

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

SUMMARY RECORD OF 36th MEETING OF THE COMMITTEE OF THE EXPERT APPRAISAL COMMITTEE FOR ENVIRONMENTAL APPRAISAL OF NON-COAL MINING PROJECTS CONSTITUTED UNDER THE EIA NOTIFICATION, 2006.

The 36th meeting of the Expert Appraisal Committee for Environmental Appraisal of Mining Projects (Non-Coal) of the Ministry of Environment, Forest and Climate Change was held during 31st August & 1st September, 2021 through video conference. The list of participants is annexed herewith. After login of the Committee Members through video conference link provided by NIC, discussion on each of the Agenda Items was taken up ad-seriatim.

(1.0.0) Deliberation & Circulation on the Minutes of the 35th EAC meeting held during 16th to 19th August 2021.

The minutes of 35th EAC meeting held during 16th to 19th August 2021 were placed before the members of the Committee.

(1.0.1) Deliberation & Circulation on the Minutes of the 31st EAC meeting held during 9th to 11th and 14th to 15th June 2021.

The minutes of 31st EAC meeting held during 9th to 11th and 14th to 15th June 2021 were placed before the members of the Committee. The Member Secretary informed the Committee that the following corrigendum was made in 31st EAC meeting held during 9th to 11th and 14th to 15th June 2021.

| Agenda No. | As per EAC meeting minutes dated 9th to 11th and 14th to 15th June 2021 | EAC recommended during 31st August to 1st September 2021 |
|-------------------|--|--|
| 5.4 | Clarification required w.r.t. development of Greenbelt | During 36 th EAC meeting on 31 st August to 1 st September 2021, the committee noted that as per latest Ministry's IRO report dated 31.05.2021, efforts have been made by the unit, since grant of EC dated 25.08.2020, for increasing plantation and improving plant survival rate and plantation at safety zone |

| | | |
|--|--|--|
| | | <p>has been increased. The Committee further reviewed the commitment made by the project proponent vide letter dated 16.06.2021. The Committee also noted that as per the documents/photographs submitted by the project proponent, they have further started the plantation in this monsoon, according to the advice of the EAC (9th to 11th and 14th to 15th June 2021) and since they have already undertaken the plantation, so, earlier non-compliance has been partially taken care of by the project proponent, which will be fully complied at the end of two years.</p> <p>After issue of validity extension of Environmental Clearance for three years, thereafter it will be reviewed through the field/site visit by sub-committee of EAC at the end of two years.</p> |
|--|--|--|

Day 1: 31.08.2021 (Tuesday)

1.1 Proposal for Environmental Clearance of M/s. NMDC Limited for Bailadila Iron Ore Mine Deposit-11 (i.e. 11A, 11B and 11C) for total excavation of 14 MTPA (11.30 MTPA ROM production {11A-2.8 MTPA+11B-7 MTPA+11C-1.5 MTPA} and 2.70 MTPA waste excavation in the mine lease area of 874.924ha at Village Kirandul, Tehsil Dantewada, South Bastar Dantewada, District Chhattisgarh - [File No: IA-J-11015/70/2018-IA-II(M), Proposal No: IA/CG/MIN/75153/2018, Consultant: Ecomen Laboratories Pvt Limited] - Environmental Clearance (EC).

EAC Meeting Details:

| | |
|-----------------|---|
| EAC meeting | 36 th EAC Meeting |
| Date of Meeting | 31 st August & 1 st September, 2021 |

The proposal of M/s. NMDC Limited for Bailadila Iron Ore Mine for Deposit-11 [i.e. 11A (233.509 Ha), 11B (535.003 Ha) and 11C (106.412 Ha)] for total excavation of 14 MTPA (Iron Ore 11.30 MTPA ROM production {11A-2.8 MTPA+11B-7 MTPA+11C-1.5 MTPA} and 2.70 MTPA waste excavation in the mine lease area of 874.924 ha at Village Kirandul, Tehsil Dantewada, South Bastar Dantewada, District, Chhattisgarh. The mine lease area is located between Latitude 18°37'34.6066" N to 18° 41'26.1792"

N and Longitude 81° 13"13.2276" E to 81°15"18.0396" E. The mine lease area falls under the Survey of India Toposheet No: E44J2/J6 and falls in Seismic Zone-II.

2. M/s. NMDC Limited has made an online application vide proposal no. IA/CG/MIN/75153/2018 dated 07.04.2021 along with the Form-2 and EIA report under the provisions of the EIA Notification, 2006 for the project mentioned above. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals under Category "A" of the schedule of the EIA Notification, 2006 as the mining lease area is greater than 100 ha and appraised at Central level. The Deposit-11 Mining Lease comprises of Deposit-11A, 11B and Part 11C. The EC obtained under EIA 2006 Notification for Deposit-11A and integrated EC for Deposit-14/11C and whereas, EC obtained for Dep-11B under EIA 1994. In order to regularize EC of Deposit-11B as per Ministry notification dated 6/4/2018, NMDC submitted application for obtaining EC for combined ML of Deposit-11 for 874.924 Ha and 11.30 MTPA ROM Iron ore and 2.70 MTPA waste excavation.

3. The proposal was earlier placed in the 34th EAC meeting held during 27th -30th July, 2021 wherein the Committee noted that the PP obtained EC for deposit 11A on 31.10.2011 under EIA notification 2006 followed by amendment EC dated 07.02.2013, EC for deposit 11B on 11.09.2006 under EIA Notification 1994 and EC for deposit 11C was obtained as part of integrated EC of Bailadila deposit 14/11C on 11.09.2007 under EIA Notification 2006. PP now submitted proposal for grant of EC for complete Deposit 11 which comprises Deposit 11A, 11B and 11C with a view to regularize the EC obtained for 11B under EIA Notification 1994, within the provision of Ministry's Notification dated 06.04.2018 for the total mining lease area 874.924 Ha [i.e. 11A (233.509 Ha), 11B (535.003 Ha) and 11C (106.412 Ha)] with single mining plan for 874.924 Ha and for total excavation of 14 MTPA (11.30 MTPA ROM production {11A-2.8 MTPA+11B-7 MTPA+11C-1.5 MTPA} and 2.70 MTPA waste excavation. PP also submitted the separate proposal in Form-IV for obtaining Amendment to existing Environmental clearance of Bailadila Deposit 14/11C project (935.522 Ha, 12.00 MTPA ROM Iron ore) by exclusion of Deposit 11C part (Area 106.412 Ha and 1.5 MTPA ROM Iron Ore) and modifying to "Bailadila Deposit-14 & 14NMZ (829.11 Ha, 10.5 MTPA ROM)" as per specific condition no: 1 & 2 of TOR letter dated 24/09/2019. Committee also noted that PP in the Sr. No.6 of Form-2 w.r.t. Crusher has mentioned "No" and at one place in the EIA report PP has mentioned that "*The crushing plant is located in Deposit-11 Mining Lease...*" and on the other place it has been mentioned that "The ROM iron ore from Deposit-11A mine is transported by dumpers of various capacity to Crushing plant situated in adjacent mining lease of Deposit-10 of NMDC" and during the meeting PP informed that crusher is located within the project area. After detailed deliberations made by the Project Proponent and the Consultant, the Committee deferred the proposal for want of additional information. The proposal for amendment

was placed in the 34th EAC (Non Coal Mining) meeting held during 27th to 30th July, 2021 wherein the Committee recommended the proposal for reduction in area from 935.522 Ha to 829.11 Ha with reduced production capacity from 12.0 MTPA to 10.5 MTPA ROM keeping all the terms and conditions mentioned in earlier EC dated 11.09.2007 remain unchanged.

Details submitted by Project proponent.

4. ToR Details:

| | |
|------------------------------------|---|
| ToR Proposal No. | IA/CG/MIN/75153/2018 |
| Online application date for Form-I | 12 th June 2018 |
| Documents Submitted | Form 1, Pre- Feasibility Report etc. |
| EAC meeting date | TOR - meetings 1. July 19, 2018 (Agenda 2.7) 2. April 23, 2019 (Agenda 2.8) 3. August 27, 2019 (Agenda 2.8) 4. September 24-25, 2019 |
| ToR Letter No. | F. No-J-11015/70/2018-IA. II(M) |
| ToR grant Date | <ul style="list-style-type: none"> • 24/9/2019 • 01/11/2019 (Amendment in ToR for exemption from Public Consultation) |
| Production capacity | 11.3 MTPA |
| Topsoil | --- |
| Waste | 2.7 MTPA |
| Others | ---- |
| Total Excavation | 14.0 MTPA |
| Crusher | 2000 TPH |
| EIA/EMP uploaded on | 09.07.2021 |
| Previous EC details | <ul style="list-style-type: none"> • EC for Bailadila Deposit-11A (2.8 MTPA Iron Ore) (Area: 233.509 Ha) – dated 31/10/2011 under EIA 2006 Notification. • EC for Bailadila Deposit-11B (7.0 MTPA Iron Ore) (Area: 535.003 Ha) dated 11/09/2006 under EIA Notification 1994. • Integrated EC for Dep 14/11C (12 MTPA) (Area: 935.522 Ha) dated 11/09/2007 under EIA Notification 2006. |
| Additional details | <ul style="list-style-type: none"> • ToR dated 24.09.2019 was granted with inter alia following specific conditions: <ul style="list-style-type: none"> a) PP shall continue with mining in ML-11C as per provision of EC dated 11/9/2007 and PP shall get the existing EC amended for exclusion of 11C deposit before operationalization of the EC granted for |

| | |
|--|--|
| | <p>ML 11 under this TOR.</p> <p>b) PP shall make necessary amendment in integrated EC dated 11/9/2007 for exclusion of deposit 11C before grant of EC for combined ML – 11 (i.e. 11A, 11B and 11C).</p> <p>c) PP shall Include total excavation proposed for combined 11ML (i.e 11A, 11B and 11C) i.e 14 MTPA {i.e 11.3 MTPA ROM Iron Ore Production (11A-2.8 MTPA+11B-7 MTPA+11C part-1.5 MTPA = 11.30 MTPA) and 2.70 MTPA waste excavation}.</p> <ul style="list-style-type: none"> • Proposal vide proposal no. IA/CG/MIN/204681/2021 dated 07.04.2021 has been submitted in Form-IV along with Addendum EIA/EMP report etc for obtaining Amendment to existing Environmental clearance of Bailadila Deposit14/11C project (935.522 Ha, 12.00 MTPA ROM Iron ore) by exclusion of Deposit 11C part (Area 106.412 Ha and 1.5 MTPA ROM Iron Ore) and modifying to “Bailadila Deposit-14 & 14NMZ (829.11 Ha, 10.5 MTPA ROM)” as per above specific condition no: 1 & 2 of TOR letter dated 24/09/2019. |
|--|--|

5. Earlier EC Details:

| | |
|--------------------|---|
| | <ul style="list-style-type: none"> • EC for Bailadila Deposit-11A (2.8 MTPA Iron Ore) (Area: 233.509 Ha) – dated 31/10/2011 under EIA 2006 Notification. • EC for Bailadila Deposit-11B (7.0 MTPA Iron Ore) (Area: 535.003 Ha) dated 11/09/2006 under EIA Notification 1994. • Integrated EC for Dep 14/11C (12 MTPA) (Area: 935.522 Ha) dated 11/09/2007 under EIA Notification 2006. |
| Additional details | <ul style="list-style-type: none"> • The proposal is for obtaining EC for combined Mining Lease of Bailadila Deposit-11 (MLA: 874.924 Ha) which comprises of Deposit-11A, 11B and 11C part in compliance of MoEF&CC’s notification S.O No: 1530(E) dated 6/4/2018. • There is no change in overall production capacities of ROM Iron Ore. |

6. Lease Details:

| S. No | Particulars | Letter no & date of Mineral Resource Dept, Govt. of Chhattisgarh. | Lease area in Ha | Period of lease | Lease deed Executed on |
|-------|------------------------------------|---|------------------|--------------------------|------------------------|
| 1. | Initial Mining Lease | --- | 1809.23 | 11.09.1967 to 10.09.1997 | 12.09.1967 |
| 2. | 1st lease renewal of Mining Lease | F3-124 / 96/12/2 dated 29-06-2002 | 874.924 | 11.09.1997 to 10.09.2017 | 17.10.2005 |
| 3. | Extension of lease of Mining Lease | F4 -55 /2017/XII dated 03-05- 2018 | 874.924 | 11.09.2017 to 10.09.2037 | 14.12.2018 |

7. Mining Plan:

| | | |
|--|--|--|
| Mining Plan (approved by Indian Bureau of Mines/DMG) | Letter No. | Dantewada/Fe/Khanij-1215/2019/Raipur/546 |
| | Date | 11/12/2019 |
| | Validity | FY 2020-21 to FY 2024-25. |
| Mining Parameters | Quantitative Description | |
| Bench Height | 12 m height | |
| Bench Width | 25-30 m width | |
| Method of Mining | Fully mechanized open cast method | |
| Individual bench slope | 45° to 70° | |
| Overall pit slope | <45° | |
| Drilling / Blasting | <p>Drilling</p> <ul style="list-style-type: none"> • Primary Drilling: by 250 mm dia. and 150 mm dia. blast hole drills. • Wet drilling adopted due to which dust generation is eliminated at source. • Secondary drilling: for toes and ledges <p>Blasting</p> <ul style="list-style-type: none"> • Primary Blasting: using Site Mix Emulsion Explosives (SME) in conjunction with cast boosters and Nonel (Non-Electric delay detonators). • Secondary blasting: by cartridge explosives of 83mm diameter. Blast holes are drilled in staggered / rectangular pattern for primary drilling. • Carried out only in day time and is avoided during high windy periods. | |
| RoM output size | • ROM input < 1.0 m size | |

| | <ul style="list-style-type: none"> ROM output <table border="1"> <thead> <tr> <th>Product</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Lump Ore</td> <td>(-) 150mm to (+) 10 mm</td> </tr> <tr> <td>CLO</td> <td>(-) 40 mm to (+) 06mm</td> </tr> <tr> <td>Fines</td> <td>(-) 10 mm</td> </tr> </tbody> </table> | Product | Size | Lump Ore | (-) 150mm to (+) 10 mm | CLO | (-) 40 mm to (+) 06mm | Fines | (-) 10 mm |
|---------------------------------|--|---------|------|----------|------------------------|-----|-----------------------|-------|-----------|
| Product | Size | | | | | | | | |
| Lump Ore | (-) 150mm to (+) 10 mm | | | | | | | | |
| CLO | (-) 40 mm to (+) 06mm | | | | | | | | |
| Fines | (-) 10 mm | | | | | | | | |
| Mineable reserves | 350.873MT (as on 01.04.2019) | | | | | | | | |
| Life of mine | 31 years approx. (from 01.04.2020) | | | | | | | | |
| Transportation details | The material is transported to various customers through (i) KK railway line (ii) conveyor system to AMNS beneficiation plant at Kirandul and (iii) marginal quantity through SH/NH road. | | | | | | | | |
| Dumpers capacity | 85 T/100T | | | | | | | | |
| Waste (till life of mine) | 12.72 MT – Deposit-11A, 86.85 MT – Deposit-11B 26.68 MT – Deposit-11C part 126.25 MT – Total Deposit11ML | | | | | | | | |
| Additional information (if any) | <ul style="list-style-type: none"> The blasted ore is transported from mining benches by using 85 / 100 tones capacity dumpers to Crushing Plant. The crushed iron ore is transported through closed down hill conveyor system from crushing plant to screening plant. The final products from screening plant(s) to Loading plant is also transported through covered conveyor system. | | | | | | | | |

8. Land Area Breakup:

| | |
|---|---|
| Private land | Nil |
| Government land | Nil |
| Total Mining lease area (MLA) | 874.924 Ha |
| Private land for crusher, workshop & other infrastructure outside the MLA | NMDC has acquired 54.854 Ha revenue land outside ML area for Loading plant at Kirandul. NMDC has also acquired revenue land outside ML area measuring 245 Ha out of which an area of 120.10 Ha has been utilized for Tailing dam at Kadampal. NMDC has also acquired lands at Bacheli for infrastructural facilities. |
| Additional information (if any) | The screening plants are located inside the Mining Lease area of Deposit-14 NMZ. These facilities are common to the Mining Lease of Deposit-14 and 11B and Dep-11C part of Deposit-11 ML. The ROM iron ore of Deposit-11A is processed in the infrastructure facilities created at Bacheli. |

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

| Particulars | Particular's Name | Distance & Directions |
|-----------------|-------------------|-----------------------|
| Village | Kadampal | 6 km, E |
| | Padhapur | 3.3 Km, NE |
| | Kirandul | 3.9 Km, SE |
| | Kodenar | 2.6 Km, SE |
| | Pina Bacheli | 6.3 Km, NE |
| | Bainpal | 3.6 Km, E |
| Highway | SH-5 | 1.5 Km, E |
| | NH-63 | 50 Km |
| Railway Station | Kirandul | 0.6 Km, SE |
| | Bacheli | 1.6 Km, N |
| Water Bodies | Koyar nadi | 4.6 Km, NE |
| | Malinger nadi | 4.5 Km, SSE |
| | Madadi nadi | 2.9 Km, E |
| | Sankini nadi | 5.5 Km, NE |
| | Galli nalla | 1.1 Km, W |
| | Berudi nadi | 6.2Km, W |

10. Water requirement

| | | | |
|-------------------------|---|---|---|
| Groundwater table | 730mRL | The mine working will not intersect ground water table. There will not be any impact on the ground water resources as there is no ground water tapping for mining and mineral processing purpose. | |
| Ultimate pit limit | 934mRL | | |
| Total water requirement | 1500 m ³ /day | Fresh water | 1450 m ³ /day – Local authority |
| | | Treated water | 50 m ³ /day – rainwater harvesting |
| Source | <ul style="list-style-type: none"> Existing water sources Malinger nalla, Kirandul nalla, Bacheli Nalla, Galli nalla etc. | | |
| Permission | <ul style="list-style-type: none"> Executive Engineer, WRD, Dantewada vide letter dated 11/02/2021 forwarded application to Superintending Engineer, WRD, Jagdalpur for obtaining water permission for 6.735 million cu.m per annum for Kirandul complex. SE, WRD, Jagdalpur vide letter dated 22/02/2021 forwarded the proposal to Chief Engineer, ERD, Raipur for approval. C.E, WRD, Raipur vide letter dated 9/4/2021 forwarded the proposal to Addl. Chief Secretary, WRD, Mantralaya, Nava Raipur for obtaining approval. Approval from Water Resource Deptt, Raipur is | | |

| | |
|---------------------------------|---|
| | under process |
| Additional information (if any) | NMDC is already paying water tax @ Rs.5 per KL to Water Resource Deptt. |

11. Presence of Environmentally Sensitive areas in the study area

| Forest Land/ Protected Area/ Environmental Sensitivity Zone | Yes / No | Details of Certificate/ letter/ Remarks |
|---|------------------------------------|---|
| Forest Land | Yes 874.924 Ha (Entire Land) | Forest clearance for diversion of 874.924 Ha Forest land was obtained from MoEF&CC vide letter no: 8-98/97-FC dated 22/12/1999 and the same has been extended up to 10/09/2037 by C.G. State Forest Dept. vide letter no: 5-34/1997/10-2 dated 31/3/2020. PP submitted letter no: 5372 dated 3/6/2021 obtained from Divisional Forest Officer, Dantewada, Chhattisgarh. |
| National park | No | |
| Wildlife Sanctuary | No | |

12. Availability of Schedule-I species in study area – Available / Not Available:

Available

If available - authenticated list of flora / fauna details

| Schedule-1 species | Yes / No | Details of Certificate /letter/ Remarks |
|---------------------------------|----------|---|
| Schedule-I species | Yes | <ul style="list-style-type: none"> Report on Flora and Fauna studies carried out during month of November 2020 was submitted to DFO, Dantewada for authentication. DFO, Dantewada vide letter dated 4/2/2021 has certified the report. As per the report and working plan of Dantewada Forest Division, following Seven schedule-1 species found in the study area:- <ul style="list-style-type: none"> ✓ Common langur, sloth bear, panther, python, bastar hill myna, common peafowl and lesser whistling teal. Species also mentioned in the working plan of Forest Department. |
| Additional information (if any) | | <ul style="list-style-type: none"> Wildlife Conservation Plan for entire Dantewada Forest Division was prepared against one of the FC conditions for proposal for diversion of 65.936 Ha Forest land at Kirandul of NMDC and got approval of PCCF (WL) / CWLW, Forest Deptt, Raipur vide letter no: 3445 dated 7/12/2013 for an amount of Rs.15.50 Cr which has been |

| | | |
|--|--|---|
| | | <p>deposited on 30/4/2014 in CAMPA AC by NMDC.</p> <ul style="list-style-type: none"> • Conservation Plan for protection of Flora and Fauna towards compliance of EC conditions was also prepared and got approval of PCCF (WL) / CWLW, Forest Deptt, Raipur vide letter dated 4/2/2017 with implementation cost of Rs.14.74 Cr for Bachel complex and Rs.13.93 Cr for Kirandul complex. NMDC contributed the above amount in the Chhattisgarh CAMPA account on 27/1/2017 and 22/3/2017. |
|--|--|---|

13. Green belt/ plantation details:

| | |
|---|--|
| Proposed area for green belt / plantation | <ul style="list-style-type: none"> • The entire Mining Lease area of Deposit-11 is forest land. • The project has already undertaken gap plantation over 662 Ha with plantation of 4,00,000. • Reclamation and rehabilitation of mined out areas, waste dumps etc shall be undertaken for plantation purpose once they became passive in a phased manner. The area to be covered is 836.924 Ha with plantation of 17,26,882 plants. |
| Budget for green plant & plantation till the end of life of mine. | 186.28 Cr |
| Budget for nursery | Rs.50.00 lakhs for Kirandul Complex |
| Additional information (if any) | NMDC is contributing funds to Hariyar Chhattisgarh Tree Plantation Programme. So far, NMDC contributed funds of Rs.114.19 Cr to Hariyar Kosh for undertaking road side and block tree plantation programme. |

| Particulars for Green belt/plantation | Area covered (in Ha) |
|---------------------------------------|----------------------|
| 7.5 m barrier & non-mineralized zone | 13.545 |

14. Baseline detail

| Baseline Data (Air / Water / Noise / Soil / Ground water table/ others) | |
|---|---|
| Period of baseline data collection | October to December 2020 |
| Season (Summer / Pre-monsoon / Post-monsoon / Winter) | Post Monsoon 2020 |
| Additional information (if any) | The Ambient Air Quality and Ambient Noise level monitoring was conducted at 8 locations, surface water & ground water |

| | |
|--|--|
| | sampling and analysis was done at 6 & 4 locations respectively and soil quality sampling at 5 locations during Post Monsoon season 2020. The levels of AAQ, ambient noise levels, water quality is found to be well within the prescribed standards. |
|--|--|

15. Public Hearing (PH) Details: Public hearing eexempted by MoEF&CC vide letter dated 1/11/2019, as the public consultation has already been conducted for the same production capacity and the concerns of the general public are duly considered and are under implementation.

16. Court case details:

| | |
|------------|---|
| Court Case | No litigations pending against Dep-11 ML. |
|------------|---|

17. Rehabilitation & Resettlement:

| | |
|---------------|----------------|
| R & R details | Not applicable |
|---------------|----------------|

18. Affidavit/Undertaking details:

| | |
|----------------------------------|--|
| Affidavit / Undertaking | Affidavit dated 16.04.2019 in compliance to comply with the Common Cause Judgment in W.P (civil) no: 114 of 2014 has been submitted. |
| Undertaking by Project proponent | PP vide Lr Ref no 2841 dated 11.03.2021 submitted an undertaking that the contents (Information & Data) given in the EIA/EMP report of Bailadila Iron Ore, Deposit 11 Mining lease (874.924 Ha, 11.30 MTPA ROM Iron Ore and 2.70 MTPA waste excavation) of M/s NMDC Limited located at Kirandul, South Bastar Dantewada District, Chattisgarh are correct to the best of my knowledge. The prescribed ToRs have been compiled with and presented in the EIA/EMP report |
| Consultant | Ecomen Laboratories Pvt. Ltd vide Lr dated 22.03.2021 submitted an undertaking that the contents (Information & Data) given in the EIA/EMP report of Bailadila Iron Ore Mines (Deposit 11) of M/s NMDC Limited are correct based on the information provided by Project Proponent. The prescribed ToRs have been compiled with and presented in the EIA/EMP report |

19. Previous EC compliance and production details:

| Particulars | Letter no. and date |
|--------------------------------|--|
| Certified EC compliance report | <ul style="list-style-type: none"> • Site inspection was done on 23-24 December 2020 by IRO, MoEF&CC, Raipur. • Certified EC compliance report to the conditions stipulated in EC letters of Deposit-11A and Deposit-11B mines submitted to MOEF&CC vide letter nos: 7735 and 7736 dated 21/01/2021. |
| Certified past production | Certified past production details as per MOEF&CC format (Annexure-III) is enclosed as Annexure: 2.2A in EIA/EMP report. |
| Additional detail (If any) | <p>The certified production details for FY 2020-21 have also been obtained from District Mining Officer, Dantewada on 10/6/2021.</p> <p>Chhattisgarh State Govt. has served notice to NMDC Kirandul complex on the issue of EC capacity violations as per Judgement of Honourable Supreme Court in the WP(C) 114/2014 for an amount of Rs.407.88 Crores on dated 15/11/2019. NMDC has already deposited an amount of Rs.174.0 Crores under protest on 10/12/2019 to District Collector, Dantewada CG. NMDC has filed WP(C) 612/2020 against the demand notice of the State Govt. in the Honourable Bilaspur High Court on 22/01/2020. The matter is under Subjudice.</p> |

20. Details of the EMP

| Activities | Capital cost (in lakhs) | Recurring cost (in lakhs) |
|---|--------------------------------|----------------------------------|
| Engg Measures and Biological measures | 23,236.79 | 604.50 |
| Dust Suppression in the mine by means of water sprinkling tankers | 550 | 185 |
| Fog / Mist sprinkler system at Primary crusher | 325 | 155 |
| Fixed Water Sprinkling Pipelines on the permanent haul roads | 170.00 | 33.00 |
| Environmental Monitoring & Evaluation | 340.00 | 752.06 |
| Env Management awareness | 0 | 1195.15 |

| | | |
|-----------------------------|-----------------|----------------|
| De-silting | 0 | 3850 |
| ETP | 22.00 | 14.00 |
| STP | 198.00 | 165.00 |
| Total (for 31 years) | 24841.79 | 6877.71 |
| Cost per annum | 801 | 222 |

21. Details of project cost and employment:

| Particulars | (Rs. In Crore) |
|---|--|
| Capital Cost for Environment Protection | 248.42 |
| Total Cost for EMP | 248.42 |
| Recurring Cost for EMP | 68.78 |
| Project Cost | 520.20 |
| Employment | Existing 739 permanent employment at Bailadila Deposit-11 ML and 959 contract employments for Kirandul Complex |

22. PP submitted the information sought by the Committee during 34th EAC meeting held during 27th -30th July, 2021 on 18.08.2021 vide Letter no. NMDC/BIOM-KDL/EC/20212883 dated 17.08.2021 as mentioned below: -

Point (i): The Project Proponent should submit the complete details of the crushing plant and its capacity, if any along with the location map and impact due to crushing operation and their mitigative measures. PP need to submit the revised Form-2 and EIA/EMP report accordingly.

Reply: PP submitted that the crushing plant is located inside the Mining Lease of Bailadila Deposit-11 towards the eastern side between cross section B14 and B15 at 1120MRL. The ROM iron ore from different benches of Deposit-11B mine is transported by 85 T/ 100 T dumper to the crushing plant. The rated capacity of crushing plant is 3000 Tons per hour. Crushed ore is conveyed to surge pile below crushing plant and conveyed through downhill conveyor system to secondary surge pile above screening plant. NMDC has obtained Environmental clearance vide letter no: J11015/416/2005-IA.II(M) dated 11/09/2006 for Bailadila Deposit-11B (falling in Deposit-11 ML) which also mentions about crusher. PP also submitted that since crusher is already installed in the Mining Lease area, the reply was given as “No” as there is no proposal to install any new crusher. Now, the relevant section 35(6)(a) in Form-2 is revised as crusher already installed inside lease area).

Point (ii): The Project Proponent needs to provide EMP budget for addressing public concerns with separate budget of Rs 5.7 Crore with the timeline of 3 years

involving capital expenditure for the concerns related to environment protection, health and education as agreed by the PP during the presentation.

Reply: PP submitted that the public concerns have been taken into consideration and separate budget involving capital expenditure works related to environment protection, health and education has been prepared. The estimated cost for each of the works identified under the above heads is worked out and capital budget of Rs. 601.33 lakhs are provided. The details of the works proposed along with estimated cost and timeline for completion of the same is given below.

| S. No | Name of the work | Estimated cost (Rs. Lakhs) | Time line for execution of the work (excluding rainy season) | Brief description of the activity |
|--------------|--|-----------------------------------|---|--|
| I | Environment Protection | | | |
| 1 | Construction of 22 no.s of Gabion Check Dams, 9 no.s Loose boulder check dams, 3 no.s of stone masonry check dams and 1 no. gabion toe wall at outside mining lease of Deposit11 under Bachel Forest Range | 162.60 | 28 months | These check dams shall provide moisture retention, prevent the flow of silt and soil along with runoff during monsoon. |
| II | Health | | | |
| 2 | Construction of prefabricated sub-health centre building at Village Kondasawli & Minpa Village in Janpadh panchayat, Konta | 90.0 | 20 months | About 6000 population will get benefitted including surrounding villages. |
| 3 | Construction of boundary wall for 2 Primary health centre at Chintalnar and Chintagufa one boundary wall for sub health centre at Gorgunda village in Janpadh Panchayat, Konta | 43.73 | 12 months | The boundary wall shall prevent entry of stray animals etc. |
| 4 | To Setup Sanitary Pad machinery / equipment for making sanitary pads for Ashram & hostel, girls through self-help group. | 70.0 | 12 months | The tool kits will be provided to the self-help group for making sanitary pads. |

| III | Education | | | |
|----------------------------|--|--------------|-----------|---|
| 5 | Construction of Ashram School at Gopalapalli village in Sukma District | 235.0 | 24 months | The new Ashram school will impart education for the students of Gopalapalli and surrounding villages. |
| Grand Total (I + II + III) | | 601.33 Lakhs | | |

Point (iii): The Project Proponent needs to provide the budget for further strengthening of EMP to address the public concerns already expressed.

Reply: PP submitted that the main public concern is to supply potable drinking water in villages surrounding mining projects of NMDC in Bailadila. Accordingly, NMDC has conceptualized following water supply schemes for supply of potable water in consultation with Public Health Engg Department, Dantewada.

| S. No | Name of the scheme | Cost in Rs. Crores | Salient features of scheme |
|--------------|--|---------------------------|---|
| 1 | Group water supply scheme to provide potable water to 32 villages through pipeline (also called Nerli and Dhurli Jal Pradhay Yojana) | 69.33 | The scheme provides construction of anicut on Sankini and Dankani rivers, intake well cum pumping stations, Water Treatment Plant (3.0 MLD & 0.5 MLD), laying of pipeline, 29 no.s of RCC service reservoirs of capacity 60 KL to 140 KL, distribution pipeline covering 141 km, construction of quarters for maintenance staff, construction of approach road, boundary wall for WTP, inspection vehicles etc. |
| 2 | Installation of 68 no.s of Solar dual water pumps in Dantewada district | 5.24 | The scheme provides water supply to 68 remote villages of Dantewada District. |
| 3 | Providing drinking water for 48 villages in Bijapur District | 6.05 | The scheme provides water supply to 48 villages (each village is provided with 2 bore |

| | | | |
|--|-------|-------------|---|
| | | | wells along with hand pump, out of which one bore well is provided with solar pump with overhead tank). |
| | Total | Rs 80.62 Cr | |

Point (iv): The Project Proponent needs to submit the budget for plantation year wise till the conceptual stage for 874.924 ha.

Reply: PP submitted that the total mining Lease of Bailadila Deposit-11 Mining Lease is 874.924 Ha. The plantation in 823.379 Ha will be undertaken in a progressive manner up to the conceptual stage. The remaining area of 15.00 Ha will be converted as water body and 23.00 Ha will be left as approach roads within the lease area and Safety zone area is 13.545 Ha.

Point (v): The Project proponent shall furnish a certificate from the Competent Authority regarding satisfactory compliance and implementation of earlier site-specific wildlife conservation plan.

Reply: PP submitted that DFO, Dantewada vide letter no- 5735 dated 18/6/2021 addressed to APCCF (WL), Forest Deptt, Raipur informed that NMDC has got approval of Biodiversity conservation & Management plan for Bailadila Deposit-5,10/11A (Bachel complex) and Bailadila Deposit-14/11C & 11B (Kirandul complex) in the year 2017 for a total cost of Rs.14.47 Cr and Rs.13.68 Cr respectively and also deposited the funds in CAMPA AC. DFO further informed that the work is under progress since FY 2018-19 by undertaking the works under Annual Plan of Operations (APO). Further, DFO Dantewada vide letter no 6816 dated 17/8/21 addressed to NMDC Kirandul Complex, wherein it has mentioned that the amount deposited by NMDC in CAMPA account for carrying out Bio Diversity Conservation & Management plan is on-going for conservation works.

Point (vi): The Project Proponent needs to submit the details of the initial lease document along with subsequent renewals in a chronological manner along with copy of renewal lease deed, etc.

Reply: PP submitted that the Mining lease for Bailadila Deposit-11 has been extended up to 10.9.2037 under Mineral (Mining by Government Company) Rules 2015 by Mineral Resource Department, Government of Chhattisgarh, Raipur vide letter F4 –55 /2017/XII dated 03.05.2018. The lease deed was executed on 14/12/2018 for a period of 20 years i.e. from 11.09.2017 to 10.09.2037. The details of the initial lease along with subsequent renewals in a chronological manner is given below:

| S. | Particulars | Letter no & date of | Lease | Period | of | Lease |
|----|-------------|---------------------|-------|--------|----|-------|
|----|-------------|---------------------|-------|--------|----|-------|

| No | | Mineral Resource Dept, Govt. of Chhattisgarh. | area in Ha | lease | deed Executed on |
|----|------------------------------------|---|------------|--------------------------|------------------|
| a) | Initial Mining Lease | --- | 1809.23 | 11.09.1967 to 10.09.1997 | 12.09.1967 |
| b) | 1st lease renewal of Mining Lease | F3-124 / 96/12/2 dated 29-06-2002 | 874.924 | 11.09.1997 to 10.09.2017 | 17.10.2005 |
| c) | Extension of lease of Mining Lease | F4 -55 /2017/XII dated 03-05-2018 | 874.924 | 11.09.2017 to 10.09.2037 | 14.12.2018 |

Point (vii): The Project Proponent needs to submit the status of permission for extraction of 6.735 million cu.m per annum from Water Resource Dept, Raipur.

Reply: PP submitted that they have applied for extraction of water 6.735 million cum per annum from Water Resource Deptt (WRD). PP submitted that the Chief Engineer, Mahanadi Project, WRD, Raipur vide letter no: 3451338/3411 dated 9/4/2021 forwarded the proposal to Addl. Chief Secretary, Government of Chhattisgarh, Water Resource Deptt, Mantralaya, Nava Raipur for obtaining permission for 6.735 million cum per annum from Nalla No-25 near Kirandul.

Point (viii): The Project Proponent needs to submit the letter obtained from DFO Dantewada vide letter no.5372 dated 03.06.2021.

Reply: PP submitted the copy of the letter no: 5372 dated 3/6/2021 obtained from Divisional Forest Officer, Dantewada, Chhattisgarh.

Point (ix): The project proponent should submit the list of schedule-1 species duly authenticated by concerned department.

Reply: PP submitted the list of schedule-1 species duly authenticated by DFO, Dantewada in the Flora and Fauna report prepared for Bailadila Deposit-11 Mining Lease.

Point (x): The Project Proponent needs to submit the Wildlife Conservation Plan approved by the Competent Authority in the State.

Reply: PP submitted that the wildlife conservation has been prepared in consultation with Forest Department for a total cost of Rs. 10.25 Cr and the report has been submitted to DFO Dantewada, PCCF (WL) / CWLW, Forest Deptt, Raipur vide letter no 2833 dated 4/2/21 for obtaining approval. DFO, Dantewada vide letter dated 18/6/2021 forwarded the proposal to APCCF (WL), Forest Deptt, Raipur informing that NMDC has

prepared Wildlife Conservation Plan for Bailadila Deposit-11 ML as per standard TOR condition no: 18 for a total cost of Rs.10.25 Cr and sought the approval of the same. The proposal is under consideration for approval by APCCF (WL) / Chief Wildlife Warden, Forest Deptt, Raipur.

23. Observation and Recommendation of the Committee:

The Proposal of Environmental Clearance was considered in the 36th EAC meeting held on 31st August and 1st September, 2021. After detailed deliberations made by the Project Proponent and the Consultant, the Committee noted that the PP obtained EC for deposit 11A on 31.10.2011 under EIA notification 2006 followed by amendment EC dated 07.02.2013, EC for deposit 11B on 11.09.2006 under EIA Notification 1994 and EC for deposit 11C was obtained as part of integrated EC of Bailadila deposit 14/11C on 11.09.2007 under EIA Notification 2006. PP now submitted proposal for grant of EC for complete Deposit 11 which comprises Deposit 11A, 11B and 11C with a view to regularize the EC obtained for 11B under EIA Notification 1994, within the provision of Ministry's Notification dated 06.04.2018. Therefore the Committee **recommended** the proposal for grant of Environmental Clearance of M/s. NMDC Limited for Bailadila Iron Ore Mine Deposit-11 (i.e. 11A, 11B and 11C) for total excavation of 14 MTPA (11.30 MTPA ROM production {11A-2.8 MTPA+11B-7 MTPA+11C-1.5 MTPA} and 2.70 MTPA waste excavation in the mine lease area of 874.924ha at Village Kirandul, Tehsil Dantewada, South Bastar Dantewada, District Chhattisgarh subject to the following specific conditions in addition to the standard EC conditions applicable for non-coal mining projects:

- i. The Project Proponent needs to install the adequate number of monitoring station to undertake air quality and water quality monitoring in the vicinity of 5 km of the mine and water bodies and the six monthly data should be submitted to the Ministry.
- ii. The Project Proponent should monitor the ground vibration at the site, near the boundary and sensitive receptor during blasting. Villages shall be protected from air pollution, noise and ground vibration by adopting measures as given in the EMP and as per the provisions of the DGMS.
- iii. The Project Proponent shall 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.

- iv. As many activities have been proposed for the health of people, Project Proponent shall prepare a comprehensive health management plan which can benefit all the people in the region.
- v. The Project Proponent should implement the Wild Life Conservation Plan duly approved from the concerned authority.
- vi. The Project Proponent shall obtain the necessary permission for the extraction of 6.735 Million Cum of water from Nalla No-25 near Kirandul before extraction from the concerned authority. As submitted by PP there should be no ground water tapping for mining and mineral processing purpose and the mining activities should not puncture the ground water table.
- vii. The Project Proponent shall implement the suggestions of Indian Council of Forestry Research and Education (ICFRE) w.r.t. reclamation/rehabilitation measures.
- viii. The Project Proponent shall implement the plantation plan submitted for 823.379 Ha with the 1713820 nos. of saplings from the total proposed budget of Rs. 18406 Lakhs in a progressive manner. PP shall ensure the survival rate for the proposed plantation should not be less than 90% and casualties should be replaced with new saplings every year. Casualties replaced should be counted separately other than the total proposed saplings i.e. 1713820 and the data for such saplings should be furnished during six monthly compliance report along with the progressive plantation.

1.2 Proposal for Environmental Clearance of M/s Dalmia Cement (Bharat) Ltd for Proposed Kesla-II Limestone Mine with total excavation 4.0 Million TPA (Limestone: 3.0 Million TPA, Top Soil: 0.15 Million TPA, Mineral Rejects & Waste: 0.85 Million TPA) with crusher capacity of 1000 TPH in the mine lease area of 357.067 ha located in villages Nahardih, Kharora, Kesla and Bardih, Tehsil Tilda, District Raipur, Chhattisgarh [Proposal No.IA/CG/MIN/72578/2018, F.No. J-11015/13/2018-IA-II(M)] - Environmental Clearance (EC).

EAC Meeting Details:

| | |
|-----------------|---|
| EAC meeting | 36 th EAC Meeting |
| Date of Meeting | 31 st August & 1 st September, 2021 |

The Proposal of M/s Dalmia Cement (Bharat) Ltd is for grant of Environmental Clearance (EC) for Proposed Kesla-II Limestone Mine with total excavation 4.0 Million TPA (Limestone: 3.0 Million TPA, Top Soil: 0.15 Million TPA, Mineral Rejects & Waste:

0.85 Million TPA) with crusher capacity of 1000 TPH in the mine lease area of 357.067 ha located in villages Nahardih, Kharora, Kesla and Bardih, Tehsil Tilda, District Raipur, Chhattisgarh. The mine lease area located between Latitude 21°24'47.752" N to 21°26'09.246" N and Longitude 81°55'45.216" E to 81°56'54.195" E. The mine lease area falls under the Survey of India Toposheet No F44P15, F44P14, F44Q2 & F44Q3 and falls in Seismic Zone-II.

2. M/s Dalmia Cement (Bharat) Ltd has made an online application vide proposal no: IA/CG/MIN/72578/2018 dated 04.09.2020 and submitted the Form-2 and EIA report under the provisions of the EIA Notification, 2006 for the project mentioned above. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals under Category "A" of the schedule of the EIA Notification, 2006 as the mining lease area is greater than 100 ha and appraised at Central level.

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

| Date of application | Proposal No | Consideration | Details | Date of accord |
|---------------------|----------------------|-------------------------|---|----------------|
| 30.01.2018 | IA/CG/MIN/72578/2018 | 27.02.2018 & 14.05.2018 | 4.0 million TPA (ROM) with crusher capacity of 1000 TPH in the mine lease area of 357.067ha | 08.06.2018 |

4. Lease Detail

| S. no | Grant of Pl/mine lease/ Order | Date of the grant | Name of the Mineral | Period of Grant | | Granted by | Mine lease area in Ha |
|-------|---|-------------------|---------------------|------------------------|------------|---------------------|-----------------------|
| | | | | From | To | | |
| 1 | Letter of Intent vide Lr F 3-21/2016/12, Naya Raipur | 22.06.2017 | Limestone | 22.06.2017 | 21.06.2020 | Govt of Chattisgarh | 357.067 |
| 2 | Extension of Letter of Intent vide Lr F 3-21/2016/12, Naya Raipur | 03.03.2021 | Limestone | Valid up to 21.06.2022 | | Govt of Chattisgarh | 357.067 |

5. Details of Mine Plan

| S.no | Mining Plan along with the Conceptual Plan Approved By | Letter no | Dated of Approval | For a period | Details |
|------|---|-------------------------------------|-------------------|--------------|-----------------------|
| 1 | Mining Plan with Progressive Mine Closure Plan approved by Indian Bureau of Mines | Raipur/Chup/Khay o-1165/2008-Raipur | 29.08.2018 | 5 years | Limestone, 357.067 Ha |

6. The Project Proponent submitted that the method of mining will be carried out by Conventional Open cast fully mechanized mining. PP reported that the Total Geological reserves is 213.1292 Million Tonne and Mineable Reserve is 75.1680 Million Tonne. Life of the mine is 30 years. The proposed bench height will be 8m and working bench width will be 20m. Ultimate pit slope will be 50°. Top soil & OB loaded by excavator and top soil will be transported to the temporary stock yard which will be selected near the mine quarry whereas the OB will be transported to the dumping yards on safety barrier zone. Both the top soil & OB will be transported via dumpers. Excavated limestone will be transported from mine face to crusher via 35T dumper & then crushed limestone will be transported to proposed cement plant through covered conveyor belt located at a distance of ~500 m. Impact crusher of 1000 TPH capacity will be installed near the south western boundary of the lease area. The limestone will be stacked near the crusher and fed to crusher. The capacity of belt conveyor will be 1000 T / hour. The crushing of limestone will be done by impact crusher giving output of 50 - 75 mm sizes. At conceptual stage, about 1207050 Tonnes of topsoil will be generated and this will be stacked separately at the earmarked place and used for greenbelt/plantation development as per yearly proposals. At conceptual stage, about 3621150 Tonnes of OB, 3758500 Tonnes of Mineral Reject, 4138050 Tonnes of High MgO Limestone and 542825 Tonnes of Waste (Shaly Limestone etc.) is likely to be generated. OB/waste/rejects will be used for backfilling after 10th year in the mined-out area where the entire mineable limestone will be exhausted. PP reported that the water table is found at a depth of 6-12m bgl and the depth of the mining will be 32m and there will be ground water intersection. PP also informed that the Prior permission for Ground water table intersection will be taken from the Concerned Authority.

7. Land Area Breakup

| | |
|-------------------------------|------------|
| Private land | 314.643 ha |
| Government land | 42.424 ha |
| Total Mining lease area (MLA) | 357.067 ha |

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

| Particulars | Distance | Direction |
|--------------------------------|---|-----------|
| Nahardih Village | ~300 m | NE |
| Kharora Town | ~ 1.0 km | SW |
| National Highway 130 B | ~ 2.8 km | SE |
| Baikunth Railway Station | ~17.0 km | NW |
| Kumhari Tank | ~3.5 km | NNW |
| Mahanadi Canal (Baloda Branch) | ~1.5 km | E |
| Additional information | Two small nallahs in north and one small nallah in south and Minor canal in north corner are found within ML area | |

9. Water requirement

| | | | | |
|-------------------------|---|---------------|-----------------------|----------|
| Total water requirement | 100.0 KLD | | Dust suppression | 50.0 KLD |
| | Fresh water | Treated water | Green belt | 30.0 KLD |
| | 86.0 KLD | 14.0 KLD | Drinking & Sanitation | 10.0 KLD |
| | | | Miscellaneous | 10.0 KLD |
| Source | Ground Water and/or Mine Sump as & when developed | | | |
| Permission | Application for abstraction & dewatering of ground water has been submitted online for CGWA Clearance on 26 th Sept., 2019. Subsequently, company has deposited the ground water abstraction/ restoration charges i.e., Rs. 1,76,040/- through Bharatkosh Portal on 8th July, 2021 based on demand raised vide email dated 2nd July, 2021 and communicated the same vide email dated 8th July, 2021. NOC is awaited. | | | |

10. The Project Proponent reported that there is no forest land involved in the mine lease area as per the tender document provided by the State Govt., Further; there is no National Park, Wildlife Sanctuary, Biosphere Reserves, Tiger Reserves and Wildlife Corridors etc. within 10 km radius of the mining lease area. PP submitted the letter regarding the same has been obtained from APCCF & CWW, Atal Nagar, Nava Raipur, vide letter no vide letter, dated 28.01.2020. PP reported that the following Protected Forest such as Khaulidabri PF ~100m, NW and Mohranga PF ~5.5km, WNW are found within the 10km radius. PP also submitted that the Forest Dept. has developed the Mohranga Paryavan Darshan as a tourism.

11. The Project Proponent reported that 3 Schedule I species found in the study area such as Python (*Python molurus*), Monitor lizard (*Varanus bengalensis*) and Indian Peafowl (*Pavocristatus*). PP submitted that the Wildlife Conservation & Management Plan prepared by Enviro Greens by Haresh Chandra Tiwari I.F.S. (RETD.) and

approved by APCCF & CWW, Atal Nagar, Nava Raipur, vide letter no. V. Pra./Prabandh-475/467 dated 28.01.2020. Budget of Rs. 49.50 lakh has been allocated for 5 years for Wildlife Conservation & Management plan.

12. Green belt/plantation details

| | |
|---|---|
| Proposed area for green belt/plantation | 52.66 ha (13ha 7.5 m safety barrier and safety zone along nallah + 30 ha backfilled area + 9.66 ha on upper 2 benches) |
| 7.5 m barrier & non-mineralized zone | 7.0 ha |
| 50 m safety zone of nallah, roads, electric lines | 6.0 ha |
| Backfilled area | 30.0 ha |
| Budget for green plant & plantation till the end of life of mine. | Rs. 2.58 crore |
| Additional information (if any) | Greenbelt development/Plantation plan has been prepared by Enviro Greens in consultation with DFO, Raipur Forest Division, Raipur, Chhattisgarh and approved by State Forest Department vide letter no. V.T.A./Ra/107/, Raipur, dated 17.03.2021. |

13. Baseline detail

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

| Period | | | | | |
|---------------------------------|-----------|--|---|-------------------------------------|------------------------------------|
| AAQ parameters at 10 locations | Pollutant | Min, $\mu\text{g}/\text{m}^3$ | Max, $\mu\text{g}/\text{m}^3$ | 98 %ile, $\mu\text{g}/\text{m}^3$ | Standard, $\mu\text{g}/\text{m}^3$ |
| | PM2.5 | 20.8 | 54.2 | 53.5 | 60 |
| | PM10 | 36.7 | 86.3 | 85.3 | 100 |
| | SO2 | 5.0 | 10.3 | 10.1 | 80 |
| | NOx | 6.2 | 26.1 | 25.7 | 80 |
| AAQ modelling (Incremental GLC) | Pollutant | Baseline Concentration, $\mu\text{g}/\text{m}^3$ | Incremental Concentration, $\mu\text{g}/\text{m}^3$ | Total GLC, $\mu\text{g}/\text{m}^3$ | Standard |
| | PM2.5 | 41.5 | 2.2 | 43.8 | 60 |
| | PM10 | 58.5 | 4.8 | 63.3 | 100 |
| | SO2 | 7.1 | 3.4 | 10.5 | 80 |
| | NOx | 15.8 | 4.1 | 19.9 | 80 |

| | |
|--------------------------------------|---|
| Noise level at 10 locations | Day Time: 48.2 to 53.1 Leq dB (A) Night Time: 38.5 to 42.8 Leq dB (A) |
| Ground water quality at 8 locations | pH ranged from 7.0-7.7, TDS ranged from 120 - 618 mg/l, Chlorides ranged from 10.0 – 112.4 mg/l, Fluorides ranged from 0.33-0.72 mg/l. The parameters thus analyzed were compared with IS: 10500:2012. All the samples were found to be well within the limits. |
| Surface water quality at 4 locations | pH ranged from 7.1 - 7.6 indicating slightly alkaline in nature. The colour and turbidity were of permissible range and odour was found agreeable at all the locations. BOD ranged between 3.2-4.8 mg/l, COD ranged between 19.4-26.5 mg/l and DO ranged between 6.8-7.2 mg/l. The physical and chemical quality of surface water is good and safe for aquatic biodiversity. |
| Soil quality at 8 locations | pH ranged between 7.0 -7.3 which is neutral. The organic matter present in the soil observed to be appropriate (1.61% to 0.82%) for the plant growth. The textures of the soil samples were sandy loam at all locations. All the essential nutrients were observed to be present in a higher amount than the other micro nutrient and macro nutrient such as Nitrogen (178.51 to 127.76 kg/ha), Phosphorous (38.22 to 26.26 kg/ha), Potassium (192.67 to 90.24kg/ha), Magnesium (383.01 to 95.05 mg/kg), Calcium (4465.78 to 1452.83mg/kg). |

14. Public Hearing (PH) Details

| | |
|--|---|
| Advertisement for PH with date | Local Level/National level: i. Dainik Bhaskar News Paper, Raipur, dated 23.12.2019 ii. The Times of India, New Delhi, dated 24.12.2019 |
| Date of PH | 24.01.2020 |
| Venue | Sports Stadium, Sub Tehsil Office, near Kharora, Tehsil: Tilda, District Raipur, Chhattisgarh |
| Chaired by | Shri Vineet Nandanwar: ADM & Additional Collector, Raipur Dr. S. K. Upadhyay: Regional Officer, Regional Office (CECB) Raipur |
| Main issues raised during PH | Education upliftment, Health & Medical Facilities, Livelihood Skill Training for Employment, School construction for locals & development of Govt. schools, Rain Water Harvesting structures etc. |
| Budget proposed for addressing issues raised during PH | Rs. 4.0 crore |

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

| S. No | Activities | Budget | Physical Targets |
|-------|------------|--------|------------------|
|-------|------------|--------|------------------|

| | | (Rs. In Lakh) | 1 st year | 2 nd year | 3 rd year |
|----------|--|---------------|-----------------------------------|----------------------|----------------------|
| A | Social Infrastructure Development | | | | |
| 1 | Improvement/refurbishment of Govt. schools like development of smart class rooms with wi-fi connectivity, Girls toilets in Schools, drinking water, sanitation, sports equipment, laboratory equipments etc) | 50 | Nahardih & Bardih | Kesla | Kharora |
| 2 | Upgradation of medical equipments such as providing extra beds, x – ray machines, ECG machines etc in existing health sub-centers | 50 | Nahardih, Bardih & Kesla | | |
| 3 | Provision of Clean drinking water in schools and Gram Panchayat / villages of Nahardih, Kharora, Kesla and Bardih etc. (RO, UV, Water Tank, Hand pump etc) (5 nos) | 25 | Kharora | Kesla | Nahardih & Bardih |
| 4 | Provision of solar lights/Fans (100 nos.) in the village streets, Anganwadi, schools and distribution of Solar lantern in villages Nahardih, Kharora, Kesla and Bardih Installation of Solar plates in Schools for Power back-up | 25 | Nahardih & Bardih | Kesla | Kharora |
| B | Soil & Water Conservation | | | | |
| 1 | Rejuvenation of Ponds (10 nos) | 50 | Nahardih, Kharora, Kesla & Bardih | | |
| 2 | Construction of check- dams (5 nos) | 50 | Nahardih, Kharora, Kesla & Bardih | | |
| 3 | Ground Water Recharging through Bore wells (Bhungroo/similar system) (100 nos) | 30 | Nahardih, Kharora, Kesla & Bardih | | |
| C | Skill Development | | | | |
| 1 | Setting up of skill training center (1 nos.) under the banner of Dalmia Institute of Knowledge and Skill Harnessing (DIKSHa) for training of unemployed youth common for plant and captive | 90 | Village Kesla | | |

| | | | |
|----------|--|------------|--------------------------|
| | mines proposed in the area. Affiliation: NSDC/Chhattisgarh State Skill Dev. Mission | | |
| D | COVID Center | | |
| 1 | Establishment of a COVID center at Village Panchayat of project villages with necessary medical equipment providing Oxygen concentrators, beds, PPE Kits, support in vaccination, one Ambulance, Awareness for COVID etc | 30 | Nahardih, Kharora, Kesla |
| | Total | 400 | |

16. The Project Proponent submitted that total Mining lease area is 357.067 ha which falls in Kharora, Kesla, Nahardih and Bardih Villages of Tilda Tehsil. Out of total mining lease area 42.424 ha is Government land and remaining 314.643 ha is Private land. PP submitted that the household survey was conducted for PAFs using a well-structured questionnaire prepared in local language enabling PAFs to reply appropriately. PP submitted that the acquisition of land will be done through provisions of LARR Act, 2013 and land purchase through mutual agreement with the land holders at mutually agreeable rates and terms & conditions. Land purchase shall be done in phases as per the requirement for mining purpose. In first phase land required for first 10 years of plan period shall be acquired and subsequently extended for next 10 years. As per khasra details, there are 299 PAFs involved in the lease area. Out of total 299 PAFs, 264 PAFs owns less than 2 ha land, 20 PAFs owns more than 2 ha land but less than 5 ha land and 15 PAFs own more than 5 ha land. There are 18 structures, falling within mine lease, which will not be proposed to displace due to the mining activity only 3 Structures will be disturbed. As the lease area does not cover any habitation, hence there will be no need of resettlement. Budget proposed for the R&R Action plan is Rs. 154 Crore.

17. Court case details

| | |
|------------|---|
| Court Case | PP submitted that there is no Court Cases pending against the project and/or land in which the project is proposed to be set up |
|------------|---|

18. Affidavit/Undertaking details

| | |
|---|--|
| Project Proponent submitted an Undertaking dated 31.08.2020 | DCBL owns the contents (data & information) of the EIA report prepared and submitted by J.M. EnviroNet Pvt. Limited. Further, it is to state that, instructions as per MoEF&CC O.M. No. J-11013/41/2006-IA. II (I) dated 04.08.2009 has been |
|---|--|

| | |
|--|--|
| | followed during the preparation of this EIA/EMP Report |
| Consultant submitted an Undertaking dated 31.08.2020 | The conditions laid down in Terms of Reference prescribed by MoEF&CC, New Delhi vide letter no. J-11015/13/2018-IA.II (M) dated 08.06.2018 have been complied as per data/details provided by Project Proponent & as per Approved Mining Plan along with Progressive Mine Closure Plan approved by IBM and the data submitted are factually correct |
| Plagiarism Certificate dated 30.08.2020 | The Head of the Accredited Consultant Organization/ Authorized person certified that this EIA Report has been evaluated by using online in house software viz. small tools https://smalltools.com/plagiarism-checker/ . The report produced has been analyzed by the system and based on it, I certify that the EIA Report produce in accordance with good scientific practice. |
| Affidavit in a non –judicial e stamp paper of Rs 100 bearing IN-DL88831282056679T dated 23.06.2021 as per Ministry’s OM dated 30.05.2018 | Company will comply with all the statutory requirement & judgment of Hon’ble Supreme Court dated 2 nd August 2017 in writ Petition (civil) No. 114 of 2014 in the matter of common cause versus Union of India & Ors. |

19. Details of the EMP

| S. No. | Activities | Capital Cost (Rs. In Lakh) | Recurring Cost (Rs. In Lakh) | |
|----------------------------|---|----------------------------|------------------------------|-----|
| I | EMP for Pollution Control & Monitoring | | | |
| A. | Air Quality Monitoring and Management | | | |
| Mitigative Measures | | | | |
| 1 | Permanent water sprinkling arrangements for main haulage road (0.5 km to 1.5 km) | 15.0 | 3.0 | |
| 2 | One water tanker (16 KL) for water sprinkling in other roads and mining areas/activities. | 28.0 | 4.0 | |
| 3 | Pollution Control Device (Bag filter at Crusher) Equipment and its installation Cost, Operation & Maintenance | | 25.0 | 4.0 |
| | Particular | Details | | |
| | Pulse Jet Bag Filter | 85,000 cum/hr | | |
| | Bag filter fan | 100000 cum/hr | | |
| | Motor | 1000 KW | | |
| | Efficiency | 99.99% | | |

| | | | |
|----------------------------|---|------------|-------------|
| 4 | Plantation in Safety barrier along Canal, Nallah etc. on 6 ha (No. of saplings: 12,000) | 258.0 | 7.0 |
| 5 | Green belt around 7.5 m periphery covering an area of 7.0 ha (No. of saplings: 14,000) | | |
| 6 | Plantation / Re-grassing in backfilled area of 30 ha with total 60,000 saplings from 11 th year onwards upto the life of mine | | |
| 7 | Plantation/regressing on the first two benches of excavated area i.e. about 9.7 ha area with 19500 saplings | 58 | |
| 8 | Nursery development & maintenance | 10 | 1 |
| Monitoring | | | |
| 1 | 5 Ambient Air Quality Monitoring Stations at Mine Site (one online and 4 manual) at villages: Kharora, Kesla, Nahardih and Bardih and display board at Mines Main Gate | 50.0 | 3.0 |
| 2 | Fugitive dust emission monitoring (6 locations * monthly) | - | 2.0 |
| 3 | Personal Dust Monitoring | - | 1.0 |
| Sub Total A. | | 444 | 25.0 |
| B. | Water Quality Monitoring and Management | | |
| Mitigative Measures | | | |
| | <ul style="list-style-type: none"> ➤ Retaining Wall around soil dump (L*W*D = 3360 m x 1.5 m x 1.5 m) ➤ Garland Drain around soil dump (L*W*H = 6640 m x 1 m x 1 m) ➤ 1 nos. of Settling Tank / Sedimentation Pond (Length*Width*Depth = 20 m x 20 m x 3 m) ➤ Construction of Protective Bunds along the nallah and (width x height = 3 m x 3m) ➤ Construction of 1 nos. of Check Dams within mine boundary and its annual maintenance | 25 | 5 |
| Monitoring | | | |
| 1 | Installation of 4 Piezometers along the periphery in the premises | 10.00 | 1 |
| 2 | Ground water quality analysis (4 locations * 4 times in a year) | 1.5 | 2 |
| 3 | Surface Water Quality Analysis (Upstream and downstream of Mahanadi Canal & Mine Sump) - 5 samples * half yearly | 2.0 | 3 |
| 4 | Installation of Modular STP & Workshop Waste Water Quality Analysis (monthly) as well as maintenance of oil-water separators | 8.0 | 4 |

| | | | |
|-----------------------------|---|-----------------------------|-------------|
| Sub Total B. | | 46.5 | 11.0 |
| C. | Noise and Vibration Monitoring and Management | | |
| Mitigative Measures | | | |
| 1 | Procurement of Blast Vibration Measuring Instrument | 5.00 | 1.0 |
| Monitoring | | | |
| 1 | Peak Particle Velocity Monitoring for nearby habitation i.e. Kharora, Kesla, Nahardih and Bardih (Minimate & Noise Level Meter) | 3 | 1.8 |
| 2 | Ambient Noise Monitoring in core & buffer zone (5 locations * monthly frequency) | 2 | 1.0 |
| 3 | Work Place Noise Level Monitoring in core zone (5 Locations * quarterly frequency) | 2 | 0.20 |
| 4 | Personal Noise Monitoring (5 Locations * quarterly) | - | 1.50 |
| 5 | Providing Ear muffs/plus to workers working in high noise area | - | 1.50 |
| Sub Total C. | | 12.0 | 7.0 |
| D. | Miscellaneous | | |
| 1 | Digital mapping of entire mine area once in three years (Rs. 3 Lacs once in 3 years) | - | 1.0 |
| 2 | Occupational Health Check-up of Mines Employees | 20.0 | 12.0 |
| 3 | Others, if any | - | 2.0 |
| Sub Total D. | | 20.0 | 15.0 |
| TOTAL (A +B+C+D) | | 522.5 | 58.0 |
| II | Budget for addressing the Public Hearing issues | 400 (within 3 years) | |
| III | Budget earmarked for Wildlife Conservation & Management | 49.50 | |
| Grand Total (I + II) | | 972 | 58.0 |

20. Details of project cost and employment:

| Particulars | Budget (Rs. In Crore) |
|---|------------------------------|
| Capital Cost for Environment Protection | 5.225 |
| Budget for addressing the Public Hearing issues | 4.000 |
| Total Cost for EMP | 9.04 |
| Recurring Cost for EMP | 0.57 |
| Project Cost | 252 |
| Employment | 102 Persons |

21. The proposal was earlier placed in the 32nd EAC meeting held during 28th June, 2021 to 1st July 2021. Based on the documents submitted and presentation made by the Project Proponent and the Consultant, the Committee deferred the proposal for want of

additional information. The Project Proponent submitted the information vide letter dated 09.08.2021 in Parivesh as mentioned below: -

Point (i): The Project Proponent needs to submit an undertaking that 212.012 Ha of undisturbed area as per the submission made to the Ministry will remain undisturbed and even after obtaining the surface rights, agriculture practices shall continue till the area is opened up.

Reply: PP submitted that the proposed undisturbed area i.e 212.012 Ha, comprises of the existing site features and its safety barrier viz. Nalla & its safety barrier, Canal & its safety barrier, Pvt. infra. & its safety barrier, Power line & its safety barrier and Road & its safety barrier. However, an area of about 45 ha which is on the eastern side of the road, adjoining the Pvt. Infrastructure is currently not proposed to be disturbed, so that agricultural and existing activities shall continue. Hence, PP undertake to permit/allow agricultural/ongoing activities to continue in the said area 45 ha out of 212.012 ha.

Point (ii): The EMP on air quality management with equipment in place, its efficacy and cost for capital and recurring expenses to be submitted in a tabular form.

Reply: PP submitted that there are no equipments in place as it is a new limestone mining project and mining activity will commence after execution of the lease. PP submitted the breakup of the budget earmarked for EMP on air quality management shall be Rs 444.0 Lakh (Capital) & 25.0 Lakh (Recurring) which includes i) Rs 68.0 Lakh (Capital) & Rs 11.0 Lakh (Recurring) for Pollution control Equipments/arrangements, ii) Rs 326.0 Lakh (Capital) & Rs 8.0 Lakh (Recurring) for Greenbelt development/plantation and iii) Rs 50.0 Lakh (Capital) & Rs 6.0 Lakh (Recurring) for monitoring.

Point (iii): The Project Proponent needs to submit the water management plan for creation of water body of 90.705 Ha and its utilization for benefit of the agriculture and local people.

Reply: PP submitted that at conceptual stage, total mined out/excavated area will be 120.705 ha which will be reclaimed by backfilling over 30.0ha and reclaimed by plantation/re-grassing. Remaining void/excavated area of 90.705 ha, which were earlier proposed to be reclaimed as water reservoir, is now proposed to be reclaimed by carrying out plantation on first 2 upper benches over an area of 9.66 ha. About 19,500 fruit bearing trees will be planted. Now, remaining excavated area of 81.045 ha, will be converted into water reservoir. The water reservoir created, shall be properly protected

with bunds & fencing and will be developed for community use. PP will make arrangement for pumping out of stored water for villagers for agriculture. Also, distribution of Solar pumps and water pipes to the farmers will be provisioned. PP also proposes to install floating solar panels over water reservoir to generate power and also it will reduce evaporation losses as it will cover the surface of water stored in mined out pits and availability of water can be ensured for longer period of time for the locals.

Point (iv): The Capital investment of Rs 4.0 Cr to address the concerns expressed by the people in the Public Hearing which focus on capital expenditure over a period of 3 years is required.

Reply: PP submitted the 3 years action plan along with budgetary allocation on the basis of issues raised in Public Hearing.

Budgetary allocation on the basis of issues raised in Public Hearing

| S. No | Activities | Budget (Rs. In Lakh) | Physical Targets | | |
|----------|--|-------------------------|--------------------------|----------------------|----------------------|
| | | | 1 st year | 2 nd year | 3 rd year |
| A | Social Infrastructure Development | | | | |
| 1 | Improvement/refurbishment of Govt. schools like development of smart class rooms with wi-fi connectivity, Girls toilets in Schools, drinking water, sanitation, sports equipment, laboratory equipments etc) | 50 | Nahardih & Bardih | Kesla | Kharora |
| 2 | Upgradation of medical equipments such as providing extra beds, x – ray machines, ECG machines etc in existing health sub-centers | 50 | Nahardih, Bardih & Kesla | | |
| 3 | Provision of Clean drinking water in schools and Gram Panchayat / villages of Nahardih, Kharora, Kesla and Bardih etc. (RO, UV, Water Tank, Hand pump etc) (5 nos) | 25 | Kharora | Kesla | Nahardih & Bardih |
| 4 | Provision of solar lights/Fans (100 nos.) in the village streets, Anganwadi, schools and distribution of Solar lantern in villages Nahardih, Kharora, Kesla and Bardih Installation of Solar plates in | 25 | Nahardih & Bardih | Kesla | Kharora |

| | | | | | |
|----------|--|------------|-----------------------------------|--|--|
| | Schools for Power back-up | | | | |
| B | Soil & Water Conservation | | | | |
| 1 | Rejuvenation of Ponds (10 nos) | 50 | Nahardih, Kharora, Kesla & Bardih | | |
| 2 | Construction of check- dams (5 nos) | 50 | Nahardih, Kharora, Kesla & Bardih | | |
| 3 | Ground Water Recharging through Bore wells (Bhungroo/similar system) (100 nos) | 30 | Nahardih, Kharora, Kesla & Bardih | | |
| C | Skill Development | | | | |
| 1 | Setting up of skill training center (1 nos.) under the banner of Dalmia Institute of Knowledge and Skill Harnessing (DIKSHa) for training of unemployed youth common for plant and captive mines proposed in the area. Affiliation: NSDC/Chhattisgarh State Skill Dev. Mission | 90 | Village Kesla | | |
| D | COVID Center | | | | |
| 1 | Establishment of a COVID center at Village Panchayat of project villages with necessary medical equipment providing Oxygen concentrators, beds, PPE Kits, support in vaccination, one Ambulance, Awareness for COVID etc | 30 | Nahardih, Kharora, Kesla | | |
| | Total | 400 | | | |

Point (v): Since exploration is not completely done and available mineral reserves are likely to increase, clear road map for next 30 years along with tentative mining plan as per the current mining plan needs to be submitted.

Reply: PP submitted that the Kesla-II Limestone Block was explored by the Directorate of Geology and Mining, Chhattisgarh (DGM) between 2013 and 2016, based on which this block was auctioned. The entire Mining lease area is potentially mineralized. Almost the entire lease area is explored under 150 x 150 m and 200 x 200 m grid intervals, however, in some part of the lease area which have not been explored by DGM, PP proposed to carry out further exploration in these areas so that the entire lease area will be covered under G-1 level of exploration as per the Mineral Evidence Rule, 2015.

Hence, after execution of ML, within the first year PP shall drill 15 nos of boreholes up to a depth of 50 m each to establish depth persistence of limestone.

Resources blocked under various mining constraints & its safety barrier

| S. No | Barrier | Area (Ha.) | Resources (Mill.Tons) | Remarks |
|----------|--|------------|-----------------------|-------------------------|
| A | Area will not be disturbed during life of mine | | | |
| 1 | Nala-1 & 50m. Safety Barrier | 4.59 | 2.14 | Not disturbed |
| 2 | Nala-2 & 50m. Safety Barrier | 26.042 | 10.41 | Not disturbed |
| 3 | Nala-3 & 50m. Safety Barrier | 15.02 | 5.9 | Not disturbed |
| | Sub Total (A) | 45.652 | 18.45 | |
| B | Area which may be used for mining after diversion of existing structures after obtaining permission from competent Authorities. | | | |
| 1 | Canal-1 & 50m. Safety Barrier | 3.27 | 1.73 | Proposed to be diverted |
| 2 | Canal-2 & 50m. Safety Barrier | 4.57 | 4.64 | Proposed to be diverted |
| 3 | Kacha Rasta & 50m. Safety Barrier | 0.81 | 0.35 | Proposed to be diverted |
| 4 | Electric Line-1 & 50m. Safety Barrier | 17.03 | 6.25 | Proposed to be diverted |
| 5 | Electric Line-2 & 50m. Safety Barrier | 3.85 | 1.5 | Proposed to be diverted |
| 6 | Electric Line-3 & 50m. Safety Barrier | 5.97 | 2.4 | Proposed to be diverted |
| 7 | Road 50m. Safety Barrier | 21.6 | 10.78 | Proposed to be diverted |
| | Sub Total (B) | 57.1 | 27.65 | |
| C | Purchase of existing Pvt. Infrastructures/Built up area | | | |
| 1 | Gangotri mini Cement plant & 300m. Safety Barrier | 44.89 | 33.06 | Shall be purchased |
| 2 | Other Built up area (Broiler & Rice Mill, Plyboard etc.) & 300m. Safety Barrier | 64.37 | 50.12 | Shall be purchased |
| | Sub Total (C) | 109.26 | 83.18 | |
| | Grand Total (A+ B + C) | 212.012 | 129.28 | |

PP submitted that it is proposed to purchase pvt., infrastructure existing within the auctioned block area. This will release about 166 ha area for mining with a potential resources of 110.83 Million Tons and hence, the life of mine will increase beyond 50

years. Only the area under nalla and its barrier i.e. 45.652 ha will remain undisturbed till the life of mine with locked resource of 18.45 Million Tons.

Point (vi): The Committee noted that out of 357.067 Ha, Greenbelt/Plantation is proposed over an area of 43 ha, 7.5 m of peripheral planation, 6 Ha of safety zone and 30 Ha of backfilled area. Hence, the Project Proponent needs to submit the ecology restoration plan including green belt.

Reply: PP submitted that out of total ML area of 357.067ha, 42.424ha is Govt. Land & 314.643ha is Private Land. From the ecological point of view, area shall be classified as agriculture ecosystem comprising of 301.643ha agriculture land and commercial establishments on 13ha. As the mineral will be mined out, upon reaching conceptual stage, the area will be restored to the extent possible and will be reclaimed as per the Mine Closure Plan approved then by Indian Bureau of Mines as per the prevailing Rules and guidelines. As per the approved mining plan for 30 years of mining, at conceptual stage, total mined out/excavated area will be 120.705 ha (comprising of 116.705 ha agriculture land). The Eco-restoration plans proposed to be implemented at the end of life of mine are it is proposed to backfill 30 ha (28% of agri. area) area and will be reclaimed with plantation/re-grassing, plantation is proposed to be carried out on first 2 upper benches over an area of 9.66 ha. (8% of agri. area) and about 19,500 fruit bearing trees will be planted. It is proposed to carry out greenbelt/plantation on 13 ha area in various safety barrier along the nalla and 7.5 m safety zone along ML boundary during the initial years of mining by undertaking 3-tier plantation which includes the floral components viz. grasses, bushes and trees. Development of bird habitat areas will be ideal on upper benches. The embankments of the water body in upper two benches shall be planted with Local varieties of trees with good canopy, intricate branches and fruits offer good resting area for water birds and habitat for terrestrial species. Also, Acacia nilotica trees shall be planted in isolated patches/mounds, it grows well in water logged situation and provide resting sites to the birds and probably in due course of time develop into a bird nesting colony.

PP also submitted that after removal of mining constraints and proposed exploration, life of mine is expected to increase beyond 50 years than the current estimated life of 30 years at proposed capacity. At conceptual stage of 50 years i.e lease validity period, total mined out/excavated area will be 298.415 ha (comprising of 254.101 ha agriculture land). The Eco-restoration plan as described above for at the end of life of mine will be implemented in case the life increases beyond 30 years i.e 50 years/lease validity. There will not be any dump at the end of life of mine. it will temporarily stored and after 10th year it will be simultaneously backfilled. It is proposed to backfill 30 ha (12% of agri. area) area and will be reclaimed with plantation/regressing. Plantation is proposed

to be carried out on first 2 upper benches over an area of 23.42 ha. (9.2% of agri. area) and about 46,840 fruit bearing local trees will be planted. It is proposed to carry out greenbelt/plantation on 13 ha area in various safety barrier along the nalla and 7.5 m safety zone along ML boundary. 244.995 ha left out void of mining benches, will be converted into water reservoir.

Point (vii): The Project Proponent needs to submit the eco restoration plan as per the mine closure plan up to 30 years and beyond 30 years i.e. to 50 years.

Reply: PP submitted that the details are covered in Point (vi).

Point (viii): The Project Proponent shall obtain the NOC from CGWA for intersection of ground water table.

Reply: PP submitted that prior approval from CGWA will be obtained before ground water withdrawal or intersection. PP submitted the application to CGWA for obtaining NOC vide application no.– 21-4/2897/CT/MIN/2019 dated 26.09.2019. Subsequently, after processing of the application, on 02.07.2021, PP received an email communication from CGWA intimating that application has been processed and NOC will be issued after depositing the ground water abstraction/restoration charges and submitting the proof of payment to the concerned Regional office of CGWB. Accordingly, as per the instruction received, PP deposited Rs. 1,76,040/- (One Lakh Seventy thousand and forty rupees only) through Bharatkosh Portal on 08.07.2021 and communicated the same vide email dated 08.07.2021 and NOC is awaited.

22. Observation and Recommendation of the Committee:

The Proposal of Environmental Clearance was considered in the 36th EAC (Non-Coal) meeting held on 31st August and 1st September, 2021. Based on the documents submitted and presentation made by the Project Proponent and the Consultant, the Committee **recommended** the proposal for grant of Environmental Clearance of M/s Dalmia Cement (Bharat) Ltd for Proposed Kesla-II Limestone Mine with total excavation 4.0 Million TPA (Limestone: 3.0 Million TPA, Top Soil: 0.15 Million TPA, Mineral Rejects & Waste: 0.85 Million TPA) with crusher capacity of 1000 TPH in the mine lease area of 357.067 ha located in villages Nahardih, Kharora, Kesla and Bardih, Tehsil Tilda, District Raipur, Chhattisgarh subject to the following specific conditions in addition to the standard EC conditions applicable for non-coal mining projects:

- i. The total mine lease area is 357.067ha out of which, 120.705 ha will be the excavated area at the conceptual stage and 212.012 ha undisturbed area, in

which PP shall ensure that an area of about 45 ha which is on the eastern side of the road also adjoining the Pvt. Infrastructure should not be disturbed, so that agricultural and existing activities shall continue even after obtaining the surface rights, and the area under nallah and its barrier i.e. 45.652 ha will remain undisturbed till the life of mine.

- ii. The budget of Rs 4.0 Crores to address the concerns raised by the public including in the public hearing to be completed within 3 years from the date of start of mining operations.
- iii. The Project Proponent shall implement the Rehabilitation of project affected families (PAFs) and payment of compensation to PAFs as per the policy and guidelines of the Central/State Government, as provided under the law.
- iv. A safety Zone of 500 m from any dwelling or habitation will be left out as no mining area and no blasting will be conducted in this zone.
- v. The natural streams (nalas) passing through the mining lease area shall not be disturbed. Further the streams shall be protected by creation of bunds on both sides. The Project Proponent should ensure that safety barrier to be left around Nallah, Canal, Roads, Electric line and dumps should not be less than 100m on both the side.
- vi. The Project Proponent shall carry out greenbelt/plantation on the area in various safety barrier along the nalla and 7.5 m safety zone along ML boundary during the initial years of mining by undertaking 3-tier plantation which includes the floral components viz. grasses, bushes and trees. Plantation in the remaining area of undisturbed area (212.012 Ha) shall also be done and should be completed within 3 years.
- vii. Total 120.705 ha mined out/excavated area shall be reclaimed by backfilling over 30.0ha and reclaimed by plantation/re-grassing. Remaining void/excavated area of 90.705 ha shall be reclaimed by carrying out plantation with about 19,500 fruit bearing trees on first 2 upper benches over an area of 9.66 ha in order to increase the greenbelt area and to utilize the area into more productive use.
- viii. The Project Proponent should undertake the plantation with the survival of not less than 90% and casualties should be replaced with new saplings every year. Casualties replaced should be counted separately other than the total proposed saplings and the data for such saplings should be furnished during six monthly compliance report along with the progressive plantation.

- ix. Ecology Restoration Plan including green belt as submitted by Project Proponent shall be implemented.
- x. The skill development program as proposed by PP should be implemented and the trades to be selected should be such a way that it should meet the local employment demand. 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 which should be analyzed periodically and improved accordingly.
- xi. The natural water bodies and or streams which are flowing in an around the village, should not be disturbed. The Water Table should be nurtured so as not to go down below the pre-mining period. Monitoring of surface water quality in nalah as well as canals should be undertaken regularly to detect any impact on the water quality due to mining operations and take immediate steps to prevent the same through the modified EMP accordingly.
- xii. The topsoil shall temporarily be stored at earmarked site(s) only and it should not be kept unutilized for long. The topsoil shall be used for land reclamation and plantation.
- xiii. Regular surveillance on Silicosis shall be carried through regular occupational health checkup of 1/3 of the persons every year.
- xiv. DGMS Approved dust sampler should be used in mine site for monitoring of air pollutants.
- xv. The Project Proponent should obtain the NOC from CGWA before commencing mining operation.

1.3 Proposal for Environmental Clearance of Shri P. Abdul Rawoof Khan for Quartz mine over an extent of 69.474ha at Survey no. 969/A of Hatti Belagal Village, Alur mandal, Kurnool District, Andhra Pradesh – [File No: J-11015/334/2008-IA.II(M)] – Environmental Clearance (EC)

EAC Meeting Details:

| | |
|-----------------|---|
| EAC meeting | 36 th EAC Meeting |
| Date of Meeting | 31 st August & 1 st September, 2021 |

The proposal of Shri P. Abdul Rawoof Khan is for Environmental Clearance for Quartz mine for production of 50,000 TPA of quartz over an extent of 69.474ha at Survey no. 969/A of Hatti Belagal Village, Alur mandal, Kurnool District, Andhra Pradesh.

2. Project Proponent obtained Terms of Reference for undertaking EIA/EMP report on 26.09.2008 and then applied for grant of Environment Clearance. The proposal for consideration of Environment Clearance was considered in the EAC (Non Coal) Meetings held on July 26-28, 2010, 20-22 October, 2010 and 19-21 March, 2012, wherein the proposal was deferred by the Committee due to shortcomings. Project proponent vide letter dated 20.07.2012 submitted the information sought by the Committee in its meeting held on 19-21 March 2012. The proposal was again placed in the EAC (Non Coal) meeting held on 16th-18th January, 2013, wherein the Committee recommended the proposal for grant of Environment Clearance.

3. Ministry examined the proposal and noted that as per the Hon'ble High Court, AP website dated 04.04.2013 the court case was pending. Hon'ble Court vide order dated 01.09.2008 in the WP 18892/08 had directed to PP that they shall not exploit the mineral over and area of 10 Ha of land in Survey no. 969/A of Hatti Belagal village, Alur Mandal, Kunool District, Andhra Pradesh, The petition was filled by the petitioner K. Narayanappa Rao who has also applied for mining lease area which was overlapping with a recommended area of Shri Abdul Rawoof Khan hence, Ministry vide letter dated 05.04.2013 requested PP to submit the current status of the said court case. PP vide letter dated 17.04.2013 submitted the reply along with the Court order dated 01.09.2008. The case was pending before the Court as per the Court website. Ministry vide letter dated 04.06.2013 asked PP seeking the clear status of the Court case. Ministry on 04.06.2013 also requested SPCB and RO to provide the status of the Court Case. As the status was not received, Ministry sent a reminder letter on 12.09.2013 to Project Proponent and SPCB to provide the status of the Court Case. PP vide letter dated 07.10.2013 submitted the reply enclosing an affidavit dated 29.09.2012 that no subsequent order has been passed by the Hon'ble High Court.

Again Ministry vide letter dated 27.02.2014 requested to Industries & Commerce Department, Govt of AP to inform the Ministry about the present status of mining lease as well as the details of the Court case in the matter. A letter from PP in the matter was received in the Ministry on 01.05.2014. Ministry has no information about the court case, hence, a reminder was sent to Industries & Commerce Department, Govt of AP to provide the information sought in the Ministry's letter dated 22.02.2014. Ministry also requested Addl. Legal Advisor, Branch Secretariat, Bangalore to provide the information. PP submitted letter on 27.05.2016 for seeking EC and Ministry again vide letter dated 12.07.2016 and 16.01.2016 requested State Govt. to provide the current status.

PP then again on 19.05.2018 requested to Ministry to issue the EC and enclosed a letter no. 20586.M.II/2016 dated 15.03.2018 addressed to the Secretary to Government, Govt of India, Ministry of Environment Forest, New Delhi by the Secretary to Government (Mines), Industries & Commerce, AP, Secretariat, Guntur wherein inter-alia mentioned that Hon'ble High Court of Andhra Pradesh, Hyderabad on 10.11.2016 while disposing the W.P. No. 18892/2017 filed by Sri K. Narayanappa:

"...That the first respondent herein did not pass any orders on the explanation submitted by the petitioner on 27.02.2007, this court deems it appropriate to direct the first respondent therein to pass orders on the explanation submitted by the petitioner on 20.07.2007 in response to the Show Cause notice dated 02.01.2007 by fixing some time.

For the aforesaid the writ Petition is disposed of directing the first respondent State Government to pass appropriate orders on the representation dated 27.02.2007 submitted by the petitioner in response to the Show Cause notice bearing No.10400/M1(1)/2006-1, dated 02.01.2007, within a period of two months from the date of receipt of this order, after giving notice and opportunity of being heard to the petitioner and the respondents and to all the stake holders. As a sequel, pending miscellaneous petitions, if any, shall stand disposed of no costs."

Further it was also mentioned that the Govt of A.P. has disposed the revision application filed by Sri Abdul Rawoof Khan and observed that the certificate of environmental clearance is not given in view pending litigation in W.P.No. 18892/2008 filed by Shri K. Narayanappa and it is not fault of the revision petitioner. The Government set aside the revocation order issued by the DM&G to take necessary action in the mater and requested to take further necessary action on the Environmental Clearance application filed by Shri P. Abdul Rawoof Khan.

4. It was noted in the Ministry that the copy of the Order passed by the Hon'ble High Court of Andhra Pradesh, Hyderabad on 10.11.2016 is not available in the file nor PP submitted the same. Ministry vide letter dated 09.03.2020 request to PP to submit the additional information and the point-wise reply was submitted by PP vide Lr. No. Ref: PARK/MoEF/2020 dated 28.01.2021 (received in the Ministry on 2.07.2021), which is as follows:

Point 1: The industries & commerce (M.II) Department, Govt. of Andhra Pradesh informed that The Government Set aside the revocation order issued by the DM&G. Please submit the copy of executed mining lease deed.

Reply: PP submitted that the government has granted mining lease in favor of P Abdul Rawoof Khan vide G.O. Ms. No154. Ind & Com (Mines-1) Department dated 26-06-2008 however mining lease execution has not been done due to the want of

Environment Clearance letter which has to be issued by MoEF&CC, New Delhi. PP submitted the Copy of a Letter from Asst. Director of Mines & Geology, Kurnool vide Lr. No.9307/M4/2000 dated 04.08.2020 in this regard.

Point 2: List of Schedule-1 Species duly authenticated by the department of Forest/Wild life, Govt. of A.P.

Reply: PP submitted the Copy of List of Schedule-I species duly authenticated by the Department of Forest/Wild life. Govt. of A.P vide Rc.No.3109/2020-H4 D1:30.09.2020 wherein it has mentioned that no schedule 1 Species are found in the area.

Point 3: Quartz being a minor mineral please submit the copy of district survey report in pursuant to Ministry Notification No. S.O. 36116 dated: 25th July, 2018.

Reply: PP Submitted the Copy of District Survey Report dated 12.07.2018 issued by DMG, Govt. A.P.

Point 4: As per Hon'ble NGT direction Mining lease needs to be published in public domain. Therefore, it is requested to provide the KML file for uploading on Parivesh portal.

Reply: PP Submitted the Soft Copy of KML file (CD).

Point 5: Please confirm whether the mine will intersect ground water table or Ground water will be extracted for this mining project. If yes please provide proof of submission of application to CGWA in pursuant to Ministry's OM No.19-84/2019.IA.III (M) dated 23 May.2019.

Reply: PP submitted that the mine activities will not intersect the Ground water table and we will not extract the ground water for mining activities. Required quantity of water will be purchased from authorized water suppliers.

Point 6: Please submit the cluster certification in pursuant to S.O.2269 (E) dated 01.07.2016 and confirmation from Department of Mines & Geology that mine is not in operation and no mining has been carried out till the date of issuance of this letter.

Reply: PP Submitted the copy of Cluster certificate issued by ADMG, Kurnool, Govt. of A.P. vide Lr.No.9307/M4/2000 Dated: 04.08.2020.

5. The matter was then examined in the Ministry and following was observed:

- I. The project was recommended in the year 2013, as this is the instant case is for grant of EC after 8 years of recommendation. From 2013 onwards, as the EIA, 2006 notification has been amended from time to time and also many judgement

has been passed by the Hon'ble Courts, hence proposal needs fresh revisit by the EAC, as a special agenda before grant of EC.

- II. Baseline data was collected from April, 2008 to June, 2008. Almost 13 years passed. The project proponent needs to carry out the fresh baseline data for one-month period (non-monsoon season) and needs to compare the current baseline data with the previous baseline data. If any changes exist, then detailed mitigation measures needs to be provided.
 - III. Public hearing was conducted on 21.07.2009 and 12 years has been passed, now many changes may be occurred, EAC may asked about public consultation.
 - IV. In case of minor minerals, District Survey Report (DSR) is mandatory as per Ministry's notification S.O 3611 (E) dated 25th July, 2018.
 - V. Due to the change in infrastructure and transportation patterns the impact of the changed either increased or decreased need to be examined.
6. In view of the above, it was decided in the Ministry that Proposal needs revisit by EAC and accordingly, the proposal was placed in the 36th EAC Meeting held on 31st August and 1st September, 2021.

7. Observation and Recommendation of the Committee:

The Proposal of Environmental Clearance was considered in the 36th EAC meeting held on 31st August and 1st September, 2021, wherein the Member Secretary informed the Committee that the instant proposal is not available in PARIVESH Portal and PP has not submitted any information/copy of presentation for the EAC meeting, also PP did not attend the meeting. The Member Secretary made efforts to contact the PP through e-mail but no response was received, attempt was also made to contact through telephone on the Contact Number provided in the letter dated 28.01.2021. But it was found incorrect as only 9 digits were mentioned. However, the Committee appraised the project and was of the view that as the proposal was earlier appraised way back in 2013 and the baseline data is very old, hence the proposal needs a revisit to access the current environmental scenario of the project area and accordingly impact due to mining activities. The Committee therefore **deferred** the proposal and was of the view that proposal may be considered after the submission of the following information by the PP:

- i. The Project Proponent should prepare the environmental status report generating fresh 3 months base line data through actual monitoring at the core and buffer zone of the project area. PP shall submit the revised EIA/EMP report.
- ii. The Project Proponent needs to submit the certified District Survey Report as per Ministry's Notification S.O. 3611(E) dated 25.07.2018.

- iii. The Project Proponent should collect the concerns of the public as a part of the EIA/EMP report and submit the actionable and monitorable plan through separate budget with proper capital and recurring cost with the time line of 3 years.

1.4 Proposal for amendment in Environmental Clearance for change in mining lease area from 2486.383 ha to 2564.323 ha on account of amalgamation of two contiguous mining leases without change in production capacity of M/s SAIL for Barsua-Taldih-Kalta Iron Ore Mining Project located at Tantra & Bahamba Villages and Toda R.F, Tahasil Koira under Bonai Subdivision of Sundargarh District, Odisha – [File No. J-11015/351/2006-IA.II(M); Proposal No. IA/OR/MIN/216764/2021, Consultant: MECON Limited] – EC under para 7(ii) of EIA Notification 2006

EAC Meeting Details:

| | |
|-----------------|---|
| EAC meeting | 36 th EAC Meeting |
| Date of Meeting | 31 st August & 1 st September, 2021 |

The proposal of M/s SAIL is for amendment in Environmental Clearance under para 7(ii) of EIA Notification 2006 for change in mining lease area from 2486.383 ha to 2564.323 ha on account of amalgamation of two contiguous mining leases without change in production capacity for Barsua-Taldih-Kalta Iron Ore Mining Project located at Tantra & Bahamba Villages and Toda R.F, Tahasil Koira under Bonai Subdivision of Sundargarh District, Odisha. The mine lease area is located between Latitude 21°49' 25.43880" N to 21°59'50.88516" N and Longitude 85°07'43.73832" E to 85°13' 53.48136" E. The mine lease area falls under the Survey of India Topo sheet No: 73G/1 (F45N1) and falls in Seismic Zone-II.

2. M/s SAIL has made an online application vide IA/OR/MIN/216764/2021 dated 26.06.2021 and submitted updated Form1 under para 7(ii) of the provisions of the EIA Notification, 2006 for the project mentioned above. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals under Category "A" of the schedule of the EIA Notification, 2006 and appraised at the Central level. The mine lease area is also located at a distance of ~0.3 km, N from Odisha-Jharkhand inter-state boundary.

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

- a) Initially, Integrated Environmental Clearance obtained vide letter No. J-11015/351/2006-IA.II(M) dated 29.10.2010 for Barsua-Taldih-Kalta Iron Ore Mining (ML-130), Beneficiation and Pelletisation plant project of M/s Steel Authority of India Limited for an annual production capacity of 8.05 million tonnes of iron ore by the opencast mechanized method along with setting up of a

beneficiation plant of 4.25 million TPA (in additional to existing plant of 2.5 million TPA) and setting up of a pelletisation plant of 2.0 million TPA capacity involving total mine lease area of 2486.391 ha.

- b) Amendment in Environmental Clearance obtained vide F. No.J-11015/351/2006-IA.II(M) (pt.) dated 30.03.2016 for the following: -
- i. Temporary permission to change iron ore production (ROM) from three blocks viz. Barsua, Talidh and Kalta in ML-130 lease from 2.5, 4.25 and 1.3 million TPA to 3.5, 2.05 and 2.5 million TPA respectively, keeping the total iron ore (ROM) production restricted to 8.05 million TPA as specified in the earlier environment Clearance.
 - ii. Permission to operate existing beneficiation plant at the rate 4.5 million TPA instead of 2.5 million TPA.
 - iii. Permission for road transportation of part of iron ore (ROM) from Talidh block to the Barsua Valley (about 11kms.) and to the Barsua beneficiation plant for a period of five years till facilities viz. crushing plant, LDBC are erected and commissioned for the Taldih block.
 - iv. To replace 'outside mine lease area' with 'ML-162 lease and acquired area' in environmental clearance, in order to utilize the infrastructure facilities for processing of iron ore produced from ML-130 lease.
 - v. To modify the total lease area of ML-130 lease from 2486.391 to 2486.383 ha as per the joint survey committee report (DGPS survey report) of Govt. of Odisha and the lease deed executed by and between the Govt. of Odisha and SAIL on 13th November, 2014.

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

- c) Again, the Environmental Clearance amended vide F.No. J-11015/351/2006-IA.II (M) dated 03.07.2020 with corrigendum dated 13.07.2020 for change in excavation & dispatch pattern with provisions for excavation & dispatch of tailings from Tailing Pond of Barsua and subgrade dump fines iron ore fines for selling in open market keeping the total production within 8.05 MTPA under para 7(ii) of EIA Notification, 2006. Further, validity of redistribution of production as per the EC amendment dated 30.03.2016 were further extended by two more years i.e., till 31.03.2023.
- d) Further, EC has been amended vide F.No. J-11015/351/2006- IA.II (M) dated 17.03.2021 for re-distribution of iron ore production from Kalta Block and Taldih Block keeping the total production within the EC Capacity of 8.05 MTPA (Barsua: 3.5 MTPA, Taldih : 1.35 MTPA and Kalta : 3.20 MTPA).

4. The proposal was earlier placed in the 33rd EAC Meeting held during 13th to 16th July 2021 wherein the Committee observed that as per EIA Notification 2006 there will be due diligence necessary including preparation of EIA and public consultation and the application shall be appraised accordingly for grant of environmental clearance under para 7(ii) of EIA Notification 2006. Therefore, the Committee deferred the proposal for want of additional information. PP submitted the information vide Lr Ref. No: CGM/BIM-TIM/123 dated 18.08.2021 as mentioned below:

Point (i): The Project Proponent should submit the current environmental status, current practices followed during mining which includes extraction of mineral, dumping of mineral, tailing ponds, processing plants and its ultimate disposal covering both ML – 130 (2486.383 ha) and ML – 162 (77.94 ha) with EIA/EMP report.

Reply: PP submitted that current environmental status has been studied on the basis of baseline environmental data generated during March – May, 2021.

Extraction of Mineral: PP submitted that Barsua-Taldih-Kalta mine is divided into three blocks namely Barsua (operational since 1960), Kalta (operational since 1966) and Taldih (operational since Nov., 2016). Mining is carried out by conventional open cast mining involving drilling, blasting and excavation of ore & waste by shovel dumper combination. The present total mine capacity of 8.05 MTPA (Barsua - 3.5 MTPA, Kalta – 3.2 MTPA, Taldih – 1.35 MTPA). The ore from Barsua Mine is beneficiated and moved by covered conveyors to the railway wagon loading facilities in Barsua Valley. At Taldih Mine, ROM ore is crushed, screened and dispatched by trucks through public roads to the railway the railway wagon loading facilities in Barsua Valley. At Kalta Mine, ROM is crushed & screened before being dispatched by trucks through NH-520 to Roxy Railway Siding.

Dumping of Mineral: PP submitted that at all three mining blocks, overburden and sub-grade ore are dumped externally in dedicated areas within the lease & portion of OB at Barsua Mine is used for backfilling. Tailings from the mineral beneficiation process are dumped in an engineered tailings pond. EC has been accorded vide MoEFCC's EC Amendment letter no. J-11015/351/2006-IA.II (M) dated 3rd July, 2020 with corrigendum dated 13th July, 2020 for excavation and sale of 0.5 MTPA accumulated sub-grade ore each from Taldih and Kalta Blocks and for excavation and sale of 1 MTPA of tailings.

Tailing pond: PP submitted that Barsua Tailings pond is spread over 35.88 ha of which 3.95 ha is located within the mine lease (ML-162) and the balance 31.93 ha is located outside the lease area in acquired land by SAIL adjoining to amalgamated lease at Barsua Valley. The ore from Barsua Block is processed at Beneficiation Plant which is

operating @ 3.5 MTPA. About 2.1 Mm³ (or around 4.1 million tonnes) of tailing is stored in the pond. Subsequent to grant of EC amendment for excavation & dispatch of tailings from the Barsua tailings Pond, so far about 4.5 lakh tonnes of tailings has been evacuated from the tailings pond and sold in the open market since December 2020. A regular evacuation of tailings from the tailings Pond shall continue @ 0.5 to 1 MTPA, which will create space for storage of freshly generated tailings.

Processing Plant: PP also submitted that the ore is beneficiated through both dry circuit as well as wet circuit. Barsua ore beneficiation plant is divided into three separate sections viz crushing plant, washing plant and dry screening plant having capacity of 3.5 MTPA. The crushing plant consists of two lines with rated capacity of 700 TPH each. One line is normally used for Direct Ore (DO) and the second line for Beneficiable Ore (BO). At Taldih mine, ROM ore is processed through two nos. of 300 tonnes per hour (TPH) mobile Screening Plants and two nos. of 300 TPH mobile Crushing & Screening Plants. The processed ore is dispatched by trucks through public roads to the railway the railway wagon loading facilities in Barsua Valley. At Kalta Mine, ROM ore is processed through two nos. of 300 tonnes per hour (TPH) mobile Screening and two nos. of 300 TPH mobile Crushing & Screening Plants. Part of the ore at Kalta Mine is also produced through manual sizing and sorting. The processed ore is dispatched by trucks through NH-520 to Roxy Railway Siding.

Point (ii): The Project Proponent needs to submit the status of beneficiation plant within the lease area and details of EC for beneficiation plant if any.

Reply: PP submitted that Barsua Ore Beneficiation Plant processes ore from Barsua Block of Barsua-Taldih-Kalta Mines. Presently the Beneficiation Plant is operating @ 3.5 MTPA. The existing beneficiation plant of Barsua is spread over ML – 130, ML – 162 and Acquired Land. Crushing & Washing Plants are located in ML – 130. Jigging plant, downhill conveyors, Thickeners, etc, are located in ML – 162. The dry screening plant, ore stock piles, Railway Siding etc. are located in the acquired land. SAIL's Barsua-Taldih-Kalta Iron Mines had received Environmental Clearance (EC) from Ministry of Environment and Forests (MoEF) vide their letter no. J-11015/351/2006- IA.II (M) dated 29th October, 2010 for increase of total production to 8.05 MTPA (2.5 MTPA from Barsua + 4.25 MTPA from Taldih + 1.3 MTPA from Kalta), enhancement of beneficiation capacity from 2.5 MTPA to 6.75 MTPA, *setting up new 2 MTPA Pellet Plant and additional material handling facilities to handle higher increased production. On page 2 under Para 2 of EC grant order, it is stated that the "There is an existing beneficiation plant having a capacity of 2.5 million TPA within the mine lease having an area of 7 ha and 50 ha outside the mine lease (total area of 57 ha). In addition, the new beneficiation plant with a capacity of 4.25 million TPA will be setup in an area of 83 ha, out of which 50 ha will be within the mine lease and 33 ha, outside mine lease. The*

pelletisation plant also be outside the mine lease. The tailing pond is located outside the mine lease in Barsua Valley in an area of 35.88ha”.

PP also submitted that the EC was amended vide MoEFCC’s letter no. J-11015/351/2006-IA.II(M) dated 30th March, 2016 for Integrated Barsua-Taldih-Kalta iron ore mining (ML-130 lease), Beneficiation and Pelletisation plant for the following:

- i. Permission to operate of the Beneficiation plant at the rate of 4.5 MTPA instead of 2.5 MTPA
- ii. To replace 'outside mine lease area' with 'ML- 162 lease and acquired area' in environment clearance, in order to utilize the infrastructure facilities for processing of iron ore produced from ML-130 lease.

Further, PP submitted that the EC was amended vide MoEFCC’s letter no. J-11015/351/2006-IA.II (M) dated 3rd July, 2020 with corrigendum dated 13th July, 2020 for changing the production from Barsua Block to 3.5 MTPA. As per the latest EC Amendment accorded vide MoEFCC’s letter no. J-11015/351/2006-IA.II (M) dated 17th March, 2021 this has remained unchanged i.e. Barsua Beneficiation Plant is operating @ 3.5 MTPA.

Point (iii): The Project Proponent must include current baseline data and the recent Public concerns.

Reply: PP submitted that Addendum to EIA/EMP Report has been prepared on basis of Baseline Environmental Data generated by Env. Engg. Laboratory, MECON during March – May, 2021 covering Micro-meteorology (1 location close to ML Area), Ambient Air Quality (8 locations incl. 1 Core Zone village), Work Zone Air Quality (12 locations), Ambient Noise Levels (10 locations), Work Zone Noise Levels (12 locations), Water Quality (8 surface water locations & 8 ground water locations), Traffic Density and People’s opinion regarding the project.

Micro-meteorology, AAQ & Work Zone Air Quality: PP submitted that Micro-Meteorological station was set up at Tensa Guest house (lat. 21°52'13.32"N long. 85° 9'59.40"E) to generate meteorological data during Summer season, 2021. The meteorological data was generated hourly during the monitoring period from March to May 2021. The predominant wind direction blowing from South-West (prevailing for ~24.8% of the time) and South-East ((prevailing for ~11.9% of the time) and predominant wind speeds were mostly in the range of 0.44 – 2.0 m/s. PP submitted that the maximum PM₁₀ values ranged from 89 to 95 µg/m³ and PM_{2.5} values ranged from 47 to 56 µg/m³ at the monitored eight locations which were well within the limits. The maximum SO₂ concentrations in the eight (8) AAQ stations in the study area ranged

from 13.6 to 19.7 $\mu\text{g}/\text{m}^3$ and the maximum NO_2 concentrations varies from 18.5 to 28.6 $\mu\text{g}/\text{m}^3$. The low values of SO_2 and NO_2 concentration are found in A5 (Taldihi village) and A2 (Jhirpanivillage) while comparatively high concentrations are found at A6, A7, A8 & A1 for SO_2 concentration and A7, A1, A6 & A8 for NO_2 concentration. The above results indicate that air quality is within the norms at all the eight monitoring locations in the study area for all parameters (PM_{10} , $\text{PM}_{2.5}$, SO_2 , NO_2 , CO, NH_3 , O_3 , Pb, As and Ni) as prescribed by NAAQS 2009. All values of Benzo(a)Pyrene (BaP) in PM_{10} in ambient air were found below the detection limits of measurement. The maximum predicted GLCs due to proposed changed are limited to 34.9 $\mu\text{g}/\text{m}^3$, 7.5 $\mu\text{g}/\text{m}^3$, 1.9 $\mu\text{g}/\text{m}^3$ and 14.5 $\mu\text{g}/\text{m}^3$ for PM_{10} , $\text{PM}_{2.5}$, SO_2 and NO_x respectively over roads. SPM values in all the twelve locations are well within the prescribed limits as per MoEF Notification No. GSR 809(E) dt.04.10.2010 for iron ore mining and processing. The SPM values are high at F12 Crushing & Screening Area (KIM), F8 Excavation Area (TIM) and F4 Dump Area (BIM) among the individual fugitive emissions from each mine.

Ambient Noise level & Work zone Noise level: PP submitted that among the ten locations, the location N9 (Barsua Mine office) falls under “Industrial area” and the remaining locations are “Residential areas”. The max day ambient noise levels at all the residential locations were in the range of 52.5 to 55.0 dB, while the night max. ambient noise levels ranged from 41.1 to 45.0dB(A).The max day noise levels at N9 is 68.9dB(A) and max night noise levels is 55.6 dB(A). Comparatively noise values at N2 (Torha village),N7 (Tantra Village outside boundary wall), N4 (Kamandu Village) and N5 (Tensa township) were high in comparison to the other residential locations as they are near busy roads. The ambient noise levels at all the nine residential locations and one industrial area is well within the norms. The work zone noise results have been compared with Occupational Safety and Health Administration standards (OSHA) and as per MoEF standard for 8 hr exposure is 90 dB (A). The noise levels at all the locations were well within the norms.

Water Quality: PP submitted that the surface water samples have collected from the upstream and downstream of rivers and nallahs flowing near the mine areas of Barusa, Taldih and Kalta. pH of water samples is in the range of 7.02 to 7.39. DO varied from 4.4 to 6.9 mg/l. Total coliform results of SW1, SW3, SW7 & SW8 samples are above 500 MPN/100 ml which makes these surface water quality fall under Class C i.e. surface water which can be used as drinking water source after conventional treatment and disinfection. The rest of the surface water samples SW2, SW4, SW5 & SW6 is suitable can be used for outdoor bathing (organised) (i.e. Class B) as the Total coliform concentrations are less than 500 MPN/ 100 ml. PP also submitted that the ground water quality parameters analyzed to assess the ground water quality in study area meets the prescribed norms except some values of Manganese in GW4 (Sarkunda Village) & GW6 (Barsua township).

Soil Quality: PP submitted that the soil pH ranged from 4.62–5.94, indicating acidic nature of the soil. In the tested soil samples, most of the nutrients are available in low to high concentration ranges. Available Phosphorus levels are found to be in “Low” in all samples. Organic carbon was found to be “High” in S1 to S5 soil samples and the soil samples S6, S7 & S8 collected near the dump/ over burden of mines areas showed high, medium and low concentration. Available Nitrogen levels are found to be “Medium” to “High”. Availability of Potassium is found to be “high” (S1, S3 & S6), “medium” (S2, S4, S5 & S7) and low in S8.

Traffic Density: PP submitted that the Traffic volume survey was recorded hourly continuously for 7 days at 4 (four) locations from 16th March to 22nd March 2021. At present the traffic volumes at TDS1, TDS2, TDS3 and TDS4 are within the respective Recommended Design Service Volumes.

People’s Opinion: PP submitted that an opinion poll was carried out during June, 2021 to get an idea about local people’s perception regarding Barsua-Taldih-Kalta Mines of SAIL. 74.5% of respondents have identified creation of employment opportunity as the main advantage. People are hopeful of getting employment in the vicinity of the Barsuan-Taldih-Kalta Mines. About 78.2 % of the respondents are expecting improvement in business. About 72.7% of respondents are expecting that the educational facility will improve around the study area. Around 81.8% of the respondents feel improvement in peripheral development activities and about 25.5 % of the respondents are apprehensive about health problems due to environmental pollution. During the survey local people pointed out that in view of the prevailing Covid-19 pandemic students are forced to attend classes online. Due to poor internet connectivity in the region children are unable to attend such on-line classes properly. Local people expect that the PP should arrange to improve internet connectivity in the region.

Point (iv): The Project Proponent submitted that out of 2564.323 ha, 2425.613 ha Forest Land (Toda R.F.) and 138.710 ha Non-Forest Land. PP obtained Stage-II FC for 2341.931 Ha vide letter dated 06.03.2013 and for 77.94 ha for development of mining infrastructure vide letter dated 23.10.2017. PP needs to submit the status of remaining forest land of 5.742 ha and submit the copy of Forest Clearances obtained.

Reply: PP submitted that 5.742 ha of Forest Land, which was part of ML – 130, is under occupation of the local Schedule Tribe & Other Traditional Forest Dwellers in Village Tantra. Their individual rights have been recognized by granting pattas under Forest Right Act., 2006. Stage-II forest clearance for diversion of forest land over 2341.931 ha in ML – 130 was granted by MoEFCC vide F. No. 8-90/2011-FC (pt), dated 06.03.2013.

MoEFCC vide order No. F.No.8-18/2014-FC dated 23.10.2017 granted Stage-II FC for diversion of entire 77.94 ha of forest land under ML – 162 for development of mining infrastructure. Hence, Stage – II forest clearance over 2419.871 has been obtained covering under the amalgamated lease.

5. The Project Proponent submitted that The Barsua Iron Mine (Southern part) and Kalta Iron Mine (Northern part) are in operation since 1960 and 1966 respectively. The Taldih Iron Mine (Middle part) has started production in the year 2016. There were two contiguous mining leases namely ML – 130 (main iron ore mining lease) and ML – 162 (for infrastructure) under the Barsua – Taldih – Kalta Iron Mines.

The Mining Lease for ML- 130 (2486.383 ha) was granted on 06.01.1960 for a period of 30 years and subsequently it has renewed & lease deed for the 2nd Renewal Period has been executed on 13.11.2014 having validity up to 05.01.2030. The associated infrastructure facilities of Barsua Iron Mine are located in another adjoining mining lease viz ML – 162 (77.94 ha), which was granted on 29.04.1960 and subsequently it has also been renewed as well as extended the lease period up to 28.04.2030 and supplementary lease deed was executed on 24.09.2016.

6. The Project Proponent applied for amendment in EC under para 7(ii) of EIA Notification, 2006 for change in mining lease area from 2486.383 ha to 2564.323 ha on account of amalgamation of two contiguous mining leases without change in production capacity and submitted the following; -

- i. Govt. of Odisha vide proceeding No. IV(B)SM-03/2020/10418/SM, Bhubaneswar, Dtd. 02.12.2020 amalgamated the contiguous Mining Leases viz ML – 130 (2486.383 ha) and ML – 162 (77.94 ha) covering total area of 2564.323 ha.
- ii. Amalgamated lease deed over an area of 2564.323 ha executed on 30.03.2021 and validity period of the amalgamated mining lease to be co-terminus with the lease whose period will expire first i.e 05.01.2030.
- iii. Modification of Mining Plan along with Progressive Mine Closure Plan for the amalgamated lease area of 2564.323 ha with 16 MTPA expansion capacity from Barsua-Taldih-Kalta Iron mines for the period of 2021-22 to 2024-25 approved by Indian Bureau of Mines, Bhubaneswar vide letter No. MP/A/39-ORI/BHU/2020-21 dated 01.04.2021.

PP also submitted that as there is no change in production as well as mode of evacuation & dispatch from Barsua – Taldih – Kalta Mines under the present proposal, possibility of any change in pollution load does not arise.

7. The Project Proponent submitted the past production details for the period 1993-94 to 2018-19 duly authenticated by Deputy Director of Mines, Koira vide Lr. No. 6522/Mines dated 13.12.2019. PP reported that subsequent to the judgment of Apex Court dated 02.08.2017 the Government of Odisha has issued demand notice to Barsua Kalta Mines for payment of compensation towards excess production on or before 31st December, 2017 against EC / CTO capacity. Dy. Director of Mines (DDM), Koira vide letter dated 02.09.2017 issued a demand notice for payment of Rs. 66,89,42,779.5 /- in respect of Barsua / Kalta Iron Mines to recover price of mineral produced without/beyond EC alone under Section 21 (5) of MMDR Act, 1957. The said amount was deposited on 29.12.2017 under protest. Further, letter No.5962/Mines dtd 24.10.2017 of DDM, Koira has directed to pay compensation of Rs.90,19,71,684.40 /- for mining in excess of the permissible limit under the Consent to Operate. Against the above stated demands, SAIL had filed a Writ Petition bearing WP (C) No- 24282/2017 in High Court of Odisha, Cuttack. The matter was heard and Hon'ble High Court had passed the stay order on 04.04.2018 & matter is sub-judice. PP also submitted the affidavit dated 20.04.2020 that Barsua-Taldih-Kalta Iron Ore Mine (ML-130, Mining Lease: 2486.383 Ha) of SAIL shall comply with all the statutory requirement & judgment of Hon'ble Supreme Court dated 2nd August 2017 in writ Petition (civil) No. 114 of 2014 in the matter of common cause versus Union of India & Ors subject to the result of the pending writ petitions before Hon'ble High Court of Odisha and further appeals thereto if need arises.

8. Observation of the Committee:

The Proposal of amendment in Environmental Clearance was considered in the 36th EAC meeting held during 31st August and 1st September, 2021. Based on the documents submitted and presentation made by the Project Proponent and the Consultant, the Committee noted that the proposal is for amalgamation of two leases for which already EC has been granted and project also includes beneficiation plant which comes under the category 2(b) Mineral beneficiation as per the Schedule of the EIA Notification, 2006 as amended time to time. PP in the instant proposal has submitted Form-II for category 1(a) Mining of minerals only. The Committee therefore **returned the proposal in present form** and was of the view that PP should submit the complete application for the both the category 1(a) Mining of minerals & 2(b) Mineral beneficiation along with the followings:

- i. The Project Proponent needs to clarify whether the mines has been operating after amalgamation of lease on 02.12.2020 without amendment in EC.

- ii. The Project Proponent submitted the EC compliance report certified on 17.12.2019. Hence, PP needs to submit the latest Certified EC compliance report.

1.5 Proposal for amendment in Environmental Clearance of M/s SAIL for allowing dispatch of 0.8 MTPA iron ore through road maximum up to Antagarh and subsequently by rail to Bhilai Steel Plant for Rowghat Iron Ore mine-Deposit F [ML area 2028.797ha (883.22 ha for which forests clearance (Stage-I) for diversion of forest land has been accorded) and production capacity 14 million TPA] in Matla Reserve Forests, in Narainpur and Kanker District, Chattisgarh - [File No: J-11015/331/2006- IA.II(M), Proposal No: IA/CG/MIN/223248/2021, Consultant: MECON Limited] – EC under para 7(ii) of EIA Notification, 2006

EAC Meeting Details:

| | |
|-----------------|---|
| EAC meeting | 36 th EAC Meeting |
| Date of Meeting | 31 st August & 1 st September, 2021 |

The proposal of M/s SAIL is for amendment in Environmental Clearance for allowing dispatch of 0.8 MTPA iron ore through road maximum up to Antagarh and subsequently by rail to Bhilai Steel Plant for Rowghat Iron Ore mine-Deposit F (ML area 2028.797ha (883.22 ha for which forests clearance (Stage-I) for diversion of forest land has been accorded) and production capacity 14 million TPA) in Matla Reserve Forests, in Narainpur and Kanker District, Chattisgarh. The mine lease area is located between Latitude: 19^o45"20' to 19^o51"20' N and Longitude: 81^o08'22.5" to 81^o12'27.7" E. The mine lease area falls under the Survey of India Toposheet No: E44D1 and falls in Seismic Zone-II.

2. M/s SAIL has made an online application vide IA/CG/MIN/223248/2021 dated 11.08.2021 and submitted updated Form1 under para 7(ii) of the provisions of the EIA Notification, 2006 for the project mentioned above. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals under Category "A" of the schedule of the EIA Notification, 2006 and appraised at the Central level.

3. The Project Proponent initially obtained Environmental Clearance vide letter no J-11015/331/2006-IA.II(M) dated 4th June, 2009 for production of 14 MTPA of iron ore for mining over a lease area of 883.22 ha for which forests clearance (Stage-I) for diversion of forest land has been accorded, under the provisions of EIA, Notification dated September 14, 2006. Then, PP obtained amendment in EC on 15.03.2010 wherein the additional specific conditions were imposed. Further, PP obtained amendment in EC on 08.06.2017 w.r.t transportation of 0.3 million TPA of ore from Rowghat M.L to 'Keonti' by road and further onwards to Dalli Raihara/Bhilai through rail till 2021.

4. The Project Proponent submitted that after resolving issue of security and forest tree cutting, mining operation (production and dispatch) started on 05.02.2021 and it is expected that by Oct-21, BSP can start the mining operations with full production capacity of 0.3 MTPA. Since the last EC amendment, the railway line has been extended from Keonti to Antagarh (~17 km patch) and construction of another ~11 km to 17 km long Antagarh–Bondanar-Tadoki section is at an advanced stage. It is expected that the Bondanar and Tadoki station will be commissioned by mid-2022 and mid-2023 respectively. Construction of the rail link up to Rowghat is expected to be completed by December, 2025. Track Laying is completed till Godbinapal (65 Km). BSP is in discussions with Railways to develop a temporary loading siding at Godbinapal (65 Km) or any other suitable enroute site with a view to reduce the road transport distance. Under the prevailing situation, PP requested for amendment in environmental clearance for the following: -

- i. For increase in transportation capacity of iron ore up to 0.8 Million Tonne Per Annum by road up to Antagarh and subsequently by rail to Bhilai for period up to Dec-2025
- ii. Once the railway line from Antagarh up to Bondanar and then Tadoki is commissioned, allowing despatch of 0.8 MTPA of iron ore by road up to Bondanar/ Tadoki or loading siding nearest to Rowghat and subsequently by rail to Bhilai.

5. The Project Proponent submitted that lease deed was executed vide Ref Kramank/Jila Kosha/Stamp/1091/2009 dated 21.10.2009 for the period of 20 years i.e., from 21.10.2009 to 20.10.2029. PP also submitted that Mining Plan including Progressive Mine Closure Plan in respect of Rowghat Iron Ore Deposit over an area of 2028.797 ha approved by IBM vide letter No. No. 314(3)/2006-MCCM(CZ)/MP-27 dated 22.03.2007 and latest review of mining plan along with the Progressive mine closure plan for the period 2019-20 to 2023-24 approved by IBM vide letter no नारायणपुर/लौह/खयो-1179/2018-रायपुर/1244 dated 06.12.2018 over an area of 2028.797 ha.

6. The Project Proponent submitted that there is no change in the method of mining. Mining is being carried out by conventional open cast Top Slicing mining involving drilling, blasting & handling of excavated mineral and waste by shovel dumper combination. The excavated mineral is processed in crushing & screening plant before being dispatched by trucks to the railway siding(s). A ~6.75 km long concrete road has already been constructed from the mine to SH-5 which leads to the railway siding(s). Waste is dumped externally in designated areas within the lease. Once the rail link up to Rowghat is commissioned, dispatches through rail shall be started from Rowghat itself with production levels of 14 MTPA and road despatch of ore to external sidings will be phased out.

7. The Project Proponent submitted the Addendum EIA/EMP report based on the baseline environmental data generated for one month during February, 2021 for micro-meteorological conditions, ambient air quality, noise levels, water quality, soil quality and Traffic density. PP also submitted that Rowghat Mine commenced operation only on 5th Feb., 2021.

Micro meteorology: A micro-meteorological monitoring station was set up at Narayanpur. Wind speed & direction, air temperature and relative humidity were recorded at hourly intervals continuously throughout February, 2021. PP submitted that wind was mostly blowing from South (S), North (N), and North East (NE). The predominant wind speeds were mostly in the range of 0.4 m/s– 2.0 m/s.

Ambient Air Quality (AAQ): PP reported that the Ambient Air Quality (AAQ) was monitored at 9 locations. The PM₁₀ values ranged from 62 to 90 µg/m³, PM_{2.5} values from 34 to 56 µg/m³, NO₂ concentration at the monitoring locations varies from 20.7 to 31.1 µg/m³ and SO₂ concentration ranged from 13.7 to 21.2 µg/m³ which are well within the limits of NAAQS. The estimated values of maximum Ground level concentrations are concentrated in and around the fines excavation & loading area and the transportation route. There may be marginal increases along the transportation route only. No impacts are anticipated in residential areas which are at a distance. The maximum additional predicted GLCs are limited to 13.96 µg/m³, 3.12 µg/m³, 0.57 µg/m³ and 4.26 µg/m³ for PM₁₀, PM_{2.5}, SO₂ and NO_x respectively at nearby receptors. Free silica has been analysed in Respirable Dust (PM₁₀) in three samples at each location and results were well below the detection limit in A1, A2, A3 and A9 and in rest of the locations the concentration were insignificant with range of 0.001 to 0.006 µg/m³.

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

Water quality: PP submitted that a total of ten (10) water-sampling locations were selected for the present study covering five (5) surface water and five (5) ground water. There is no trend in most of the parameters as the results are below the detection limits. The pH of the surface water samples are neutral with dissolved oxygen vary from 6.1 to 6.8 mg/l. Total Coliform organisms, in SW1 (Devijharia Nallah) and SW5 (Mendaki River D/S of mine lease) are 580 and 540 MPN/100ml respectively and when compared to the CPCB norm for surface water they fall under Class C (Drinking water source after conventional treatment and after disinfection) and rest of the samples SW2, SW3 and SW4 fall in Class B (Drinking water source after conventional treatment and after disinfection). PP reported that the pH of the ground water samples is neutral in the range of 7.35 to 7.75. Ground water samples collected are clear and the turbidity of the all samples are less the detection limit except of GW3 (Hand Pump at Vill. Bheisgaon) with 0.63 NTU. Total dissolved solids (TDS), total hardness and total alkalinity is found to high in GW4 among the other samples with 347 mg/l and 160 mg/l respectively. The concentrations of metals in ground water samples are found well within the norms but the concentrations of Al in GW3 is 0.238 mg/l and Mn concentration in GW4 is 0.335 mg/l has marginally exceeded the norm of 0.2 and 0.3 mg/l respectively.

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

Traffic Density: Traffic Density was studied on the proposed haul routes at 3 locations at hourly intervals continuously for 7 days from 16th – 22nd Feb., 2021 at TD-1: SH-5 near Dandakvan Security Camp TD-2: SH-5 at Tadoki and TD-3: SH-5 just before approach road to Antagarh Railway Siding. 0.8 MTPA ore will be dispatched from SAIL's Rowghat Mine by road initially up to Antagarh Rly Siding (haulage distance ~58

km). The haulage includes ~10 km of concrete road constructed from the mine to SH-5. Present maximum traffic volume on SH-5 near Dandakvan Security Camp is ~1450 Passenger Car Units (PCUs) per day i.e. within the Suggested Design Service Volume. Just beyond Tadoki, the maximum traffic is ~3090 PCUs /day whereas near Antagarh just before the diversion leading to Antagarh siding the maximum traffic is ~4340 PCUs /day. Thus the present traffic volume on this stretch of SH-5 is within the threshold limits for intermediatlane roads. The max cumulative AAQ values among all receptors are expected to be ~102 $\mu\text{g}/\text{m}^3$, ~59 $\mu\text{g}/\text{m}^3$, ~21.7 $\mu\text{g}/\text{m}^3$ and 35.1 $\mu\text{g}/\text{m}^3$ for PM₁₀, PM_{2.5}, SO₂ and NO_x respectively without management measures. With stringent management measures in place actual increase in ground level concentration of pollutants, especially PM10 & PM2.5, will be less than the predicted values.

8. The Project Proponent submitted that the entire mine lease area of 2028.797 ha is Forest Land. PP obtained Stage II Forest Clearance for diversion of 883.22 ha forest land vide letter no. F.No.8-44/2005-FC (Pt), dated 3rd Aug., 2009. Mining and allied activities will be confined to the diverted area. The mine is divided into seven blocks. In the initial phase three blocks will be mined. The other blocks will be mined in the 2nd phase.

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

10. The Project Proponent submitted that WP (Civil) no. 795/2021 is pending in Hon'ble High Court of Chhattisgarh to quash the EC amendment.

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

The Proposal of amendment in Environmental Clearance was considered in the 36th EAC meeting held during 31st August and 1st September, 2021. Based on the documents submitted and presentation made by the Project Proponent and the Consultant, the Committee **deferred** the proposal for want of following additional information: -

- i. The Project Proponent needs to justify the raise in despatch from 0.3 MTPA to 0.8 MTPA. Need for the increase strongly justified as it is related to change in production in Bhilai Steel Plant.

- ii. The Project Proponent needs to submit the past production details duly authenticated by Department of Geology and Mining.
- iii. The Project Proponent needs to submit a detail note on the compliance status of earlier ECs and status report of health impacts due to road transportation. PP shall also submit the action taken adopted against the remarks of the Certified Compliance Report by IRO.

Day 2 : 01.09.2021 (Wednesday)

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

EAC Meeting Details:

| | |
|-----------------|---|
| EAC meeting | 36 th EAC Meeting |
| Date of Meeting | 31 st August & 1 st September, 2021 |

The proposal of M/s. UltraTech Cement Ltd is for grant of Environmental Clearance for Paraswani Limestone Mine with Expansion in Limestone Production Capacity from 4.2 Million TPA to 10.0 Million TPA and 7.1 Million TPA OB, Sub Grade, Mineral Rejects and Top Soil generation (Total Excavation: 17.1 MTPA) with One Existing Crusher of 1250 TPH Capacity & One Proposed Additional Crusher of 1800 TPH Capacity and Installation of new conveyor belt (length 1600 m) from pit to the plant in the mine lease area of 997.355ha at Villages: Hirmi, Paraswani, Bardih, Phunderdih & Saklore, Tehsil: Simga, District: Baloda Bazar-Bhatapara, Chhattisgarh. The mine lease area is located between Latitude 21030'52.67"N to 21032'59.26"N and Longitude: 81056'27.50"E to 81059'7.59"E. The mine lease area falls under the Survey of India Toposheet No: F44P14 and falls in Seismic Zone II.

2. M/s. UltraTech Cement Ltd has made an online application vide IA/CG/MIN/19354/2013 dated 20.08.2021 and submitted Form 2 and EIA report under

the provisions of the EIA Notification, 2006 for the project mentioned above. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals under Category “A” of the schedule of the EIA Notification, 2006 as the mining lease area is greater than 100 ha and appraised at Central level.

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

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

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

| Date of application | Proposal No | Consideration | Details | Date of accord |
|---------------------|----------------------|--------------------------------|--|----------------|
| 30.06.2018 | IA/CG/MIN/75649/2018 | 23 rd October, 2018 | Expansion in Limestone Production Capacity from 4.2 Million TPA to 10.0 Million TPA and 7.10 Million TPA OB, Subgrade, Mineral Rejects and Top Soil per annum with one existing Crusher of 1250 TPH & one Proposed additional Crusher Capacity of 1800 TPH and Installation of | 19.11.2018 |

| | | | | |
|--|--|--|--|--|
| | | | new conveyor (length 1600 m) from the pit to the plant | |
|--|--|--|--|--|

5. Lease Detail

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

6. The Project Proponent submitted that the change in the name of lease was effected in favor of M/s Ultratech Cement Limited on 11.2.2005. The name change deed was executed on 19.05.2014. The validity of the lease has been extended up to 21.02.2043 as per MMDR Amendment Act 2015. Subsequently Amendment agreement for extension of mining lease period up to 21.02.2043 of mine has been executed on 31.03.2016.

7. Details of Mine Plan

| S.no | Mining Plan along with the Conceptual Plan Approved By | Letter no | Dated of Approval | For a period | Details |
|------|--|--|-------------------|--------------------|----------------------|
| 1 | Modification in Mining Plan along with | Balodaba/Chup/Kh yo-1160/2018-Raipur/486 | 14.08.2018 | 2018-19 to 2022-23 | Limestone, 997.355ha |

| | | | | | |
|--|--|--|--|--|--|
| | Progressive Mine Closure Plan approved by Indian Bureau of Mines | | | | |
|--|--|--|--|--|--|

8. Observation and Recommendation of the Committee:

The proposal for Environmental Clearance was considered in the 36th EAC (Non-Coal) meeting held during 31st August & 1st September, 2021 wherein the Committee noted that the Terms of Reference vide No. J-11015/110/2018-IA.II(M) dated 19.11.2018 was granted for 1 (a) Mining of Minerals and 2(b) Mineral Beneficiation, but PP has applied only for 1 (a) Mining of Minerals for grant of EC. During the presentation PP informed that the proposal involves Mineral Beneficiation (Crusher with Wobbler & Screen) and EIA/EMP report has been prepared for both mining and mineral beneficiation but due to technical issue in PARIVESH, Category 2(b) Mineral Beneficiation is not appearing in FORM-II. The Committee was of the view that as proposal involves both the Category 1 (a) Mining of Minerals and 2(b) Mineral Beneficiation, the same needs to be reflected in public domain i.e. PARIVESH Portal, hence PP should consult the NIC team of the Ministry and resolve the issue. The Committee therefore **deferred** the proposal.

2.2 Proposal for Environmental Clearance of M/s. Springway Mining Private Limited for Proposed Limestone Mine with Total excavation of 14.11 million TPA [Limestone - 4.0 million TPA (ROM), Topsoil - 1.57 million TPA, OB - 6.51 million TPA, Mineral Rejects – 2.03 million TPA] in the mine lease area of 499.641 ha at Village- KolKarhiya, Tehsil Pawai, District- Panna, Madhya Pradesh – [Proposal no: IA/MP/MIN/27304/2015; File No. J-11015/114/2015-IA.II(M), Consultant: J.M. EnviroNet Pvt. Ltd.] - Environmental Clearance (EC)

EAC Meeting Details:

| | |
|-----------------|---|
| EAC meeting | 36 th EAC Meeting |
| Date of Meeting | 31 st August & 1 st September, 2021 |

The proposal of M/s. Springway Mining Private Limited is for grant of Environmental Clearance (EC) for proposed Limestone Mine with Production Capacity of 4.0 MTPA in the mine lease area of 499.641 ha located at Village- KolKarhiya, Tehsil Pawai, District- Panna, Madhya Pradesh. The mine lease area located between Latitude 24°15'29.02"N to 24°17'09.55"N and Longitude 79°48'24.91"E to 79° 50'21.15" E. The mine lease area falls under the Survey of India Toposheet No 54P/15 and falls in Seismic Zone-III.

2. M/s. Springway Mining Private Limited has made an online application vide proposal no: IA/MP/MIN/27304/2015 dated 31.05.2019 and submitted Form-2 and EIA report under the provisions of the EIA Notification, 2006 for the project mentioned above. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals under Category "A" of the schedule of the EIA Notification, 2006 as the mining lease area is greater than 100 ha and appraised at Central level.

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

| Date of application | Proposal No | Consideration | Details | Date of accord |
|---------------------|----------------------|----------------------------|--|----------------|
| 01.04.2015 | IA/MP/MIN/27304/2015 | 15 th May, 2015 | Production capacity of 4.0 million TPA | 08.06.2015 |
| 03.04.2018 | IA/MP/MIN/27304/2015 | - | Extension of validity of ToR from 08.06.2018 to 07.06.2019 | 08.05.2018 |

4. The proposal for Environmental Clearance was earlier considered in the 7th EAC meeting held during July 30-31, 2019 and the Committee, after detailed deliberations, deferred the proposal and sought the requisite information/clarifications. PP submitted the information vide Lr Ref No SMPL/DMO/Project/2021/65 dated 04.06.2021 on 17.06.2021 in Parivesh. Then, the proposal was again considered in the 32nd EAC meeting held during 28th June and 1st July 2021 and after detailed deliberations made by the Project Proponent and the Consultant; the Committee deferred the proposal for want of additional information. PP submitted the information vide Lr Ref. No: SMPL/MIN/DAM/MoEF/2021/69 dated 18.08.2021 on 20.08.2021 in Parivesh as mentioned below: -

Point (i): The EMP budget of Rs 4.50 Cr for addressing the concerns expressed by the public shall be verifiable and monitorable. The allocated budget has to be spent over a period of 3 years. Detailed breakup of each activity and its location needs to be indicated. The capital and recurring expenditure to be incurred needs to be submitted.

Reply: PP submitted the detailed breakup of each activity of the EMP budget of Rs 4.50 Cr for addressing the concerns expressed by the public with a spent over a period of 3 years with its location.

| S. No | Physical Targets | EMP (PH concerns) Budget & 3 Year Plan of Activity (in Rs. Lakhs) | | | | Detailed description with cost |
|-------|------------------|---|---------|----------|-------|--------------------------------|
| | | I Year | II Year | III Year | Total | |

| | | | | | | |
|---|---|------|------|------|------|--|
| 1 | Construction of boundary wall of garden and development of Garden in Village KolKarahiya near Govt. Middle School | 20.0 | 10.0 | 10.0 | 40.0 | <p>i. I year - Garden area (about 1 Acre i.e. 43,560 Sq.ft.) - Land Cost with Registration - Rs. 16 Lakhs, Boundary Wall 830 ft. length of 5 ft. height @ Rs. 90 per Sq.ft. with Gate, etc. - 4 Lakhs,</p> <p>ii. II + III year - Garden development (Plants, Saplings, grass, Rides, walk ways, Open gym, etc.) - 20 Lakhs</p> |
| 2 | Construction of Skill Development Center (SDC) in Village KolKarahiya near School | 34.0 | 15.0 | 15.0 | 64.0 | <p>i. I year - Land for SDC (about 4 Ares i.e.4300 Sq ft. Cost - Rs. 1.6 Lakhs), Rooms (4 nos.x150 sq.ft.) & hall (2 no.x 600 sq.ft.) with fittings, fixture, furniture, etc. @ Rs.1800 per sq. ft.) - Rs. 32.4 Lakhs, Total 1.6+32.4 = Rs. 34 Lakhs</p> <p>ii. II + III year - Workshop Shed, Sewing m/c - 10 nos. and Tools & Tackles for repair of Sewing m/c, TV & Mobile, Two wheelers, Electric gadgets, Cutting & welding, etc.- 30 Lakhs</p> |
| 3 | Four hand pumps in village KolKarahiya (2), Devri (1), Raikra (1) will be established for water source. | 1.0 | 1.0 | 2.0 | 4.0 | All the four hand pumps will be installed in the scattered & isolated areas of villages where piped water is not available. Approximate cost of Hand pump including drilling, casing, pipes & instruments is about Rs. 1 lakh per hand pump. |
| 4 | Overhead Water Tank Construction for drinking water supply at Kolkarhiya Village | - | 30.0 | 25.0 | 55.0 | Village population - 1324 nos., considering 10% growth after the past census, Population considered is about 1500, water consumption per person per day as per JalJivan Mission in rural area @ 135 Ltrs. per |

| | | | | | | |
|---|---|------|------|-----|------|--|
| | | | | | | person, total daily requirement -202 KL, O/H water tank Size - 300 KL, Cost of O/H tank with pipe lines, valves, etc, -55 Lakhs. Pipeline for water supply in the village is already there and water is being supplied from a bore well with pump but power supply in village is very irregular, so villagers insisted for O/H tank in the PH. |
| 5 | Digital Classroom Development by facilitating the online education system by providing Wi-Fi connectivity and desktop/tablets at Village KolKarhiya, Devri and Raikra | 19.0 | 14.5 | 3.5 | 37.0 | Screen for Digital Classroom, computer & other accessories, etc. Rs. 1.5 Lakhs per classroom, Kolkarahiya (Middle & Primary schools)- 4 sets, Devri (Middle school) - 1 sets, Raikra (Middle school)- 1 sets, Simariya (Sr. Secondary School) - 7 sets = 13 rooms/set ups, Desktop computers 50 nos. @ Rs. 0.35 lakhs each |
| | Providing furniture (Table and chair) for 300 students in the schools of Village KolKarhiya, Devri and Raikra | 2.0 | 2.0 | 2.0 | 6.0 | Table & chairs for about 300 students @ Rs. 2000/set = 6 Lakhs (schools of Village KolKarhiya - 150, Devri -75 and Raikra - 75) |
| | Creation of Playground, sports & games facility in schools of Village Kol Karhiya & Devri | - | 3.0 | 4.0 | 7.0 | KolKarhiya - 4.5 Lakhs & Devri - 2.5 Lakhs |

| | | | | | | |
|----|--|------|------|------|-------|---|
| 6 | Complete renovation of internal Roads & Cross drains in KolKariya, Devri and Raikra Villages | 35.0 | 42.0 | 49.0 | 126.0 | Length of Road in Kolkarihiya - 2400 m, Devri - 660 m, Raikra - 540 m, Avg. Width - 3 m, Cost of CC road with cross drains in village ineranl area is @ Rs. 35 Lakhs per Km for 3 m Width, |
| 7 | Ambulance Van and Development of subhealth center at Village Kol Karhiya | 15.0 | 15.0 | 16.0 | 46.0 | Ambulance Van - 15 Lakhs, Defabrilator (AED) - 1.5 Lakh, Rooms (3 nos.) etc. - 27 Lakhs; Beds, Medicines, Instruments, Hospital materials, etc. - 2.5 Lakhs |
| 8 | To support for basic infrastructure & equipments to health center as per need of community in Village Devri - renovation | 3.0 | 5.0 | 12.0 | 20.0 | Rooms (2 nos.) etc. - 18 Lakhs; Beds, Medicines, Instruments, Hospital materials, etc. - 2 Lakhs |
| 9 | Establishment of a COVID center at Village Panchayat of project villages with necessary medical equipment providing Oxygen concentrators, beds, PPE Kits, support in vaccination, one Ambulance, Awareness for COVID. Vaccination Program, etc | 36.0 | - | - | 36.0 | i. Oxygen Concentrator - 20 nos. @ Rs. 0.5 Lakhs each, Beds - 50 nos. @ Rs. 0.1 Lakhs each, PPE Kits - 200 @ Rs. 500 each, Ambulance - Rs. 15 Lakhs for establishment of Covid centre at Simariya which lateron will be used for other serious diseases ii. Motivating, Campaigning & Arranging for Vaccination in Kolkarahiya, Devri & Raikra villages - 5 Lakhs, |
| 10 | Providing | 1.8 | 3.6 | 3.6 | 9.0 | 80 watt solar light with panel - |

| | | | | | | |
|--|---|--------------|--------------|--------------|--------------|--|
| | Solar Lighting in Kolkarhiya, Devri & Raikra Villages | | | | | Rs. 9000, Pole 8 m - Rs. 7000, Foundation & flooring etc. Rs. 2000, total - Rs. 18,000 per solar light, Total 50 nos. in villages Kolkarhiya -30, Devri-10 & Raikra-10 |
| | Total | 166.8 | 141.1 | 142.1 | 450.0 | |

Point (ii): The Project Proponent should submit the year-wise, activity wise and time bound budget earmarked for EMP. PP should assign the recurring cost on the EMP cost and has to be spent every year. Total EMP cost should also include the cost of dust control equipment's, continuous noise level monitoring, monitoring of ground vibration, green belt, plantation in non-mineralized zone and avenue plantation.

Reply: PP submitted that the total cost of EMP has been revised as Rs. 17.29 Crore which was Rs. 7.04 Crore. Breakup of same has been given below:

| S.No. | Particulars | Budget (Rs. In Crore) | Revised Budget (Rs. In Crore) |
|---------------------|---|-----------------------|-------------------------------|
| 1. | Project Cost (Including land cost) | 266 | 276.2 |
| Cost for EMP | | | |
| 2. | Cost for Environment Protection | 2.54 | 12.79 |
| | Budget for addressing the Public Hearing issues | 4.5 | 4.5 |
| | Total Capital Cost for EMP | 7.04 | 17.29 |
| 3. | Recurring Cost for EMP | 0.57 | 1.41 |

PP also submitted that Monitoring of ground vibration, green belt, plantation in non-mineralized zone and avenue plantation is included in the total EMP cost. Activity wise and time bound budget breakup earmarked for EMP with its recurring cost as mentioned below: -

| S.No | EMP - Activities | Capital Cost (Lakhs) | Recurring (Lakhs) | Time Frame |
|-----------|--|----------------------|-------------------|------------|
| A. | Air Quality monitoring and Protection | | | |
| | Mitigative Measures | | | |

| | | | | |
|---|---|------|------|---|
| 1 | <u>Water sprinkling arrangements for main haulage road</u> (Length of Haul Road - 2.0 KM, Coverage - Road Width - 30 Mtr Wide, Water Usage Type - Rain , Collected, Sump, HDPE Pipes & Fittings Size 2" and 3 " , HP Pump Station Assly, Booster Pump Station, Storage Tanks & recirculation Line, Automated Sprinklers @ 20 Mtrs, Motor,Control Panel and Cables). Ready to fit assemblies will be used so that it can be shifted for the required area based on the sequence of mining pits. | 12.5 | 0.6 | Within 6 months from the commencement of the mine |
| 2 | <u>One tanker mounted water sprinkling system with remote controlled valve</u> from the operator cabin for other roads & for mining activities of capacity 15 KL (Engine & chasis of 1613 model tipper - 25 Lakhs plus tank of 15 KL with pump, valves, etc. -6 Lakhs, total Rs. 31 Lakhs) | 31.0 | 29.9 | With the commencement of the Mine |
| 3 | <u>Water Mist fog system for crusher hopper</u> (Consist of Tank - Cap 5 KL , Pumps - 1 NosKirloskar Make, Filtration and Control Valves Skid, Compressor Unit - Make Atlas Copco, Receiver Tank - 2K, Atomized Water Nozzles - 28 Nos , Motor , Control Panel & Cables , Vehicle Sensor, etc.). Bag Filter system is already included | 5.0 | 0.5 | Within 6 months from the commencement of the Mine |

| | | | | |
|----|---|-------|------|--|
| | in the Crusher Installation Cost | | | |
| -4 | <u>Development for plantation in the 300 m blasting safety zone from village boundary</u> (within mineable blocks), Total 50.156 ha area | 150.5 | 37.6 | Will be started with the commencement of the mine and completed as per the approved Mine Plan in phased manner |
| 5 | <u>Plantation on non mineable blocks</u> (27.082 ha) & non mineralized area of mineable blocks (26.452 ha) etc. (total 53.534 ha area) | 160.6 | 40.2 | |
| 6 | <u>Plantation on back filled areas & bench slopes</u> for Rehabilitation in all the blocks (74.95 ha) | 224.9 | 56.2 | |
| 7 | Green belt in 7.5 m lease periphery / boundary (Area 32.392 ha) including the area of 2.516 ha covered in the 50m safety barrier of the village road. | 97.2 | 24.3 | Will be done with in first five year of the commencement of the mine. |

| | | | | |
|---------------------|--|-----|-----|---|
| Monitoring | | | | |
| 1 | <u>Three Online Ambient Air Quality Monitoring Station</u> (@ Rs. 61 Lakhs each) & display board at main gate in the core zone area | 183 | 9.0 | Within 6 months from the commencement of the Mine |
| 2 | <u>Four Ambient Air Quality Monitoring Station</u> at Village KolKarhiya, Devri, Muhanna and Basan (Platforms for putting the instruments @ Rs. 12,500each) and cost of air monitoring Rs. 8 Lakhs per annum | 0.5 | 8.0 | Within 6 months from the commencement of the Mine |
| B. | Water Quality monitoring and Preservation | | | |
| Mitigative Measures | | | | |

| | | | | |
|-------------------|--|--------|-----|--|
| 1 | <u>Construction of sump</u> of 6 m depth of 20 m x 20 m size at the bottommost working bench of the pit for pumping of water from the quarry to sediment settling tank of 5 m depth & 40 m x 60 m size. | 7.20 | 0.4 | Within 6 months from the commencement of the Mine for the Pit A, Separate sump and tank will be provided for each Pit with its commencement as per the approved mining plan. |
| 2 | <u>Construction of embankment</u> with a maximum and minimum width of 40.5 m and 15.0 m respectively and maximum and minimum height of 9 m and 3 m respectively with its top level (3.0 m width), total length of embankment is 24501 m for all the 7 pits | 373.96 | 5.3 | Within 6 months from the commencement of the Mine for the Pit A, and Separate Embankment & Garland Drain as per the design provided by M/s Jayam Consultants, Chennai. |
| 3 | <u>Construction of garland drain</u> with average dimension of 2.1 m width at top and 1.12 m depth outside the embankment of the pit, total length of garland drain is 25,674 m for all the 7 pits | 11.09 | 0.2 | Embankment & Garland drain will be provided & maintained as per requirement for the pit under operation as per the approved mining plan. |
| Monitoring | | | | |
| 1 | <u>Installation of pie-zometers</u> along the periphery in the premises - 3 nos. of 50 m depth each with installation of DWLR with telemetry system | 3.92 | 0.1 | Within 6 months from the commencement of the Mine |
| 2 | <u>Water quality and level monitoring</u> at mine site and villages (10 locations). | 1.0 | 8.0 | This activity will be started within 6 months from the commencement of the Mine and will be continued till the |

| | | | | |
|-----------|---|---------------|---------------|--|
| | | | | life of the mine as per the Statutory requirement |
| 3 | Monitoring of River Bearma. | | | |
| 4 | Workshop Waste water quality analyses | | | |
| 5 | Development of Rainwater Harvesting System | 10.0 | 0.5 | Within 6 months from the commencement of the Mine |
| C. | Noise and Vibration monitoring and Preservation | | | |
| 1 | The Peak particle velocity (Ground vibration & Air blast) monitoring by Minimate for nearest habitation i.e. Village KolKarhiya | 6.0 | 0.5 | This activity will be started within 6 months from the commencement of the Mine and will be continued till the life of the mine as per the statutory requirement |
| 2 | Noise Level Monitoring in core and buffer zone | | | |
| D | Miscellaneous | | | |
| 1 | Digital mapping of the entire lease area once in five year | 1.00 | - | Once every five from the start of the mine until life of the mine |
| | Total | 1279.26 | 140.72 | |
| E | Action plan for addressing the issues raised during the public hearing with budgetary provision. | 450.00 | - | |
| | Total | 1729.6 | 140.72 | |

Point (iii): The Project Proponent needs to revise the EMP cost for Greenbelt/Plantation.

Reply: PP submitted the revised EMP cost for Greenbelt/Plantation as Rs. 633.1 Lakh which was Rs. 46.6 lakh. Breakup of same has been given below:

| S. No. | Particulars | Earlier | Revised |
|--------|--|---------|---------|
| 1. | Area under Greenbelt and plantation (Ha) | 178.64 | 211.032 |
| 2. | Budget for Greenbelt and plantation (Lakh) | 46.6 | 633.1 |

Detailed breakup of revised budget under greenbelt and plantation is given below:

| S. No. | Particulars | Capital Cost (Rs. in Lakh) | Recurring Cost (Rs. in Lakh) |
|--------|---|----------------------------|------------------------------|
| 1. | Development for plantation in the 300 m blasting safety zone from village boundary (within mineable blocks), (Total 50.156 ha area) | 150.5 | 37.6 |
| 2. | Plantation on non-mineable blocks (27.082 ha) & non mineralized area of mineable blocks (26.452 ha) etc. (Total 53.534 ha area) | 160.6 | 40.2 |
| 3. | Plantation on back filled areas & bench slopes for Rehabilitation in all the blocks (74.95 ha) | 224.9 | 56.2 |
| 4. | Green belt in 7.5m lease periphery/ boundary (Area 32.392 ha) including the area of 2.516 ha covered in the 50m safety barrier of the village road. | 97.2 | 24.3 |
| Total | | 633.1 | 158.3 |

Point (iv): The Project Proponent needs to submit the detailed plan for accessing each block with the mineable reserves and production proposed for the entire life of mine.

Reply: PP submitted that as per grant of mining lease, mining lease area of 499.641 ha has been divided into 15 zones namely A, B, C, D, E, F, G, H, I, J, K, M, N, O and P. As per approved mining plan, out of these zones, few zones are very small and also in view of substantial thickness of overburden overlying the limestone, safe and systematic mine development and production even by manual means is not possible. Thus, reserves and resources have been estimated for 7 zones i.e., mineable and accordingly the mine development & production has been planned during the plan and conceptual period i.e., life of the mine. The mineable zones are O, M, N, P, J, H and G, these zones are referred as Pit-A, Pit-B, Pit-C, Pit-D, Pit-E, Pit-F and Pit-G in the approved mining plan respectively. In the said point of ADS, 'Block' is used for the 'Pit'. Pit word is used in the approved Mining Plan, hence the Block & pit are same. All the mining blocks (7 pits, A to G) are divided into two groups, NE & SW groups by a village road connecting the village Kolkarihiya with SH-49. NE group i.e., group of mining block E, F & G and

SW group i.e., group of mining block A, B, C and D. Mining and allied activity up to 15th year of mine will be confined in block A, B and D of SW group. For accessing each mining block up to 15th year of mine, access will be made over cart track in between Block A & D and also between Block A & B with safety measures of posting of guard on each cart track crossing and arrangement of signal lights on both sides towards mining block at each access. The use of these cart tracks is for movement of villagers to river for feeding water to their cattles. To reduce the movement of cattle on these cart tracks, a dedicated concrete road is proposed from village Kolkarhiya to the river bank towards Northern side where availability is reported round the year. Access to mining blocks of NE group and block-D will be required in the mining period from 16th year to end of life of mine. To access from Block-B to Block-E, a under pass is proposed under the village road which is connecting village Kol karhiya with SH-49. Under pass will be designed and will get approved from PWD, GoMP. Access on cart track in between Block E & F will be required from 21st year of mine to end of mine life, access on cart track in between Block F & G and also in between Block B & C will be required from 26th year of mine to end of life of mine.

Block wise summary of mineable reserves with sequence for accessing each block

| Sr. No. | Block /Pit | Area (Ha) | Sequence for accessing each block | Mineable Reserve & Resource (Million Tonnes) | Period for accessing block |
|---------|------------|-----------|-----------------------------------|--|----------------------------|
| 1 | A | 80.023 | 1 | 36.62 | 1 - 10 year |
| 2 | B | 93.915 | 2 | 36.51 | 6 - 20 year |
| 3 | C | 30.615 | 5 | 5.1 | 26th to end of mine life |
| 4 | D | 55.868 | 5 | 4.95 | 26th to end of mine life |
| 5 | E | 63.997 | 3 | 22.8 | 15th to 25th year |
| 6 | F | 96.362 | 4 | 42.23 | 21st to end of mine life |
| 7 | G | 44.202 | 5 | 3.85 | 26th to end of mine life |
| Total | | 464.98 | | 152.06 | |

Point (v): The Project Proponent needs to submit the mineral content available in 7 blocks and the area covered. Area which will not be disturbed must be indicated.

Reply: PP submitted that total Mining lease area is 499.641 ha in which mining will be done in 340.63 ha area within UPL. Outside the UPL, 140.232 ha area will be covered under Plantation, Greenbelt and Infrastructure & road and other use and 18.779 ha area will not be disturbed at the conceptual stage. Summary of Block wise details of the area to be disturbed and not to be disturbed is given below and detailed plan is along with drawings.

| Sr. No. | Block /Pit | Area (Ha) | Mineable Reserve & Resource (million Tonnes) | Area to be disturbed within UPL (ha) (Excavated Area) | Area to be disturbed outside UPL (ha) (Nonexcavated Area) | Area not to be disturbed (ha) |
|-------------|-------------------|-----------|--|---|---|-------------------------------|
| 1 | A | 80.023 | 36.62 | 71.1 | 7.955 | 0.968 |
| 2 | B | 93.915 | 36.51 | 84.43 | 8.884 | 0.601 |
| 3 | C | 30.615 | 5.1 | 14.81 | 12.127 | 3.678 |
| 4 | D | 55.868 | 4.95 | 20.53 | 35.307 | 0.031 |
| 5 | E | 63.997 | 22.8 | 56 | 7.935 | 0.062 |
| 6 | F | 96.362 | 42.23 | 79.84 | 15.554 | 0.968 |
| 7 | G | 44.202 | 3.85 | 13.92 | 19.329 | 10.953 |
| Sub total | | 464.98 | 152.06 | 340.63 | 107.091 | 17.261 |
| 8. | Non Mineable area | 34.661 | 17.311 | Nil | 33.141 | 1.518 |
| Grand Total | | 499.641 | 152.06 | 340.63 | 140.232 | 18.779 |

Point (vi): The Project Proponent needs to submit the plan for area to be backfilled i.e.,241.84ha and water management plan for creation of water body of 94.94 Ha and its utilization for benefit of the agriculture and local people.

Reply: PP submitted that at the conceptual stage, out of the total mining lease area (i.e. 499.641 ha), total mined-out area will be around 340.63 ha; in which 306.78 ha area will be reclaimed and rehabilitated by plantation on backfilled area and bench slope (74.95 ha), agriculture on backfilled area (136.89 ha) and water reservoir (94.94 ha). Remaining 33.85 ha area of pit B will be reclaimed by sub grade limestone for future use. Summary of reclamation and rehabilitation area during every plan period is given below and detailed plan is along with drawings.

| Sr. | Period | Reclaim | Rehabilitated Area (in ha) |
|-----|--------|---------|----------------------------|
|-----|--------|---------|----------------------------|

| No. | | edarea (ha) | Plantation | Water reservoir | Agriculture | Total |
|-------|--|----------------|------------|--------------------|-------------|--------|
| 1 | 1 st Year to 5 th Year | 5.72 | 0.00 | 0.0 | 0.0 | 0.00 |
| 2 | 6 th Year to 10 th year | 43.73 | 46.00 | 0.0 | 0.0 | 46.00 |
| 3 | 11 th Year to 15 th Year | 46.34 | 25.10 | 0.0 | 10.0 | 35.10 |
| 4 | 16 th Year to 20 th Year | 43.91 | 0.00 | 0.0 | 35.00 | 35.00 |
| 5 | 21 st Year to 25 th Year | 26.96 | 0.00 | 0.0 | 25.58 | 25.58 |
| 6 | 26 th Year to End of Life of Mine | 173.97 | 3.85 | 94.94 | 66.31 | 165.10 |
| Total | | 340.63* | 74.95 | 94.94 | 136.89 | 306.78 |

*33.85 ha area of pit B will be reclaimed by sub grade limestone for future use. PP also submitted Block and period wise planned area of Reclamation and Rehabilitation plan. Total water requirement for Mining Project will be 100 KLD which will be sourced from Bearma River. At the conceptual stage 94.94 ha area will be converted into water reservoir. Rain water accumulated in mine pit will be given to farmers for agriculture purposes.

Point (vii): The Project Proponent needs to submit the engineering design for garland drains, check dams, check filters and embankment and its efficacy to mitigate the potential impact of water body.

Reply: PP submitted the Design & Working for Embankment as per IS code & Garland drain with Siltation & Sedimentation Tanks is done by a reputed Civil Consultant “M/s Jayam Consultant Pvt. Ltd., Chennai, Tamil Nadu” and also submitted the Copy of report. The entire mineable area has been divided into 7 blocks and mining work will be carried out in a phased manner in these blocks/pits and it is planned to form embankment around the periphery of individual mining pit within the mining lease before commencing the operations. Initially embankment will be made for the Pit A and later on for the other pits as per the mining sequence & schedule of operations as per the approved mining plan. Design of embankment is made for all the pits based on the topography (elevation levels) available at the particular pit & location. The top of embankment is designed at +322 mRL allowing a minimum free board of 4 m over the HFL, as recommended in NIH report. Construction of embankment is designed with a maximum and minimum width of 40.5 m and 15.0 m respectively and maximum and minimum height of 9 m and 3 m respectively with its top level (3.0 m width), total length of embankment is 24,501 m for all the 7 pits.

Point (viii): The mining methodology of proposed bench height and width is not conducive.

Reply: PP submitted that as per the approved mining plan, Bench height is proposed 8m in limestone & 5m in overburden and bench width minimum 25 m to 30 m (Working Benches) which is appropriate for the mining methodology and equipment to be used for mechanized mine. Bench design parameter as per approved mining plan along with section showing bench height and width.

Point (ix): The Project Proponent shall make safety barrier of 50m for plantation and for accessing the village road.

Reply: PP submitted that part of the 50 m safety zone of village road which is falling within the mining lease area is 4.93 ha and already considered under plantation. PP also submitted the map showing proposed plantation in safety barrier of 50m of village road.

Point (x): The Project Proponent shall obtain the permission from National Tiger Conservation Authority and also needs to revise the letter obtained from Chief Wildlife Warden clearly indicating the distance of core and buffer zone from the mining lease boundary.

Reply: PP submitted the copy of letter issued from Chief Wild Life Warden, Bhopal vide no W.A/Maa. Chi/2016/Mine/22/8861 dated 01.12.2016 that mine lease area is located at a distance of 20.047kms from core zone of Panna Tiger Reserve, 7.610km from the buffer zone of Panna Tiger Reserve and the said area is not situated in Wildlife Corridor. PP also submitted letter issued from the Office of the Principal Chief Conservator of forest and wildlife vide dated 25.06.2021 wherein it has been mentioned that forest area of Panna Tiger Reserve does not falls in the 499.641 Ha mining lease area. The mine is not situated in the wildlife corridor hence there is no possibility of any adverse impact on forest and wildlife. The distance of mine lease area from Panna National Park, Panna Tiger Reserve is 20.047 km from the core zone and 45.55 km from Gangau Sanctuary and 64.74 km from Ken Sancturay.

22. Observation and Recommendation of the Committee:

The proposal for Environmental Clearance was considered in the 35th EAC (Non-Coal) meeting held during 31st August & 1st September, 2021. The Committee observed that, as per letter issued by Chief Wild Life Warden, Bhopal vide no W.A/Maa.

Chi/2016/Mine/22/8861 dated 01.12.2016 that mine lease area is located at a distance of 20.047kms from core zone of Panna Tiger Reserve, 7.610km from the buffer zone of Panna Tiger Reserve and the said area is not situated in Wildlife Corridor. PP also submitted letter issued from the Office of the Principal Chief Conservator of forest and wildlife vide dated 25.06.2021, wherein it has been mentioned that forest area of Panna Tiger Reserve does not falls in the 499.641 Ha mining lease area. The mine is not situated in the wildlife corridor hence there is no possibility of any adverse impact on forest and wildlife. The distance of mine lease area from Panna National Park, Panna Tiger Reserve is 20.047 km from the core zone and 45.55 km from Gangau Sanctuary and 64.74 km from Ken Sancturay.

After detailed deliberations made by the Project Proponent and the Consultant, the Committee **recommended** the proposal for grant of Environmental Clearance of M/s. Springway Mining Private Limited for Proposed Limestone Mine with Total excavation of 14.11 million TPA [Limestone - 4.0 million TPA (ROM), Topsoil - 1.57 million TPA, OB - 6.51 million TPA, Mineral Rejects – 2.03 million TPA] in the mine lease area of 499.641 ha at Village- KolKarhiya, Tehsil Pawai, District- Panna, Madhya Pradesh along with the following specific conditions in addition to the standard EC conditions applicable for non-coal mining projects: -

- i. The budget of Rs 4.5 Crores to address the concerns raised by the public during the public hearing to be completed within 3 years from the date of start of mining operations.
- ii. The Project Proponent shall implement the Rehabilitation of project affected families (PAFs) and payment of compensation to PAFs as per the policy and guidelines of the Central/State Government, as provided under the law.
- iii. The Project Proponent must ensure that the Garland drains created to protect entry of water from river into the mine and from the mine to river to be dealt with the proper protection measures proposed and should be designed and constructed in such a way that at no time solids and pollutants from the mine area from all the pits will not flow into the river and it should be ensured that the water in the drain as surface runoff from mine collected in the pit be monitored for quality and treated accordingly.
- iv. The Committee noted that the PP presented that initially Pit-A will be operated for a period of 10 years and hence the protection measures proposed should be demonstrated in Pit -A first. Based on the performance of adopted measures the design and the construction shall be taken up in further pits.

- v. Since the major river is garlanding the entire mine area on northern, western and southern side, all the protection measures shall be taken up so that neither the river hydrology nor the quality of the river will have any impact till the entire mining operation.
- vi. The Sub-Committee of the EAC (Non Coal Sector) shall visit the mine after the mine commences operation to assess the performance of the above measures mentioned in condition no.iii, iv & v.
- vii. PP shall stay in touch with Forest and Wildlife Department for any intervention required in future for protecting the wildlife.
- viii. The topsoil shall temporarily be stored at earmarked site(s) only and it should not be kept unutilized for long. The topsoil shall be used for land reclamation and plantation.
- ix. Regular surveillance on Silicosis shall be carried through regular occupational health checkup of 1/3 of the persons every year.
- x. The Project Proponent shall obtain the NOC from CGWA for intersection of ground water table.

2.3 Proposal for Environmental Clearance of Shri Ram Chandra Bansal for Mungwari Bauxite, Laterite, Ochre & White Clay Mine with proposed production capacity of 42,612 TPA (ROM) which includes Laterite @ 15,000 TPA, Bauxite @ 9742 TPA, Ochre @ 4000 TPA, White Clay @ 1300 TPA and OB/Waste @ 12570 TPA in the mine lease area of 4.95ha, located at Village Mungwari, Tehsil – Majhgawan District - Satna, Madhya Pradesh – [File No: J-11015/365/2015-IA-II(M), Proposal No: IA/MP/MIN/31222/2015, Consultant: Envirta Sustainable Solutions India Pvt. Ltd.] - Environmental Clearance (EC)

EAC Meeting Details:

| | |
|-----------------|---|
| EAC meeting | 36 th EAC Meeting |
| Date of Meeting | 31 st August & 1 st September, 2021 |

The proposal of Shri Ram Chandra Bansal is for Mining of Bauxite, Laterite, Ochre and White Clay Mine in Mungwari with proposed production capacity of 42,612 TPA (ROM) which includes Laterite @ 15,000 TPA, Bauxite @ 9742 TPA, Ochre @ 4000 TPA, White Clay @ 1300 TPA and OB/Waste @ 12570 TPA in the mine lease area of 4.95ha located at Village Mungwari, Tehsil – Majhgawan District - Satna,

Madhya Pradesh. The mine lease area is located between Latitude 24°53'40.5"N to 24°53'53.3" N and Longitude 81°01'7.8"E to 81°01'17.7"E. The mine site falls on Survey of India Toposheet No.- 63H/1 and falls in Seismic Zone-II.

2. Shri Ram Chandra Bansal has made an online application vide IA/MP/MIN/31222/2015 dated 28.10.2016 submitted the proposal under the provisions of the EIA Notification, 2006 for the project mentioned above. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals under Category "A" of the schedule of the EIA Notification, 2006 as the mine lease area is located between Interstate Boundary of Uttar Pradesh and Madhya Pradesh at a distance of 3.3 km, N and Ranipur Wildlife Sanctuary at 3.3 km, NE and appraised at Central level.

3. The Project Proponent submitted that proposal of TOR vide online proposal no: IA/MP/MIN/31222/2015 dated 23.09.2015 was considered by the EAC in its meeting held during October 26-28, 2015 and ToR was issued by MoEF&CC vide Letter No. J-11015/365/2015-IA.II(M) dated 27th November, 2015.

4. The proposal for Environmental Clearance was earlier considered in the EAC meeting held during November 23-25, 2016 wherein the Committee deliberated at length the information submitted by PP and deferred the Proposal and is of the view that the Proposal may be considered after submission of following information/clarifications. PP submitted the information vide Lr No. Nil dated 17.08.2021 in Parivesh as mentioned below: -

Point (i): Since the mine was operational from 1982 and is currently closed as reported verbally by the PP. The Committee is of the view that PP has not submitted the compliance of TOR 1 and needs to submit year-wise production details authenticated by the Mining Department along with the date from which the production is suspended in the mine.

Reply: PP submitted the Past production details duly issued by Office of the Collector Department of Mines, Satna Distt, M.P. vide Lr no dated 4141/Khanij/2018 dated 29.11.2018 for the period from 1982 to 2015-16. In the said letter it is also mentioned that entire mine operation is stopped in the mine area since 19.07.2015.

Point (ii): There are 8 Schedule-I species reported in the study area and the PP has prepared a conservation plan and the same has not been submitted for approval to the Wildlife Conservation Department. The PP needs to submit the conservation plan for the approval and provide the proof of the submission of documents.

Reply: PP reported that 9 Schedule-I species reported in the study area such as Leopard (*Panthera Pardus*), Black Buck (*Antilope Cervicapra*), Chinkara (*Gazella Bennettii*), Sloth Bear (*Melursus Ursinus*), Four horned Antelope (*Tetracerus Quadricornis*), Wolf (*Canis Lupas Pallipes*), Bengal Monitor (*Varanus Bengalensis*), Python (*Python Reticulatus*) and Common Peafowl (*Pavo Cristatus*) and prepared the Wildlife Conservation Plan with a budgetary allocation of Rs 10.84 Lakhs and submitted for approval.

Point (iii): Since the project is in proximity of Ranipur WLS it has to be ascertained whether it is a case of NBWL violation. The PP needs to submit the detailed clarification on the issues.

Reply: PP submitted that the mining lease was granted for 20 years period w.e.f. 17.07.1982 to 16.07.2002. The 1st Renewal of Mining Lease was granted by State Government of Madhya Pradesh for the period of 20 years w.e.f. 17.07.2002 to 16.07.2022 and has been extended for 50 years as per MMDR (Amendment) Act, 2015 up to 16.07.2032. The mine is currently closed from 19.07.2015. Ranipur WLS is located entirely in state of Uttar Pradesh and forms the boundary of the states of UP & MP. None of the local authorities ever raised objections to operation of the mine. The supreme courts interim order in the matter of Goa Foundation Vs Union of India dated 21.04.2014 states that the no mining activity is allowed within 1 km of wildlife sanctuaries however the leases outside the 1 KM distance and within may continue working and should apply for wildlife clearance from NBWL. Also, the final Notification for declaring eco sensitive zone around Ranipur WLS has been published on 10.11.2017 and as per the notification, the said mine is outside the Eco-Sensitive zone of the Ranipur WLS and hence there has been no violation of NBWL.

Point (iv): The Committee is of the view that PP has not submitted the compliance of TOR 23 w.r.t. PM 2.5.

Reply: PP submitted that the compliance of ToR is covered in clause 5.3.2 to Section 5.3.6 of EIA report. PP submitted the Isopleth showing max. incremental GLC of PM₁₀ is 0.35 µg/m³ at the proposed site under i) loading and unloading and iii) transportation of ore over the haul road of mining area occur simultaneously at the site.

Point (v): Since this is old mine and it is noted that the plantation is very less. Accordingly, the PP needs to increase the plantation target and budget for the same and submit the details.

Reply: PP submitted that a total of 10,050 plants were proposed to be planted by the PP with a total budget of Rs 24,31,250/- Apart from green belt development in the mine area, PP has also kept aside a fund of Rs 1,25,000/- per year for development of green belt area in the buffer zone. The development of green belt area in the buffer zone will be done in consultation of gram panchayat and forest department on land identified by them. Also, a separate Rs 3,00,000/- per year has been kept aside for green belt development under the environment protection budget for plantation along the haul road to prevent dispersion of dust particle during movement of vehicles for transportation. The budget allocated for Greenbelt development in Core and Buffer zone till the conceptual stage is Rs 45,56,250.

5. The Project Proponent submitted that the mining lease was granted for 20 years period w.e.f. 17.07.1982 to 16.07.2002 over an area of 9.165 Hec to Shri Ram Chandra Bansal. 1st renewal was granted for 20 years w.e.f. 17.07.2002 to 16.07.2022 over an area of 5.30 Hec. The lease area was curtailed to 4.95 Hec Vide State Govt. order No. – F3-41/03/12/1 dated 21.06.2007. The Mine lease area deemed extended for 50 years as per MMDR (Amendment) Act 2015 up to 16.07.2032.

6. The Project Proponent submitted the Approval of Scheme of Mining including Progressive Mine Closure Plan of Mungwari Bauxite, Laterite, Ochre and White Clay mine over an area of 4.95ha approved by IBM vide Lr No. MP/Satna/Bauxite/M.Sch-103/12-13/282 Nagpur, dated 27.08.2013. The mine is non captive and standalone project.

7. Observation and Recommendation of the Committee:

The proposal for Environmental Clearance was considered in the 36th EAC (Non-Coal) meeting held during 31st August & 1st September, 2021, the Member Secretary informed the Committee that the Project Proponent vide letter dated 28.08.2021 informed that due to some unavoidable circumstances, PP is unable to attend the meeting. However, EAC deliberated the proposal based on the documents and information submitted by the PP on the Parivesh portal and **deferred** the proposal for want of the following additional information: -

- i. The Project Proponent needs to revise the EIA report as per the APPENDIX III of Generic Structure of Environmental Impact Assessment Document of EIA Notification, 2006 and also submit the Annexure of EIA/EMP in Parivesh portal.
- ii. The Project Proponent needs to submit the Wildlife Conservation Plan approved by the Concerned Authority.

- iii. As project involves mining of minor mineral, the Project Proponent needs to submit the certified District Survey Report as per Ministry's Notification S.O. 3611(E) dated 25.07.2018.

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

EAC Meeting Details:

| | |
|-----------------|---|
| EAC meeting | 36 th EAC Meeting |
| Date of Meeting | 31 st August & 1 st September, 2021 |

The proposal of M/s NCL Industries is for grant of Terms of Reference for Gundlapalli mine for expansion of Limestone production from 1.0 MTPA to 3.0 MTPA, Topsoil – Nil, OB/Waste – Nil in the mine lease area of 130.37ha located at Gundlapalli village, Matampally Mandal, Suryapet District, Telangana. The mine lease area is located between Latitude 16°42'10.6"N to 16°43'24.8"N and Longitude 79°50'59.5"E to 79°52'14.6"E. The mine lease area falls under the Survey of India Toposheet No: 56P/13 & 56P/14.

2. M/s NCL Industries has made an online application vide proposal no: IA/TG/MIN/217936/2021 dated 03.07.2021 and submitted Form1 and Prefeasibility report under the provisions of the EIA Notification, 2006 for the project mentioned above. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals under Category "A" of the schedule of the EIA Notification, 2006 as the mining lease area is greater than 100 ha and appraised at Central level. PP also submitted that Interstate boundary of Telangana and Andhra Pradesh is located at a distance of 220m, S from the mine lease area.

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

| Date of application | Proposal No | Consideration | Details | Date of accord |
|---------------------|----------------------|---------------|---|----------------|
| 22.06.2009 | IA/TG/MIN/53618/2007 | - | Expansion of Cement plant (Cement 0.30 MTPA to 0.90 MTPA; Clinker 0.60 MTPA to 1.60 MTPA) and Limestone (0.90 | 15.12.2009 |

| | | | | |
|--|--|--|---|--|
| | | | MTPA to 2.55 MTPA) i. ML I @ Mettapalli-0.78 to 1.5 MTPA ii. ML II @ Sultanpur Thanda – 0.02 to 0.05 MTPA iii. ML III @ Gundlapalli - 0.10 to 1.0 MTPA | |
|--|--|--|---|--|

4. The Project Proponent submitted that mining lease of Gundlapalli Limestone Mine was originally granted to Shri. K. Ravi for a period of 20 years from 22.10.1990, over an extent of 130.37 Ha. (322-06 Acres) in Gundlapalli Village, Mattampalli Mandal, Nalgonda District, Andhra Pradesh. Mining lease deed was executed by the Assistant Director of Mines & Geology, Nalgonda vide Order No. G. O. No. 124 dated 28.03.1991. Further Govt. of Andhra Pradesh accorded permission vide G. O. MS. No. 614 dated 22.10.1981 to Shri. K. Ravi for transfer of the mining lease to M/s. NCL Industries Limited under Rule 37 of M.C. Rules, 1960 of the lease period up to 21.10.2010 on the same terms and conditions laid down in the G.O. No. 124 dated 22.10.1990. Further the lease was renewed for another 20 years by the Govt. of Telangana vide order Go. No. 33 dated 02.12.2014 and the lease deed was executed on 17.03.2015 valid upto 21.10.2030. As per section 8A (5) of Mines and Minerals (Development and Regulation) Amendment Act. 2015, the mining lease period has been extended for 50 years from the date of initial grant i.e., from 22.10.1990 to 21.10.2040 vide No. G.O. M.S. 64 dated 24.08.2017 by Govt. of Telangana. Supplementary lease deed for extension of lease period was executed on 20.02.2018 and proceedings were drawn by Govt. of Telangana vide proceeding no. 1335/M2/2009 dated 20.02.2018.

5. Details of Mine Plan

| S.no | Mining Plan along with the Conceptual Plan Approved By | Letter no | Dated of Approval | For a period | Details |
|------|---|---------------------|-------------------|--------------------|----------------------|
| 1 | Modified Mining Plan including Progressive Mine Closure Plan approved by Indian Bureau of Mines | AP/NLG/MP/Lst-3/Hyd | 28.06.2021 | 2021-22 to 2024-25 | Limestone, 130.37 ha |

6. Observation and Recommendation of the Committee:

The proposal for Terms of Reference was considered in the 36th EAC (Non-Coal) meeting held during 31st August & 1st September, 2021. The Committee noted that PP has been operating the mines since 1990 and obtained Integrated EC on 15.12.2009, PP has not submitted the Past production details duly authenticated by DMG. The Committee also noted that the Pre-Feasibility Report submitted by the PP in Parivesh Portal is not as per the Guidelines issued by the Ministry's O.M No. J-11013/41/2006-IA.II (I) dated 30.12.2010 for preparation of pre-feasibility report. After detailed deliberations made by the Project Proponent and the Consultant, the Committee therefore, **deferred** the proposal for want of following additional information:

- i. The Project Proponent needs to revise the pre feasibility report as per the Guidelines for preparation of pre feasibility report for obtaining prior environmental clearance in terms of the provisions of the EIA Notification, 2006 published vide MoEF No. J-11013/41/2006-IA.II (I) dated 30.12.2010.
- ii. The Project Proponent needs to submit the past production details duly authenticated by Department of Geology and Mining for the period 1990 to till date for all three mines (ML I at Mettapalli, ML II at Sultanpur Thanda and ML III at Gundlapalli) along with Annexure III.
- iii. The Project Proponent needs to submit the details of protection measures taken to prevent mine inundation from Krishna River (adjacent to mine boundary on Southern side) during highest flood along with the topography.
- iv. The Project Proponent needs to submit the Certified EC compliance report for which EC granted in 15.12.2009 for all three mines (ML I at Mettapalli, ML II at Sultanpur Thanda and ML III at Gundlapalli).
- v. The Project Proponent needs to submit the details of plantation in terms of numbers and area covered for all three mines (ML I at Mettapalli, ML II at Sultanpur Thanda and ML III at Gundlapalli).
- vi. The Project Proponent needs to submit the copy of extension order vide G.O. M.S. 64 dated 24.08.2017 and supplementary lease deed along with proceedings vide No 1335/M2/2009 dated 20.02.2018.
- vii. The Project Proponent needs to submit the Affidavit as per Ministry's O.M No 3-50/2017 -IA.II (M) dated 30.05.2018.

2.5 Proposal for Terms of Reference for Bhod Limestone mining project for production capacity of 1,24,032 TPA (MLA: 16.18 Ha) located at Survey No. 358/3, Village: Bhod, Tehsil: Ranavav, District: Porbandar, Gujarat by Shri Ashok Babubahi Sindhav - [Proposal no: IA/GJ/MIN/213585/2021; File No. IA-J-11015/44/2021-IA-II(M)] – ToR

1. EAC Meeting Details:

| | |
|-----------------|--|
| EAC meeting | 36 th EAC Meeting |
| Date of Meeting | 31 st August & 1 st September 2021 |

2. Project details:

| | | |
|---------------------|---|-----------------------------|
| Name of the Project | Bhod Limestone mining project for production capacity of 1,24,032 TPA (MLA: 16.18 Ha) | |
| Location | Village | Bhod |
| | Tehsil/Taluka | Rananav |
| | District | Porbandar |
| | State / UT | Gujarat |
| | Latitudes | 21 ^o 41'18.81" N |
| | Longitudes | 69 ^o 46'48.08" N |
| | SoI Topo sheet No. | 41G14 |
| Company Name | Shri Ashok Babubahi Sindhav | |
| KML file | Submitted | |
| Seismic zone | III | |

3. Category details:

| | |
|-------------------------|---|
| Category of the project | A |
| Provisions | EIA Notification, 2006 |
| Mining lease Area | 16.18 Ha (Govt. waste land) |
| General condition | Barda Wildlife Sanctuary within close proximity from project site; Protected areas notified under the wildlife (Protection) Act, 1972 |

4. ToR Details:

| | |
|-----------------------------------|---|
| ToR proposal no. | IA/GJ/MIN/213585/2021 |
| Date of submission of Form-1 | 08.06.2021 |
| Production capacity | 1,24,032 TPA |
| Total mineable reserves available | 43,56,800 tons |
| Date of earlier EAC meetings | 32 nd EAC meeting during 28 th June to 1 st July 2021 and 34 th EAC meeting during 27 th to 30 th July 2021, wherein PP did not attend the meeting. |

5. Lease Detail

| | | |
|--|----------------|-------------------------|
| Grant of mining lease by Gujarat Govt. | Area | 16.18 Ha |
| | Mineral | Limestone |
| | Letter No. | 1572(S-161)/6169-CHH |
| | Date | 22.10.1973 |
| | In favour of | Shri BabulalVoljiSidhav |
| | Execution date | 18.04.1974 |
| Validity of mine lease | 17.04.2024 | |

6. Observation and Recommendation of the Committee:

During the 36th EAC (Non Coal Mining) meeting held during 31st August to 1st September, 2021, the Committee observed that the Barda Wildlife Sanctuary lies in the vicinity of the mine site, however, details of exact distance of mine lease boundary from Barda Wildlife Sanctuary and ESZ was not submitted by the project proponent. It was also noted that mine is in operation since 1987, however, the project proponent did not submit the details of previous Environmental Clearance and certified compliance report. The EAC also had earlier appraised the proposal twice i.e. in 32nd and 34th EAC meetings, wherein project proponent did not attend both the meetings. The project proponent again did not attend the 36th EAC meeting held during 31st August and 1st September, 2021. The Member Secretary tried to contact the project proponent, however, contact details available in form-1 on Parivesh portal does not exist. The EAC noted that, in view of above, ToR cannot be issued at this stage, due to lack of information and action may be taken by the Ministry on continuous absence of project proponent in last three EAC meetings. Therefore, the Committee **deferred** the proposal for want of the following information:

- i. The project proponent needs to submit the letter clarifying the distance of Barda Wildlife Sanctuary and ESZ from the mine lease boundary duly authenticated by concerned authority.
- ii. It is mentioned 'B2' category in the pre-feasibility report (PFR). The project proponent needs to correctly mention the category of the proposal as well as details of general condition and submit the revised PFR.
- iii. The project proponent needs to submit the details of production of Limestone, soil, OB and total excavation separately.
- iv. The project proponent needs to submit the details of previous Environmental Clearance.
- v. The project proponent needs to submit the latest IRO certified compliance report.

List of members of Expert Appraisal Committee participated through VC

| S.No. | Member Name | Member Address | Designation | 31st August 2021 | 1st September 2021 |
|--------------|--------------------------|---|--------------------|------------------------------------|--------------------------------------|
| 1 | Dr. S.R. Wate | Add. 148/149, Nagar Vikas Society, Narendra Nagar, Nagpur-440015, Maharashtra | Chairman | Yes | Yes |
| 2 | Dr. Ajay Deshpande | Building A-26, Flat-403, Happy Valley Homes, Manpada, Ghodbunder Road, Thane (West) - 400610, Maharashtra | Member | No | Yes |
| 3 | Shri B Ramesh Kumar | H-No. 6-1-134/6, Balram Compound, Padmarao Nagar, Secundrabad-500025, Andhra Pradesh | Member | Yes | Yes |
| 4 | Prof. S. Ramakrishna Rao | 50-120-9/1, Tulasi Mani Regency North Extension, Seethammadhara, Visakhapatnam - 530013 Andhra Pradesh. | Member | Yes | Yes |
| 5 | Shri Santosh Gupta | Flat No. 405, Block – B, Gaur Green Vista, NyayKhand -1, Indrapuram, Ghaziabad- 201014 | Member | Yes | Yes |
| 6 | Dr. (Ms.) Asha Rajvanshi | Wildlife Institute of Inida, Chandrabani, Dehradun- 248001 | Member | Yes | No |
| 7 | Shri G.P. Kundargi | Plot No. 32, MOIL Vatika, Chicholi Road, Fetri, Nagpur 441501, Maharashtra | Member | Yes | No |

| | | | | | |
|----|-----------------------------------|---|------------------|-----|-----|
| 8 | Dr. A.K.Malhotra | House no.33, Sector-11 Dwarka, New Delhi-110075 | Member | Yes | Yes |
| 9 | Dr. Gurdeep Singh | Centre of Mining Environment, Department of Environmental Science & Engg. Indian Institute of Technology (Indian School of Mines), Dhanbad-826004 | Member | Yes | Yes |
| 10 | Dr. Parimal Chandra Bhattacharjee | A/3 Asiyana Housing Complex Maligaon, Guwahati-781011, Assam | Member | Yes | Yes |
| 11 | Prof. Mukesh Khare | Department of Civil Engineering, IIT, Delhi | Member | No | No |
| 12 | Mr. V. K. Soni | Government of India, Ministry of Earth Sciences, India Meteorological Department, MausamBhawan, Lodi Road, New Delhi – 110003 | Member | No | No |
| 13 | Sh. Pankaj Kulakshethra | Regional Controller of Mines, IBM Block D, Second Floor, Indira Bhavan, Civil Lines, Nagpur – 440001. | Member | No | Yes |
| 14 | Sh. P.K.Kundu | Representative of DGMS | Member | Yes | Yes |
| 15 | Shri Pankaj Verma | 2 nd Floor, Prithvi Block, Indira ParyavaranBhawan, MoEF&CC, Jorbag, New Delhi- 110003 | Member Secretary | Yes | Yes |
