated 12.06.2023. | | | |
| | Year | EC sanctioned capacity (TPA) | Actual production (TPA) | Excess production beyond the EC sanctioned capacity |
| | 2017-18 | 20,000 | 14,862 | Nil |
| | 2018-19 | 20,000 | 19,957 | Nil |
| | 2019-20 | 20,000 | 19,994 | Nil |
| | 2020-21 | 20,000 | 19,988 | Nil |
| | 2021-22 | 20,000 | 19,989 | Nil |
| 2022-23 | 20,000 | 19,997 | Nil | |

- xi. The Project Proponent has submitted that the mine lease area is already in physical possession of M/s M/s Khyber Industries Private Limited and hence no Rehabilitation and Resettlement (R&R) is involved.
- xii. The Project Proponent has submitted that there is no litigation pending against the project and/or land in which the project is proposed to be set up.
- xiii. The total cost of the project is Rs 2.0 Cr. About 30 persons will get employment.

3. Observation and Recommendation of the EAC:-

The Project Proponent/Consultant has informed the EAC that the instant proposal is for Terms of Reference for enhancement in production capacity of Limestone from 20,000 TPA to 2,50,000 TPA in the mine lease area of 14.93 ha. Then, the Project Proponent presented the KML file to indicate the site features in the study area. The Project Proponent has shown the boundary of the mine lease area. Integrated Cement Plant is located towards SW direction of the mine lease. One village is falling within 500m radius of the project site. One more cement plant is located in the vicinity of the mine lease area. Jhelum River is found at a distance of about 8km towards SW and Dachigam Nadi at approx 3.94 km towards NW. The EAC asked about the Slope of the mine lease area. The Project Proponent has informed the EAC the slope is from North towards South and the elevation difference is about 200m.

The Project Proponent has informed the EAC that initially Integrated EC was obtained on 04.05.2009 for Cement Plant (800 TPD) along with two Limestone Mines namely Tulpov Limestone Mine (3,80,000 TPA, MLA: 77.96 ha) and Sekinar Khunmoh Limestone mine (Limestone: 20,000 TPA) & Siliceous Stone (1,00,000 TPA, MLA:14.93 ha). The Sekinar Khunmoh Limestone Mine lease is valid upto 30.11.2065. Mining Plan was approved by Indian Bureau of Mines (IBM) vide letter dated 28.01.2022 for the production capacity of Limestone: 2,50,000 TPA for the period 2022-23 to 2026-27. The EAC asked about the mode of transport. The Project Proponent informed the EAC that the excavated Limestone will be transported to the own Cement Plant by road at a distance of 50 km. Life of the mine will be 51 years. Project cost for the expansion is Rs 2.0 Cr. The EAC asked the Project Proponent that how expansion in production capacity of Limestone from 20,000 TPA to 2,50,000 TPA will be achieved with a project cost of Rs 2.0 Cr. The Project Proponent has informed the EAC that the two wagon drilling machines (100mm, DTH type) along with air compressor (@ Rs 40 Lakhs each), Crawl mounted Dozer (Rs 100.0 Lakhs) and Water Tanker 6 KL (Rs 20.0 Lakhs) add up to the Project cost. As informed during the meeting, the Project Proponent has submitted the same vide letter dated 11.07.2023.

Project Proponent also informed that the Dachigam National Park is located at a distance of 1.92 km, N from the mine lease area. The EAC asked about the status of the Wildlife Clearance. The Project Proponent has informed the EAC that the proposal for obtaining Wildlife Clearance has been submitted vide online proposal no: FP/JK/MIN/5356/2020, dated 18/09/2020. The EAC noted that the Dachigam National Park was notified in the year 1981. The EAC observed that the Project Proponent has been operating the mine without obtaining Wildlife Clearance from the year 2017-18 to till date. The Project Proponent has informed the EAC that the Draft Notification declaring Eco Sensitive Zone around Dachigham National Park, Baltal Thaj was Sanctuary and Overa-Aru Sanctuary, Jammu & Kashmir was notified on 07.06.2021.

Further, as informed during the meeting, the Project Proponent submitted a letter dated 11.07.2023 stating that the article 370 of Indian Constitution was earlier given to Jammu & Kashmir (J&K) which has been removed on 5th August, 2019. While article 370 was applicable, the Wildlife Protection act was not applicable to the State of Jammu and Kashmir. After the abrogation of article 370 and enactment of J&K Reorganization Act, 2019 w.e.f. 31st Oct., 19, the Wildlife Protection Act, 1972 (Amendment, 2019) is applicable to the UT of Jammu and Kashmir w.e.f. 31st Oct., 19. Thereafter, application has been submitted to NBWL on 18th Sep., 20 for obtaining Wildlife Clearance for the project w.r.t. Dachigam National Park as per the provisions of MoEF&CC OM dated 08th Aug., 2019. The Chief Wildlife Warden, J&K issued No Objection Certificate for Sekinar Mine vide letter no. WLP/TEECH/2018/132-33 dated 12.07.2018 under the Jammu & Kashmir Wildlife Protection Act, 1978. The EAC noted that vide NOC dated

12.07.2018 it has been informed that the “NOC's granted shall also be placed before the Standing Committee of the State Board for Wildlife for confirmation in the next meeting”. No information has been provided by the Project Proponent in this regard.

The Project Proponent also submitted that the Ministry of Environment, Forest and Climate Change (Wildlife Division) vide FNo.6-30/2019 WL dated: 25.03.2019 has circulated minutes of 53rd Meeting of the Standing Committee of National Board for Wild Life wherein among various agenda items discussed by the members of the standing committee. Agenda No 2 specifically relates to Report and recommendations of the Committee on the issues related to (i) Projects falling within National Parks / Sanctuaries of Jammu & Kashmir, (ii) Projects related to Conservation Reserves / Community Reserve, (iii) Projects falling within notified ESZ, and (iv) Resolution in the State Board for Wild Life to constitute its Standing Committee. The Ministry has constituted the committee vide O.M.No.6-137/2017WL dated 07.05.2018 to examine the issues related to (i) Projects falling within National Parks / Sanctuaries of Jammu & Kashmir, (ii) Projects related to Conservation Reserves/ Community Reserve, (iii) Projects falling within notified ESZ, and (iv) Resolution in the State Board for Wild Life to constitute its Standing Committee has submitted the report on 30.01.2019. The report has outlined its recommendations as under:(i) Whether wildlife clearance cases related to the National Parks / Sanctuaries in Jammu & Kashmir should come to the Standing Committee of National Board for Wild Life for consideration. Shri B S Bonal has stated that the existing provisions of law in the Wild Life(Protection)Act, 1972 or the Jammu & Kashmir Wild Life (Protection) Act, 1978 do not provide for consultation of NBWL for the cases related to National Parks/Sanctuaries of Jammu & Kashmir. The Supreme Court cases, WP (C) 447/1995 and 202/1995 cover the issue related to Wildlife (Protection) Act, 1972 and the Forest (Conservation) Act, 1980 and the various orders issued by the Hon'ble Supreme Court as mentioned above, do not specifically mention the State of Jammu & Kashmir while making no exception. As Central or State or any other agency also did not approach Hon'ble Supreme Court in this matter, there is no provision in law which would imply that the cases from State of Jammu & Kashmir should come to the Standing Committee of NBWL.

The Project Proponent has informed the EAC that the mining operation started in the year 2017-18 and maximum production achieved was 19,997 TPA during the year 2022-23. The production capacity of Limestone was well within the limits of EC capacity of 20,000 TPA. The EAC noted that the EC dated 04.05.2009 was granted for both Limestone: 20,000 TPA & Siliceous Stone 1,00,000 TPA. The EAC asked the Project Proponent whether Siliceous Stone has been excavated or not. The Project Proponent has informed the EAC that the Siliceous Stone was not included in the mine lease document and no Siliceous Stone was excavated. The EAC asked the Project Proponent whether certificate has been obtained from the Dept. of Mines and Geology

in this regard or not. The Project Proponent has informed the EAC that certificate has not been obtained and also informed that undertaking in this regard will be submitted and certificate will be obtained. The Project Proponent has submitted an undertaking in a non-judicial e-stamp paper of Rs 10 bearing dated 11.07.2023 stating that the Project Proponent has not extracted any Siliceous Stone for the manufacture of Cement from the Sekinar Limestone mine over an area of 14.93 ha. During detailed exploration during the period 2019-2021, no Siliceous Stone was found in the lease hold area.

Further, the EAC observed that the Project Proponent has obtained EC on 04.05.2009 and started the mining operation only in the year 2017-18. The Project Proponent has informed the EAC that the mining lease was granted in the year 2015 and the mine lease deed was registered in the year 2017. The EAC asked the Project Proponent whether it is feasible to achieve 2,50,000 TPA. The Project Proponent has informed the EAC that by the end of Mar'2024, about 118m face length along west - east direction shall be available at about 2083 m level Similarly by the end of Mar' 2025, about 130 m face length shall be available. During 2025-26, the mining shall be done between 2043m & 2003 m levels to produce about 2,50,000 MT of Limestone. The direction of mining/advance shall be towards north. Hence, production of 2,50,000 Tonnes can be annually achieved from the Sekinar mine from the year 2025-26 onwards. The Project Proponent has submitted the same vide letter dated 11.07.2023. The EAC also asked the Project Proponent whether 1.2 m³bucket height is feasible for 8 m bench height. The Project Proponent has informed the EAC that the bucket capacity - upto 1.2 m³ is having working range of more than 8 m. The machine is capable for extraction of loading upto 8 m height. Proponent also submitted the brochures of the machinery vide letter dated 11.07.2023.

After detailed deliberations made by the Project Proponent and the Consultant, the EAC opined that the Ministry may seek comment from the Wildlife Division regarding the applicability of the Wildlife Protection Act (1972) in the Union Territory of Jammu & Kashmir before and after the abrogation of article 370 and Jammu & Kashmir Reorganization Act 2019 for further detailed examination. The EAC also asked the Project Proponent to submit the Form-1 and Questionnaire submitted during the initial grant of EC dated 04.05.2009. The Project Proponent also needs to submit certificate from Dept. of Mining and Geology stating that no Siliceous Stone was excavated since the inception of mining. Therefore, the EAC **deferred** the proposal.

1.3 Amendment in Terms of Reference (ToR) dated 28.12.2020 of M/s Khyber Industries Private Limited w.r.t. change in mine lease area 77.96 ha to 61.10 ha and also change in production capacity from 6,71,874 TPA to 7,00,000 TPA, located at Tulpow, Vill. Khunmoh, Srinagar, Jammu & Kashmir – [F.No: 23-

116/2018-IA.III(V), Proposal No: IA/JK/MIN/428722/2023; Consultant: M/s Grass Roots Research and Creation India (P) Ltd] - Amendment in ToR

The instant proposal is for amendment in Terms of Reference (ToR) dated 28.12.2020 of M/s Khyber Industries Private Limited w.r.t. change in mine lease area 77.96 ha to 61.10 ha and also change in production capacity of Limestone from 6,71,874 TPA to 7,00,000 TPA, located at Tulpow, Vill. Khunmoh, Srinagar, Jammu & Kashmir.

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

- i. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals and the Project Proponent has submitted that the instant proposal attracts the general conditions as the Dachigam National Park is located at a distance of 1.1 km, N from the mine lease area.
- ii. The Project Proponent has obtained the Terms of Reference (ToR) vide ToR Lr.No. 23-116/2018-IA.III(V) dated 28.12.2020 for expansion of Tulpow Limestone Mine in 77.96 ha with production capacity from 3,80,000 TPA to 7,00,000 TPA located at Tulpow, Vill. Khunmoh, Srinagar, Jammu & Kashmir under Violation.
- iii. Now, the Project Proponent has requested for amendment in Terms of Reference (ToR) dated 28.12.2020 w.r.t. change in mine lease area 77.96 ha to 61.10 ha and also change in production capacity from 6,71,874 TPA to 7,00,000 TPA.
- iv. The Project Proponent has submitted that the project site falls within 1.1 km from the boundary of Dachigum National Park. As per communication received from Office of Wildlife Warden, Central Division, J&K, vide letter noWLWC/Esstt/2020-21/773-77 dated 21.07.2020, the mining activity was prohibited within one kilometer from the boundary of Dachigam National Park. The mining activity was stopped in the prohibited area of 10.87 ha of mining lease area. An area of 16.86 ha including the prohibited area and the safety barrier was surrendered and hence the mine lease area was reduced from 77.96 ha to 61.10 ha. NOC has been obtained from the Forest Dept, Government of Jammu & Kashmir vide letter no. CFS/2022-23/lease/CFS/2022/450 dated 01.08.2022 stating that the lease area falls outside demarcated Forest Area as defined in the Indian Forest Act of 1927. Further, the Project Proponent has submitted that the proposal for obtaining Wildlife Clearance has been submitted vide online proposal no: FP/JK/MIN/5358/2020, dated 18/09/2020.

- v. The Project Proponent has submitted that the Government of Jammu and Kashmir (UT), Directorate of Geology and Mining, Jammu vide Order no. 756/MCC/DGM/Khy/4318-22 dated 26.08.2022 sanctioned the order for surrender of part area of 16.86 hectares (Limestone mine at Village Khonmuh Block, Tulpow Tehsil and District Srinagar) out of the total leased area of 0.7796 sq.km (77.96 hectares) granted vide Government Order No. 369-Ind of 1983 dated 19.12.1983 in favour of M/s Khyber Industries Pvt Ltd, renewed vide Government Order No.144-Ind of 2004 dated 18.06.2004 read with Corrigendum issued under endorsement No. Ind/83-MNG/82-II dated 25.10.2004 and further extended vide Government Order No. 167-Ind of 2017 dated 30.06.2017 at Village Khonmuh, Block Tulpow, District Srinagar under Khasra No. 2601 & 2608 in terms of Rule-21 of the Minerals (other than Atomic and Hydro Carbon Energy Minerals) Concession Rules, 2016. The Site Plan for the revised area of 61.10 hectares of Tulpow Limestone Mine forms following Geo-coordinates: - "(A= 34° 4'35.00"N, 74°58'25.12" E, B=34°4'35.14"N, 74°58'11.97"E, C1=34°5'02.47"N 74° 58'12.51 " E, C2=34°5'09.84" N, 74°58'27.56" E, D1=34°5'14.73"N, 74°58'42.36" E, E=34°4' 49.66"N, 74°58'41.86" E, F=34°4'49.87"N, 74° 58' 25.51 " E)".
- vi. The Project Proponent also submitted that the Indian Bureau of Mines, Dehradun vide File.No: 614(2)/MP-B-178/2002-DDN dated 28.01.2022 approved the Review and updation of Mining Plan with Progressive Mine Closure Plan (PMCP) of Tulpow Limestone mine over an area of 77.96 ha for the production capacity of 7,00,000 TPA for the period 2022-23 to 2026-27.

3. Observation and Recommendation of the EAC: -

The Project Proponent/Consultant informed the EAC that the instant proposal is for amendment in ToR dated 28.12.2020 w.r.t. change in mine lease area 77.96 ha to 61.10 ha and for change in production capacity of Limestone from 6,71,874 TPA to 7,00,000 TPA. The Project Proponent also informed the EAC that the ToR dated 28.12.2020 was granted under Ministry's Notification dated 14.03.2017.

The EAC asked the Project Proponent to show the lease document showing the reduced mine lease area of 61.10 ha. The Project Proponent informed the EAC that the Government of Jammu and Kashmir (UT), Directorate of Geology and Mining, Jammu vide order dated 26.08.2022 sanctioned the order for surrender of part area of 16.86 hectares (Limestone mine at Village Khonmuh Block, Tulpow Tehsil and District Srinagar) out of the total leased area of 0.7796 sq.km (77.96 hectares) granted vide Government Order No. 369-Ind of 1983 dated 19.12.1983 in favour of M/s Khyber Industries Pvt Ltd, renewed vide Government Order No.144-Ind of 2004 dated 18.06.2004 read with Corrigendum issued under endorsement No. Ind/83-MNG/82-II dated 25.10.2004 and further extended vide Government Order No. 167-Ind of 2017 dated 30.06.2017 at Village Khonmuh, Block Tulpow, District Srinagar under Khasra

No. 2601 & 2608 in terms of Rule-21 of the Minerals (other than Atomic and Hydro Carbon Energy Minerals) Concession Rules, 2016. The Project Proponent also shown the site plan for the revised area of 61.10 hectares of Tulpow Limestone Mine with Geo-coordinates.

Further, the Project Proponent informed the EAC that the Review and updation of Mining Plan with along with Progressive Mine Closure Plan (PMCP) was approved by Indian Bureau of Mines vide letter dated 28.01.2022 for the production capacity of 7,00,000 TPA over an area of 77.96 ha for the period 2022-23 to 2026-27. The EAC observed that the mine lease area is 77.96 ha in approved mining plan dated 28.01.2022 and hence the EAC asked the Project Proponent to modify the mining plan for the reduced area of 61.10 ha and shall submit the same at the time of submission of EC proposal. Based on the above discussions, the EAC **recommended** the proposal for amendment in Terms of Reference dated 28.12.2020 w.r.t. change in mine lease area 77.96 ha to 61.10 ha and change in production capacity of Limestone from 6,71,874 TPA to 7,00,000 TPA for Tuplow Limestone mine of M/s Khyber Industries Private Limited, located at Tulpow, Vill. Khunmoh, Srinagar, Jammu & Kashmir along with the following additional conditions: -

- i. The Ministry may seek comments from the Wildlife Division regarding the applicability of the Wildlife Protection Act (1972) in the Union Territory of Jammu & Kashmir before and after the abrogation of article 370 and Jammu & Kashmir Reorganization Act 2019.
- ii. The Project Proponent needs to submit the approved Mining Plan for the reduced area of 61.10 ha at the time of submission of EC proposal.
- iii. The State Government/SPCB to take action against the Project Proponent under the provisions of section 19 of the Environment (Protection) Act, 1986, and further no consent to operate for expansion project to be issued till the project is granted EC for the expansion.
- iv. The Project Proponent shall be required to submit a bank guarantee equivalent to the amount of remediation plan and natural and community resource augmentation plan with the SPCB prior to the grant of EC. The quantum shall be recommended by the EAC and finalized by the regulatory authority. The bank guarantee shall be released after successful implementation of the EMP, followed by recommendations of the EAC and approval of the regulatory authority.

- v. Assessment of ecological damage with respect to air, water, land and other environmental attributes. The collection and analysis of data shall be done by an environmental laboratory duly notified under the Environment (Protection) Act, 1986, or an environmental laboratory accredited by NABL, or a laboratory of a Council of Scientific and Industrial Research (CSIR) institution working in the field of environment.
- vi. Preparation of EMP comprising remediation plan and natural and community resource augmentation plan corresponding to the ecological damage assessed and economic benefits derived due to violation.
- vii. The remediation plan and the natural and community resource augmentation plan to be prepared as an independent chapter in the EIA report by the accredited consultants.
- viii. Activity-wise time-bound action plan on the issues raised and commitment made during public hearing to be submitted as part of the final EMP Report in compliance of the Ministry's OM F.No.22-65/2017-IA.III dated 30th September, 2020.
- ix. The Project Proponent shall give an undertaking by way of affidavit to comply with all the statutory requirements and judgment of Hon'ble Supreme Court dated the 2nd August 2017 in Writ Petition (Civil) No. 114 of 2014 in the matter of Common Cause versus Union of India and Ors. before grant of ToR/ EC. The undertaking inter-alia include commitment of the PP not to repeat any such violation in future.
- x. In case of violation of above undertaking, the ToR/Environmental Clearance shall be liable to be terminated forthwith.
- xi. The Project Proponent needs to submit the action plan for movement of wildlife in the study area and the mitigation measures to prevent the impact due to mining activity.
- xii. As the project is located in Seismic Zone-V, the Project Proponent needs to submit the risk assessment and disaster management plan with specific reference to seismic zone.
- xiii. The Project Proponent needs to submit the Certified Compliance Report as per Ministry's OM dated 08.06.2022 at the time of submission of EC proposal.

- xiv. All other terms and conditions mentioned in the ToR letter dated 28.12.2020 shall remain unchanged.

1.4 Kalay Mineral Block- Block IV (Auction Block) of M/s Fomento Resources Private Limited for mining of Iron Ore with proposed production capacity of 0.75 MTPA, Waste: 3.0 MTPA in the mine lease area of 152.5073 Ha, located at Village Santana, Sanguem Taluka, South Goa District, Goa - [F.No: IA-J-11015/11/2023-IA-II(NCM), Proposal No: IA/GA/MIN/422578/2023, Consultant: M/s Mineral Engineering Services] -Terms of Reference (ToR)

The instant proposal is for mining of Iron Ore in Kalay Mineral Block - Block IV (Auction Block) of M/s Fomento Resources Private Limited with proposed production capacity of 0.75 MTPA, Waste: 3.0 MTPA in the mine lease area of 152.5073 Ha, located at Village Santana, Sanguem Taluka, South Goa District, Goa.

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

- i. The mine lease area is located between Latitude: 15°17'01.6125" N to 15°18'08.7974" N and Longitude: 74°08'55.2583" E to 74°09'44.8333" E. The mine lease area falls under the Survey of India Toposheet No: D43C3 and falls in Seismic Zone-II.
- ii. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals and instant proposal attracts the general conditions as the mine lease area is located within 5km radius of Bhagwan Mahavir Wildlife Sanctuary and falls under Category "A" and appraised at the Central level.
- iii. The proposal was earlier considered in the 15thEAC (Non-Coal Mining) meeting held during 30-31 May, 2023 wherein the EAC deferred the proposal for want of requisite information. Then, the Project Proponent submitted the information on 22.06.2023 in Parivesh portal and accordingly the proposal was considered in the 17th EAC (Non-Coal Mining) meeting held during 11-12 July, 2023.

Based on observation of EAC in its EAC meeting held during 30-31 May, 2023 and compliance of observation of EAC made by PP are detailed below:

| S. No | Observation of EAC in its meeting held during 30-31 May, 2023 | Reply by Project Proponent |
|-------|--|---|
| 1 | The EAC opined that the Ministry may seek comments from the ESZ Division in the Ministry regarding whether the instant mine lease area falls | The ESZ Division in the Ministry gave their comments on 21.06.2023 stating that the coordinates of mine lease area were checked w.r.t kml file of Bhagwan Mahaveer ESZ notified area available with ESZ Division as |

| | | |
|----------|---|---|
| | <p>within the ESZ of Bhagwan Mahaveer Wildlife Sanctuary and National Park / ESA of Western Ghats or not.</p> | <p>well as with boundary of the Western Ghats Eco-Sensitive Area. It was found that one of the coordinate (15°18' 08.7974" N and 74° 09' 44.8333" E) of mine lease area falls within the ESZ boundary of Bhagwan Mahaveer Wildlife Sanctuary as well Western Ghats Eco-sensitive area.</p> <p>The above location is examined vis-a-vis the (i) ESZ boundary of Bhagwan Mahaveer Wildlife Sanctuary and National Park, Goa as made available to this Division by the State Govt of Goa and, (ii) The boundary of the Western Ghats Eco-Sensitive Area (WGESA), as per the 5th draft notification of the WGESA, dated 06.07.2022, as made available to this Division by the High Level Working Group on WGESA (Kasturirangan Committee).</p> <p>One of the point locations (15° 18 '08.7974" N, 74° 09' 44.8333" E) is lying inside both the ESZ of Bhagwan Mahaveer Wildlife Sanctuary and National Park, Goa and the WGESA boundary as per the 5th draft notification of the WGESA, dated 06.07.2022. Additionally, the distance as estimated between the point location (15° 18 '08.7974" N, 74° 09' 44.8333" E), and the Bhagwan Mahaveer NP & WLS, Goa is approx. 0.7526 km (less than 1 km).</p> |
| <p>2</p> | <p>The Project Proponent needs to submit the map demarcating the location of the mine lease area w.r.t ESA of Western Ghats and ESZ of Bhagwan Mahaveer Wildlife Sanctuary and National Park.</p> | <p>The Project Proponent has submitted the map showing the location of the map demarcating the location of the mine lease area w.r.t ESZ of Bhagwan Mahaveer Wildlife Sanctuary and National Park. The distance between the mine lease area and ESZ of Bhagwan Mahaveer Wildlife Sanctuary and National Park is 1.04 km.</p> <p>Project Proponent has submitted the letter from the Office of the Directorate of Mines & Geology vide Lr.No. 03/18/2023/Major/Mines/1235 dated 07.07.2023 stating that proposed Block-IV Kalay Mineral Block located at Santona Village Sanguem Taluka, South Goa District, Goa falls outside notified ESZ boundary of Bhagwan Mahavir Wildlife</p> |

| | |
|--|------------------------------|
| | Sanctuary and National Park. |
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3. Observation and Recommendation of the EAC:

The EAC deliberated on the additional details submitted by the Project Proponent and the Consultant. The EAC noted the comments from the ESZ Division that one of the point (15°18'08.7974" N, 74°09'44.8333" E) is lying inside both the ESZ of Bhagwan Mahaveer Wildlife Sanctuary and National Park, Goa and the WGESA boundary as per the 5th draft notification of the WGESA, dated 06.07.2022. The distance as estimated between the point location (15°18'08.7974" N, 74°09' 44.8333" E), and the Bhagwan Mahaveer NP & WLS, Goa is approx. 0.7526 km (less than 1 km). The Project Proponent informed the EAC that as per letter issued by the Dy. Conservator of Forest dated 05.07.2023 and Directorate of Mines & Geology dated 07.07.2023, the proposed Block-IV Kalay Mineral Block located at Santona Village Sanguem Taluka, South Goa District, Goa falls outside notified ESZ boundary of Bhagwan Mahavir Wildlife Sanctuary and National Park.

The EAC observed that both the letter dated 05.07.2023 and 07.07.2023 does not mention about the Western Ghats ESA. The EAC opined that the Ministry may again the refer the matter to the ESZ Division with reference to the letter issued by the Dy. Conservator of Forest dated 05.07.2023 and Directorate of Mines & Geology dated 07.07.2023 as submitted by the Project Proponent. Therefore, the EAC **deferred** the proposal and was of the view that the proposal may be considered only after obtaining the comments from the ESZ Division.

1.5 Sijimali Bauxite Mine (Auctioned Block) of M/s Vedanta Limited for mining of Bauxite with proposed Production Capacity: 9.0 Million TPA of Bauxite, Top Soil: 0.18 Million TPA, Waste: 7.40 Million TPA & Subgrade: 1.42 Million TPA; (Total Excavation: 18.0 Million TPA) along with installation of 2 Crushers (2 x 1200 TPH) in the mine lease area of 1549.022 ha, located at Villages Aliguna, Ambajhola, Bundel, Chulbari, etc., Tehsils: Thuamul Rampur & Kashipur, Districts: Kalahandi & Rayagada, State: Odisha - [F.No: IA-J-11015/6/2023-IA-II(NCM), Proposal No: IA/OR/MIN/423359/2023, Consultant: M/s JM EnviroNetPvt. Ltd.] -Terms of Reference (ToR)

The instant proposal is for mining of Bauxite in Sijimali Bauxite Mine (Auctioned Block) of M/s Vedanta Limited with proposed Production Capacity: 9.0 Million TPA of Bauxite, Top Soil: 0.18 Million TPA, Waste: 7.40 Million TPA & Subgrade: 1.42 Million TPA; (Total Excavation: 18.0 Million TPA) along with installation of 2 Crushers (2 x 1200 TPH) in the mine lease area of 1549.022 ha, located at Villages Aliguna, Ambajhola, Bundel, Chulbari, etc., Tehsils: Thuamul Rampur & Kashipur, Districts: Kalahandi & Rayagada, Odisha.

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

- i. The mine lease area is located between Latitude: 19°28'42.42"N to 19°32'02.35" N and Longitude: 83°06'04.66" E to 83°09'49.81" E. The mine lease area falls under the Survey of India Toposheet No: E43F2 & E43F3 and falls in Seismic Zone-II.
- ii. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals and falls under Category "A" as the mining lease area is greater than 250ha and appraised at the Central level.
- iii. The proposal was earlier considered in the 15thEAC (Non-Coal Mining) meeting held during 30-31 May, 2023 wherein the EAC deferred the proposal for want of requisite information. Then, the Project Proponent submitted the information on 20.06.2023 in Parivesh portal and accordingly the proposal was considered in the 17th EAC (Non-Coal Mining) meeting held during 11-12 July, 2023.

Based on observation of EAC in its EAC meeting held during 30-31 May, 2023 and compliance of observation of EAC made by PP are detailed below:

| S. No | Observation of EAC in its meeting held during 30-31 May, 2023 | Reply by Project Proponent | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|---|--|---|-----------------|--|------------|------------------------------------|--|---|--|--|-----------|--------|----------------|--------------|-------------------------------------|-------------------------|-----------------|----------------|-----------------|--------------|-------------------------------|--------------------------------|-----------------|-----------------|
| 1 | The EAC observed that the villages such as Malipadar and Bundel are falling under Eco-Sensitive Zone of Karlapat Wildlife Sanctuary as per Draft Notification of Karlapat Wildlife Sanctuary dated 09.08.2019. Hence, the Project Proponent needs to submit the letter along with the authenticated map from the Forest Dept. in this regard. Ministry may also seek comments | <p>The Project Proponent has submitted that the Sijimali Bauxite Mine Block having the mine lease area of 1549.022 ha located at Villages: Malipadar, Dumerpadara, Katibhata, Kutamal, Pelanakona, Aliguna, Bundel, Shagabari, Tijmali, Chulbadi, Ambajhola, Mahajal, Nakarundi, Taramundi, Uparambpadar, Salebali, Tadadei, Talambpadar, Tehsils: Thuamul Rampur & Kashipur, Districts: Kalahandi & Rayagada, State: Odisha.</p> <p>The Malipadar and Bundel villages falling under Eco-Sensitive Zone of Karlapat Wildlife Sanctuary as per Draft Notification of Karlapat Wildlife Sanctuary dated 09.08.2019 are different from the Revenue Villages of Malipadar and Bundel of Sijimali Bauxite Mine. Details are given below:</p> | | | | | | | | | | | | | | | | | | | | | | | |
| | | <table border="1"> <thead> <tr> <th data-bbox="573 1581 716 1633">Particular</th> <th colspan="2" data-bbox="716 1581 1073 1633">Revenue Village of Mine Lease Area</th> <th colspan="2" data-bbox="1073 1581 1429 1633">Villages fall under Karlapat Wildlife Sanctuary</th> </tr> <tr> <td data-bbox="573 1633 716 1686"></td> <th data-bbox="716 1633 898 1686">Malipadar</th> <th data-bbox="898 1633 1073 1686">Bundel</th> <th data-bbox="1073 1633 1255 1686">Malipada (220)</th> <th data-bbox="1255 1633 1429 1686">Bundel (172)</th> </tr> </thead> <tbody> <tr> <td data-bbox="573 1686 716 1822">Distance & direction from mine site</td> <td data-bbox="716 1686 898 1822">Within ML Area in North</td> <td data-bbox="898 1686 1073 1822">0.5 km in South</td> <td data-bbox="1073 1686 1255 1822">15.0 km in NNE</td> <td data-bbox="1255 1686 1429 1822">19.25 km in NNE</td> </tr> <tr> <td data-bbox="573 1822 716 1875">Latitude and</td> <td data-bbox="716 1822 898 1875">19°31'38.18"N 83° 9'6.17"E</td> <td data-bbox="898 1822 1073 1875">19°28'25.98"N 83° 7'53.79"E</td> <td data-bbox="1073 1822 1255 1875">19°39'44.149" N</td> <td data-bbox="1255 1822 1429 1875">19°40'10.532" N</td> </tr> </tbody> </table> | | | | Particular | Revenue Village of Mine Lease Area | | Villages fall under Karlapat Wildlife Sanctuary | | | Malipadar | Bundel | Malipada (220) | Bundel (172) | Distance & direction from mine site | Within ML Area in North | 0.5 km in South | 15.0 km in NNE | 19.25 km in NNE | Latitude and | 19°31'38.18"N 83° 9'6.17"E | 19°28'25.98"N 83° 7'53.79"E | 19°39'44.149" N | 19°40'10.532" N |
| Particular | Revenue Village of Mine Lease Area | | Villages fall under Karlapat Wildlife Sanctuary | | | | | | | | | | | | | | | | | | | | | | |
| | Malipadar | Bundel | Malipada (220) | Bundel (172) | | | | | | | | | | | | | | | | | | | | | |
| Distance & direction from mine site | Within ML Area in North | 0.5 km in South | 15.0 km in NNE | 19.25 km in NNE | | | | | | | | | | | | | | | | | | | | | |
| Latitude and | 19°31'38.18"N 83° 9'6.17"E | 19°28'25.98"N 83° 7'53.79"E | 19°39'44.149" N | 19°40'10.532" N | | | | | | | | | | | | | | | | | | | | | |

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| <p>from ESZ Division.</p> | <p>Longitude</p> | | <p>83°12'25.611" E</p> | <p>83°16'10.041" E</p> |
| | <p>Authenticated Map has been obtained from the Forest Dept and according to that, minimum distance of Karlapat Wildlife Sanctuary from Malipadar Village is 13.56 km and from Bundel Village is 19.41 km.</p> <p>A Location Map has also been authenticated by the Forest Dept., Kalahandi South Division. According to this, the Karlapat Wildlife Sanctuary is located at 12.723 km distance in North direction and its proposed ESZ is located at 11.621 km distance in North direction from proposed Sijimali Bauxite Mine.</p> <p><u>Comments from ESZ Division:</u></p> <p>The ESZ Division gave their comments on 21.06.2023 stating that since the ESZ of Karlapat WLS is yet to be notified, kml file of the ESZ is not available with division neither that of the Karlapat wildlife sanctuary. In order to verify that mine lease area is ~12.9 km from the Karlapat Wildlife Sanctuary, kml/shapefile of sanctuary is required which might be available with State Government of Odisha.</p> <p>As far as applicability of Eco-sensitive zone stipulations are concerned and ESZ is yet to be notified for Karlapat WLS, Hon'ble Supreme Court order dated 4th Dec 2006 in W.P. 460/2004 in Goa Foundation vs Union of India shall prevail which says that areas falling within 10 km from the boundary of protected area would be treated as Eco-sensitive zones. Guidelines for declaration of ESZ around National parks and wildlife sanctuaries dated 9th Feb 2011 [F.No. 1-9/2007 WL-I (pt)] provides the list of activities which are to be prohibited, regulated and permitted in the ESZ.</p> <p>Further the judgment of the Hon'ble Supreme Court dated 3rd June 2022 in W.P.(C) No. 202 of 1995: T.N. Godavarman vs Union of India & Ors has again emphasized that <i>"in respect of sanctuaries or national parks for which the proposal of a State or Union Territory has not been given, the 10 kilometres buffer zone as ESZ, as indicated in the order passed by this Court on 4th December 2006 in the case of Goa Foundation (supra) and also contained in the Guidelines of 9thFebruary 2011 shall be implemented. Within that area, the entire set of restrictions concerning an ESZ shall operate till a final decision in that</i></p> | | | |

| | | <p><i>regard is arrived at. "</i></p> <p>Also the recent Hon'ble Supreme Court judgment dated 26th April 2023 in W.P(C) No.202 of 1995: T.N. Godavarman Vs UOI & Ors. amongst other directions directed that "<i>mining within the National Park and Wildlife Sanctuary and within an area of one kilometre from the boundary of such National Park and Wildlife Sanctuary shall not be permissible. The MoEF & CC and all the State/Union Territory Governments shall strictly follow the provisions in the said Guidelines dated 9th February 2011 and so also the provisions contained in the ESZs notifications pertaining to the respective Protected Areas with regard to prohibited activities, regulated activities and permissible activities; further direct that while granting Environmental and Forest Clearances for project activities in ESZ and other areas outside the Protected Areas, the Union of India as well as various State/Union Territory Governments shall strictly follow the provisions contained in the Office Memorandum dated 17th May 2022 issued by MoEF&CC."</i></p> | | | | | | | | | | | | | | | | |
|--------------------------|--|--|------|-------------|------------|---|------------|--|------------|---|------------|--|--------------------------|--|------------|--|------------|---|
| 2 | <p>The Project Proponent needs to submit the copy of petition filed in the Hon'ble Supreme Court and other relevant orders with the chronology of events.</p> | <p>The Project Proponent has submitted the chronology of events with as mentioned below:</p> <table border="1" data-bbox="578 997 1414 1883"> <thead> <tr> <th data-bbox="578 997 808 1058">Date</th> <th data-bbox="808 997 1414 1058">Particulars</th> </tr> </thead> <tbody> <tr> <td data-bbox="578 1058 808 1163">02.02.2021</td> <td data-bbox="808 1058 1414 1163">W.P. (C) 4301 of 2021 filed by L&T seeking direction to Central Govt. to issue ML for Sijimali and Kutrumali Bauxite Blocks</td> </tr> <tr> <td data-bbox="578 1163 808 1268">23.11.2022</td> <td data-bbox="808 1163 1414 1268">NIT issued for inviting bids for grant of Mining Lease inter alia for Sijimali Bauxite Block having an area of 1549.022 Ha</td> </tr> <tr> <td data-bbox="578 1268 808 1335">25.11.2022</td> <td data-bbox="808 1268 1414 1335">IA 16185 of 2022 filed by L&T seeking stay on auction process</td> </tr> <tr> <td data-bbox="578 1335 808 1409">02.01.2023</td> <td data-bbox="808 1335 1414 1409">IA taken up for hearing. However, no interim order passed by Orissa HC</td> </tr> <tr> <td data-bbox="578 1409 808 1514">22.02.2023 to 24.02.2023</td> <td data-bbox="808 1409 1414 1514">Final hearing took place in the W.P. (C) 4301 of 2021 and judgement was reserved by the Orissa High Court.</td> </tr> <tr> <td data-bbox="578 1514 808 1751">02.03.2023</td> <td data-bbox="808 1514 1414 1751">Orissa High Court pronounced its final judgement holding that L&T was not entitled to get the ML for Sijimali Bauxite Block as it had failed to comply with the conditions of the prospecting license and the application had also lapsed due to MMDR Amendment Act, 2021.</td> </tr> <tr> <td data-bbox="578 1751 808 1883">25.03.2023</td> <td data-bbox="808 1751 1414 1883">SLP was filed before the Supreme Court by L&T against the judgement of the Orissa High Court dated 02.03.2023 – SLP (C) No. 6163 of 2023.</td> </tr> </tbody> </table> | Date | Particulars | 02.02.2021 | W.P. (C) 4301 of 2021 filed by L&T seeking direction to Central Govt. to issue ML for Sijimali and Kutrumali Bauxite Blocks | 23.11.2022 | NIT issued for inviting bids for grant of Mining Lease inter alia for Sijimali Bauxite Block having an area of 1549.022 Ha | 25.11.2022 | IA 16185 of 2022 filed by L&T seeking stay on auction process | 02.01.2023 | IA taken up for hearing. However, no interim order passed by Orissa HC | 22.02.2023 to 24.02.2023 | Final hearing took place in the W.P. (C) 4301 of 2021 and judgement was reserved by the Orissa High Court. | 02.03.2023 | Orissa High Court pronounced its final judgement holding that L&T was not entitled to get the ML for Sijimali Bauxite Block as it had failed to comply with the conditions of the prospecting license and the application had also lapsed due to MMDR Amendment Act, 2021. | 25.03.2023 | SLP was filed before the Supreme Court by L&T against the judgement of the Orissa High Court dated 02.03.2023 – SLP (C) No. 6163 of 2023. |
| Date | Particulars | | | | | | | | | | | | | | | | | |
| 02.02.2021 | W.P. (C) 4301 of 2021 filed by L&T seeking direction to Central Govt. to issue ML for Sijimali and Kutrumali Bauxite Blocks | | | | | | | | | | | | | | | | | |
| 23.11.2022 | NIT issued for inviting bids for grant of Mining Lease inter alia for Sijimali Bauxite Block having an area of 1549.022 Ha | | | | | | | | | | | | | | | | | |
| 25.11.2022 | IA 16185 of 2022 filed by L&T seeking stay on auction process | | | | | | | | | | | | | | | | | |
| 02.01.2023 | IA taken up for hearing. However, no interim order passed by Orissa HC | | | | | | | | | | | | | | | | | |
| 22.02.2023 to 24.02.2023 | Final hearing took place in the W.P. (C) 4301 of 2021 and judgement was reserved by the Orissa High Court. | | | | | | | | | | | | | | | | | |
| 02.03.2023 | Orissa High Court pronounced its final judgement holding that L&T was not entitled to get the ML for Sijimali Bauxite Block as it had failed to comply with the conditions of the prospecting license and the application had also lapsed due to MMDR Amendment Act, 2021. | | | | | | | | | | | | | | | | | |
| 25.03.2023 | SLP was filed before the Supreme Court by L&T against the judgement of the Orissa High Court dated 02.03.2023 – SLP (C) No. 6163 of 2023. | | | | | | | | | | | | | | | | | |

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| | 10.04.2023 | The SLP was listed before the Supreme Court. However, the matter was adjourned. |
| | 11.04.2023 | As a matter of abundant caution, Intervention Application (IA) No. 74424 of 2023 was filed by M/s. Vedanta Limited before the Supreme Court in SLP (C) No. 6263 of 2023 seeking to be made a party in the case. However, M/s. Vedanta is yet to be made a party/respondent to the case. |
| | 24.04.2023 | The SLP was listed before the Supreme Court. However, the matter was adjourned. |
| | 15.05.2023 | The SLP was listed before the Supreme Court. Notice was issued in the matter including on the IA filed by M/s. Vedanta Ltd. No stay was granted by the Court and the next dated of hearing is 08.08.2023. |

iv. Details of Mine Lease:

- a) The Project Proponent has submitted that earlier Larsen & Turbo had Sijimali Block with an area of 1549.09 ha for which ToR has been issued by the MoEF&CC vide Proposal No. IA/OR/MIN/35455/2015 & File No. J-11015/100/2016-IA.II(M) dated 15.03.2016.
- b) Now this block was granted to M/s. Vedanta Ltd. having the same area through E-auction dated 09.02.2023 and accordingly Govt. of Odisha granted the Letter of Intent (LoI) for grant of mining lease vide letter no: 2103/SM-MC2-MC-0006-2023/2103/S&M, Bhubaneswar dated 01.03.2023 over an area of 1549.022 ha in favour of M/s. Vedanta Ltd and the LoI is valid up to 28.02.2026.

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

| | |
|---|--|
| Private Agriculture land | 127.9 Ha |
| Government land | 722.9 Ha |
| Forest land | 699.7 Ha |
| Total Mining lease area (MLA) | 1549.022 Ha |
| Private land for crusher, workshop & other infrastructure outside the MLA | No infrastructure is proposed outside the mine lease area |
| Additional information (if any) | Total ML Area is 1549.02 ha, as per auction documents; Govt. Land is 1257.311 Ha, Private Land is 133.810 Ha & Forest Land is 157.901 Ha. Whereas as per revised certified land schedule; 722.9 Ha is Govt Land, 699.7 Ha is Forest Land and 127.9 Ha is Pvt. Land. |

vi. Details of Mining Plan:

- a) The Project Proponent has submitted that the Mining Plan is yet to be approved by Indian Bureau of Mines (IBM).
- b) The method of mining will be fully mechanized opencast method of mining with HEMM with deep hole drilling & blasting with combination of loaders & tippers. Total Geological Resources estimated as 311.01 Million TPA and Mineable Reserves estimated as 299.58 Million TPA. Life of the mine will be ~31 years.
- c) The proposed bench height and width will be 8m and 20 m respectively. The individual bench slope will be 85° and overall pit slope will be 30°. Ultimate depth of mining will be 45m bgl.
- d) The bauxite will be transported from mine face to crusher or ROM ore stock pile by rear dump trucks. The bauxite will be loaded by front end loaders or hydraulic excavators. Crushed bauxite will be transported up to the railway siding by covered trucks and from the railway siding up to plant by rail.
- e) At conceptual stage estimated 4.78 million tonnes of top soil will be generated and same will be used for greenbelt/plantation. At conceptual stage, estimated 204.29 million tonnes of waste will be generated. Waste will be used to backfilled the 1204.57 ha excavated area.
- f) No mining activities exist in the mine lease area and no mining activities have been carried out by Vedanta Ltd. as the block has been recently auctioned & LOI letter issued to the Company on 01.03.2023. Since, Sijimali Block is a virgin block and mining lease is yet to be granted, so no illegal mining has been carried out within the mine lease area.

vii. Water requirement:

| | | | |
|--|--|---------------|---|
| Total water requirement | 725 KLD | Fresh water | - |
| | | Treated water | - |
| Quantity of fresh & treated water will be figured out during the preparation of Hydrogeology Report. | | | |
| Source | The water will be sourced from the Ground, Surface & Mine Sump. | | |
| Permission | Water will be sourced from ground water & surface water and water will be withdrawal after taking the permission from the Competent Authority. | | |

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

| Particulars | Particular's Name | Distance & Directions |
|-----------------|--------------------|----------------------------|
| Village | Habitation | Within the mine lease area |
| Town | Bhawanipatna | ~39 km, North |
| Highway | SH-44 | ~1.5 km, West |
| Railway Station | Sikarpai | ~ 20 km, SE |
| Water Bodies | Chauladhoba Nallah | ~0.4 km, South |

ix. 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 | <p>699.7 ha of forest land is involved within the ML Area. Application for Forest Clearance is under process.</p> <ol style="list-style-type: none"> i. Request Letter regarding Forest Clearance for Sijimali Mine has also been submitted to the Principal Chief Conservator of Forest-Nodal, Bhubaneswar, Odisha and Divisional Forest Officer Kalahandi & Rayagada on 28.04.2023 ii. M/s. Vedanta Limited requested District Collector & District Magistrate and Divisional Forest Officer of Rayagada & Kalahandi on 09.03.2023 for Compensatory Afforestation Land allotment. Again, it was requested to District Collector & District Magistrate and Divisional Forest Officer of Rayagada & Kalahandi on 14.04.2023 regarding the same. iii. Subsequently, Collector Rayagada requested all Tehsildars of the district on 20.04.2023 to identify suitable land for Compensatory Afforestation purpose iv. The revised land schedule after Hal-Sabik comparison and DLC land status verification have been submitted to the Tehsildar of Thuamul Rampur and Kashipur of Kalahandi and Rayagadadistricts respectively on 25.04.2023 for final authentication. |
| National park | No | National Park is not located within 10 km of the area. |
| Wildlife Sanctuary | No | Wildlife Sanctuary is not located within 10 km of the area. Karlapat Wildlife Sanctuary located at a distance of ~12.9 km, North. |
| Eco-Sensitive Zone(ESZ)/Eco-Sensitive Area(ESA) | No | Eco-Sensitive Zone (ESZ) /Eco-Sensitive Area (ESA) is not located within 10 km of the area. |
| Elephant/Tiger Reserve | No | No Elephant/ tiger reserves is located within 10 km of the area. |
| Coastal Regulation Zone (CRZ) | No | The proposed mine is located in District Kalahandi & Raygada of State Odisha, which is not a coastal zone. Therefore, the proposed mine does not come under purview of CRZ. |

| | | |
|--|--|---|
| Schedule-I species (No.s and name of schedule-I species with authenticated letter)& Wildlife Conservation Plan | | List of flora & fauna is under preparation. Presence of Schedule I species will be finalized after the authentication of list of flora & fauna and Wildlife Conservation Plan will be prepared accordingly. |
|--|--|---|

x. Green belt/plantation details:

| | |
|--|--|
| Proposed area for green belt/plantation and no. of saplings proposed | Greenbelt will be developed over an area of 33.43 ha with 83,575 nos of saplings @ 2500 and 1204.57ha area will be covered under plantation/regrassing with 12,04,570 nos of saplings @ 1000 |
| Budget for green plant & plantation till the end of life of mine. | Total nos of saplings 12,88,145 Budget Proposed: Rs. 25.76 Crore |
| Budget for nursery | 15 Lakhs |
| No. of tree cuts in the mine lease area and compensatory afforestation | The no.s of tree cutting will be ascertained after the tree enumeration and compensatory afforestation will be done accordingly |
| Particulars for Green belt/plantation | Area covered (in Ha) |
| 7.5 m barrier & non-mineralized zone | 33.43 ha |

xi. Rehabilitation & Resettlement:

| | |
|---------------|---|
| R & R details | The mine site falls in 18 revenue villages covering 500 nos of PAFs & 100 nos of PDFs. R&R study is under process & will be incorporated in Draft EIA/EMP Report. |
|---------------|---|

xii. Details of Court Cases:

| | |
|---|--|
| Court Case, No and its present status | One Court Case is Pending. Case Details SLP (C) 616/2023 – Larsen & Toubro v Union of India & Anr. SLP has been filed before the Supreme Court of India challenging the Orissa High Court order dated 02.03.2023 holding that L&T is not entitled to the mining lease for the Sijimali Bauxite Block. However, this case has no impact on consideration of the current application made by M/s. Vedanta for the Sijimali Bauxite Block. |
| Undertaking by Project Proponent w.r.t court case | The Project Proponent has submitted an undertaking dated 20.05.2023 stating that there is no other case pending in respect of the project. |

- xiii. The Project Proponent submitted the Affidavit in a non-judicial stamp paper of Rs 100 bearing no: R 010981 dated 24.03.2023 stating that they will comply with all the statutory requirement & judgment of Hon'ble Supreme Court dated 2nd August 2017 in Writ Petition (Civil) No. 114 of 2014 in the matter of common cause versus Union of India & Ors.
- xiv. The total project cost estimated as Rs792.0 Cr and about 374 persons will get employment.

3. Observation and Recommendation of the EAC:

The EAC deliberated on the additional details submitted by the Project Proponent and the Consultant. The EAC noted the comments of the ESZ Division that the ESZ of Karlapat WLS is yet to be notified, kml file of the ESZ is not available with division neither that of the Karlapat Wildlife Sanctuary. The EAC also noted that the ESZ Division has highlighted the recent Hon'ble Supreme Court judgment dated 26th April 2023 in W.P(C) No.202 of 1995: T.N. Godavarman Vs UOI & Ors. amongst other directions directed that *"mining within the National Park and Wildlife Sanctuary and within an area of one kilometre from the boundary of such National Park and Wildlife Sanctuary shall not be permissible. The MoEF & CC and all the State/Union Territory Governments shall strictly follow the provisions in the said Guidelines dated 9th February 2011 and so also the provisions contained in the ESZs notifications pertaining to the respective Protected Areas with regard to prohibited activities, regulated activities and permissible activities; further direct that while granting Environmental and Forest Clearances for project activities in ESZ and other areas outside the Protected Areas, the Union of India as well as various State/Union Territory Governments shall strictly follow the provisions contained in the Office Memorandum dated 17th May 2022 issued by MoEF&CC."*

The Project Proponent/Consultant has informed the EAC that the Malipadar and Bundel villages falling under Eco-Sensitive Zone of Karlapat Wildlife Sanctuary as per Draft Notification of Karlapat Wildlife Sanctuary dated 09.08.2019 are different from the Revenue Villages of Malipadar and Bundel of Sijimali Bauxite Mine. The Project Proponent also shown themap authenticated by the Forest Dept., Kalahandi South Division that the Karlapat Wildlife Sanctuary is located at 12.723 km distance in North direction and its proposed ESZ is located at 11.621 km distance in North direction from proposed Sijimali Bauxite Mine. Further, the Project Proponent informed the EAC that the SLP (C) No. 6163 of 2023 was listed before the Hon'ble Supreme Court on 15.05.2023. Notice was issued in the matter including on the IA filed by M/s. Vedanta Ltd. No stay was granted by the Court and the next date of hearing is 08.08.2023.

The EAC opined that the instant Terms of Reference (ToR) is subject to the outcome of the said court case SLP (C) No. 6163 of 2023 filed before the Hon'ble Supreme Court. The EAC asked the Project Proponent to explore the feasibility of eliminating drilling and blasting and submit the same at the time of EC proposal. Based on the discussions held, the EAC under the provisions of EIA Notification, 2006 and subsequent amendments therein, **recommended** the proposal for grant of Terms of Reference (ToR) to M/s Vedanta Limited for mining of Bauxite in Sijimali Bauxite Mine (Auctioned Block) with proposed Production Capacity: 9.0 Million TPA of Bauxite, Top Soil: 0.18 Million TPA, Waste: 7.40 Million TPA & Subgrade: 1.42 Million TPA; (Total Excavation: 18.0 Million TPA) along with installation of 2 Crushers (2 x 1200 TPH) in the mine lease area of 1549.022 ha, located at Villages Aliguna, Ambajhola, Bundel, Chulbari, etc., Tehsils: Thuamul Rampur & Kashipur, Districts: Kalahandi & Rayagada, Odisha for undertaking detailed EIA/EMP study subject to the following specific conditions in addition to the standard ToR conditions applicable for non-coal mining projects:-

- i. The instant ToR is subject to the outcome of the court case SLP (C) No. 6163 of 2023 filed before the Hon'ble Supreme Court.
- ii. In view of the agricultural land proposed under the mining lease area, 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 at the time of submission of EC proposal.
- iii. The Project Proponent needs to explore the possibility of eliminating drilling and blasting at the time of submission of EC proposal.
- iv. The Project Proponent needs to submit the action plan to monitor the movement of wildlife in the study area.
- v. The Project Proponent needs to submit the phase wise action plan for backfilling of the proposed excavated area of 1204.57 ha.
- vi. The Project Proponent needs to monitor the ambient air quality and noise level at the mine lease boundary, nearest village, crusher, predominant downwind direction and at other sensitive receptors. Accordingly, Project Proponent shall propose to install Continuous Ambient Air Quality Monitoring Station within certain timeline.

- vii. 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.
- viii. The Project Proponent needs to submit the map and details regarding the road transportation and its limitation along with the traffic management plan and an action plan for permanent dust suppression systems.
- ix. The Project Proponent needs to submit the detailed site specific measures for protection of undisturbed area surface features such as habitations, schools, water bodies, forest, etc., in and around the vicinity of the mine lease area due to mining activity at the time of submission of EC proposal.
- x. The Project Proponent needs to submit the map demarcating the Forest Land, Government land and the Private land and the mineralized and non-mineralized zone in the mine lease area at the time of submission of EC proposal.
- xi. The Project Proponent needs to carry out the Public Hearing as per provisions of EIA Notification, 2006. PP should also submit the time bound action plan on concerns of the public through a separate budget with capital expenditure with a timeline of 3 years. The Project proponent shall ensure that the activities proposed under the public hearing shall be different from the CSR activities.
- xii. The Project Proponent needs to submit the detailed R&R plan covering all the components viz. number of Project Affected Families (PAF) and details of the land owned by them, break up of total compensation to be paid including method of calculation including the sources/references adopted and mode of payment etc. PP need to submit the plan for Socio economic development of the neighbourhood habitats based on the need based survey along with the time bound action plan. PP also needs to submit the possession certificate and timeline for acquiring the land at the time of submission of EC proposal.
- xiii. The Project Proponent shall carry out the assessment of impact due to the proposed project as per the guidelines issued by the Central Ground Water Authority from time to time and submit the same as a part of the EIA/EMP. The project proponent shall conduct hydrological study for projects involving intersection of ground water table as per the guidelines issued by the Central Ground Water Authority from time to time and submit the same as a part of the EIA/EMP.

- xiv. The Project Proponent shall explore the possibility of reduction of specific water requirement by optimization / technology up gradation, etc. The efforts shall be delineated in the EIA/EMP.
- xv. The Project Proponent shall prepare the scheme for mandatory recycle/re-use of water as specified by the Central Ground Water Authority for different category areas seeking NoC for ground water withdrawal and the shall submit as part of EIA/EMP report.
- xvi. During the submission of EC proposal, the Project Proponent needs to submit the action plan for carrying out plantation along the 7.5m barrier, safety zone of habitations, water bodies, roads etc., PP should also submit the details no of saplings to be planted, type of saplings proposed and the area to be covered under greenbelt/plantation along with the timeline and budget. The Project Proponent needs to submit the compensatory afforestation plan for the no. of trees to be cut in the mine lease area. The afforestation plan shall be prepared in such a way that the ecology of the area shall be restored.
- xvii. The Project Proponent needs to submit the letter from Dept. of Mining & Geology clarifying whether any illegal mining within the mine lease area has been carried out or not and whether the same has been carried out by PP or not at the time of submission of EC proposal.
- xviii. The Project Proponent shall conduct drone survey of the mine lease area and buffer area and submit during the appraisal for EC.

Day 2: 12th July, 2023 (Wednesday)

2.1 Expansion in Production Capacity of Limestone from 3.3 to 5.77 MTPA ROM (Limestone: 5.25 MTPA & Mineral Reject: 0.52 MTPA), Top Soil: 0.001 MTPA, OB: 3.08 MTPA, (Total Excavation: 8.851 MTPA) along with Crusher 1500 TPH Capacity with Wobbler in the mine lease area of 689.76 ha (ML No. 29/99), located at Villages: Moharai, Dagla, Asarlai, Tunkara, Nimbera Khurd in Tehsil: Jaitaran and Village: Meshia in Tehsil: Raipur, District: Pali, Rajasthan by M/s UltraTech Cement Ltd – [F.No: J-11015/281/2011-IA.II(M), Proposal No: IA/RJ/MIN/434470/2023; Consultant: M/s JM EnviroNet Pvt. Ltd] - Environmental Clearance (Expansion)

The instant proposal is for grant of Environmental Clearance of M/s UltraTech Cement Ltd for expansion in Production Capacity of Limestone from 3.3 to 5.77 MTPA ROM (Limestone: 5.25 MTPA & Mineral Reject: 0.52 MTPA), Top Soil: 0.001 MTPA,

OB: 3.08 MTPA, (Total Excavation: 8.851 MTPA) along with Crusher 1500 TPH Capacity along with Wobbler in the mine lease area of 689.76 ha (ML No. 29/99), located at Villages: Moharai, Dagla, Asarlai, Tunkara, Nimbera Khurd in Tehsil: Jaitaran and Village: Meshia in Tehsil: Raipur, District: Pali, Rajasthan.

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

- i. The mine lease area is located between Latitude: 26°10'18.07"N to 26°14'44.37"N and Longitude: 74°04'00.41"E to 74°06'41.0"E. The mine lease area falls under the Survey of India Toposheet No: G43 I4 and falls in Seismic Zone-II.
- ii. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals and falls under Category "A" of the schedule of the EIA Notification, 2006 as the mine lease area is greater than 250 ha and appraised at the Central level.
- iii. Details of previous Environmental Clearance (EC):
 - a) Initially, the Project Proponent obtained Environmental Clearance vide EC letter no J-11015/281/2011-IA.II(M) dated 02.01.2014 for Limestone production capacity of 3.3 MTPA over an area of 755.10 ha.
 - b) Then, the Project Proponent obtained amendment in EC dated 02.01.2014 on 24.02.2016 w.r.t amendment in specific condition (ii), change in mine lease area from 755.10 ha to 689.76 ha, mineral reserves and Latitude and Longitude of the mine lease area.
 - c) Again, the Project Proponent obtained amendment in EC on 03.06.2020 for utilization of waste in construction of Integrated Cement Plant as a onetime permission.
- iv. Details of Terms of Reference (ToR):
 - a) The Project Proponent has obtained Terms of Reference (ToR) vide ToR Lr.No. J-11015/69/2020-IA.II(M) dated 29.12.2020 for expansion in Production Capacity of Limestone from 3.3 to 5.77 MTPA ROM (Limestone: 5.25 MTPA & Mineral Reject: 0.52 MTPA), Top Soil: 0.001 MTPA, OB: 3.08 MTPA, (Total Excavation: 8.851 MTPA) & Crusher 1500 TPH Capacity along with Wobbler in the mine lease area of 689.76 ha (ML No. 29/99), located at Villages: Moharai, Dagla, Asarlai, Tunkara, Nimbera Khurd in Tehsil: Jaitaran and Village: Meshia in Tehsil: Raipur, District: Pali, Rajasthan for undertaking detailed EIA/EMP study.
- v. Details of Mine Lease:
 - a) The Project Proponent has submitted that the State Government granted the Letter of Intent (LoI) vide Lr No. P-16/3/Mines/Group 2/2000 dated 27.07.2012 over an area of 755.1 ha in the name of M/s UltraTech Cement Ltd.
 - b) Then, the State Government granted the revised LoI vide letter no. P.16 (3) Mine/Group2/2000 dated 21.04.2014 after the reduction of Charagah land over an area of 689.76 ha.

- c) Mining lease deed for the revised area of 689.76 ha was executed on 17.03.2015 & registered on 19.03.2015 for a period of 50 years i.e., upto 18.03.2065.

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

| | |
|---|------------|
| Private land | 348.854 ha |
| Government land | 340.907 ha |
| Forest land | - |
| Total Mining lease area (MLA), ha | 689.76 ha |
| Private land for crusher, workshop & other infrastructure outside the MLA | Nil |

vii. Details of Mining Plan:

| | | | |
|--|---|----------------------------------|------------|
| Modified Mining Plan along with Progressive Mine Closure Plan approved by Indian Bureau of Mines | Letter No. | 584(4)(3)(1838)/2020-RCOM, Ajmer | |
| | Date | 23.11.2020 | |
| | Mineral & (Major/Minor) | Limestone (Major mineral) | |
| | Mine Lease Area, Ha | 689.76 Ha | |
| | Validity | 2021-22 to 2024-25 | |
| Mining Parameters | Quantitative Description | | |
| Method of Mining | Fully Mechanized Opencast Mining | | |
| Drilling/Blasting | S. No. | Drilling & Blasting Parameter | |
| | 1 | Dia of Hole | 100-115 mm |
| | 2 | Burden | 3 m |
| | 3 | Spacing | 4-5m |
| | 4 | Depth of the Hole | 8 Mtr |
| | 5 | Total Holes | 82 Nos. |
| | 6 | Stemming | 3.0 mtr |
| | 7 | Powder Factor | 6/7 Ton/Kg |
| | 8 | Charge Per Hole | 45 Kg |
| Geological Reserves | 238.464 Million Tonnes | | |
| Mineable Reserves | 191.107 Million Tonnes | | |
| Breakup of Total Excavation (Topsoil/OB/SB/IB/Mineral Rejects/Waste, MTPA) | ➤ Limestone: 5.25 Million TPA ➤ Top Soil: 0.001 Million TPA ➤ Overburden: 3.08 Million TPA ➤ Mineral Reject: 0.52 Million TPA Total Excavation: 8.851 Million TPA | | |
| Life of mine | 34 years | | |
| Mine Bench Height & Bench Width | Bench Height: 8 m Bench Width: Running >20 m | | |
| No. of Mine Benches | 6- 8 Nos. | | |
| Existing Depth, m bgl | 294 m AMSL at the end of plan period | | |
| Ultimate Depth of Mining, m bgl | 294 m AMSL (41m bgl) | | |

| | |
|--|---|
| Ground Water Table, m bgl | Water level pre monsoon 35-45 mbgl Water level Post monsoon 25-35 mbgl |
| Details of ground water intersection | As per the present mining plan period ground water will intersect during the year 2024-25. However, due to delay in plant commencement mine production plan, proposal delayed by 2 years. Hence, ground water intersection is anticipated by 2026-27. |
| Individual bench slope | 75-80° |
| Overall pit slope | 45° |
| Details of existing/ proposed Crusher | 1200 TPH capacity crusher has already been installed within the mine lease and 300 TPH capacity will be increased after modification; hence, total crusher capacity after expansion will be 1500 TPH. |
| Mineral Beneficiation | No beneficiation will be involved |
| RoM output size | + 50 mm |
| Transportation details including capacity of dumper/tipper, mode of transport and distance | Transportation of waste & limestone from mine face to the crusher/stockpiles/waste dump is being carried out by 50 Tonner dumpers. Crushed limestone is being/will be transported to Cement Plant via covered conveyor belt (length 3.5 km). |
| Generation of Topsoil/OB & its Management during plan period & conceptual period | <p>Top soil: During plan period about 0.001 million tonnes of top soil will be generated which will be stacked separately in 0.742 ha area & simultaneously use for greenbelt & plantation</p> <p>OB/ Waste: During the plan period, about 10.05 million tonnes of waste to be generated. At conceptual stage, about 102.25 million tonnes of waste to be generated. The waste generated shall be utilized for Preparation of road, Preparation of ramp, leveling work, partly proposed for plant construction and Balance for backfilling purpose. Out of the total generated waste i.e. 102.25 million tonnes.</p> <ol style="list-style-type: none"> i. 1.8 million tonnes of waste to be used for construction activities of plant. Other than this, in future if more quantity is required for plant construction, then same will be used with due permissions. ii. 88.85 million tonnes will be used for backfilling in 93.124 ha area. Backfilling will be followed by plantation & re-grassing. |

| | |
|---|--|
| | iii. 11.575 million tonnes will be used for dumping in 26.195 ha area later on which will be reclaimed by plantation. |
| Generation of Mineral Rejects/Waste & its Management during plan period & conceptual period | During Plan period, about 1.78 Million Tonnes and at the conceptual stage about 17.19 Million Tonnes of Mineral reject will be generated. The waste generated shall be utilized for the following activities: Preparation of road, Preparation of ramp, leveling work, partly proposed for plant construction and Balance for partial backfilling purpose. |

viii. Water requirement:

| | | | |
|---|---|---------------|-----|
| Total water requirement | 340 KLD | Fresh water | 330 |
| | | Treated water | 10 |
| Source | Ground water and later on from Mine sump as when developed. | | |
| Permission for withdrawal/intersection along with details of grant and its validity | NOC for Ground water abstraction of fresh water of 400m ³ /day has been obtained from Central Ground Water Authority vide NOC No. CGWA/NOC/MIN/REN/1/2022/7123, dated 08.03.2021 and it was valid up to 07.03.2023. Application for renewal of NOC has been submitted vide letter no. 21-4/600/RJ/MIN/2014, dated 06.02.2023. Permission from CGWA will be taken before ground water intersection. | | |

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

| Particular | Particular's Name | Distance & Directions from ML Boundary |
|------------------------------|--|---|
| Village | Tunkara Village | Adjacent from ML in NE direction & 300m from UPL in NE direction |
| Town | Nimaj | ~6.5 km in SW direction |
| Highway | NH-112 | ~4.7 km in SW direction |
| Interstate Boundary | - | - |
| Railway Station/Railway line | Bar Railway Station | ~13.0 Km in SSE direction |
| Water Bodies | Lilri River Sukri Nadi Chhatar Sagar | ~50 m SSE direction ~2.5 km in SE direction ~7.0 km in SW direction |
| Forest | <u>Reserved Forest</u> Asarlai Jor Block RF Asarlai Jor Block RF Birantiya Adidang RF | ~0.75 km in NNW direction ~5.0 km in NW direction ~8.0 km in SE direction |

| | | |
|--|--|-------------------------------|
| | Babra Giri Block RF <u>Protected Forest</u> | ~9.0 km in the East direction |
| | Protected Forest | ~5.0 Km in NW direction |
| | Kalu Lambiya Jod PF | ~9.5 km in NNW direction |
| | Protected Forest | ~9.5 km in NNE direction |

x. Presence of Environmentally Sensitive areas in the study area:

| Forest Land/Protected Area/Environmental Zone | Yes/No | Details of Certificate/letter issued by the concerned Department mentioning the Lr no, date of grant and remarks |
|---|--------|--|
| Forest Land within the mine lease area and (if yes) status of Forest Clearance | No | The Project Proponent has submitted the Certificate obtained from District Conservator of Forest, Pali, vide Lr.No. F () Uvsam/Survey/2020-21/1461, dated 24.03.2021 stating that the distance of the applied area from forest area is more than 500 meters. There is no National Park / Wildlife Sanctuary area in the periphery of the 10 km of the applied area. |
| National Park | No | The Project Proponent submitted the map authenticated by District Conservator of Forest vide F Survey Uvsam/2021/1794, vide dated 09.03.2021. |
| Wildlife Sanctuary | No | |
| Elephant/Tiger Reserve | No | |
| Eco-Sensitive Zone(ESZ) /Eco-Sensitive Area (ESA) | No | |
| Coastal Regulation Zone (CRZ) | No | |
| Aravalli Range | No | The Project Proponent has submitted the letter from the Mining & Geology Department vide Lr. no. ME/Sojat/Pradhan/M.L. 29/1999/1344, dated 01.08.2012 stating that the mine lease area does not come under the Aravali Range. |
| Schedule-I species (Nos and name of schedule-I species with authenticated letter) | | Authenticated list of flora & fauna separately for core zone and buffer zone has been obtained from District Conservator of Forest, Pali, Govt. of Rajasthan vide letter no. F () Uvsam/Survey/2020-21/1463, dated 24.03.2021. Two Schedule-I species i.e. Indian Peafowl (<i>Pavo Cristatus</i>) and Indian Monitor Lizard (<i>Varanus Bengalensis</i>) were recorded in the study area during field survey. |
| Wildlife Conservation Plan | Yes | Wildlife Conservation Plan has been approved from PCCF & CWW vide letter no. F 11(430) Vikas-II/Mu.V.Ji.Pra./2022- |

| | | |
|--|--|--|
| | | 23/621, dated 17.08.2022. Budget of Rs. 354.88 Lakh has been earmarked for the same. |
|--|--|--|

xi. Greenbelt/Plantation details:

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|--|---|
| Proposed area for green belt/plantation and no. of saplings proposed | Total Greenbelt/Plantation: 227 ha ML boundary and on un-worked area: 107.681 ha, Backfilled area: 93.124 ha Waste dump: 26.195 ha Total Proposed Plantation: 5,67,500 no.s |
| Budget for green plant & plantation till the end of life of mine | Rs 11.35 Crore |
| Budget for nursery | |
| Details of existing plantation and its survival rate | Survival rate is being/will be maintained 90% |
| No. of tree cuts in the mine lease area and compensatory afforestation | 15 trees will be cleared |

xii. Baseline Data:

| | | | | |
|--|--|-------------------|--------------------------------------|--|
| Baseline Data (Air / Water / Noise / Soil / Hydro geological study/ Traffic Study/ others) | | | | |
| Period of baseline data collection | Dec., 2022 to Feb., 2023 | | | |
| Season (Summer / Pre-monsoon / Post-monsoon / Winter) | Winter Season | | | |
| Predominant Wind direction (From) | North | | | |
| Ambient Air Quality and results | S.No | Parameters | Winter Season | Standards ($\mu\text{g}/\text{m}^3$) |
| | 1 | PM ₁₀ | 51.7 – 88.6 $\mu\text{g}/\text{m}^3$ | 100 |
| | 2 | PM _{2.5} | 28.0 – 50.9 $\mu\text{g}/\text{m}^3$ | 60 |
| | 3 | SO ₂ | 5.5 – 14.3 $\mu\text{g}/\text{m}^3$ | 80 |
| | 4 | NO ₂ | 10.9 – 27.4 $\mu\text{g}/\text{m}^3$ | 80 |
| Noise level (8 locations) and results | Day Time: 51.2 to 68.3 Leq dB (A) Night Time: 42.2 to 59.7 Leq dB (A) | | | |
| Water Quality (no. of locations) and results | Parameters | | Ground water (10 locations) | |
| | pH at 25°C | | 7.41 – 9.6 | |
| | Total Dissolved Solids, mg/l | | 789 – 3951 | |
| | Chloride as Cl-, mg/l | | 238.87 – 1969.90 | |
| | Total Hardness, mg/l | | 349.87 – 1718.96 | |
| | Fluoride as F, mg/l | | 0.72-1.46 | |

| | | |
|--|--|-----------------|
| Soil Quality (no. of locations) and results | Parameters | Observed Values |
| | pH | 7.02 – 7.89 |
| | Electrical Conductivity (µS/cm) | 0.24 – 0.38 |
| | Organic Matter (%) | 0.44 – 0.66 |
| | Nitrogen as N (Kg/Ha) | 70.68 – 206.69 |
| | Phosphorus (Kg/Ha) | 11.7 – 25.21 |
| | Potassium (Kg/Ha) | 148.07 – 268.23 |
| Hydro geological study and results | The Project Proponent has submitted that the Hydro geological study was carried out by Associate Engineers & Consultants (Accredited by Central Ground Water Authority). As per Hydro geological studies water level in the area ranges between 319 to 321 mRL. Hence, there will be no possibility of water table intersection; however necessary permission will be obtained before intersection of water table. It is estimated that total water accumulated in the mine sump will be 531 KLD by the end of plan period will be used for mining activities. | |
| Traffic study (no. of locations) and results | Not Applicable, as mineral is being transported via covered conveyor belt. | |
| Additional information (if any) | The Project Proponent has submitted that earlier baseline study was conducted during Winter Season (Dec., 2019 to Feb, 2020), as the Baseline Data was three years old; one season fresh baseline study was conducted during Winter Season (Dec., 2022 to Feb., 2023). | |

xiii. Public Hearing (PH) Details:

| | |
|---|--|
| Advertisement for PH with date (name of major national daily and one regional vernacular daily newspaper) | Dainik Bhaskar on 31.01.2021 and Times of India on 01.02.2021 |
| Date of PH | 02.03.2021 |
| Venue | Government Senior Secondary School (Playground), Village Balara, Tehsil Jaitaran, District Pali, Rajasthan |
| Chaired by | Mr. Radheshyam Meena: Additional District Collector, Pali (Rajasthan) Mr. R.K. Boda, Regional Officer, Rajasthan State Pollution Control Board, Pali, Rajasthan |
| Main issues raised during PH | Environment, Education, Employment, Skill Development, Drinking Water etc. |

| | |
|---|--------------|
| Budget proposed for addressing issues raised during PH over 3 years | Rs 226 Lakhs |
|---|--------------|

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

| Particulars | Details of Letter along with date of grant and validity | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|--|---|--|---|---------|-----|-----|---|---------|-----|--------|---|---------|-----|---------|---|---------|-----|--------|---|---------|-----|---------|---|---------|-----|--------|---|---------|-----|---------|---|---------|-----|----------|
| Consent to Establish | Consent to Establish was granted by the Rajasthan State Pollution Control Board vide Letter no F (Mines)/ Pali (Jaitaran) /79(1)/2015-2016/2722-2726, dated 06.10.2015 for production capacity of Limestone: 3.3 Million TPA. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Consent to Operate | Consent to Operate was granted by the Rajasthan State Pollution Control Board vide letter no. F (Mines) / Pali (Jaitaran)/85(1)/2016-2017/4016-4020, dated 17.11.2021 for production capacity of Limestone (ROM) 3.3 Million TPA and is valid upto 30.11.2026. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Certified Compliance Report and Inspection date | Compliance of Conditions stipulated in EC has been certified by Integrated Regional Office (IRO), Jaipur vide letter dated 03.04.2023. Site visit was conducted by IRO on 09.03.2023. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Certified Production Details from the inception of the mine (in tabular form against the EC capacity) | <p>The Mine came into production since 16th Jan., 2017. Past production figures has been duly authenticated by Assistant Mining Engineer, Sojat City, Department of Mining and Geology (Govt. of India), vide dispatch no. N-ME/Sojat/Major/29/1999/67, date 06.04.2023.</p> <table border="1"> <thead> <tr> <th>S. No.</th> <th>Year</th> <th>Granted Capacity as per EC & CTO (MTPA)</th> <th>DMG Certified Production Details, MTPA</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2015-16</td> <td>3.3</td> <td>Nil</td> </tr> <tr> <td>2</td> <td>2016-17</td> <td>3.3</td> <td>0.0001</td> </tr> <tr> <td>3</td> <td>2017-18</td> <td>3.3</td> <td>0.00012</td> </tr> <tr> <td>4</td> <td>2018-19</td> <td>3.3</td> <td>0.0023</td> </tr> <tr> <td>5</td> <td>2019-20</td> <td>3.3</td> <td>0.02006</td> </tr> <tr> <td>6</td> <td>2020-21</td> <td>3.3</td> <td>0.0043</td> </tr> <tr> <td>7</td> <td>2021-22</td> <td>3.3</td> <td>0.01591</td> </tr> <tr> <td>9</td> <td>2022-23</td> <td>3.3</td> <td>1.166378</td> </tr> </tbody> </table> | S. No. | Year | Granted Capacity as per EC & CTO (MTPA) | DMG Certified Production Details, MTPA | 1 | 2015-16 | 3.3 | Nil | 2 | 2016-17 | 3.3 | 0.0001 | 3 | 2017-18 | 3.3 | 0.00012 | 4 | 2018-19 | 3.3 | 0.0023 | 5 | 2019-20 | 3.3 | 0.02006 | 6 | 2020-21 | 3.3 | 0.0043 | 7 | 2021-22 | 3.3 | 0.01591 | 9 | 2022-23 | 3.3 | 1.166378 |
| S. No. | Year | Granted Capacity as per EC & CTO (MTPA) | DMG Certified Production Details, MTPA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2015-16 | 3.3 | Nil | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 2016-17 | 3.3 | 0.0001 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 2017-18 | 3.3 | 0.00012 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 2018-19 | 3.3 | 0.0023 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 2019-20 | 3.3 | 0.02006 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 2020-21 | 3.3 | 0.0043 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | 2021-22 | 3.3 | 0.01591 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | 2022-23 | 3.3 | 1.166378 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

xv. Rehabilitation & Resettlement (R&R):

| | |
|---------------|---|
| R & R details | The Project Proponent has submitted that the total mine lease area is 689.76 ha, out of which 340.907 ha is Govt. Land and 348.854 ha is a Private land. An area of 679.34 ha land is under possession of M/s UltraTech Cement Ltd and remaining area of 10.42 ha is yet to be purchased. |
|---------------|---|

xvi. Court case details:

| | |
|---|--|
| Court Case, No and its present status | No court case is pending against the project. |
| Undertaking by Project Proponent w.r.t court case | The Project Proponent has submitted an undertaking vide letter dated 16.06.2023 stating that there is no litigation pending against the project and/or any direction/order passed by any Court of Law against the project and/or land/R&R against the project and that for any such litigation whatsoever, the sole responsibility will be borne by the Project Proponent. |

xvii. Affidavit/Undertaking details:

| | |
|--|---|
| Affidavit as per Ministry's OM dated 30.05.2018 | The Project Proponent has submitted an Affidavit in a non-judicial stamp paper of Rs 100 bearing no: BG 909220 dated 16.06.2023 stating that the company hereby undertakes by Affidavit to 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 before grant of ToR/EC. |
| Undertaking by Project Proponent in EIA/EMP report | The Project Proponent has submitted an undertaking vide letter dated 25.06.2023 stating that they have reviewed the EIA report and take full responsibility and ownership of the contents presented in the EIA report by JM 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. |
| Undertaking by Consultant in EIA/EMP report | The Consultant has submitted an undertaking vide letter dated 20.06.2023 to the effect that the conditions laid down in Terms of Reference prescribed by MoEF&CC, New Delhi vide letter no. J-11015/69/2020-IA-II (M) dated 29.12.2020 has 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. |
| Plagiarism Certificate checked on 20.06.2023 | The Head of the Accredited Consultant Organization/ Authorized person certified that this EIA Report has been evaluated by using online software viz. Plagiarism Checker X. The report produced has been analyzed by the system and based on that the EIA Report produced in accordance with good scientific practice. |

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

| S. | Activities | Existing | Additional | Total |
|----|------------|----------|------------|-------|
|----|------------|----------|------------|-------|

Minutes of 17th EAC (Non-Coal Mining) meeting held during 11-12 July, 2023

| No. | | Capital Cost | Recurring | Capital Cost | Recurring | Capital Cost | Recurring |
|---------------------|---|--------------|-----------|--------------|-----------|--------------|-----------|
| Mitigative Measures | | | | | | | |
| 1. | Water tanker (28 KL) for water sprinkling on haul roads, mining areas/activities | 56 | 6.5 | 80.0 | 10.0 | 136.0 | 16.50 |
| 2. | Permanent water sprinkling arrangements for main haulage road (Length 1.50 km) | - | - | 22.50 | 2.0 | 22.5 | 2.0 |
| 3. | Bag Filter at Crusher | 130.0 | 1.0 | 16.0 | 3.0 | 146.0 | 4.0 |
| 4. | Sprinkling system at crusher hopper and at transfer point | 3.0 | 0.50 | 2.0 | 0.50 | 5.0 | 1.0 |
| 5. | Greenbelt along the 7.5m ML Periphery (Existing on 6.61 Ha with 10,874 nos of saplings, Capital Cost: Rs. 21.75 Lakh & Recurring Cost: Rs. 3.0 Lakh) Total saplings @ 2500 should be 16525 (Out of which 10,874 nos of saplings were planted @ 1645, Remaining to be planted under Gap Plantation: 5651) Gap Plantation of 5651 nos of saplings with Cost: Rs. 11.30 Lakh Remaining Area for Greenbelt 6.49 with 16,225 nos of saplings, Estimated Cost: Rs. 32.45 Lakh; Capital Cost: Rs. 3.0 Lakh | 22.0 | 3.0 | 44.0 | 3.0 | 66.0 | 6.0 |
| 6. | Plantation on 213.9 ha (Existing on 22.79 ha with 37,490 nos of saplings, Cost: Rs. 74.98 Lakh, Recurring Cost: 5.0 Lakh) Total saplings @ 2500 should be 56975 (Out of which Planted 37,490 @ 1645, Remaining to be planted under Gap Plantation: 19485) Gap Plantation of 19485 nos of saplings with Cost: Rs. 38.97 Lakh Remaining area for Plantation on 191.11 ha with 4,77,775 nos of saplings, Cost: Rs. 955.55 Lakh, to be covered under recurring cost as Rs. 28.10 Lakh considering life of mine 34 years) | 75.0 | 5.0 | 39 | 28.10 | 114 | 33.10 |
| 7. | Construction of Garland drain | 4.0 | 0.50 | 7.0 | 3.0 | 11.0 | 3.50 |

Minutes of 17th EAC (Non-Coal Mining) meeting held during 11-12 July, 2023

| | | | | | | | |
|---|--|-------|------|--------|-------|--------|-------|
| | along the Soil & Waste Dump | | | | | | |
| 8. | Construction of Retaining Wall along the Soil & Waste Dump | 3.0 | 1.0 | 60.0 | 5.0 | 63.0 | 6.0 |
| 9. | Construction of 02 nos of Sedimentation Pond/ Settling Tanks | 1.0 | 0.50 | 2.0 | 1.5 | 3.0 | 2.0 |
| 10. | Construction of 02 nos of Check dams | 2.0 | 1.0 | 4.0 | 1.0 | 6.0 | 2.0 |
| Sub-Total | | 296.0 | 19.0 | 276.50 | 57.1 | 572.50 | 76.10 |
| Monitoring | | | | | | | |
| 1. | 5 Ambient Air Quality Monitoring Stations at Mine Site (Online and 5 manual) at Villages: Moharai, Dagla, Asarlai, Tunkara & Nimbera Khurd | 5.0 | 3.5 | 120.0 | 5.0 | 125 | 8.5 |
| 2. | Fugitive dust emission monitoring (6 locations * Quarterly) | 2.0 | 1.6 | 3.0 | 1.0 | 5.0 | 2.6 |
| 3. | Installation of Piezometers in & around mining lease area | 7.0 | 0.50 | 2.5 | 0.5 | 9.5 | 1.0 |
| 4. | Ground Water Quality Analysis | 1.0 | 0.50 | 2.0 | 1.0 | 3.0 | 1.50 |
| 5. | Surface Water Quality Analysis | 1.0 | 0.50 | 2.0 | 1.0 | 3.0 | 1.50 |
| 6. | Workshop Waste Water Quality Analysis and maintenance of Oil-Water Separators | 8.0 | 0.50 | 3.0 | 0.90 | 11.0 | 1.40 |
| 7. | Ambient Noise Monitoring | 5.0 | 1.0 | 2.0 | 2.0 | 7.0 | 3.0 |
| 8. | Ground Vibration Monitoring | 4.0 | 0.40 | 0 | 0 | 4.0 | 0.40 |
| 9. | Digital mapping of entire mine area once in three years (Rs. 4.5 Lakh once in 3 years) | - | 1.5 | - | 1.5 | - | 3.0 |
| Sub-Total | | 33.0 | 10.0 | 134.5 | 12.90 | 167.5 | 22.90 |
| Grand Total | | 329.0 | 29.0 | 411.0 | 70.0 | 740.0 | 99.0 |
| Budget proposed for addressing the issues raised during the Public Hearing: Capital Cost: Rs. 226 Lakh & Recurring Cost: Rs. 4.0 Lakh | | | | | | | |
| Total EMP Cost for Proposed Expansion: Capital Cost (4.11 + 2.26 = 6.37 Crore)&Recurring Cost (0.70 + 0.04 = 0.74 Crore) | | | | | | | |

xix. Details of project cost and employment:

| Particulars | (Rs. In Crore) |
|--|----------------|
| Total cost of EMP (Capital Cost of EMP + capital cost of Public hearing) | 6.37 |
| Project Cost | 115 Crore |
| Employment (No.s) | 111 no.s |

3. Observation and Recommendation of the EAC: -

The Project Proponent has informed the EAC that the instant proposal is for expansion in Production Capacity of Limestone from 3.3 to 5.77 MTPA (ROM) in the mine lease area of 689.76 ha. Initially, Environmental Clearance (EC) was obtained vide EC letter dated 02.01.2014 for production capacity of Limestone 3.3 MTPA. Mining operation started in the year 2016-17. The Cement plant was commissioned during the month of December, 2022. The instant mine lease is associated with the Cement Plant and due to delay in commissioning of Cement Plant, Limestone production was very low during the initial years of mining operation. Mine came into full-fledged operation during the year 2022-23 only. In order to fulfill the Limestone requirement of the expanded capacity of Cement Plant (Line I Clinker: 3.5 MTPA), the instant proposal for expansion in Production Capacity of Limestone from 3.3 to 5.77 MTPA (ROM) is mandated.

The Project Proponent presented the KML file to indicate the site features in the study area. The Project Proponent has shown the boundary of the mine lease area, crusher located inside the mine lease area and the Cement Plant located in the Northern direction of the mine lease area. Nearest Village is Tunkara Village located adjacent to the mine lease area in NE direction and is 300 m away from the UPL. Nearest School is located in the Tunkara village. The EAC asked about the distance of the school from the crusher. The Project Proponent informed the EAC that the school is located at a distance of about 2.0 km from the crusher. Waste dump is located in the non-mineralized zone. At present, mining operation is carried out in Pit-1. Project Proponent also informed the EAC that no mineral beneficiation is involved in the proposal. An area of 300.423 ha will be excavated and an area of 247.861 ha will remain undisturbed. Greenbelt/Plantation will be carried out on 227 ha. The existing project is Rs 189 Cr and additional project cost is Rs 115 Cr.

Further, the Project Proponent has informed the EAC that the waste generated shall be utilized for preparation of road, preparation of ramp, leveling work, partly proposed for plant construction and balance for backfilling purpose. The EAC asked the Project Proponent under which act/rule permission has been taken. The Project Proponent informed the EAC that under rule 12(1)(k) of MCR, 2016 permission has been taken. The EAC asked the Project Proponent to make provision for permanent water sprinklers instead of water tankers so as to reduce the water consumption. The Project Proponent informed the EAC that in view of expansion, 5 no.s of hydraulic excavator of 4.5 cu.m and 6 no.s of 50 Tonnes of Dumper is additionally proposed. As on date, an area of 29.4 ha has been covered under Greenbelt with 73,500 no. of saplings. Budget of Rs 226 Lakhs has been earmarked to address the concerns raised during public hearing over a period of 3 years. Budget of Rs 1.84 Cr has been spent towards the concerns of the public. Certified Compliance report has been issued by Integrated Regional Office (IRO), Jaipur vide letter dated 03.04.2023 and Site visit was

conducted by IRO on 09.03.2023. The EAC advised the Project Proponent to make provision for Continuous Ambient Air Quality Monitoring Stations (CAAQMS) on haul roads and at crusher.

After detailed deliberations made by the Project Proponent and the Consultant, the EAC under the provisions of EIA Notification, 2006 and its subsequent amendments, **recommended** the proposal for grant of Environmental Clearance to M/s UltraTech Cement Ltd for Expansion in Production Capacity of Limestone from 3.3 to 5.77 MTPA ROM (Limestone: 5.25 MTPA & Mineral Reject: 0.52 MTPA), Top Soil: 0.001 MTPA, OB: 3.08 MTPA, (Total Excavation: 8.851 MTPA) along with Crusher 1500 TPH Capacity with Wobbler in the mine lease area of 689.76 ha (ML No. 29/99), located at Villages: Moharai, Dagla, Asarlai, Tunkara, Nimbera Khurd in Tehsil: Jaitaran and Village: Meshia in Tehsil: Raipur, District: Pali, Rajasthan subject to the following specific conditions in addition to the standard EC conditions applicable for non-coal mining projects: -

- i. This Environmental Clearance will be valid upto the life of the mine i.e., 34 years.
- ii. The Project Proponent needs to take permission from the State Government for utilization of waste material
- iii. The Project Proponent intends to go for wet processing in future, necessary prior permission shall be obtained from the MoEF&CC as per the provisions of EIA Notification, 2006 and its subsequent amendments therein.
- iv. The Project Proponent shall construct the boundary wall of adequate height with green fencing and shall undertake dense plantation all along the boundary near Toonkara school.
- v. The Project Proponent shall maintain the distance of 500m radius between the school and the mine lease area throughout the life of the mine. No blasting activity shall be undertaken in this zone.
- vi. The Project Proponent shall construct an embankment all around the working area wherever required to prevent the flow of the water towards mine so that always a natural barrier or embankment is there above HFL.
- vii. The Project Proponent shall continue to monitor the ground induced blasting regularly for every blast performed and the values of “peak particle velocity” and “Air Over Pressure” shall be maintained below the permissible values prescribed

by the DGMS, from time to time. The data needs to be maintained and submitted along with the six monthly compliance report.

- viii. The Project Proponent needs to obtain prior permission from the Forest Dept. for cutting down the trees. PP shall approach the Forest Department to visit the site for demarcation of trees with their type. PP shall explore the possibility of tree transplantation before cutting of trees. If and only if Trees cannot be transplanted PP needs to replant the same in consultation with the Forest Dept. The forest dept. shall give permission for felling of trees in only those conditions wherein tree transplantation is not feasible/impossible, the department before giving such permission shall record in writing for the reasons thereof.
- ix. The Project Proponent shall monitor the air quality, noise level, water quality, water level and ground vibration during drilling and blasting at the edge of the mine, near the village and at other sensitive receptors and such collected data shall be submitted quarterly to the Ministry's Integrated Regional Office.
- x. The Project Proponent needs to make provision for permanent water sprinklers instead of water tankers so as to reduce the water consumption. Further, 20 nos. of fog canon/mist sprayer of atleast 40 m throw shall be installed at various locations in the mine area. Effective dust suppression system shall also be adopted at other parts of the mining lease to arrest the fugitive dust emission.
- xi. The Project Proponent needs to make provision for Continuous Ambient Air Quality Monitoring Stations (CAAQMS) on haul roads and at crusher.
- xii. The air pollution control equipment's like bag filters, vacuum suction hoods, dry fogging system etc. shall be installed at Crushers, and other areas prone to air pollution. PP shall take necessary measures to avoid generation of fugitive dust emissions. The dense plantation shall be carried out in the vicinity of the crusher. The Stack emission monitoring of the Crusher shall be carried out at periodic intervals.
- xiii. The Project Proponent needs to complete the entire 7.5 m peripheral plantation, safety barrier plantation and gap plantation within three years from the start of mining operations. The Project Proponent should plant quality sapling of appropriate height of native and fruit bearing species. In case of tall transplants (seedlings) the seedlings should have proper trained root stock with root biomass commensurate with seedling height to ensure good growth after out planting. Plantation shall be undertaken in consultation with the State Forest Department. The Project Proponent shall implement the practice of drip irrigation for plantation.

- xiv. The Project Proponent should adopt the proper mitigation measures as proposed under EMP with budgetary provision of Rs 4.11 Cr. The adoption of mitigation measures and monitoring of the same as proposed in the EMP shall be done under the supervision of the qualified environmental personnel. The implementation status of the same shall be submitted to the Ministry's Integrated Regional Office.
- xv. The Project Proponent should establish in house (at project site) environment laboratory for measurement of environment parameter with respect to air quality and water (surface and ground). A dedicated team to oversee environment management shall be setup at site which should comprise of Environment Engineers, Laboratory chemist and staff for monitoring of air, water quality parameters on routine basis instead of engaging environment monitoring laboratories/consultants within two years of grant of EC. Any non-compliance or infringement should be reported to the concerned authority.
- xvi. The Project Proponent shall conduct third party audit of compliance of EC condition at an interval one year and its report shall be submitted to IRO, MoEF&CC.
- xvii. The budget of Rs 2.26 Cr to address the concerns raised by the public in the public hearing to be completed within 3 years from the date of start of mining operations. PP shall comply with all action plans made for public hearing concerns and make regular maintenance and record the progressive activity outcomes. The Project proponent shall ensure that the activities proposed under the public hearing is different from the CSR activities.
- xviii. The Project Proponent needs to facilitate the online education system in the schools by providing Wi-Fi connectivity, smart classrooms and desktops/ tablets. PP shall construct a library which shall be made available to the school children as well as local people.
- xix. The Project Proponent shall create awareness among the local people working within the project area as well as its surrounding area on the ban of Single Use Plastic (SUP) in order to ensure the compliance of Notification published by MoEF&CC on 12/08/2021. A report, along with photographs, on the measures taken shall also be included in the six monthly compliance report.
- xx. The Project Proponent shall supply the RO drinking water to the Villages of Moharai, Dagla, Asarlai, Tunkara, Nimbera Khurd & Meshia at free of cost.

- xxi. The Project Proponent shall undertake the avenue plantation along the village road in Villages i.e. - Moharai, Dagla, Asarlai, Tunkara, Nimbera Khurd & Meshia within 2 years from the date of issue of this EC.
- xxii. The Project Proponent shall explore the possibility of using atleast 20% of Electric vehicles/CNG/Solar instead of diesel operation within three years.
- xxiii. The Project Proponent should implement the Rehabilitation of project affected families (PAFs) and payment of compensation to PAFs in line with the policy and guidelines of the Central/State Government, as provided under the law in such a way that the compensation should benefit the current and future generation.
- xxiv. The Project Proponent shall also organize employment-based apprenticeship/ internship training program every year with appropriate stipend for the youth and other programs to enhance the skill of the local people. The data should be maintained for the training imparted to the persons and the outcome of the training, for the assessment of the training program should be analyzed periodically and improved accordingly. The preference shall be given to the local people for the purpose of employment.
- xxv. The Project Proponent should periodically monitor and maintain the health records of the mine workers digitally prior to mining operations, at the time of operation of mine and post mining operations. Regular surveillance on Silicosis shall be carried through regular occupational health check-up every year for mine workers. PP shall also organize medical camp for the benefit of the local people and also the monitor the health impacts due to mining activity.
- xxvi. The mining lease holders shall, after ceasing mining operations, undertake regrassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. The implementation report of the above said condition shall be submitted to the Ministry's Integrated Regional Office.

2.2 Ramsthan Ghunchihai Jamodi Limestone Auction Block of M/s. UltraTech Cement Limited with proposed Limestone Production Capacity: 5.10 Million TPA, Top Soil: 0.13 Million TPA, Overburden: 13.88 Million TPA & Mineral Reject: 1.88 (Total Excavation: 20.99 Million TPA) along with Installation of 1600TPH (Crusher: 1200 TPH & Wobbler: 400 TPH capacity) within the mine lease area of 1917.153 ha, located at Villages: Ramsthan, Jamodi, Khajahara, Khamariya Tiwariyan, Majhiyar, Futoundha, Rangoli Kothar in Tehsil Raghurajnagar and Villages Ghunghuchihai, Chulhi, Pater, Malgao in Tehsil: Rampur Baghelan and

Raghurajnagar, District: Satna, Madhya Pradesh - [File. No: IA-J-11015/17/2023-IA-II(NCM), Proposal No: IA/MP/MIN/431776/2023; Consultant: M/s JM EnviroNet Pvt. Ltd] - Terms of Reference

The instant proposal is for mining of Limestone in Ramsthan Ghunchihai Jamodi Limestone Auction Block of M/s. UltraTech Cement Limited with proposed Limestone Production Capacity: 5.10 Million TPA, Top Soil: 0.13 Million TPA, Overburden: 13.88 Million TPA & Mineral Reject: 1.88 (Total Excavation: 20.99 Million TPA) along with Installation of 1600TPH (Crusher: 1200 TPH & Wobbler: 400 TPH capacity) within the mine lease area of 1917.153 ha, located at Villages: Ramsthan, Jamodi, Khajahara, Khamariya Tiwariyan, Majhiyar, Futoundha, Rangoli Kothar in Tehsil Raghurajnagar and Villages Ghunghuchihai, Chulhi, Pater, Malgao in Tehsil: Rampur Baghelan and Raghurajnagar, District: Satna, Madhya Pradesh.

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

- i. The mine lease area is located between Latitude: 24°35'01.53" N to 24°39' 29.26" N and Longitude: 80°57'11.844" E to 81°00'13.17" E. The mine lease area falls under the Survey of India Toposheet No: G44U14 & G44V2 and falls in Seismic Zone-II.
- ii. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals and falls under Category "A" of the schedule of the EIA Notification, 2006 as the mine lease area is greater than 250 ha and appraised at the Central level.
- iii. Details of Mine Lease:

| S. No | Letter of Intent (Lol) | Date of the grant | Name of the Mineral & (Major/ Minor) | Period of Grant | Granted by | Mine lease area in Ha |
|-------|--|-------------------|--------------------------------------|-------------------------------|--|-----------------------|
| 1 | Letter of Intent (Lol) for grant of mining lease vide Letter No. 2034/2445/2021/12-1 | 11.04.2022 | Limestone (Major) | 3 Years i.e., upto 10.04.2025 | Mineral Resource Department, Govt. of Madhya Pradesh | 1917.153 ha |

iv. Land Use/Land Cover of the Mine lease area:

| | |
|-----------------|-------------|
| Private land | 1492.814 ha |
| Government land | 199.761 ha |

| | |
|---|---|
| Forest land | 224.578 ha. |
| Total Mining lease area (MLA), ha | 1917.153 ha |
| Private land for crusher, workshop & other infrastructure outside the MLA | Nil |
| Additional information (if any) | About 1.50 Ha area will be required for putting up the crusher and another 2 Ha for mines office inside the mining lease. |

v. Details of Mining Plan: -

| | | | |
|--|---|--------------------------------------|--------|
| Mining Plan including Progressive Mine Closure Plan approved by Indian Bureau of Mines | Letter No. | MP/Satna/Limestone/MPLN/G-01/2022-23 | |
| | Date | 13.01.2023 | |
| | Mineral & (Major/Minor) | Limestone (Major mineral) | |
| | Mine Lease Area, Ha | 1917.153 Ha | |
| Mining Parameters | Quantitative Description | | |
| Method of Mining | Fully Mechanized Opencast Mining | | |
| Drilling/Blasting | S. No. | Drilling & Blasting Parameter | |
| | 1 | Dia. of Hole | 110 mm |
| | 2 | Burden | 3 m |
| | 3 | Spacing | 4 m |
| | 4 | Depth of the Hole | 11 m |
| | 5 | Yield /Mtr | 31.68 |
| | 6 | Initiation system | NONEL |
| Geological Reserves | 603.29 Million Tonnes | | |
| Mineable Reserves | 83.08 Million Tonnes | | |
| Breakup of Total Excavation (Topsoil/OB/SB/IB/Mineral Rejects/Waste, MTPA) | <ul style="list-style-type: none"> ➤ Limestone: 5.10 Million TPA ➤ Top Soil: 0.13 Million TPA ➤ Overburden: 13.88 Million TPA ➤ Mineral Reject: 1.88 Million TPA Total Excavation: 20.99 Million TPA | | |
| Life of mine | 20 years | | |
| Mine Bench Height & Bench Width | Bench Height: 10 m Bench Width: 15 to 20 m | | |
| No. of Mine Benches | 1 (Min) to 6 (Max) | | |
| Existing Depth, m bgl | This is proposed mine | | |
| Ultimate Depth of Mining, m bgl | 55 | | |
| Ground Water Table, m bgl | The data collected from secondary sources indicate that the water table in the area is about 20 m to 25 m below ground level. The mining benches shall be above the water table in the area during plan period. Hydrological study will be undertaken in the area and will be submitted | | |

| | |
|--|--|
| | during at the time of submission of EIA Report. |
| Details of ground water intersection | This proposal is for ToR. Details will be incorporated in EIA/EMP Report |
| Individual bench slope | 80° |
| Overall pit slope | 45° |
| Details of existing/ proposed Crusher | Installation of 1600TPH (Crusher: 1200 TPH & Wobbler: 400 TPH capacity) |
| Mineral Beneficiation | Dry beneficiation in the form of screening of RoM will be involved |
| RoM output size | -50 mm |
| Transportation details including capacity of dumper/tipper, mode of transport and distance | <p>UTCL is proposing a Cement Plant with Clinker capacity: 4.0 Million TPA, Cement: 2.70 Million TPA located at Tehsil: Rampur Baghelan & Raghurajnagar, District: Satna, Madhya Pradesh. The limestone produced from this mine will be used in above said proposed Cement Plant.</p> <p>UTCL has an existing operating Cement Plant with Clinker capacity: 2.38 Million TPA, Cement: 2.5 Million TPA located at ~30 km in SE direction at Tehsil: Rampur Baghelan District: Satna, MP. The limestone produced from Ramsthan Mine will be used in existing Cement Plant with 0.4 Million TPA capacity for initial 4 years till the operation of Proposed Cement Plant.</p> <p>Initially, Limestone will be transported via road to existing cement plant of UltraTech located at Rampur Baghelan.</p> <p>After a while, mineral will be transported via covered conveyor belt in proposed cement plant located at Rampur Baghelan and Raghurajnagar.</p> |
| Generation of Topsoil/OB & its Management during plan period & conceptual period | <p>Top soil: During Plan Period 0.035 million tonnes of soil will be generated which will be reused for greenbelt/plantation purpose. At conceptual stage 1.30 Million tonnes of top soil will be generated and will be used for plantation.</p> <p>OB: During the plan period 2.02 million tonne of OB waste will be generated which OB will be stacked separately for further use in future. At conceptual stage 188.65 Million tonnes of waste will be generated & same will be used for backfilling.</p> |
| Generation of Mineral Rejects/ Waste & its Management during plan period & conceptual period | <p>Mineral Reject: During the plan period 0.735 million tonnes screen reject will be generated which will be used</p> |

| | |
|--|--|
| | for spreading overhaul road. At conceptual stage 26.96 million tonnes of screen reject will be generated and same will be used for spreading over haul road and ramps. |
|--|--|

vi. Water requirement:

| | | | |
|---|--|----------------------|-----------|
| Total water requirement | 250 KLD | Drinking/Domestic | 5.0 KLD |
| | | Dust suppression | 200.0 KLD |
| | | Greenbelt/Plantation | 25.0 KLD |
| | | Workshop | 20.0 KLD |
| Source | Surface water initially followed by water stored in mine pit/ Ground water | | |
| Permission for withdrawal/ intersection along with details of grant and its validity | This proposal is for ToR. Details will be incorporated in EIA/EMP Report. | | |
| Additional information (if any) | Permission will be sought from State Govt. for drawl of water from Satna River initially. Once mining pits with adequate water capacity gets developed, dependence on other sources would gradually be reduced and done away with. | | |

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

| Particulars | Particular's Name | Distance & Directions |
|---------------------------------|---|--|
| Village | Ramsthan Ghunchihai Jamodi | All three villages are inside the mining lease area |
| School | Govt. Primary School, Kadahli Tola | Falls within the mine lease area |
| Town | Satna Rewa | ~8.0 km, SW ~21.0 km, ESE |
| Highway | NH-39 | 3.0 km, SSW |
| Interstate Boundary | - | - |
| Railway Station/Railway line | Hinauta Ramban RS Gumchihai | ~1.5 km, South ~5.20 km, ESE |
| Water Bodies | Tons or Tamasa Nadi: Simrawai Nadi Nar Nadi Nalla: Dila Nala Badkhar Nala | River flowing along the ML boundary in South direction ~1.5 km, North ~4.0 km, ESE ~1.5 km, North ~4.0 km, SW ~4.0 km, SSE |

| | | |
|--------|---|--|
| | Magardaha Nala Gahira Nala Bakna Nala Talab Rani Talab | ~7.5 km, SW ~8.0 km, SE ~4.75 km, SW |
| Forest | The Lease area falls under Reserved forest area. Jamori RF 20 small Reserve Forest patches Protected Forest Naru Protected Forest | Exist in lease area 0.35 to 7.75 Km ~8.0 km, SSW |

viii. Presence of Environmentally Sensitive areas in the study area:

| Forest Land/ Protected Area/ Environmental Sensitivity Zone | Yes/No | Details of Certificate/letter issued by the concerned Department mentioning the Lr no, date of grant and remarks |
|--|--------|---|
| Forest Land within the mine lease area and (if yes) status of Forest Clearance | Yes | Online Application for obtaining Forest Clearance over an area of 224.578 ha has been submitted on Parivesh 2.0 Web Portal vide onlineproposal No. FP/MP/MIN/QRY/425759/2023dated 12.04.2023. |
| National Park | No | No National Park, Wild Life Sanctuaries, Elephant/Tiger Reserve, Eco Sensitive Zone (ESZ)/ Eco-Sensitive Area (ESA) etc. within 10 km radius study area. |
| Wildlife Sanctuary | No | |
| Elephant/Tiger Reserve | No | |
| Eco-Sensitive Zone(ESZ) /Eco-Sensitive Area (ESA) | No | |
| Coastal Regulation Zone (CRZ) | No | |

ix. Green belt/plantation details:

| | |
|--|---|
| Proposed area for green belt/plantation and no. of saplings proposed | Total Greenbelt Plantation: 627.80 ha ML boundary: 19.2 ha, Virgin area: 200.8 ha, Over backfilled Area: 406.60 ha, OB Dump: 1.19 ha No. of saplings proposed: 15,69,525 |
| Budget for green plant & plantation till the end of life of mine. | Rs 31.39 crore |
| Budget for nursery | |
| Details of existing plantation and its survival rate | Survival rate will be maintained 90% |
| No. of tree cuts in the mine lease area and compensatory afforestation | 5000 trees will be cleared |
| Particulars for Green belt/plantation | Area covered (in Ha) |
| 7.5 m barrier & non-mineralized zone | 19.2 |
| 50 m safety zone of nallah, roads, electric lines | 24.91 |

| | |
|---|-------|
| 500 m safety zones of nearest habitation villages | 24.63 |
|---|-------|

x. Rehabilitation & Resettlement (R&R):

| | |
|---------------|--|
| R & R details | Total Mining Lease area is 1917.153 ha, which is Govt. Land & Pvt. Land. R&R will be followed as per Central and State Government Rules & Notifications. Total Project affected Families is 1026 which has been added in Parivesh Portal 2.0 forms. Detailed R&R study is under process. |
|---------------|--|

xi. Court case details:

| | |
|---|--|
| Court Case, No and its present status | No court case pending against the project. |
| Undertaking by Project Proponent w.r.t court case | The Project Proponent has submitted an undertaking stating that there is no litigation pending against the project and/or any direction/order passed by any Court of Law against the project and/or land in which the project is proposed and that for any such litigation whatsoever, the sole responsibility will be borne by the Project Proponent. |

xii. Affidavit/Undertaking:

| | |
|---|---|
| Affidavit as per Ministry's OM dated 30.05.2018 | The Project Proponent has submitted an affidavit in a non-judicial stamp paper of Rs 100 bearing no: BU 242902 dated 03.07.2023 stating that the company hereby undertakes by affidavit to 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 before grant of ToR/EC. |
|---|---|

xiii. Details of project cost and employment:

| Particulars | (Rs. In Crore) |
|-------------------|----------------|
| Project Cost | 282 Crore |
| Employment (No.s) | 71 |

3. Observation and Recommendation of the EAC: -

The Project Proponent has informed the EAC that the instant mine lease was obtained under Auction. Then, the Project Proponent presented the KML file to indicate the site features in the study area. The Project Proponent has informed the EAC that three villages such as Ramsthan, Ghunchihai and Jamodi are inside the mine lease area. The Project Proponent informed the EAC that the total mine lease area is 1917.153 Ha, out of which 1397.148 ha is available for mining and the restricted area is 520.005 ha due to water bodies and habitation. Total excavated area will be 595.01 ha

and mining will be carried out in 33 pits in sequential manner. The mine lease area also involves 224.578 ha of forest land and online proposal for obtaining Forest Clearance has been submitted vide online proposal No. FP/MP/MIN/QRY/425759/2023 dated 12.04.2023. No roads will be disturbed and a safety distance of 50m has been left on both the sides. The EAC asked the Project Proponent from which side mining will commence? The Project Proponent informed the EAC that the mining will commence from South to North.

The EAC asked the Project Proponent about the details of over burden to be generated initially. The Project Proponent informed the EAC that during the plan period 2.02 million tonne of OB waste will be generated and which will be stacked separately for further use in future. The EAC also noted that a gas agency is located within the mine lease area. The Project Proponent informed the EAC that a gas agency is located in Ramsthan Village. Mining will reach in this area after 15 years of start of mining operations. Blasting zone is 500m away from the gas agency. The EAC asked the Project Proponent to obtain NOC from the gas agency and to conduct a ground vibration study wherein the Peak Particle Velocity should not be more than 2.0 mm/s. The EAC also asked the Project Proponent to submit the exploration program at the time of submission of EC proposal. The EAC observed that the few working pits are visible within the mine lease area. The Project Proponent informed the EAC that there are two operating Limestone mines exist within the mine lease area. There are six schools in the vicinity of the mine lease area. A safety distance of 300m from the School will be maintained as no mining zone. The EAC asked the Project Proponent to obtain the NOC from the Gram Panchayat for location of school within the mine lease area. Further, the Project Proponent informed the EAC a playground is also located inside the mine lease area.

The EAC asked the Project Proponent to explore the possibility of laying Integrated Over Land Belt Conveyor (OLBC) along with its economics. The Project Proponent informed the EAC that no mineral beneficiation is involved in this proposal. Backfilling will start from the 6th year. An area of 1068.93 ha will remain undisturbed area. Water will be sourced from Ground/Surface Water (Satna River)/Mine Pit Water and necessary permission will be obtained. At conceptual stage, greenbelt/ plantation will be carried out on 627.80 ha. The limestone produced from Ramsthan Mine will be transported to existing Cement Plant through road located at a distance of ~30 km in SE direction for initial 4 years till the operation of Proposed Cement Plant. After detailed deliberations, the EAC under the provisions of EIA Notification, 2006 and subsequent amendments therein, **recommended** the proposal for grant of Terms of Reference (ToR) to Ramsthan Ghunchihai Jamodi Limestone Auction Block of M/s. UltraTech Cement Limited with proposed Limestone Production Capacity: 5.10 Million TPA, Top Soil: 0.13 Million TPA, Overburden: 13.88 Million TPA & Mineral Reject: 1.88 (Total

Excavation: 20.99 Million TPA) along with Installation of 1600TPH (Crusher: 1200 TPH & Wobbler: 400 TPH capacity) within the mine lease area of 1917.153 ha, located at Villages: Ramsthan, Jamodi, Khajahara, Khamariya Tiwariyan, Majhiyar, Futoundha, Rangoli Kothar in Tehsil Raghurajnar and Villages Ghunghuchihai, Chulhi, Pater, Malgao in Tehsil: Rampur Baghelan and Raghurajnar, District: Satna, Madhya Pradesh for undertaking detailed EIA/EMP study subject to the following specific conditions in addition to the standard ToR conditions applicable for non-coal mining projects:-

- i. The Project Proponent needs to explore the possibility of laying Integrated Over Land Belt Conveyor (OLBC) along with its economics at the time of submission of EC proposal.
- ii. The Project Proponent needs to submit the mining strategy over a period of life of mine with 5-year stage plan. PP should submit the block wise sequential and progressive mine closure plan. PP needs to submit the detailed plan for accessing each block with the mineable reserves, production proposed and classification of land. PP need to submit the production schedule for each block in a single table for entire life of mine at the time of submission of EC proposal.
- iii. The Project Proponent needs to carry out the detailed study on stabilization of OB dump and shall submit the plan for handling and management of the OB dump.
- iv. The Project Proponent needs to submit the detailed report on the engineering design for garland drain, settling tank and check dams and its efficacy to mitigate the potential impact of water body. The report should also include the per day silt load, settling velocity of the silt, retention time required based on the annual rainfall with a provision to monitor the turbidity of the overflow from the siltation tank as well as monitoring of the turbidity into the drains.
- v. The Project Proponent needs to explore the likelihood of river water entering into the mine pit below the RL of the HFL and the measures that are required to be taken for prevention of seepage and in the event of seepage to drain out the water through settling tank.
- vi. The Project Proponent needs to submit the exploration program at the time of submission of EC proposal.
- vii. The Project Proponent needs to submit the details of the nearest school present within the mine lease area and in the vicinity of the mine lease area by

mentioning the distance and direction of the school from the mine lease area, strength of the school, working time of school, blasting time, anticipated Peak Particle Velocity (PPV) at School and the measures to be taken for control of ground vibration and fly rock during submission of EC proposal.

- viii. The Project Proponent needs to submit the detailed site specific protection measures for the surface features such as habitations, schools, water bodies, gas agency, playground etc., in and around the vicinity of the mine lease area due to mining activity during submission of EC proposal.
- ix. The Project Proponent needs to submit the water management plan for conversion of area of 188.39 Ha into water reservoir and its effective utilization during submission of EC proposal.
- x. The Project Proponent needs to obtain the NOC from the Gram Panchayat for location of school within the mine lease area at the time of submission of EC proposal.
- xi. The Project Proponent needs to obtain the NOC from the gas agency. The Project Proponent shall undertake the ground vibration study wherein the Peak Particle Velocity should not be more than 2.0 mm/s. The data recorded for the same and photographs of the monitoring before and after blasting shall be submitted in the EIA report.
- xii. The Project Proponent needs to monitor the ambient air quality and noise level at the mine lease boundary, nearest village, crusher, predominant downwind direction and at other sensitive receptors. Accordingly, Project Proponent shall propose to install Continuous Ambient Air Quality Monitoring Station within certain timeline at the time of submission of EC proposal.
- xiii. The Project Proponent shall monitor the water quality in the impact zone such as water reservoir, river water with specific reference to the parameter Langelier Saturation Index which will denote the impact of calcium carbonates on water bodies and these parameters and determine the tendency of water to form calcium carbonate scaling.
- xiv. 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.

- xv. The Project Proponent needs to submit the map showing the transport route of the mineral from the mine lease area to the destination, impact of details of habitation at a distance of 100m from the centre on both sides of road, details of no. of trips/day to and fro, capacity of the dumper/tipper to be deployed and the dimensions of the road and the carrying capacity of the road at the time of submission of EC proposal.
- xvi. The Project Proponent needs to carry out the Public Hearing as per provisions of EIA Notification, 2006. PP should also submit the time bound action plan on concerns of the public through a separate budget with capital expenditure with a timeline of 3 years. The Project proponent shall ensure that the activities proposed under the public hearing shall be different from the CSR activities.
- xvii. The Project Proponent needs to submit the details of the other mine leases within the mine lease area and a copy of the EC for other mine leases to be submitted. PP also needs to submit the transportation route being carried out by other lessee's within the mine lease area at the time of submission of EC proposal.
- xviii. The Project Proponent needs to submit the compensatory afforestation plan for the no. of trees to be cut in the mine lease area. The afforestation plan shall be prepared in such a way that the ecology of the area shall be restored.
- xix. The Project Proponent needs to submit the greenbelt/afforestation development plan for undertaking plantation in the periphery of the mine lease boundary, safety zone etc., The details of the no. of saplings proposed, type of species, spacing and the area to be covered including the cost and timeline for completion of plantation needs to be provided in the EIA report.
- xx. The Project Proponent needs to submit employment based skill development plan for the local people and thrust should be to provide employment to local people after imparting training.
- xxi. The Project Proponent shall carry out the assessment of impact due to the proposed project as per the guidelines issued by the Central Ground Water Authority from time to time and submit the same as a part of the EIA/EMP. The project proponent shall conduct hydrological study for projects involving intersection of ground water table as per the guidelines issued by the Central Ground Water Authority from time to time and submit the same as a part of the EIA/EMP.

- xxii. The Project Proponent shall explore the possibility of reduction of specific water requirement by optimization / technology up gradation, etc. The efforts shall be delineated in the EIA/EMP.
- xxiii. The Project Proponent shall prepare the scheme for mandatory recycle/reuse of water as specified by the Central Ground Water Authority for different category areas seeking NoC for ground water withdrawal and the shall submit as part of EIA/EMP report.
- xxiv. The Project Proponent shall conduct drone survey of the mine lease area and buffer area and submit during the appraisal for EC.

2.3 Proposed Iron ore mining by M/s. Deccan Minerals Private Ltd. with production capacity of 5,00,000 TPA along with Jaw Crusher with a capacity of 200 TPH & Mobile Screening with a capacity of 200 TPH at Survey No. - 11/1, 11/2, 11/3, 12/1, 12/2, 12/3, 12/5, 63/1, 63/2, 67/1, 67/3, 67/4, 67/5, 67/6, 69/1, 69/2, 69/3, 69/4, 69/5 in the mine lease area of 52.12 ha, located at Village- Sateli, Taluk - Sawantwadi, District - Sindhudurg, Maharashtra - [File.No: IA-J-11015/18/2023-IA-II(NCM), Proposal No: IA/MH/MIN/430024/2023, Consultant: M/s ULTRA-TECH] - Terms of Reference

The instant proposal is for Terms of Reference (ToR) of M/s. Deccan Minerals Private Ltd. for mining of Iron ore with production capacity of 5,00,000 TPA along with Jaw Crusher with a capacity of 200 TPH & Mobile Screening with a capacity of 200 TPH at Survey No. - 11/1, 11/2, 11/3, 12/1, 12/2, 12/3, 12/5, 63/1, 63/2, 67/1, 67/3, 67/4, 67/5, 67/6, 69/1, 69/2, 69/3, 69/4, 69/5 in the mine lease area of 52.12 ha, located at Village- Sateli, Taluk - Sawantwadi, District - Sindhudurg, Maharashtra.

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

- i. The mine lease area is located between Latitude: 15°45'48.94"N - 15°45'55.05"N and Longitude: 73°46'00.01"E - 73°46'02.95"E. The mine lease area falls under the Survey of India Toposheet No: 48 E/09, 48 E/10, 48 E/13, 48 E/14.
- ii. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals. The instant proposal attracts the general conditions as the mine lease area is located at a distance of 1.44 km from the Maharashtra – Goa Interstate boundary and falls under Category "A" and appraised at the Central level.
- iii. Details of Mine Lease:
 - a) The entire mine lease area of 52.12 ha is a Private land.

- b) The Project Proponent has submitted that initially mining lease was granted for a period of 20 years from 29th June 1981 to 28th June 2001 over an area of 52.12 Ha.
 - c) The first renewal of mining lease was granted to M/s Deccan Minerals Pvt Ltd., for a period of twenty years from 29th June 2001 for mining of Iron and Manganese ore. The lease deed was executed on 28th July 2006 for a period of 20 years from 29th June 2001 up to 28th June 2021.
 - d) Then, the Govt. of Maharashtra vide order no: MLR-770/2015/3167 dated 04.11.2015 has informed that the Govt. of Maharashtra vide its letter dated 17.07.2015 has given concurrence for extension of mining lease for the period from 29.06.2021 to 28.06.20231.
 - e) Accordingly, the Project Proponent executed the mine lease deed on 08.06.2021 for the period of 10 years i.e., from 29.06.2021 to 28.06.20231 as per (MMDR) Amendment Act 2015.
- iv. Details of Mining Plan:
- a) The Project Proponent has submitted that the Modified Mining Plan with Progressive Mine Closure Plan was approved by Indian Bureau of Mines (IBM) vide No.MMP/MECH-01(MAH)/GOA/2022-23 vide letter dated 18.07.2022 in respect of Sateli Iron & Manganese Ore mine over an area of 52.12 ha for the period 2022-23 to 2024-25.
 - b) The method of mining will be opencast and fully mechanized method. Life of mine is 7 years and 9 months.
 - c) Transport of overburden and ore will be done through tippers. ROM will be crushed and screened through Mobile Crusher & Mobile Screening plant.
 - d) Top soil (wherever available) will be utilized for reclamation and plantation. Waste generated upto the end of life of mine will be used for backfilling of excavated area and the same will be reclaimed by regular plantation.
- v. The Project Proponent has submitted that there is no forest land involved in the mine lease area. The Proponent also submitted that there is no National Park, Wildlife Sanctuary, Biosphere Reserves/Tiger Reserves within 10km radius of the study area.
- vi. The Project Proponent has submitted that the total water requirement will be 100.0 KLD. Water for drinking / domestic use: 2.0 KLD, non-domestic use (plantation: 90 KLD, water sprinkling: 8.0 KLD) will be sourced from tanker water.
- vii. The Project Proponent has submitted that the total mine lease area is 52.12 ha., out of which 17.19 ha (33% of the area) will be developed as a green belt. The current count of tree species present on the site is 5,402 nos. As per the land allotment (33%) for green belt development it is being proposed to plant 32,453 nos. trees. Local plant species like *Acacia auriculiformis*, *Anacardium occidentale*, *Caryota urens* etc. will be planted in consultation with Forest Department.

- viii. The Project Proponent has submitted that the Maharashtra Pollution Control Board has issued the Consent to Operate vide order dated 09.06.2021 for a production capacity of 0.5 MTPA and it was valid till 31.07.2021.
- ix. The Project Proponent has submitted that there is no litigation pending against the project and/or land in which the project is proposed to be set up.
- x. The total cost of the project is Rs 6.12 Cr. About 66 persons will get employment.

3. Observation and Recommendation of the EAC:

The Project Proponent/Consultant informed the EAC that the instant proposal is for fresh grant of Terms of Reference (ToR) for production capacity of Iron Ore: 5,00,000 TPA in the mine lease area of 52.12 ha. The Project Proponent presented the KML file to indicate the site features in the study area. The EAC asked the Project Proponent whether the instant mine lease area located in Village Sateli falls under the Western Ghats ESA as per Ministry's Notification dated 06.07.2022 or not. The Project Proponent informed the EAC that the instant mine lease area falls under the Western Ghats ESA. The EAC opined that the Ministry may seek comments from the ESZ Division in the Ministry in this regard.

The EAC asked the Project Proponent whether the mine was in operation earlier, when the mine lease was initially granted, current status of mine lease and whether any prior EC has been obtained or not? The Project Proponent informed the EAC that initially mine lease was granted in the year 1981 and no prior EC has been obtained. The Project Proponent also informed the EAC that mining operation has not yet started and no production was done till date. The EAC asked the Project Proponent to show the certificate obtained from the Dept. of Mines and Geology in this regard. The Project Proponent informed the EAC that no certificate has been obtained. The EAC asked the Project Proponent to submit the certificate from the Dept. of Mines and Geology in this regard to ascertain the violation. The EAC also observed that in Mining Plan, Pg. No:2, the Project Proponent has submitted that the Maharashtra Pollution Control Board has issued the Consent to Operate vide order dated 09.06.2021 for a production capacity of 0.5 MTPA and it was valid till 31.07.2021. The EAC noted that the information given by the Project Proponent w.r.t production is contradictory.

The EAC opined that the Project Proponent needs to submit the relevant documents along with Annexure-III duly filled by the Project Proponent for further examination of proposal under Hon'ble Supreme Court order dated 02.08.2017 and violation of EIA Notification, 2006. The EAC was of the view that the instant proposal cannot be considered further without the mandate information regarding certified past production, consent to operate and Western Ghats ESA. The EAC also observed that both the Project Proponent and the Consultant are not prepared for the technical

presentation and could not able to bring out the actual facts before the EAC. Thus the EAC **deferred** the proposal and opined that the proposal may be considered only after submission of the following additional information: -

- i. The Ministry may seek comments from the ESZ Division regarding whether the instant mine lease located in Village Sateli falls under the Western Ghats ESA as per Ministry's Notification dated 06.07.2022 or not.
- ii. The Project Proponent needs to submit the current status of the mine lease from the State Govt. as per the MMDR Amendment Act.
- iii. The Project Proponent needs to submit the certificate from the Dept. of Mines and Geology w.r.t past production details from the inception of the mine to ascertain the violation.
- iv. The Project Proponent needs to submit the relevant documents w.r.t Consent to Operate along with Annexure-III duly filled by the Project Proponent for further examination of proposal under Hon'ble Supreme Court order dated 02.08.2017 and violation of EIA Notification, 2006.

2.4 Amendment in EC dated 10.12.2009 for Budhwada Limestone Mine (ML area 160 Ha and production capacity 1.10 MTPA) located at Village Budawada, Jaggayyapeta Taluk, Krishna District, Andhra Pradesh of M/s The Ramco Cements Limited - [File.No: J-11015/150/2008-IA-II(M); Proposal No:IA/AP/MIN/296628/2023, Consultant: Nil] - Amendment in EC

The instant proposal is for Amendment in EC dated 10.12.2009 of M/s The Ramco Cements Limited w.r.t establishing Railway siding facility with stacker & reclaimer facility within the Mining lease area and to permit transportation of limestone from mine to the cement plant by road as well as by railway line for Budhwada Limestone Mine (ML area 160 Ha and production capacity 1.10 MTPA) located at Village Budawada, Jaggayyapeta Taluk, Krishna District, Andhra Pradesh.

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

- i. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals. The instant proposal attracts the general conditions as the mine lease area is located at a distance of 1.8 km from the Andhra Pradesh – Telangana Interstate boundary and falls under Category "A" and appraised at the Central level.
- ii. The Project Proponent requested for amendment in EC dated 10.12.2009 for the following: -

| S. No | Reference of EC dated 10.12.2009 | Clause of EC dated 10.12.2009 | Amendment sought by Project Proponent |
|-------|---|---|---|
| 1 | B. General Conditions, Point No. I, Pg. No: 4 | No change in mining technology and scope of working shall be made without prior approval of Ministry of Environment & Forests | Establishing Railway siding facility with stacker &reclaimer facility within the Mining lease area and to permit transportation of limestone from RamcoBudawada RF limestone mine to the cement plant by road as well as by railway line. |

- iii. The proposal was earlier considered in the 15thEAC (Non-Coal Mining) meeting held during 30-31 May, 2023 wherein the EAC deferred the proposal for want of requisite information. Then, the Project Proponent submitted the information on 20.06.2023 in Parivesh portal and accordingly the proposal was considered in the 17th EAC (Non-Coal Mining) meeting held during 11-12 July, 2023.

Based on observation of EAC in its EAC meeting held during30-31 May, 2023and compliance of observation of EAC made by PP are detailed below:

| S. No | Observation of EAC in its meeting held during 30-31 May, 2023 | Reply by Project Proponent |
|-------|--|---|
| 1 | The Project Proponent needs to submit the details regarding the road transportation and its limitation along with the traffic management plan and an action plan for permanent dust suppression systems. | <p>The Project Proponent has emphasized that on commissioning of railway siding arrangements, limestone transportation will be only by railway wagons.The present road transport arrangement will be continued for only 6 months or till the commissioning of the alternate transport arrangements for which EC amendment is sought.Only in the case of any unforeseen emergencies where in the rail transport is not possible due to technical/administrative reasons, road transport after following all the traffic management plan will be carried out.</p> <p>Project Proponent also submitted the map showing the transportation route from Ramco Budawada Mine to Ramco Cement Plant. This road route passes through Kowthavari Agraharam hamlet, enroute to reach the</p> |

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| | | <p>cement plant. Other than few local vehicles and the trucks of TRCL from Budawada RF Mines, no major traffic movement is observed in this route. This road is double lane black topped. Present traffic density in this route is minimal and it easily absorbs the existing Budawada R.F. Limestone Mine Traffic.</p> <p>The following effective traffic management plan is devised and being implemented in the existing transport arrangement:</p> <ol style="list-style-type: none"> i. Avoiding overloading of ore ii. Covering transport vehicles with tarpaulin during transportation to avoid spillage and generation of dust. iii. Proper maintenance of mineral transport roads. iv. Avenue plantation on either side of the transport road. v. Installing the sign boards and markings at all intersections vi. Deployment of local trained self-employed traffic regulators from mines to plant in needy locations. <p>Further, the Project Proponent has submitted that a permanent dust suppression system in the haul roads of ML area will be installed. Besides, a dedicated mobile water sprinkler is also deployed for effective dust suppression in the transport route. Due to systematic enforcement of above said measures no adverse impact on the logistical system is observed so far.</p> |
| 2 | The Project Proponent needs to submit the Closure report for the non-compliances identified by IRO. | The Project Proponent has submitted the examination of action taken report issued by Integrated Regional Office (IRO), Vijayawada vide File No. IRO/VIJ/EPA/EC-A/101/05-86/2023 dated 19.06.2023 wherein the IRO has concluded that the PAs have complied or are in process of complying the conditions stipulated by the Ministry, accordingly, the Action Taken Report may be considered for further necessary action. |
| 3 | The Project Proponent needs to submit the certified production | The Project Proponent has submitted the details of the production and dispatch for the |

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|--|-----------------------------|---|---------|---------------------------|-------------------|
| | details for the FY 2022-23. | year 2022-23 issued by the District Mines & Geology Officer, Vijayawada vide Letter No: 436/M/2001, dated 24.05.2023. | | | |
| | | S. No | Year | Production/Dispatch in MT | EC Capacity, MTPA |
| | | 1 | 2022-23 | 4,66,400 | 1.10 |

- iv. Details of Previous Environmental Clearance (EC):
 - a) The Project Proponent initially obtained Environmental Clearance (EC) vide EC letter dated 10.12.2009 for Budhwada Limestone Mine (ML area 160 Ha and production capacity 1.10 MTPA) located at Village Budawada, Jaggayyapeta Taluk, Krishna District, Andhra Pradesh in favour of M/s Madras Cement Ltd.
 - b) Then, the PP obtained Transfer of Environmental Clearance on 28.04.2023 from M/s Madras Cement Ltd to M/s The Ramco Cements Limited.

- v. Details of Mine Lease:
 - a) The Project Proponent has submitted that the Govt. of Andhra Pradesh vide Go.Ms.No.291, dated 30.10.2008 granted the mining lease for Limestone over an area of 160.0 Ha in Sy. No: 376 of Budawada Reserve Forest, Jaggayyapetta Taluk, Krishna District for a period of 20 years in favour of M/s Madras Cement Ltd. The mine lease deed was executed on 17.03.2009 for a period of 20 years i.e., upto 16.03.2029.
 - b) Then, the Govt. of Andhra Pradesh vide Go.Ms.No.96 dated 13.10.2015 accorded permission for change of the name from M/s Madras Cements Limited to M/s The Ramco Cements Limited.
 - c) Subsequently, the Govt. of Andhra Pradesh vide Go.Ms.No. 59 dated 02.05.2017 extended the mining lease for a period of 50 years w.e.f 17.03.2009 to 16.03.2059 for mining of Limestone over an area of 160.0 Ha in favour of M/s The Ramco Cements Limited.
 - d) Thereafter, the Government of Andhra Pradesh issued the Corrigendum orders vide Go.Ms.No. 39, Dt. 03.06.2021 to the earlier grant orders, stating that wherever the words "Survey No. 376 of Budawada village, Jaggayyapet Mandal" occur shall be read as "Survey No. 236 (p) of Jaggayyapet village and Mandal, Krishna Dist., Andhra Pradesh".
 - e) The Project Proponent executed the supplementary mine lease deed on 08.09.2021 for extension for the period upto 16.03.2059.

- vi. The Project Proponent has submitted that to achieve the EC permitted limestone production quantity of 1.10 MTPA and also to get EC for the expanded 2.50 MTPA limestone production capacity, prima facie, issues pertaining to approach road is to be resolved. Since the delay is causing a major stumble block for the progress of this mine initiated prior year 2008, the company has explored

additional / alternative facility for transport of Limestone from the subject mine to its factory at Jayanthipuram. Though belt conveyor option is technically viable, due to non-availability of intervening land between the mines and the cement plant which comprises of RF, other mine leases, habitation, perennial river etc., it could not be considered practically feasible for implementation in the present circumstances.

- vii. The Project Proponent has submitted that at present, sized material from the crusher in the ML area is loaded into tipper / trucks and dispatched to cement plant by road. Now it is proposed to stack the sized material from crusher in the northern part of the lease area through stacker, then reclaim it to the 4 over ground hoppers for wagon loading and transport the material by wagons. Transportation of material by rail route entails establishment of the following facilities:
1. Stacker – 1 No. – 1200 TPH capacity non slewing hydraulic luffing stacker
 2. Reclaimer – 1 No. – 1320 TPH design capacity Bridge reclaimer
 3. Silo of 4400 Tonne storage capacity with sufficient number of chutes connected with a conveyor belt from the Limestone Crusher Plant for loading of empty rake of 59 BOXN wagons and other accessories.
 4. Establishment of Railway siding within the lease area.
 5. Transportation by rail to the Jayanthipuram cement plant at distance of 8 km, after getting the necessary communication from JPT railway station master.
 6. Unloading through Wagon Tippler at Jayanthipuram Cement plant having load capacity of 105 tonne and having unloading rated capacity of 600 TPH for unloading the limestone into the hopper from the rakes.
 7. The unloaded limestone from rakes into wagon tippler will be transported through a series of belt conveyors, which also passes through online Cross Belt Analyser (CBA), for the chemical parameter monitoring before stacking into the stockpile in the factory premises. From stock piles the limestone will be taken into process for manufacture of clinker.
- viii. The Project Proponent has submitted that the South Central Railway (SCR) vide Lr.No. C/T/143/TRCL-JPTN/20 dt.19.01.2021 has accorded in principle approval for the proposed private siding of the M/s The Ramco Cements Limited taking off from Jaggayyapet Town (JPTN) station. The SCR Railway Line from Jaggayyapet to Mellacheruvu is passing through this Mining Lease on north side of the boundary over a length of 495 m.
- ix. The Project Proponent has submitted that the Modified Mining Plan (including Progressive Mine Closure Plan) due to proposed crushing plant and Railway siding at the subject ML area was approved by Indian Bureau of Mines vide Lr.No: AP/KSN/MP/LST-30/HYD dated 07.07.2021 over an area of 160 Ha for the period 2021-22 to 2023- 2024.

- x. The Project Proponent has obtained the Permission (NOC) for Renewal vide Lr.No.PRR05-11028/16/2019-SLNA-GIS-CORD , date:13/02/2021 from the O/o the Commissioner, Panchayat Raj & Rural Development & Administrator, Apwalta for their existing Budawada Limestone mine located at Budawada Village, Jaggaiahpetta Mandal, Krishna District, Andhra Pradesh to carry out the mining operations below the ground water table and usage of 38 KLD of ground water from the captive mine of Jayanthipuram Lime Stone Mine. This NOC is valid for three years from the date of issue.

- xi. Details of Forest Clearance:
 - a) The Project Proponent has submitted that the entire mine lease area of 160 Ha is a Forest land.
 - b) Stage-I Forest Clearance has been granted by MoEF&CC (FC Division) vide letter No. 8-56/2005-FC dated 31.12.2008 in favour of M/s Madras Cements Ltd., for diversion of 160 ha of forest land for mining of Lime stone in Budavada Reserve Forest in Krishna District of Andhra Pradesh.
 - c) Stage-II Forest Clearance has been granted by MoEF&CC (FC Division) vide letter No. 8-56/2005-FC dated 22.12.2011 in favour of M/s Madras Cements Ltd., for diversion of 160 ha of forest land for mining of Lime stone in Budavada Reserve Forest in Krishna District of Andhra Pradesh.
 - d) Govt. of Andhra Pradesh vide G.O Ms.No.26 dated 31.03.2012 accorded permission for diversion of 160 Ha of forest land for mining of Limestone in favour of M/s Madras Cements Ltd.
 - e) The FC has been transferred from M/s Madras Cements Ltd., to M/s Ramco Cements Ltd., vide letter No. Rc.No:712/2000-TO dated 03.09.2016 granted by Forest Department, Govt. of Andhra Pradesh.

- xii. The Project Proponent has submitted that the production process / mining technology remains unchanged and the rail transport prima facie is environmentally a better option which would reduce the pollution significantly when compared to road transport option. With regards to dust pollution, measure such as green net during construction, covering transport material with tarpaulin, proper maintenance of equipment, good quality of fuel, peripheral green belt, Enclosing the peripheral area on the northern side of the lease area mainly the ore stacking, handling and loading point by plantation, construction of an earthen bund of at least 2m along the periphery of mineral stock yard, dust suppression in the approach roads, provision of mist spray arrangement in the material handling area, enclosing conveyors transfer chutes, Bag filter arrangement at limestone crusher and transfer points etc, wagon loading arrangement with covered hatch provided with bag filter will be ensured. With regards to water environment, to obviate any minor negative impact on this front if any it is proposed for laying of railway siding with proper drainage gradient on

either side, provision of longitudinal garland drain on either side of the railway siding and around the mineral stockyards depending upon the slope of the area. Rain water collected in these areas will be collected through this drain and connected to settling ponds with silt traps before discharging downstream. It is proposed to carry out block plantation in the entire safety zone area on the northern side of the lease area and also in the possible vacant land further north of the proposed RS alignment and the existing branch line passing through the lease area during the construction phase itself.

xiii. Details of CTE/CTO, Certified Compliance Report, Past production:

- a) Consent for Establishment (CFE) granted by Andhra Pradesh Pollution Control Board (APPCB) vide Order No. 285/PCB/CFE/ROVJA/HO/2009-69 dated 08.04.2010 for production of 1.10 MTPA Limestone over an area of 160 ha. PP also submitted that the Auto Renewal of Consent for Operation & Hazardous waste Authorisation Order vide Order No. APPCB/VJA/VJA/488/HO/CFO/2021 dated 07/11/2022 has been granted by the Andhra Pradesh Pollution Control Board (APPCB) for a further period of 5 (five) years i.e., up to 31.01.2028.
- b) Certified Compliance Report issued by the Integrated Regional Office (IRO), Vijayawada vide File No. IRO/VIJ/EPA/MISC/111-01/2021 dated 24.05.2022. The project was monitored by IRO on 11.11.2021.
- c) The Project Proponent has submitted the details of the certified production and dispatch from the Dept. of Geology and Mines Lr.No. 436/M/2001 dated 08.12.2022 for the year 2009-10 to 2021-22.

| S. No | Year | Production/Dispatch in MT | EC Capacity, MTPA |
|-------|---------|---------------------------|-------------------|
| 1 | 2009-10 | 0 | 1.10 |
| 2 | 2010-11 | 0 | 1.10 |
| 3 | 2011-12 | 0 | 1.10 |
| 4 | 2012-13 | 0 | 1.10 |
| 5 | 2013-14 | 0 | 1.10 |
| 6 | 2014-15 | 1,000 | 1.10 |
| 7 | 2015-16 | 4,333 | 1.10 |
| 8 | 2016-17 | 1,000 | 1.10 |
| 9 | 2017-18 | 240 | 1.10 |
| 10 | 2018-19 | 97,140 | 1.10 |
| 11 | 2019-20 | 85,200 | 1.10 |
| 12 | 2020-21 | 4,000 | 1.10 |
| 13 | 2021-22 | 3,23,863 | 1.10 |
| 14 | 2022-23 | 4,66,400 | 1.10 |

xiv. Court case details:

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| <p>Court Case, No and its present status</p> | <p>With regards to mineral transportation in a small stretch of land owned by Rashtriya Ispat Nigam Limited (RINL), writ petition was filed by RINL and its details are as follows:</p> <p><u>Writ. No. 5066 of 2019, dt.10.04.2019.</u></p> <ul style="list-style-type: none"> • RINL filed writ petition on 10.04.2019 against Govt. of Andhra Pradesh and TRCL. The High Court of Andhra Pradesh issued the order on 25.04.2019 for suspension of Memo No. 11031/M.III(2)/2013, Dt. 23.05.2018 and further memo No. 11031/M.III(2)/2013, Dt. 23.01.2019. • Hon'ble AP High Court was pleased to dismiss the writ petition filed by RINL on 14.06.2021 after hearing all the parties and also was pleased to vacate the interim stay granted in the matter. <p><u>RINL Writ Appeal No. 424 of 2021, dt.15.07.2021 against the judgment of writ. No. 5066 of 2019, dt.10.04.2019.</u></p> <ul style="list-style-type: none"> • The above appeal was heard on 22.07.2021 and Honbl'e Chief Justice Bench has issued the orders to stop operations on road and maintain the "Status Quo" in this matter till the next date of hearing. • Status Quo is maintained in RINL land. Presently an alternative transport route which is of a greater distance is being utilized. |
| <p>Undertaking by Project Proponent w.r.t court case</p> | <p>The Project Proponent has submitted an undertaking vide letter dated 20.05.2023 stating that they solemnly agree to abide by all the directions of the Hon'ble Court in this matter.</p> |

3. Observation and Recommendation of the EAC: -

The EAC deliberated on the additional details submitted by the Project Proponent. The Project Proponent has shown the proposed railway line siding on the northern direction in the KML file. The Project Proponent also shown the transportation route by road and informed that the road transport will be utilized till the commission of railway line. The EAC asked the Project Proponent about the timeline of commissioning of railway line and action plan to complete the same. The Project Proponent informed

the EAC that the railway line will be commissioned within 6 months. The EAC asked the Project Proponent to give commitment in this regard. Further, the Project Proponent informed the EAC that the effective traffic management plan will be implemented. The Project Proponent vide email dated 12.07.2023 has given undertaking that the project will be completed by 6 months period and transportation of Limestone will be carried out through railway wagons and also submitted the action plan for execution of railway siding as informed during the meeting.

The EAC asked about the dispute regarding the mineral transportation with Rashtriya Ispat Nigam Limited (RINL). The Project Proponent informed the EAC that presently an alternative transport route is being used bypassing the land of Rashtriya Ispat Nigam Limited (RINL). The EAC asked the Project Proponent whether the existing transportation route passes through any village road. This road route passes through Kowthavari Agraharam hamlet to reach the cement plant. Present traffic density in this route is minimal and it easily absorbs the existing Budawada R.F. Limestone Mine traffic. The Project Proponent informed the EAC that the examination of action taken report issued by Integrated Regional Office (IRO), Vijayawada vide File No. IRO/VIJ/EPA/EC-A/101/05-86/2023 dated 19.06.2023. Further, the Project Proponent has informed the EAC that 4,66,400 MT of Limestone was produced against the EC capacity of 1.10 MTPA during the year 2022-23 and the same was certified by the District Mines & Geology Officer, Vijayawada vide letter dated 24.05.2023. The EAC asked about the status of the court case w.r.t mineral transportation. The Project Proponent informed the EAC that the status quo is maintained in RINL land and presently an alternative transport route of a greater distance is being utilized and no stay by the Hon'ble Court. Further it is proposed to transport Limestone only through railway wagons within 6 months.

After detailed deliberations made by the Project Proponent, the EAC under the provisions of EIA Notification, 2006 and subsequent amendments therein, **recommended** the proposal for amendment in EC dated 10.12.2009 of M/s The Ramco Cements Limited w.r.t establishing Railway siding facility with stacker & reclaimer facility within the mine lease area and to permit transportation of limestone from mine to the cement plant by railway line for Budhwada Limestone Mine (ML area 160 Ha and production capacity 1.10 MTPA) located at Village Budawada, Jaggayyapeta Taluk, Krishna District, Andhra Pradesh along with the following additional conditions: -

- i. The Project Proponent needs to commission the railway line within the 6 months from the date of issue of this amendment EC.

- ii. The Project Proponent is allowed to transport Limestone through existing transport route by road only for a period of 6(six) months, thereafter road transportation will not be allowed.
- iii. The Project Proponent shall ensure that the transportation of Limestone has to be carried out only through railway wagons after commissioning of railway line.
- iv. The Project Proponent should follow-up the status of implementation on Wildlife Conservation Plan from the Forest Officials and the same shall be submitted to the Ministry's Integrated Regional Office in the six monthly compliance report.
- v. The project Proponent should plant quality sapling of appropriate height of native and fruit bearing species. In case of tall transplants (seedlings) the seedlings should have proper trained root stock with root biomass commensurate with seedling height to ensure good growth after out planting. The Project Proponent shall make the actual count on the saplings planted and its survival rate and in case of failure of achievement of 95% survival rate, action plan for achieving the target survival rate shall be submitted to the Ministry's Integrated Regional Office.
- vi. NoC from the Central Ground Water Authority (CGWA)/ Concerned Local authority, as the case may be, shall be obtained before drawing the ground water for the project activities.
- vii. This amendment in EC is subject to the outcome of the said court case of Writ Appeal No. 424 of 2021, dt.15.07.2021.
- viii. All other terms and conditions mentioned in the EC letter dated 10.12.2009 shall remain unchanged.

ADDITIONAL AGENDA:

2.5 Bauxite mining project of M/s Panditrao Mines and Minerals Private Limited with production capacity of 0.80 MTPA in the mine lease area of 90.0 ha, located at Village Minche Budruk, Taluka-Budhargarh, District-Kolhapur, Maharashtra – Environmental Clearance (EC) regarding

The instant proposal was earlier considered in the 14thEAC (Non-Coal Mining) meeting held during 3-4 May, 2023 on the basis of the request of the Project Proponent to provide an opportunity to explain the details. A meeting notice was issued to the Project Proponent on 24.04.2023 to participate in the EAC meeting and also requested to provide the chronological sequence of grant of EC for the Mining Operation and the applicable provisions of ESZ Notification (Distance of Mines from the Protected Areas

and the Actual Distance of the Mine from the Protected Areas) in the tabular form. Accordingly, the proposal was considered in the EAC (Non-Coal Mining) held during 3-4 May, 2023 for due deliberations.

2. The Project Proponent gave the technical presentation on 03.05.2023 with chronology of events. the chronological sequence of grant of EC for the Mining Operation and the applicable provisions of ESZ Notification (Distance of Mines from the Protected Areas and the Actual Distance of the Mine from the Protected Areas). Further, the Project Proponent has informed that there is no specific distance defined by the State of Maharashtra and the same was at under process which was missed inadvertently in Form-A by the consultant. The Project Proponent also informed the EAC that due to halt of mining operations, the proponent and the employee suffers a lot and requested the EAC to revoke the abeyance order.

3. After detailed deliberations, the EAC noted that the EC for the instant project was already kept in abeyance w.e.f 02.11.2018 as the Project Proponent operated the mine without obtaining Clearance from the Standing Committee of National Board of Wildlife. The EAC observed that the Project Proponent has accepted that in Form A, it was inadvertently missed to mention the distance of nearest National Park/Sanctuary from the mining site. The EAC observed that the Project Proponent has concealed the information in Form A as per EIA-1994. The EAC reiterated the provisions of Clause 8 (vi) of EIA Notification, 2006, that *"Deliberate concealment and/or submission of false or misleading information or data which is material to screening or scoping or appraisal or decision on the application shall make the application liable for rejection, and cancellation of prior environmental clearance granted on that basis. Rejection of an application or cancellation of a prior environmental clearance already granted, on such ground, shall be decided by the regulatory authority, after giving a personal hearing to the applicant, and following the principles of natural justice"*. Thus, the EAC opined that the Ministry may revoke the Environmental Clearance (EC) granted by the Ministry vide EC letter dated 13.03.2007 for concealment of information. The EAC also opined that the Project Proponent may submit the fresh proposal for Terms of Reference under Ministry's SOP dated 07.07.2021 and shall start the process de-novo after the revocation of EC by the Ministry.

4. Then, the Project Proponent vide letter dated 02.06.2023 has informed that the issues of the violation were never pointed out by the Ministry despite keeping the Environmental Clearances in abeyance. The PCCF (Wildlife) Nagpur returned the proposal of NBWL Clearance as not applicable. After finalization of ESZ Notification dated 15.10.2020, the violation could not be tantamount to be with regards to Wildlife Clearance as the alleged conditions is no longer applicable. The Project Proponent also

informed that the sanctuary boundary was not proper and so it was difficult to mention the distance in Form-A. There was no question/ objection raised by the EAC during appraisal of EC in the year 2007. The EAC opined for revocation of EC without jurisdiction in contrary to the SOP in Ministry's OM dated 25.11.2022. In view of the above, the Project Proponent requested to review the minutes of the EAC (Non-Coal Mining) held during 3-4 May, 2023 and also requested for revocation of the abeyance order. Accordingly, the proposal was placed in the 17th EAC (Non-Coal Mining) meeting held during 11-12 July, 2023 for due deliberations.

5. Observation and Recommendation of the EAC:

The Project Proponent requested the EAC to adjourn the instant proposal to the next EAC meeting and further the Project Proponent vide email dated 12.07.2023 informed the same. Based on the request of the Project Proponent, the EAC **deferred** the proposal.

List of members of Expert Appraisal Committee participated through VC

| S.No | Member Name | Member Address | Designation | 11 th July, 2023 | 12 th July, 2023 |
|------|---|--|-------------|-----------------------------|-----------------------------|
| 1 | Dr. Dinesh Misra, IFS (Retd.) | Plot No 65, Sector 8, Gandhinagar, Gujarat, 382 008 | Chairman | Yes | Yes |
| 2 | Sh. Niranjan Kumar Vasu, IFS (Retd.) | 816, Shanti Nagar, Opposite Durgapur Railway Station, Jaipur-Rajasthan, 302018 | Member | Yes | Yes |
| 3 | Dr. Asha Rajvanshi, Scientist 'G' (Retd.), WII | B/104/106 Rock Valley Apartments, GMSRoad, Sewla Kalan, P.O. Majra, Dehradun, Uttarakhand-248171 | Member | Yes | Yes |
| 4 | Shri. Avijit Ghosh (CMD- Heavy Engineering Corporation Limited) (Retd.) | Singhee Marg, A- 604 Shahadeo Tower, P.P.Compound, Ranchi 834001, Jharkhand | Member | Yes | Yes |
| 5 | Shri. BandiRamchandra Reddy (CMD-South Eastern Coalfields Limited)- (Retd.) | Flat No-503 A, Jyoti Cosmos, White Fields, Hi-Tech City, Kondapur, Hyderabad-500081 | Member | Yes | Yes |

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|----|---|--|------------------|-----|-----|
| 6 | Prof. Pramod Kumar, Professor, Shri Aurobindo College, University of Delhi | Shri Aurobindo College, University of Delhi 1372, B-1, Vasant Kunj, New Delhi-110070 | Member | Yes | Yes |
| 7 | Prof. Devesh Walia, Department of Environmental Studies | Department of Environmental Studies, NEHU, Shillong-793022 Meghalaya | Member | Yes | Yes |
| 8 | Dr. Suresh Tiwari Scientist-F | Indian Institute of Tropical Meteorology, Pune, New Delhi Branch, Prof. Ram Nath Viji Marg Rajinder Nagar, New Delhi - 110060 | Member | No | No |
| 9 | Dr. K.G. Asha Manjari, Professor, University of Mysore | 10/B, "SPARSHA", 2nd Main, 2 nd Cross, Bhogadi Ind Stage, Mysore-570026, Karnataka | Member | Yes | Yes |
| 10 | Prof. Dev Dutt Sharma, Vice-Chancellor | Sardar Patel University, Mandi H.P. 175001 | Member | No | No |
| 11 | Shri V. K. Soni, Representative of India Meteorological Department | Government of India, Ministry of Earth Sciences, India Meteorological Department, Mausam Bhawan, Lodi Road, New Delhi – 110003 | Member | No | No |
| 12 | Shri Abhay Agrawal & Shri Yogesh Kale, Representative of Indian Bureau of Mines | Controller of Mines, IBM Block D, Second Floor, Indira Bhawan, Civil Lines, Nagpur - 440001 | Member | Yes | Yes |
| 13 | Shri Mohammed Niazi | Representative of Directorate General of Mines Safety | Member | Yes | Yes |
| 14 | Shri Pankaj Verma | 3 rd Floor, Vaayu Block, Indira Paryawaran Bhawan, MoEF&CC, Jorbagh, New Delhi- 110003. | Member Secretary | Yes | Yes |
| 15 | Dr. Saurabh Upadhyay | 3 rd Floor, Vaayu Block, Indira Paryawaran Bhawan, MoEF&CC, Jorbagh, New Delhi- 110003. | Scientist C | Yes | Yes |
