



File No.: J-11015/73/2020-IA.II(M)

Government of India

Ministry of Environment, Forest and Climate Change

IA Division

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Dated 29/11/2025



To,

Mr. Hitesh Sukhwal  
M/s. JK LAKSHMI CEMENT LIMITED  
Jaykaypuram, District Sirohi, Rajasthan, Jaykaypuram, SIROHI, RAJASTHAN, 307019  
jklc.env@lc.jkmail.com

**Subject:** Expansion of Limestone Production Capacity of M/s. JK Lakshmi Cement Ltd., Limestone Mines (Mine Lease II of Area 252.105 Ha.) Production Capacity from 0.3 Million TPA to 1.35 Million TPA, for Which Top Soil: 0.0243 Million TPA Overburden: 0.0972 Million TPA, Inter Burden: 0.0945 Million TPA, Total Excavation (ROM): 1.566 Million TPA) at Villages-Semariya, Ghikuria & Nandini Khundini, Tehsil- Ahiwara (Old Teh. - Dhamdha), District- Durg (Chhattisgarh) - Environmental Clearance – regarding.

**Sir/Madam,**

This is in reference to your application submitted to MoEF&CC vide proposal number IA/CG/MIN/524784/2025 dated 07/05/2025 for grant of prior Environmental Clearance (EC) to the project under the provision of the EIA Notification 2006-and as amended thereof.

2. The particulars of the proposal are as below :

|   |   |
|---|---|
| <b>(i) EC Identification No.</b>                  | EC25A0000CG5434443N   |
| <b>(ii) File No.</b>                              | J-11015/73/2020-IA.II(M)  |
| <b>(iii) Clearance Type</b>                       | Fresh EC  |
| <b>(iv) Category</b>                              | A   |
| <b>(v) Project/Activity Included Schedule No.</b> | 1(a) Mining of minerals   |
| <b>(vi) Sector</b>                                | Non-Coal Mining   |
| <b>(vii) Name of Project</b>                      | Expansion of Limestone Production Capacity of M/s. JK Lakshmi Cement Ltd., Limestone Mines (Mine Lease II of Area 252.105 Ha.) Production Capacity from 0.3 Million TPA to 1.35 Million TPA, for Which Top Soil: 0.0243 Million TPA Overburden: 0.0972 Million TPA, Inter Burden: |

|  |   |
|--|---|
| (viii) Location of Project (District, State) | 0.0945 Million TPA, Total Excavation (ROM): 1.566 Million TPA at Villages-Semariya, Ghikuria & Nandini Khundini, Tehsil- Ahiwara (Old Teh. - Dhamdha), District- Durg (Chhattisgarh). (Env. Consultant- Anacon Lab. Pvt. Ltd.). |
| (ix) Issuing Authority                       | DURG, CHHATTISGARH  |
| (x) Applicability of General Conditions      | MoEF&CC<br>No   |

3. In view of the particulars given in the Para 1 above, the project proposal *inter alia* including Form-2 (Part A, B and C)/ EIA & EMP Reports were submitted to the MoEF&CC for an appraisal by the EAC under the provision of EIA notification 2006 and its subsequent amendments.

4. The above-mentioned proposal has been considered by EAC in the meeting held on 12.09.2025 and 19.09.2025. The minutes of the meeting and all the project documents are available on PARIVESH portal which can be accessed from the PARIVESH portal by scanning the QR Code above.

##### 5. Observation and Recommendation of the Committee:-

The Committee noted that the instant proposal pertains to the grant of Environmental Clearance for the expansion of limestone production capacity from 0.3 Million TPA to 1.35 Million TPA, along with handling of Top Soil: 0.0243 Million TPA, Overburden: 0.0972 Million TPA, Inter-burden: 0.0945 Million TPA, resulting in a total excavation (ROM) of 1.566 Million TPA. The proposal relates to the ML-II mining lease area of 252.105 ha, located at Villages Semariya, Ghikuria and Nandini Khundini, Tehsil Ahiwara (earlier Tehsil Dhamdha), District Durg, Chhattisgarh. The project is categorized under Category 'A', falling under Activity 1(a) of the Schedule to the EIA Notification, 2006.

It was noted that M/s JK Lakshmi Cement Ltd. has an integrated cement plant, interlinked with two captive limestone mining leases, namely ML-I (267.695 ha) and ML-II (252.105 ha), which are covered under a single Environmental Clearance. The said EC has undergone six amendments. Vide the sixth amendment, the clinker capacity was enhanced from 1.5 Million TPA to 1.98 Million TPA through optimization and modernization, as per the EC amendment issued under F. No. J-11011/1170/2007-IA-II(I) dated 14th November 2018.

The Committee further observed that the Terms of Reference (ToR) for the expansion of production capacity in ML-II was granted on 20.01.2021. Accordingly, the Project Proponent (PP) submitted the requisite documents for capacity enhancement from 0.3 Million TPA to 1.35 Million TPA, including the proposed handling of top soil, overburden and inter-burden, resulting in the total excavation of 1.566 Million TPA from the ML-II lease area.

During the presentation, the Project Proponent and the accredited consultant highlighted the key site features through the use of a KML file. The Committee was informed that the ML-II lease is divided into nine blocks. The nearest habitations are Semariya (0.56 km, East), Ghikuria (0.43 km, Southeast), and Nandini Khundini (1.8 km, Southwest). The project site is located at a distance of approximately 19.50 km southeast of National Highway-53, and the State Highway-7 (Durg–Dhamdha road) is situated at about 2.76 km west of the ML-II area.

The Committee noted the proximity of important water bodies and drainage features. The Shivnath River is located at about 0.75 km in the northwest direction. A seasonal drainage passes adjacent to and within the ML-II area on the eastern side. The Ghikuriya Minor also flows adjacent to the southeast of the ML-II area,

while the Kokri Minor is situated at 1.09 km to the north. The Girhola Minor is located at about 1.54 km southeast, Lor Nala at 7.2 km southeast, Ghuri Nala at 8.5 km northeast, Semaria Minor at 2.37 km northeast, and the Sahgaon Minor at 2.32 km southwest of the lease area. EAC noted the submission of the PP and opined that no blasting shall be allowed within 500m distance from habitations and river/stream. EAC also advised PP to install metallic wind screen near habitations that are falling within 500m distance from ML area. EAC also directed PP to consult State Water Resource Department/Irrigation Department and SPCB to safeguard river and nallah around the lease area.

It was also noted that the Project Proponent had earlier obtained approval of the Mining Plan along with the Progressive Mine Closure Plan from the Indian Bureau of Mines (IBM) vide letter no. DURG/CHUP/KHAYO-1258/2020 RAIPUR/1010 dated 04.02.2021, which is valid for the period 2021-22 to 2025-26. Subsequently, the Proponent obtained the approval of the Revised Mining Plan vide IBM letter no. RPR/DURG/LIMESTONE/1479/RMP/2025-26 dated 12.08.2025.

The PP informed that the limestone mine has been operational since 2018 and effectively manages rainwater accumulation during the monsoon season by utilizing stored water for dust suppression on haul roads and plantation activities within the lease area, with no discharge from the premises. To further mitigate surface runoff into the working pit, bunds have been constructed along the pit boundary, which are also proposed to be extended. Existing catch drains and garland drains channelize surface runoff to a harvesting pit connected to a settling pond for silt collection, which is desilted before the monsoon. The Committee also noted that the rainwater collected in mine sumps will continue to be used for operational purposes post-expansion, thereby supporting water conservation efforts. Further, the PP stated that additional garland drains and retaining walls would be developed, incorporating a 50% safety margin based on historical rainfall data. PP also informed that there are regular water quality monitoring of the collected water being carried out to ensure that it remains free from contamination. The PP also submitted geotagged photographs of Garland Drain, Retaining Wall, and Siltation Pond in reply to the ADS dated 29.08.2025. EAC noted the existing structure and proposed action plan for construction of catch drains, siltation ponds, gabions, check dams. EAC advised PP to complete the same.

With regard to R&R, PP confirmed no human settlements are within the mining lease area, eliminating the need for resettlement.

With regard to the inclusion of pollution potential and mitigative measures for both mining and cement plant operations, the PP clarified that these aspects have been thoroughly assessed in the respective EIA/EMP reports in accordance with sector-specific ToRs. The cumulative impacts of both the cement plant and the limestone mines (ML-I and ML-II) were considered, covering air emissions, wastewater management, noise levels, and environmental inter-linkages. PP have provided a consolidated assessment of cumulative pollution potential including Limestone Mine ML- I & II and Cement plant. PP reported that there is no adverse environmental impact observed while operation of both Mines and Cement Plant. PP further stated that mitigative measures are in place, including controlled blasting techniques to reduce vibration and dust.

On the issue of interlinking, PP vide ADS reply dated 29.08.2025 stated that ore requirement is catered from Mine lease I & II for the cement plant. While filing the application form for EC on Parivesh Portal in pursuance of the referred OM dated 24<sup>th</sup> December 2010, they inadvertently committed a mistake, instead of marking the leases as "Not interlinked" PP marked it as " interlinked". PP has stated the following reasons attributing to " Non interlined":

a) The mining leases, though termed and classified as 'Captive', are governed by the Mines and Minerals

(Development and Regulation) Act, 1957, which has been amended from time to time to facilitate the smooth operations and regulations of mines leases under changing conditions.

b) An amendment in the MMDR Act on 28th March 2021 provisions

*In section 8A of the principal Act,— (a) after sub-section (7), the following subsection shall be inserted, namely:— “(7A) Any lessee may, where mineral is used for captive purpose, sell mineral up to fifty per cent. of the total mineral produced in a year after meeting the requirement of the end use plant linked with the mine in such manner as may be prescribed by the Central Government and on payment of such additional amount as specified in the Sixth Schedule:*

c) In light of the above, the Rules in the Act permit sale of limestone from a captive lease to other consumers other than the Cement Plant of the lease holder. The sole definition of being linked exclusively to a cement plant stands no more and hence the terminology and classification as ‘not interlinked’ stands appropriate.

d) The limestone from the captive mines is now open for use in the following industries like FMCG, Desulfurization (removal of SO<sub>2</sub> from exhaust gas) in the power plant, manufacturing (glass, steel, paper, plastics), pharmaceuticals, cosmetic, filler in products like toothpaste and paint, water treatment etc.

e) The allotment of single limestone lease being captive can be understood but two leases for a common cement plant cannot be classified as ‘captive’. The utilization, again, is open under the amended Act.

Accordingly, PP requested that the error of having marked the leases as ‘interlinked’ may be reconsidered and PP may be allowed to correct the inadvertent error to move ahead with the proposal as not interlinked.

EAC noted the submission of PP and agreed that instant proposal may not be considered as interlinked.

On the matter of compliance with the recommendations of the Directorate General of Mines Safety (DGMS), the PP confirmed that all safety measures are in place to protect nearby communities and that compliance with DGMS regulations is strictly followed. Communication and consultation with DGMS were initiated vide letter no. JKLC/DURG/MINES/25/81(B) dated 03.07.2025 to address specific safety concerns. The PP also provided copies of the Blaster’s Diary for the months of March 2025 and June 2025.

Regarding the water requirement for the enhanced production, PP submitted that the total requirement for mining activities is 160 KLD. The Committee noted that PP has obtained a valid NOC from the Water Resources Department (WRD) permitting withdrawal of 160 KLD from the Shivnath River, valid till 13.09.2048, as well as a valid NOC from the Central Ground Water Authority (CGWA) permitting withdrawal of 320 m<sup>3</sup>/day of groundwater, valid up to 25.09.2026.

PP submitted an action plan for dust control during transportation, which includes the use of covered vehicles, regular water sprinkling, and greenbelt development, has been provided. The PP informed that plantation activities within the lease area have been completed.

Regarding transportation of the crushed limestone PP submitted two action plan namely plan A and Plan B. EAC advised to use the Plan B for transportation which included the use of 3.5 km of conveyer length which is already constructed and operational. As committed by PP, an intermediate loading point for truck transfer shall be developed at the end of 3.5 km stretch and thereafter, PP can transport the ore material from the transfer point to cement plant by road covering a distance 2 km which includes a short stretch of Ahiwara –Berla road. Additionally, PP mentioned that they have already constructed a pipe conveyor system from the limestone mine towards the plant for a distance of approximately 3.5 km. However, a critical section of about 370 meters, passing through land under the ownership of BSP (Bhilai Steel Plant), remains pending for construction due to clearance constraints. Pipe conveyor belt will be commissioned after the land license agreement. (The total length of closed pipe conveyor is 5.5 Km out of which 92% i.e 5.090 KM has been already completed). Thus, with the working of closed pipe conveyor,

100 percent limestone will be transported through closed pipe conveyor instead of trucks. In this regard, PP also submitted a commitment letter dated 23.04.2025 stating that installation and commissioning of Pipe Conveyer System is scheduled to be completed on or before 31.03.2027. EAC noted the submission of PP and stated that no transportation shall be allowed after 31.03.2027.

The PP has submitted year-wise certified past production details from 2016 to 2025 issued vide letter dated 27.06.2025.

The Committee also took note of the letter dated 20.03.2025 issued by the Additional Principal Chief Conservator of Forest (Wildlife), Raipur, confirming the absence of national parks, wildlife sanctuaries, biosphere reserves, wildlife corridors, or tiger/elephant reserves in proximity to the project site. It was further noted that PP initially submitted an authenticated list of flora and fauna vide letter dated 05.05.2025 under the Wildlife (Protection) Act, 1972. However, this was subsequently clarified through a letter dated 03.06.2025 issued by the Chief Conservator of Forest, Durg, that the list was prepared in accordance with the Wildlife (Protection) Amendment Act, 2022, and that the term “Wildlife Act, 1972” may be read as “Wildlife Amendment Act, 2022.” The Wildlife Conservation Plan has been approved with a budget of 32.45 lakh.

The Committee observed that mining operations will be carried out through fully mechanized opencast mining with deep hole drilling and blasting. Baseline environmental data was collected during the post-monsoon season (December 2023 – February 2024), with the predominant wind direction observed from the northwest.

The Committee noted that the Public Hearing for the expansion project was held on 20.11.2024 at Ghikuria Village, Chhattisgarh, under the chairmanship of the Additional District Magistrate. Concerns raised included employment generation, education and health infrastructure, drinking water supply, community development (playgrounds, training centers), environmental issues (dust pollution, water levels), infrastructure concerns (canal obstruction, road safety), and blasting impacts (vibrations and cracks in houses). In response, PP has allocated 35 lakh over three years for community development activities.

The Committee also noted that Action Closure Report dated 13.06.2025 has been issued by Compliance & Monitoring Division of the Ministry with respect to ATR submitted by PP on 26.09.2024 and ATR review report submitted by SRO Raipur dated 15.04.2025. The CCR was earlier issued on 26.07.2024. EAC also noted that Continuous effluent monitoring systems have been installed by the PP at the cement plant.

PP vide email dated 19.09.2025 submitted that they have constructed two siltation ponds in Block-2 in addition to existing siltation pond. and as of now there are 3 siltation ponds in total present within Block 2. PP also submitted the geotagged photographs of the same. PP also reported that in addition to the above, another three siltation ponds has also been constructed in Block- 5 of the ML area. PP also stated that garland drain with stone pitching on both sides has also been completed. Further PP mentioned that provisions for constructing retaining walls, garland drains, and siltation ponds will be followed as per the approved mine plan.

Out of the total mine lease area of 252.105 ha, 163 ha has been acquired by the PP. The PP has informed that out of the 21 ha of safety zone, 10.87 ha was already covered with 18486 ha number of trees. In pursuance to the direction of EAC, 25325 trees have been planted in the remaining safety zone area of 10.13 ha.

With regard to details of mining equipment and washing system, PP reported that at present mining equipment are being outsourced and the contractor is carrying out their maintenance outside ML area. However as directed by EAC, construction of concrete washing ramp and oil & water separator has been started out.

6. Based on the above discussion and presentation by the Project Proponent and the Consultant, the EAC, in its 50th EAC meeting held on 12th and 15th September 2025, under EIA Notification 2006 and its subsequent amendments, **recommended** the proposal for expansion of limestone production capacity of M/s. JK Lakshmi Cement Ltd., Limestone Mines (Mine Lease II of Area 252.105 ha) production capacity from 0.3 Million TPA to 1.35 Million TPA, for which Top Soil: 0.0243 Million TPA, Overburden: 0.0972 Million TPA, Inter burden: 0.0945 Million TPA, Total Excavation (ROM): 1.566 Million TPA at Villages - Semariya, Ghikuria & Nandini Khundini, Tehsil- Ahiwara (Old Teh. Dhamdha), District- Durg (Chhattisgarh), subject to the following specific condition in addition to the Standard EC condition applicable to non-coal mining projects (Annexure - I).

7. The details of the project as per the information submitted by the Project Proponent are enclosed as Annexure (II)

8. The Ministry has examined the proposal in accordance with the provisions of the Environmental Impact Assessment (EIA) Notification, 2006, and its subsequent amendments. Based on the recommendations of the Expert Appraisal Committee (EAC), Environmental Clearance (EC) is hereby granted for Expansion of Limestone Production Capacity of M/s. JK Lakshmi Cement Ltd., Limestone Mines (Mine Lease II of Area 252.105 Ha.) Production Capacity from 0.3 Million TPA to 1.35 Million TPA, for Which Top Soil: 0.0243 Million TPA Overburden: 0.0972 Million TPA, Inter Burden: 0.0945 Million TPA, Total Excavation (ROM): 1.566 Million TPA) at Villages-Semariya, Ghikuria & Nandini Khundini, Tehsil- Ahiwara (Old Teh. - Dhamdha), District- Durg (Chhattisgarh). The clearance is subject to strict compliance with the specific conditions prescribed for this project, in addition to the standard conditions applicable to non-coal mining projects, as detailed in Annexure I.

9. The Environmental Clearance to the aforementioned project is under provisions of EIA Notification, 2006, as amended. It does not tantamount to approvals/consent/permissions etc. required to be obtained under any other Act/Rule/regulation. The Project Proponent is under obligation to obtain approvals /clearances under any other Acts/ Regulations or Statutes, as applicable, to the project.

10. The Ministry reserves the right to stipulate additional conditions, if found necessary at subsequent stages and the project proponent shall implement all the said conditions in a time bound manner. The Ministry may revoke or suspend the environmental clearance, if implementation of any of the above conditions is not found satisfactory.

11. The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 read with subsequent amendments therein.

12. The PP is under obligation to implement commitments made in the Environment Management Plan, which forms part of this EC.

13. General Instructions:

a. The project proponent shall prominently advertise it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days indicating that the project has

- been accorded environment clearance and the details of MoEF&CC/ SEIAA website where it is displayed.
- b. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
- c. The project proponent shall have a well laid down environmental policy duly approved by the Board of Directors (in case of Company) or competent authority, duly prescribing standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental/ forest / wildlife norms / conditions.
- d. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the project proponent (during construction phase) and authorized entity mandated with compliance of conditions (during operational phase) shall be prepared. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Six monthly progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six-Monthly Compliance Report.
- e. Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- f. The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.
- g. Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.
- h. PP needs to comply the OM dated 24.07.2024 of MoEFCC, where it is stated that the plantation of saplings shall be carried out in the earmarked 33% greenbelt area as part of the tree plantation campaign "EK Ped Ma ke Naam" (एक पेड़ माँ के नाम (and the details of the same shall be uploaded in the MeriLife portal (<https://merilife.nic.in>).
- i. The plantation under Green Credit Program by the Project Proponent shall not be eligible for site specific plantation clearance forming part of Environment Clearance.

14. This issues with the approval of the Competent Authority.

**Copy To**

- i. **The Secretary**, Ministry of Mines, Government of India, Shastri Bhawan, New Delhi-110 001.
- ii. **The Secretary**, Department of Environment, Government of Chhattisgarh.
- iii. **The Secretary**, Department of Mines and Geology, Government of Chhattisgarh, Chhattisgarh.
- iv. **The Chairman**, Chhattisgarh Environment Conservation Board, Nanak Niwas, Civil Lines, Raipur, Chhattisgarh.
- v. **The Inspector General of Forests**, Ministry of Environment, Forest and Climate Change, Integrated Regional Office, Aranya Bhawan, North Block, Sector-19, Naya Raipur, Atal Nagar, Chhattisgarh - 492002.
- vi. **The Controller General**, Indian Bureau of Mines, Indira Bhavan, Civil Lines, Nagpur-440001.
- vii. **Regional Officer**, Ministry of Environment, Forest and Climate Change, Integrated Regional Office, Ground Floor, East Wing, New Secretariat Building, Civil Lines, Nagpur - 440001.
- viii. **The Chairman**, Central Pollution Control Board, Parivesh Bhawan, CBD-Cum-Office Complex, East Arjun Nagar, New Delhi-110 032.

- ix. **The Member Secretary**, Chhattisgarh Environment Conservation Board, Paryavas Bhavan, North Block Sector-19, Atal Nagar Dist- Raipur(C.G.)-492002.
- x. **The Member Secretary**, Central Ground Water Authority, 18/11, Jam Nagar House, ManSingh Road, New Delhi-110011.
- xi. **The Chief Wildlife Warden**, Govt. of Chhattisgarh, Aranya Bhavan, Jail Road, Fafadih Chowk, Raipur - 492001.
- xii. **Director General**, Directorate General of Mines Safety, Hirapur, Dhanbad, Jharkhand, 826001
- xiii. **The District Collector**, Durg District, Govt. of Chhattisgarh.
- xiv. **Guard File**.
- xv. **PARIVESH Portal**.

**Annexure 1**

**Specific EC Conditions for (Mining Of Minerals)**

**1. Specific Conditions**

| S. No | EC Conditions   |
|-------|---|
| 1.1   | No mineral transportation through the village road shall be allowed. PP is allowed to undertake transportation of mined out ore as per plan B which included the use of 3.5 km of conveyer length which is already constructed and operational. No transportation through road shall be allowed after 31.03.2027 as per the commitment letter dated 23.04.2025 submitted by PP.   |
| 1.2   | PP shall not discharge any untreated surface/mine pit water outside the ML area. Catch drains, siltation ponds, gabions structures etc. should be installed at all appropriate location to ensure the above.  |
| 1.3   | The Project Proponent shall take adequate measures to prevent the pilferage of minerals during their transportation. All dumpers should be covered with tarpaulin during transportation. Truck drivers, helpers, Operators, Supervisors, and contractor personnel should be properly trained on environmental aspects. A record of the above training of the personnel, supervisor/officials should be submitted to the Regional office of MoEF&CC. |
| 1.4   | The natural water bodies and or streams which are flowing in and around the mine lease area should not be disturbed. PP shall consult the state Water Resource department and SPCB regarding safeguards for Nallah/Stream and follow their instructions. Implementation status of this condition should be communicated to the Ministry's Regional Office.  |
| 1.5   | PP shall carry out blasting in a controlled manner such that the direction of the blasting is perpendicular to the village/ habitations. PP needs to strictly adhere to MMR (Metalliferous Mines Regulation) 1961 / DGMS guidelines for undertaking blasting activity so that safety is ensured and chances of ground vibration and overpressure are minimized. PP needs to monitor each blast by Seismograph and maintain record accordingly       |
| 1.6   | The Project Proponent should take adequate measures to prevent the fly rock from falling onto the   |

| S. No | EC Conditions   |
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|       | nearby habitations, and also the Project Proponent needs to set up a permanent monitoring in the nearby village to monitor the blast-induced ground vibration and air overpressure. MMR 1961 & DGMS guidelines have to be followed in this regard.  |
| 1.7   | The Project Proponent shall continue to monitor the air quality, noise level, water quality, water level, and ground vibration during drilling and blasting at the edge of the mine, near the village, at the crusher, and at other sensitive receptors, and such collected data shall be submitted quarterly to the Ministry's Regional Office.  |
| 1.8   | The Project Proponent should install Continuous Ambient Air Quality Monitoring Stations (CAAQMS) as per the scientific study and in consultation with CPCB/SPCB. The real-time data so generated should be displayed digitally at the entry and exit gate of the mine lease area for public display and shall be linked to the server of CPCB/SPCB.   |
| 1.9   | The air pollution control equipment's like bag filters, vacuum suction hoods, dry fogging system, etc. shall be installed at areas prone to air pollution. PP shall take necessary measures to avoid generation of fugitive dust emissions. 3 sides of crusher should be covered with Noise barrier sheets. Permanent water sprinklers need to be installed at 3 sides of crushers for dust suppression and near the unloading platform of limestone.   |
| 1.10  | The Project Proponent needs to use modern equipment's such as Camera Traps for ensuring the presence and movement of wild animals in the study area in consultation with Wildlife Wing of Forest Department. Appropriate interventions shall be taken to minimise stress conditions for wild animals and to avoid Man-Animal conflict. The Project Proponent should follow up with the State Forest Department regarding the implementation of WLCP Act 2022. An implementation report in this regard needs to be submitted to the Ministry's Regional office in a half-yearly compliance report. |
| 1.11  | The Project Proponent shall explore the possibility of using at least 20% of Electric vehicles/CNG/Solar instead of diesel operation within three years. PP needs to install solar power plant at the earliest to reduce dependency on conventional power supply from state.  |
| 1.12  | The Project Proponent should adopt the proper mitigation measures as proposed under EMP. The adoption of mitigation measures and monitoring of the same as proposed in the EMP shall be done under the supervision of the qualified environmental personnel. The implementation status of the same shall be submitted to the Ministry's Regional Office.  |
| 1.13  | The Project Proponent should establish in house (at project site) environment laboratory for measurement of environment parameter with respect to air quality and water (surface and ground). A dedicated team to oversee environment management shall be setup at site which should comprise of Environment Engineers, Laboratory chemist and staff for monitoring of air, water quality parameters on routine basis instead of engaging environment monitoring laboratories/consultants. Any non-compliance or infringement should be reported to the concerned authority.                      |
| 1.14  | The Project Proponent shall conduct third party audit of compliance of EC condition at an interval one year and its report shall be submitted to RO, MoEF&CC.   |
| 1.15  | The Project Proponent shall ensure the survival rate of 95% for planting the gap plantation and new plantation. The Project Proponent shall make the actual count on the saplings planted and its survival rate and in case of failure of achievement of 95% survival rate, action plan for achieving   |

| S. No | EC Conditions   |
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|       | the target survival rate shall be submitted to the Ministry's Integrated Regional Office. Density of plantation should be 2500 plants/ha). PP shall make provision for drip irrigation to conserve the water. PP should plant fruit bearing trees along with other native and allied species within the ML area.  |
| 1.16  | To address the concerns raised by the public in the public hearing, PP should complete its public hearing within 3 years. PP shall comply with all action plans made for public hearing concerns, make regular maintenance and record the progressive activity outcomes. The Project proponent shall ensure that the activities proposed under the public hearing is different from the CSR activities.   |
| 1.17  | The Project Proponent needs to provide the good quality drinking water supply and also by laying network of pipelines to the local people of the nearby village namely Semaria, Ghikuriya, Nandini-Khundini free of cost. PP needs to install water treatment plant and process the water before supplying to the villages.   |
| 1.18  | As committed by PP, the PP needs to construct rainwater harvesting structure in the villages of Ahiwara, Nandini-Khundini. Girhola, Malpuri Khurd, Khasadih, Semariya and Ghikuria Pitaura. An implementation report should be submitted to Ministry's Regional Office.   |
| 1.19  | The Project Proponent shall provide the rainwater harvesting structure at mine offices and quarters/colonies to recharge the groundwater.   |
| 1.20  | PP needs to construct sedimentation ponds, check dam, gabion structures, retaining wall, garland drain around the dumps and other places in mine lease area, etc, to safeguard the natural Streams/Nallahs flowing in and around the Lease area and to prevent any silt flow outside the project.   |
| 1.21  | The Project Proponent shall organize an employment-based apprenticeship/ internship training program every year with an appropriate stipend for the youth and other programs to enhance the skills of the local people. The data should be maintained for the training imparted to the persons and the outcome of the training, for the assessment of the training program should be analyzed periodically and improved accordingly. PP needs to identify eligible youths from affected villages and provide them coaching and financial assistance in getting admission in engineering/ medical/diploma/ ITI institutes. |
| 1.22  | The Project Proponent should periodically monitor and maintain the health records of the mine workers digitally prior to mining operations, at the time of operation of mine and post mining operations. Regular surveillance shall be carried through regular occupational health check-up every year for mine workers. PP shall also organize medical camp for the benefit of the local people and also the monitor the health impacts due to mining activity.  |
| 1.23  | The mobile water tankers should be used in the ML area for dust suppression and control. A logbook of water tankers should be maintained mentioning running hours, kilometre reading, and maintenance hours of water tankers for each shift. PP shall use non-toxic chemicals for dust suppression in order to reduce the total water requirement.  |
| 1.24  | The Project Proponent should install permanent fixed water sprinkling system along the Haul roads.  |

| S. No | EC Conditions  |
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| 1.25  | PP should use Mobile fog cannons on the roads where dust generation and propagation are emitted on roads. PP should also install Fog Cannon at the near habitation.  |
| 1.26  | The Project Proponent needs to reduce the dependency upon the ground water, surface water (water from rivers, etc.) and it shall construct water reservoirs within the lease area for meeting its day-to-day water needs. An implementation report in this regard needs to be submitted to Ministry's Regional Office.   |
| 1.27  | The mining lease holders shall, after ceasing mining operations, undertake regressing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. The implementation report of the above said condition shall be submitted to the Ministry's Regional Office.   |
| 1.28  | Approval/permission of the CGWA shall be obtained before drawing ground water for the project activities, if applicable. State Pollution Control Board (SPCB) concerned shall not issue Consent to Operate (CTO) till the project proponent obtains such permission.   |
| 1.29  | Project proponent shall take necessary other clearances/permissions under various Acts and Rules if any, from the respective authorities / department.   |
| 1.30  | PP needs to comply the OM dated 24.07.2024 of MoEFCC, wherein it is stated that the plantation of saplings shall be carried out in the earmarked 33% greenbelt area as part of the tree plantation campaign "EK Ped Ma keNaam" (एकपेडमांकेनाम) and the details of the same shall be uploaded in the MeriLife portal ( <a href="https://merilife.nic.in">https://merilife.nic.in</a> ).   |
| 1.31  | PP should utilise the Oil & Grease Trap for washing of trucks, HEMM operational in their mine project. Disposal of the used oil & drums should be through authorised recyclers and as per rules. Copy of logbook of Oil withdrawn from Oil & Grease Trap should be submitted to the Regional Office of the Ministry.   |
| 1.32  | PP shall ensure that all type of plastic waste generated from the mines shall be stored separately in isolated area and disposed of strictly adhering to the Plastic Waste Management Rules 2016. In pursuant to Ministry's OM dated 18/07/2022 PP shall also create awareness among the people working in the project area as well as in its surrounding area on the ban on Single Use Plastic (SUP) in order to ensure compliance of Ministry's Notification published by the Ministry on 12/08/2021. A report along with photograph on the measures taken shall be submitted to Ministry's Regional Office. |
| 1.33  | PP should conduct awareness programmes, skill development programmes, and training through a group vocational training centre as per the commitment.   |
| 1.34  | PP shall comply with all the Judgement/ Orders of Hon'ble NGT in the OA No. 304/2019 in the matter of M.Haridasan & Ors. Applicant (s) versus State of Kerala & Ors. Reg.  |
| 1.35  | PP needs to comply with the Hon'ble NGT's order dated 21.07.2020 in the OA No. 304/2019 and the recommendation of the CPCB report regarding distance criteria.   |
| 1.36  | All other terms and conditions mentioned in the EC letter dated 13.05.2009 remain unchanged.   |

## 1. Statutory Compliance

| S. No | EC Conditions   |
|-------|---|
| 1.1   | The Project proponent complies with all the statutory requirements and judgment of Hon'ble Supreme Court dated 2nd August, 2017 in Writ Petition (Civil) No. 114 of 2014 in matter of Common Cause versus Union of India &Ors before commencing the mining operations.  |
| 1.2   | The Project Authorities should widely advertise about the grant of this EC letter by printing the same in at least two local newspapers, one of which shall be in vernacular language of the concerned area. The advertisement shall be done within 7 days of the issue of the clearance letter mentioning that the instant project has been accorded EC and copy of the EC letter is available with the State Pollution Control Board/Committee and web site of the Ministry of Environment, Forest and Climate Change ( <a href="http://www.parivesh.nic.in">www.parivesh.nic.in</a> ). A copy of the advertisement may be forwarded to the concerned MoEFCC Regional Office for compliance and record. |
| 1.3   | State Pollution Control Board/Committee shall be responsible for display of this EC letter at its Regional office, District Industries Centre and Collector's office/ Tehsildar's Office for 30 days.   |
| 1.4   | A copy of EC letter will be marked to concerned Panchayat / local NGO etc. if any, from whom suggestion / representation has been received while processing the proposal.   |
| 1.5   | The Project Proponent shall follow the mitigation measures provided in MoEFCC's Office Memorandum No. Z-11013/57/2014-IA.II (M), dated 29th October, 2014, titled "Impact of mining activities on Habitations-Issues related to the mining Projects wherein Habitations and villages are the part of mine lease areas or Habitations and villages are surrounded by the mine lease area."   |
| 1.6   | The State Government concerned shall ensure that mining operation shall not be commenced till the entire compensation levied, if any, for illegal mining paid by the Project Proponent through their respective Department of Mining & Geology in strict compliance of Judgment of Hon'ble Supreme Court dated 2nd August, 2017 in Writ Petition (Civil) No. 114 of 2014 in matter of Common Cause versus Union of India & Ors.   |
| 1.7   | This Environmental Clearance (EC) is subject to orders/ judgment of Honble Supreme Court of India, Honble High Court, Honble NGT and any other Court of Law, Common Cause Conditions as may be applicable.  |
| 1.8   | The Project Proponent shall inform the MoEF&CC for any change in ownership of the mining lease. In case there is any change in ownership or mining lease is transferred. PP needs to apply for transfer of EC as per provisions of the para 11 of EIA Notification, 2006 as amended from time to time.  |
| 1.9   | The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules, 2016 as amended from time to time.   |
| 1.10  | The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State Pollution Control Board/ Committee.  |

| S. No | EC Conditions   |
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| 1.11  | The project proponent shall prepare a Site-Specific Conservation Plan & Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan / Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report. (in case of the presence of Schedule-I species in the study area). |
| 1.12  | The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.   |
| 1.13  | The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.  |
| 1.14  | The project proponent shall obtain the necessary permission from the Central Ground Water Authority, in case of drawl of ground water / from the competent authority concerned in case of drawl of surface water required for the project.  |

## 2.

| S. No | EC Conditions  |
|-------|--|
| 2.1   | The Project Proponent shall carryout plantation/ afforestation in backfilled and reclaimed area of mining lease, around water body, along the roadsides, in community areas etc. by planting the native species in consultation with the State Forest Department/ Agriculture Department/ Rural development department/ Tribal Welfare Department/ Gram Panchayat such that only those species be selected which are of use to the local people. The CPCB guidelines in this respect shall also be adhered. The density of the trees should be around 2500 saplings per Hectare. Adequate budgetary provision shall be made for protection and care of trees.  |
| 2.2   | The Project Proponent shall make necessary alternative arrangements for livestock feed by developing grazing land with a view to compensate those areas which are coming within the mine lease. The development of such grazing land shall be done in consultation with the State Government. In this regard, Project Proponent should essentially implement the directions of the Hon'ble Supreme Court with regard to acquisition of grazing land. The sparse trees on such grazing ground, which provide mid-day shelter from the scorching sun, should be scrupulously guarded/ protected against felling and plantation of such trees should be promoted. |

## 3. Air Quality Monitoring And Preservation

| S. No | EC Conditions   |
|-------|---|
| 3.1   | The Project Proponent shall install a minimum of 3 (three) online Ambient Air Quality Monitoring Stations with 1 (one) in upwind and 2 (two) in downwind direction based on long term climatological data about wind direction such that an angle of 120° is made between the monitoring locations to monitor critical parameters, relevant for mining operations, of air pollution viz. PM10, PM2.5, NO2, CO and SO2 etc. as per the methodology mentioned in NAAQS Notification No. B-29016/20/90/PCI/I, dated 18.11.2009 covering the aspects of transportation and use of heavy machinery in the impact zone. The ambient air quality shall also be monitored at prominent places like office building, canteen etc. as per the site condition to ascertain the exposure characteristics at specific places. The above data shall be digitally displayed within 03 months in front of the main Gate of the mine site. |

| S. No | EC Conditions   |
|-------|---|
| 3.2   | Effective safeguard measures for prevention of dust generation and subsequent suppression (like regular water sprinkling, metalled road construction etc.) shall be carried out in areas prone to air pollution wherein high levels of PM10 and PM2.5 are evident such as haul road, loading and unloading point and transfer points. The Fugitive dust emissions from all sources shall be regularly controlled by installation of required equipments/ machineries and preventive maintenance. Use of suitable water-soluble chemical dust suppressing agents may be explored for better effectiveness of dust control system. It shall be ensured that air pollution level conform to the standards prescribed by the MoEFCC/ Central Pollution Control Board. |
| 3.3   | Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards.   |
| 3.4   | Wind shelter fence and chemical spraying shall be provided on the raw material stock piles.   |
| 3.5   | The project proponent shall submit monthly summary report of continuous stack emission and air quality monitoring and results of manual stack monitoring and manual monitoring of air quality /fugitive emissions to Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.   |
| 3.6   | The project proponent use leak proof trucks/dumpers carrying ore and other raw materials and cover them with tarpaulin.   |
| 3.7   | Design the ventilation system for adequate air changes as per ACGIH document for all tunnels, motor houses, Oil Cellars.  |
| 3.8   | The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through labs recognised under Environment (Protection) Act, 1986. 9) The project proponent shall install system to carryout Continuous Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g., PM10 and PM2.5 in reference to PM emission, and SO2 and NOx in reference to S02 and NOx emissions) within and outside the plant area at least at four locations (one within and three outside the plant area at an angle of 120 each). covering upwind and downwind directions.   |
| 3.9   | The project proponent shall install system to carryout Continuous Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g., PM10 and PM2.5 in reference to PM emission, and SO2 and NOx in reference to S02 and NOx emissions) within and outside the plant area at least at four locations (one within and three outside the plant area at an angle of 120 each).covering upwind and downwind directions.   |
| 3.10  | The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognised under Environment (Protection) Act, 1986 or NABL accredited laboratories. Monitor fugitive emissions in the plant premises.  |

#### 4. Water Quality Monitoring And Preservation

| S. No | EC Conditions  |
|-------|--|
| 4.1   | The Project Proponent shall undertake regular monitoring of natural water course/ water resources/ springs and perennial nallahs existing/ flowing in and around the mine lease including upstream and downstream. Sufficient number of gullies shall be provided at appropriate places within the lease for management of water. The parameters to be monitored shall include their water quality vis-à-vis suitability for usage as per CPCB criteria and flow rate. It shall be ensured that no obstruction and/ or alteration be made to water bodies during mining operations without justification and prior approval of MoEFCC. The monitoring of water courses/ bodies existing in lease area shall be carried out four times in a year viz. pre-monsoon (April May), monsoon (August), post-monsoon (November) and winter (January) and the record of monitored data may be sent regularly to Ministry of Environment, Forest and Climate Change and its Regional Office, Central Ground Water Authority and Regional Director, Central Ground Water Board, State Pollution Control Board and Central Pollution Control Board. Clearly showing the trend analysis on six-monthly basis. |
| 4.2   | The water balance/water auditing shall be carried out and measure for reducing the consumption of water shall be taken up and reported to the Regional Office of the MoEF&CC and State Pollution Control Board/Committee.  |
| 4.3   | Industrial waste water (workshop and waste water from the mine) should be properly collected and treated so as to conform to the notified standards prescribed from time to time. The standards shall be prescribed through Consent to Operate (CTO) issued by concerned State Pollution Control Board (SPCB). The workshop effluent shall be treated after its initial passage through Oil and grease trap.   |
| 4.4   | Quality of polluted water generated from mining operations which include Chemical Oxygen Demand (COD) in mines run-off; acid mine drainage and metal contamination in runoff shall be monitored along with Total Suspended Solids (TDS), Dissolved Oxygen (DO), pH and Total Suspended Solids (TSS). The monitored data shall be uploaded on the website of the company as well as displayed at the project site in public domain, on a display board, at a suitable location near the main gate of the Company. The circular No. J- 20012/1/2006-IA.II (M) dated 27.05.2009 issued by Ministry of Environment, Forest and Climate Change may also be referred in this regard.   |
| 4.5   | Project Proponent shall plan, develop and implement rainwater harvesting measures on long term basis to augment ground water resources in the area in consultation with Central Ground Water Board/ State Groundwater Department. A report on amount of water recharged needs to be submitted to Regional Office MoEFCC annually.  |
| 4.6   | Project Proponent shall regularly monitor and maintain records w.r.t. ground water level and quality in and around the mine lease by establishing a network of existing wells as well as new piezo-meter installations during the mining operation in consultation with Central Ground Water Authority/ State Ground Water Department. The Report on changes in Ground water level and quality shall be submitted on six-monthly basis to the Regional Office of the Ministry, CGWA and State Groundwater Department / State Pollution Control Board.  |
| 4.7   | In case, immediate mining scheme envisages intersection of ground water table, then Environmental Clearance shall become operational only after receiving formal clearance from CGWA. In case, mining operation involves intersection of ground water table at a later stage, then PP shall ensure that prior approval from CGWA and MoEFCC is in place before such mining operations. The permission for intersection of ground water table shall essentially be based on detailed hydro-geological study of the area.  |

| S. No | EC Conditions  |
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| 4.8   | Garland drains and collection pits shall be provided for each stock pile to arrest the run-off in the event of heavy rains and to check the water pollution due to surface run off.  |
| 4.9   | The project proponent shall monitor regularly ground water quality at least twice a year (pre and post monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognised under Environment (Protection) Act, 1986 and NABL accredited laboratories.   |
| 4.10  | The project proponent shall provide the slime disposal facility with impervious lining and collection wells for seepage. The water collected from the slime pond shall be treated and recycled.  |
| 4.11  | Adhere to Zero Liquid Discharge  |
| 4.12  | Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards.  |
| 4.13  | The project proponent shall practice rainwater harvesting to maximum possible extent.  |
| 4.14  | The project proponent shall make efforts to minimise water consumption in the steel plant complex by segregation of used water, practicing cascade use and by recycling treated water.   |
| 4.15  | The project proponent shall submit monthly summary report of continuous effluent monitoring and results of manual effluent testing and manual monitoring of ground water quality to Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.   |
| 4.16  | The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognised under Environment (Protection) Act, 1986 or NABL accredited laboratories. |

## 5. Noise And Vibration Monitoring And Prevention

| S. No | EC Conditions  |
|-------|--|
| 5.1   | The peak particle velocity at 500m distance or within the nearest habitation, whichever is closer shall be monitored periodically as per applicable DGMS guidelines.   |
| 5.2   | The illumination and sound at night at project sites disturb the villages in respect of both human and animal population. Consequent sleeping disorders and stress may affect the health in the villages located close to mining operations. Habitations have a right for darkness and minimal noise levels at night. PPs must ensure that the biological clock of the villages is not disturbed; by orienting the floodlights/ masks away from the villagers and keeping the noise levels well within the prescribed limits for day /night hours. |
| 5.3   | The Project Proponent shall take measures for control of noise levels below 85 dBA in the work environment. The workers engaged in operations of HEMM, etc. should be provided with ear plugs  |

| S. No | EC Conditions   |
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|       | /muffs. All personnel including laborers working in dusty areas shall be provided with protective respiratory devices along with adequate training, awareness and information on safety and health aspects. The PP shall be held responsible in case it has been found that workers/ personals/ laborers are working without personal protective equipment. |

## 6. Noise Monitoring And Prevention

| S. No | EC Conditions   |
|-------|---|
| 6.1   | The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time.   |
| 6.2   | Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report. |

## 7. Mining Plan

| S. No | EC Conditions  |
|-------|--|
| 7.1   | The Project Proponent shall adhere to approved mining plan, inter alia, including, total excavation (quantum of mineral, waste, over burden, inter burden and top soil etc.); mining technology; lease area; scope of working ( method of mining, overburden & dump management, O.B& dump mining, mineral transportation mode, ultimate depth of mining, concurrent reclamation and reclamation at mine closure; land-use of the mine lease area at various stages of mining scheme as well as at the end-of-life; etc.).                                      |
| 7.2   | The land-use of the mine lease area at various stages of mining scheme as well as at the end-of-life shall be governed as per the approved Mining Plan. The excavation vis-à-vis backfilling in the mine lease area and corresponding afforestation to be raised in the reclaimed area shall be governed as per approved mining plan. PP shall ensure the monitoring and management of rehabilitated areas until the vegetation becomes self-sustaining. The compliance status shall be submitted half-yearly to the MoEFCC and its concerned Regional Office. |

## 8. Energy Conservation Measures

| S. No | EC Conditions  |
|-------|--|
| 8.1   | Provide solar power generation on roof tops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly; |
| 8.2   | Provide LED lights in their offices and residential areas.   |

## 9. Land Reclamation

| S. No | EC Conditions   |
|-------|---|
| 9.1   | The slope of dumps shall be vegetated in scientific manner with suitable native species to maintain |

| S. No | EC Conditions   |
|-------|---|
|       | the slope stability, prevent erosion and surface run off. The selection of local species regulates local climatic parameters and help in adaptation of plant species to the microclimate. The gullies formed on slopes should be adequately taken care of as it impacts the overall stability of dumps. The dump mass should be consolidated with the help of dozer/ compactors thereby ensuring proper filling/ leveling of dump mass. In critical areas, use of geo textiles/ geo-membranes / clay liners / Bentonite etc. shall be undertaken for stabilization of the dump.             |
| 9.2   | Catch drains, settling tanks and siltation ponds of appropriate size shall be constructed around the mine working, mineral yards and Top Soil/OB/Waste dumps to prevent run off of water and flow of sediments directly into the water bodies (Nallah/ River/ Pond etc.). The collected water should be utilized for watering the mine area, roads, green belt development, plantation etc. The drains/ sedimentation sumps etc. shall be de-silted regularly, particularly after monsoon season, and maintained properly.  |
| 9.3   | The Overburden (O.B.), waste and topsoil generated during the mining operations shall be stacked at earmarked OB dump site(s) only and it should not be kept active for a long period of time. The physical parameters of the OB / waste dumps / topsoil dump like height, width and angle of slope shall be governed as per the approved Mining Plan and the guidelines/circulars issued by D.G.M.S. The topsoil shall be used for land reclamation and plantation.  |
| 9.4   | Check dams of appropriate size, gradient and length shall be constructed around mine pit and OB dumps to prevent storm run-off and sediment flow into adjoining water bodies. A safety margin of 50% shall be kept for designing of sump structures over and above peak rainfall (based on 50 years data) and maximum discharge in the mine and its adjoining area which shall also help in providing adequate retention time period thereby allowing proper settling of sediments/ silt material. The sedimentation pits/ sumps shall be constructed at the corners of the garland drains. |

## 10. Waste Management

| S. No | EC Conditions  |
|-------|--|
| 10.1  | Kitchen waste shall be composted or converted to biogas for further use.(to be decided on case to case basis depending on type and size of plant)          |
| 10.2  | The waste oil, grease and other hazardous waste shall be disposed of as per the Hazardous & Other waste (Management & Transboundary Movement) Rules, 2016. |

## 11. Transportation

| S. No | EC Conditions  |
|-------|--|
| 11.1  | The Main haulage road within the mine lease should be provided with a permanent water sprinkling arrangement for dust suppression. Other roads within the mine lease should be wetted regularly with tanker-mounted water sprinkling system. The other areas of dust generation like crushing zone, material transfer points, material yards etc. should invariably be provided with dust suppression arrangements. The air pollution control equipments like bag filters, vacuum suction hoods, dry fogging system etc. shall be installed at Crushers, belt-conveyors and other areas prone to air pollution. The belt conveyor should be fully covered to avoid generation of dust while transportation. PP shall take necessary measures to avoid generation of fugitive dust emissions. |

| S. No | EC Conditions  |
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| 11.2  | No Transportation of the minerals shall be allowed in case of roads passing through villages/habitations. In such cases, PP shall construct a 'bypass' road for the purpose of transportation of the minerals leaving an adequate gap (say at least 200 meters) so that the adverse impact of sound and dust along with chances of accidents could be mitigated. All costs resulting from widening and strengthening of existing public road network shall be borne by the PP in consultation with nodal State Govt. Department. Transportation of minerals through road movement in case of existing village/ rural roads shall be allowed in consultation with nodal State Govt. Department only after required strengthening such that the carrying capacity of roads is increased to handle the traffic load. The pollution due to transportation load on the environment will be effectively controlled and water sprinkling will also be done regularly. Vehicular emissions shall be kept under control and regularly monitored. Project should obtain Pollution Under Control (PUC) certificate for all the vehicles from authorized pollution testing centers. [If applicable in case of road transport]. |

## 12. Green Belt And Emp

| S. No | EC Conditions   |
|-------|---|
| 12.1  | Green belt shall be developed in an area equal to 33% of the plant area with a native tree species in accordance with CPCB guidelines. The greenbelt shall inter alia cover the entire periphery of the plant |
| 12.2  | The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration including plantation.                       |

## 13. Green Belt

| S. No | EC Conditions   |
|-------|---|
| 13.1  | The Project Proponent shall develop greenbelt in 7.5m wide safety zone all along the mine lease boundary as per the guidelines of CPCB in order to arrest pollution emanating from mining operations within the lease. The whole Green belt shall be developed within first 5 years starting from windward side of the active mining area. The development of greenbelt shall be governed as per the EC granted by the Ministry irrespective of the stipulation made in approved mine plan. |

## 14. Public Hearing And Human Health Issues

| S. No | EC Conditions  |
|-------|--|
| 14.1  | Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.  |
| 14.2  | The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms of Factory Act. |
| 14.3  | Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.   |

| S. No | EC Conditions   |
|-------|---|
| 14.4  | Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.   |
| 14.5  | Project Proponent shall make provision for the housing for workers/labors or shall construct labor camps within/outside (company owned land) with necessary basic infrastructure/ facilities like fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche for kids etc. The housing may be provided in the form of temporary structures which can be removed after the completion of the project related infrastructure. The domestic waste water should be treated with STP in order to avoid contamination of underground water. |

## 15. Corporate Environment Responsibility

| S. No | EC Conditions   |
|-------|---|
| 15.1  | The Project Proponent shall submit the time- bound action plan to the concerned regional office of the Ministry within 6 months from the date of issuance of environmental clearance for undertaking the activities committed during public consultation by the project proponent and as discussed by the EAC, in terms of the provisions of the MoEF&CC Office Memorandum No.22-65/2017-IA.III dated 30 September, 2020. The action plan shall be implemented within three years of commencement of the project.   |
| 15.2  | All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Mineral Beneficiation plants shall be implemented.  |
| 15.3  | The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest /wildlife norms/ conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report. |
| 15.4  | Self-environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.   |
| 15.5  | Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.  |
| 15.6  | A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.  |

## 16. Miscellaneous

| S. No        | EC Conditions   |
|--------------|---|
| <b>16.1</b>  | The above conditions will be enforced inter-alia, under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 along with their amendments and rules made there under and also any other orders passed by the Hon'ble Supreme Court of India/High Court and any other Court of Law relating to the subject matter. |
| <b>16.2</b>  | Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.   |
| <b>16.3</b>  | The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.  |
| <b>16.4</b>  | The project proponent shall monitor the criteria pollutants level namely; PM10, S02, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.  |
| <b>16.5</b>  | The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponents website permanently.  |
| <b>16.6</b>  | The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.   |
| <b>16.7</b>  | The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.  |
| <b>16.8</b>  | No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).  |
| <b>16.9</b>  | The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.   |
| <b>16.10</b> | The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.  |
| <b>16.11</b> | The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.  |
| <b>16.12</b> | The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.  |

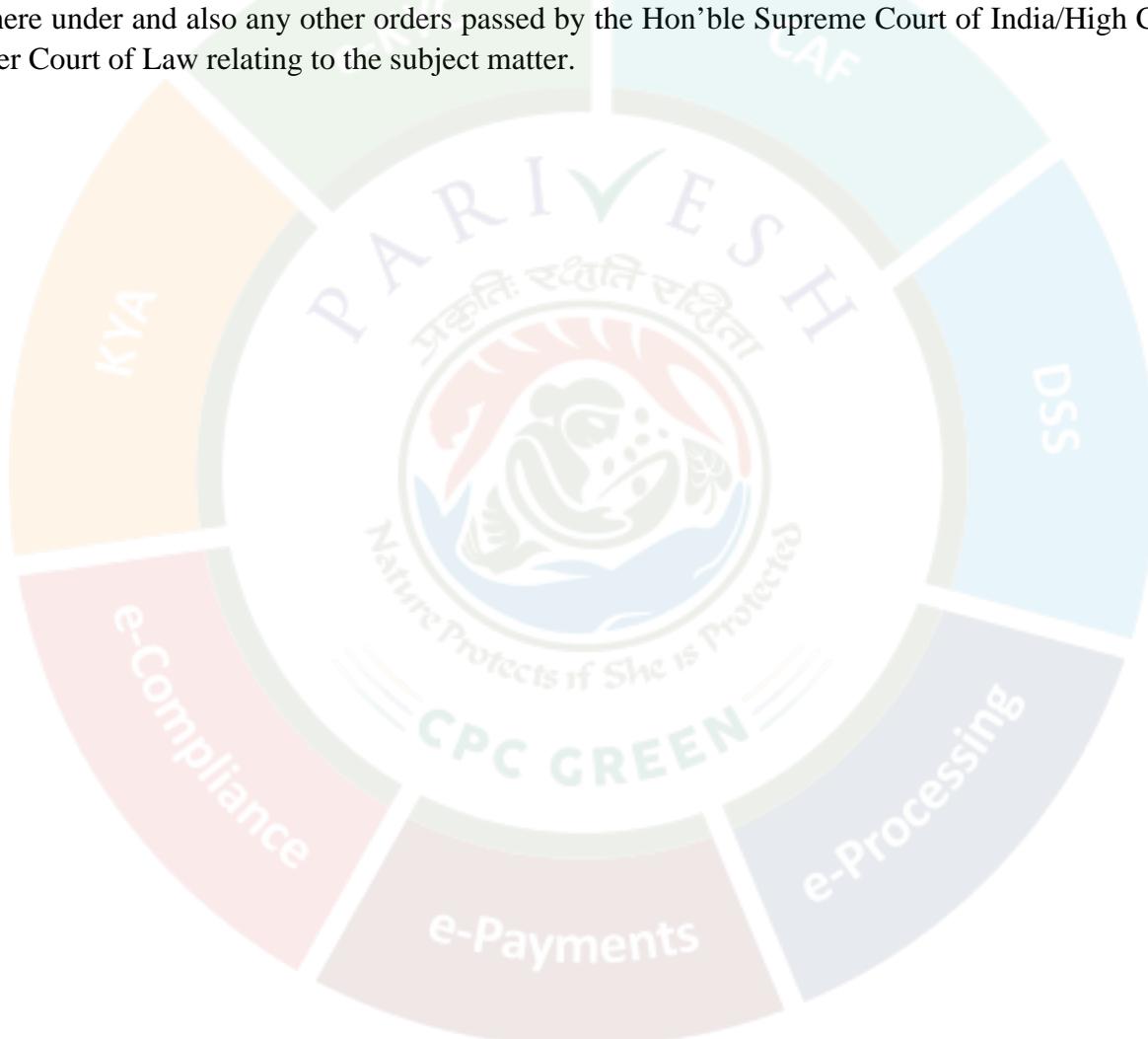
| S. No        | EC Conditions  |
|--------------|--|
| <b>16.13</b> | The concerned Regional Office of the MoEF&CC shall randomly monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the MoEF&CC officer(s) by furnishing the requisite data / information / monitoring reports.   |
| <b>16.14</b> | The Project Authorities should inform to the Regional Office regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.   |
| <b>16.15</b> | The Project Proponent shall submit six monthly compliance reports on the status of the implementation of the stipulated environmental safeguards to the MOEFCC & its concerned Regional Office, Central Pollution Control Board and State Pollution Control Board.   |
| <b>16.16</b> | Concealing factual data failure to comply with any or submission of false/ fabricated data and of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.   |
| <b>16.17</b> | In pursuant to Ministrys O.M No 22-34/2018-IA.III dated 16.01.2020 to comply with the direction made by Honble Supreme Court on 8.01.2020 in W.P. (Civil) No 114/2014 in the matter Common Cause vs Union of India, the mining lease holder shall after ceasing mining operations, undertake regrassing the mining area and any other area which may have been disturbed due to other mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. |
| <b>16.18</b> | The Project Proponent shall prepare digital map (land use & land cover) of the entire lease area once in five years purpose of monitoring land use pattern and submit a report to concerned Regional Office of the MoEF&CC.  |
| <b>16.19</b> | The Ministry or any other competent authority may alter/modify the above conditions or stipulate any further condition in the interest of environment protection.  |
| <b>16.20</b> | A separate 'Environmental Management Cell' with suitable qualified manpower should be set-up under the control of a Senior Executive. The Senior Executive shall directly report to Head of the Organization. Adequate number of qualified Environmental Scientists and Mining Engineers shall be appointed and submit a report to RO, MoEF&CC.  |
| <b>16.21</b> | Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.  |
| <b>16.22</b> | The above conditions will be enforced inter-alia, under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 along with their amendments and rules made there under and also any other orders passed by the Hon'ble Supreme Court of India/High Court and any other Court of Law relating to the subject matter.                |

## 17. Corporate Environment Responsibility (Cer)

| S. No | EC Conditions   |
|-------|---|
| 17.1  | The Project Proponent shall submit the time- bound action plan to the concerned regional office of the Ministry within 6 months from the date of issuance of environmental clearance for undertaking the activities committed during public consultation by the project proponent and as discussed by the EAC, in terms of the provisions of the MoEF&CC Office Memorandum No.22-65/2017-IA.III dated 30 September, 2020. The action plan shall be implemented within three years of commencement of the project. |

**Additional EC Conditions**

The above conditions will be enforced inter-alia, under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 along with their amendments and rules made there under and also any other orders passed by the Hon'ble Supreme Court of India/High Court and any other Court of Law relating to the subject matter.



**Expansion of Limestone Production Capacity of M/s. JK Lakshmi Cement Ltd., Limestone Mines (Mine Lease II of Area 252.105 Ha.) Production Capacity from 0.3 Million TPA to 1.35 Million TPA, for Which Top Soil: 0.0243 Million TPA Overburden: 0.0972 Million TPA, Inter Burden: 0.0945 Million TPA, Total Excavation (ROM): 1.566 Million TPA) at Villages-Semariya, Ghikuria & Nandini Khundini, Tehsil- Ahiwara (Old Teh. - Dhamdha), District- Durg (Chhattisgarh).**

**Detail of the Project:**

The details of the project submitted by the Project Proponent are given under:

**i. Project details:**

|  |  |  |
|--|--|--|
| Name of the Proposal                                   | Expansion of Limestone production capacity of M/s. JK Lakshmi Cement Ltd., Limestone mines (Mine Lease II of area 252.105 Ha.) production capacity from 0.3 million TPA to 1.35 million TPA, for which Top Soil: 0.0243 million TPA Overburden: 0.0972 million TPA, Inter burden: 0.0945 million TPA, Total Excavation (ROM): 1.566 million TPA At Villages - Semariya, Ghikuria & Nandini Khundini, Tehsil- Ahiwara (Old Teh.- Dhamdha), District- Durg (Chhattisgarh). |  |
| Location   | Villages   | Semaria, Ghikuriya and Nandani Khundini, |
|  | Tehsil/Taluka  | Ahiwara (Old Teh. Dhamdha)               |
|  | District   | Durg                                     |
|  | State / UT   | Chhattisgarh                             |
|  | Latitudes  | N 21° 24' 6.35" – N 21°25'47.34"         |
|  | Longitudes   | E 81° 23' 9.00" – E 81°24'58.73"         |
|  | Sol Topo sheet No.   | 64G/7, 64G/6, 64G/11                     |
| Company's Name   | M/s. JK Lakshmi Cement Limited (JKLCL)   |  |
| Accredited Consultant and certificate no. and Validity | M/s Anacon Laboratories Pvt. Ltd., Nagpur<br>Accreditation No.: NABET/EIA/2326/RA 0304, dated 13.03.2024 valid up to 29.09.2026  |  |
| KML file   | Submitted with EC Proposal   |  |

|              |  |
|--------------|--|
| Seismic zone | Site falls in zone-II as per IS 1893 (Part-I): 2002. Hence, seismically it is a stable zone. |
|--------------|--|

**ii. Category details:**

|                                  |   |
|----------------------------------|---|
| Category of the project          | Category A  |
| Schedule No.                     | As per EIA Notification S.O. 1533 (E), dated 14 <sup>th</sup> September 2006 and subsequent amendment in compliance to S.O. 1530 (E) dated 06 <sup>th</sup> April 2018. |
| Mining lease Area (MLA) (in ha.) | 252.105 Ha.   |
| General Conditions (if any)      | -   |

**iii. ToR Details:** PP has obtained ToR vide letter no. F. No. J-110105/73/2020-IA.II (M) dated 20.01.2021 for Expansion of Limestone Production Capacity of M/s. JK Lakshmi Cement Ltd., Limestone Mines (Mine Lease II of Area 252.105 Ha.) Production Capacity from 0.3 Million TPA to 1.35 Million TPA, for Which Top Soil: 0.0243 Million TPA Overburden: 0.0972 Million TPA, Inter Burden: 0.0945 Million TPA, Total Excavation (ROM): 1.566 Million TPA) at Villages-Semariya, Ghikuria & Nandini Khundini, Tehsil- Ahiwara (Old Teh. - Dhamdha), District- Durg (Chhattisgarh).

**iv. EC Details:**

| Date of application | Proposal No/ File No  | Consideration by EAC | Details of EC  | Date of accord |
|---------------------|-----------------------|----------------------|--|----------------|
| 25.10.2007          | IA/CG/MIN/524784/2025 | EAC Non Coal Mining  | 1 <sup>st</sup> EC from MOEF&CC through vide F. No. J-11011/1170/2007-IA II (I), Existing Integrated Cement Plant is operational | 13.05.2009     |

|                    |  |  |  |  |
|--------------------|--|--|--|--|
|                    |  |  | <p>for – Clinker (1.98 Million TPA), Cement - PSC, PPC, OPC, &amp; COC (5 MTPA), CPP (20 MW) and WHRB (10 MW) dated 13-05-2009.</p> <p>[This Project have Single EC Granted for Cement Plant and Captive Limestone Mine Leases ML- I of 267.695 ha. and ML- II of 252.105 ha.]</p> |  |
| Additional details | <p>Amendments-</p> <ol style="list-style-type: none"> <li>1. Incorporation of villages in address dated on 27<sup>th</sup> Feb 2010.</li> <li>2. Change of mode of Limestone transportation dated on 23<sup>rd</sup> July, 2015.</li> <li>3. Extension of EC validity was obtained for completion of balance works dated on 4<sup>th</sup> Sept., 2015.</li> <li>4. Opening of second pit in Mining Lease area (267.695 Ha) for blending with high grade Limestone to optimize life of mines of the project dated on 7<sup>th</sup> June, 2017.</li> <li>5. Reduction in Mining Lease area from 281.339 to 252.105 Ha. And interception of Ground Water table during mining operation dated on 20<sup>th</sup> July 2018.</li> <li>6. Change in Configuration of Clinker production of 1.5 MTPA to 1.98 MTPA through Up-gradation and Optimization in Phase-I under the provisions of EIA Notification, 2006 dated on 14<sup>th</sup> Nov 2018.</li> </ol> |  |  |  |

**v. Details of Mine Lease in chronological manner:**

| S. no | Prospecting License/ Letter of Intent (LoI)/ Grant of Mine lease and Lr No | Date of the grant | Name of the Mineral & (Major/ Minor) | Period of Grant          | Granted by    | Mine lease area in Ha |
|-------|--|-------------------|--------------------------------------|--------------------------|---------------|-----------------------|
| 1     | IN-CG0429686724<br>6356O   | 28.12.2016        | Limestone<br>(Major Mineral)         | 28/12/2016 to 27/12/2066 | Govt of India | 252.105               |

| S. No. | Details of grant of Mine Lease deed execution  | Period of Grant |            | Name of the Mineral | Mine lease area in Ha |
|--------|--|-----------------|------------|---------------------|-----------------------|
|        |  | From            | To         |                     |                       |
| 1      | M/s. JK Lakshmi Cements Limited has existing requirement is 4.8 million TPA from both mining leases (267.695 ha & 252.105 ha) as per EC out, however 3.5 million TPA (3.2 million TPA from 267.695 ha & 0.3 million TPA from 252.105 ha) are under operation. The mine capacities after expansion will | 28/12/2016      | 27/12/2066 | Limestone           | 252.105               |

|  |  |  |  |  |
|--|--|--|--|--|
| <p>be 8.0 MTPA which are planned in the following manner: – 6.65 MTPA of limestone from the lease over an area of 267.695 ha (ML-I) – 1.35 MTPA of limestone over an area of 252.105 ha (ML-II). Both the leases constituting Limestone Mine are contiguous and the continuity of mineral existence has been established. The two leases are operated differently.</p> |  |  |  |  |
|--|--|--|--|--|

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

|  |  |
|--|--|
| Private land                               | 249.321 Ha (Private Land - 148.53 Ha. + Other Land 100.791 Ha. |
| Government land                            | 2.784 Ha   |
| Forest land                                | Nil  |
| Total Mining lease area (MLA), ha          | 252.105 Ha   |
| Private land for crusher, workshop & other | Land Use Category: At end of lease period/mineral exhausted    |

|                                 |   |
|---------------------------------|---|
| infrastructure outside the MLA  | Area under pit for mining: 154.45*<br>Area under Roads: 0<br>Area under Infrastructure: 0<br>Area under Top Soil Stack: 0<br>Area under OB Dump/Soil: 0<br>Area to be back filled: 30*<br>Area under Plantation: 97.655 |
| Additional information (if any) | 30 Ha. Area will be back filled from 154.45 ha of exhausted area at the end of lease period thereby 124.45 ha will be created as reservoir.   |

**vii. Mining plan details:**

|  |  |  |
|--|--|--|
| Mining Plan including Progressive Mine Closure Plan (approved by Indian Bureau of Mines/DMG) | Letter No.   | RPR/DURG/LIMESTONE/1479/RMP/2025-26 (Approved Date 12/08/2025) |
|  | Date   | 12/08/2025   |
|  | Mineral & (Major/Minor)  | Limestone (Major Mineral)                                      |
|  | Mine Lease Area, Ha  | 252.105 Ha   |
|  | Validity   | 2026-27 to 2030-31   |
| <b>Mining Parameters</b>   | <b>Quantitative Description</b>  |  |
| Method of Mining   | Fully mechanized Open Cast Mining  |  |
| Drilling/Blasting  | Blasting operations will be carried out under the supervision of competent person. Ground vibrations will be regularly monitored for each blast with minimate (Seismograph). Presently JKCL are not doing secondary blasting and the oversize boulders generated during blasting are broken using hydraulic rock beaker but in future if needed JKCL can go for secondary blasting also. |  |
| Geological Reserves (Total Mineral Resource)   | 179.673 Million Tonnes   |  |
| Mineable Reserves (Mineral Reserves)   | 94.961 Million Tonnes  |  |

|  |  |
|--|--|
| Breakup of Total Excavation (Topsoil/OB/SB/IB/Mineral Rejects/ Waste, MTPA)                | <b>Lime Stone:</b> 1.35 million TPA<br>Top Soil: 0.0243 million TPA<br>Overburden: 0.0972 million TPA<br>Interburden: 0.0945 million TPA<br>Total Excavation (ROM): 1.566 million TPA  |
| Life of mine   | 70 Years   |
| Mine Bench Height & Bench Width  | 9 m & More than the bench height   |
| No. of Mine Benches  | 6  |
| Existing Depth, m bgl  | 9 m bgl  |
| Ultimate Depth of Mining, m bgl  | ML area is in 9 blocks and avg. depth is 65 m  |
| Ground Water Table, m bgl  | 264-269 AMSL   |
| Details of ground water intersection   | NOC for Water Withdrawal (160 KLD) has been obtained from WRD, CG and NOC from CGWA (NOC from WRD, CG: 11.09.2012 Validiy 13.09.2048)<br>(NOC from CGWA: 19.05.2025 Valid up to 25.09.2026)  |
| Individual bench slope   | 80 - 90 degrees  |
| Overall pit slope  | 45 degrees   |
| Details of existing/ proposed Crusher  | No crushing activities is being carried out at ML-II, extracted limestone transported to ML- I for crushing activities.  |
| Mineral Beneficiation  | -  |
| RoM output size  | 1.566 MTPA   |
| Transportation details including capacity of dumper/tipper, mode of transport and distance | The crushed limestone from crusher located in ML - I (Limestone crushing common facilities located at ML-I being ML – II mine is contiguous to ML - I) are loaded and transportation of crushed materials to cement plant is being done at present by road using covered dumpers. This is temporary in nature till the closed pipe conveyor gets commissioned. As construction work of closed pipe conveyor is not completed due to nearly 372 mtr piece of land is still to be acquired from SAIL |

|  |   |
|--|---|
|  | + BSP. (Total length of closed pipe conveyor is 5.5 Km our of which 92% i.e 5.090 KM has been already completed). Dumpers capacity: 25 tonnes |
| Generation of Topsoil/OB & its Management during plan period & conceptual period             | Top Soil: 0.0243 million TPA<br>Overburden: 0.0972 million TPA<br>Interburden: 0.0945 million TPA   |
| Generation of Mineral Rejects/ Waste & its Management during plan period & conceptual period | Solid Waste generated is in the form of Soil & Interstitial clay (OB) will be stacked separately and used for plantation purposes.            |

**viii. Water requirement:**

|  |   |               |         |
|--|---|---------------|---------|
| Total water requirement  | ...   | Fresh water   | 160 KLD |
|  |   | Treated water | ...     |
| Source   | Shivnath river, Ground water and Mine sump.   |               |         |
| Permission for withdrawal/ intersection along with details of grant and its validity | PP has obtained No Objection Certificate (NoC) for Ground Water Abstraction on 19.05.2025 for dewatering of 1618m3/day. |               |         |

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

| Particulars                  | Particular's Name  | Distance & Directions  |
|------------------------------|--|--|
| Village                      | Ghukuriya  | 0.43 km in ESE direction   |
| Town                         | Bhilai   | 22.30 km/SSW   |
| Highway                      | 1.SH7- Durg Dhamdha Road<br>2.Nandini Road   | 1. 1.8 km/SW<br>2. 2.76 km/WSW   |
| Interstate Boundary          | Madhya Pradesh   | 67.38 km/W   |
| Railway Station/Railway line | Kumhari  | 20.62 km/SE  |
| Water Bodies                 | 1. Shivnath River<br>2. Lor Nala<br>3. Ghuri Nala<br>4. Girhola Minor<br>5. Semariya Minor<br>6. Ghikuriya Minor | 1. 0.75 NW<br>2. 7.2 SE<br>3. 8.5 NE<br>4. 1.54 ESE<br>5. 2.37 ENE<br>6. Adjacent SE |

|        |  |  |
|--------|--|--|
|        | 7. Sahgaon Minor<br>8. Seasonal Drainage<br>9. Kokri Minor | 7. 2.32 WSW<br>8. Adjacent & within<br>mine-E<br>9. 1.09 N |
| Forest | None within 10 km radius area                              |  |

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

| Forest Land/<br>Protected<br>Area/<br>Environmental<br>Sensitivity<br>Zone         | Yes/No | Details of Certificate/letter issued by the concerned Department mentioning the Lr no, date of grant and remarks  |
|--|--------|---|
| Forest Land within the mine lease area and (if yes) status of Forest Clearance     | No     | Forest clearance is not required, PP has submitted letter dated 30.04.2025 regarding no forest area is being affected in the mining area.   |
| National Park  | No     | PP submitted a letter dated 20.03.2025 issued by the Additional Principal Chief Conservator of Forest (Wildlife), Raipur stating that there are no national park, Wildlife sanctuary, Biosphere reserve, Wildlife corridors, Tiger/ Elephant reserve of the project site.   |
| Wildlife Sanctuary   | No     |   |
| Elephant/Tiger Reserve   | No     |   |
| Eco-Sensitive Zone(ESZ) /Eco-Sensitive Area (ESA)                                  | No     |   |
| Coastal Regulation Zone (CRZ)  | No     | --  |
| Schedule-I species (No.s and name of schedule-I species with authenticated letter) | Yes    | An authenticated list of flora & fauna has been obtained from Principal Chief Conservator of Forest Cum Chief Wild Life Warden, Chhattisgarh dated 05.05.2025. Followed by Letter 03.06.2025.<br>As per the approved wildlife conservation and management plan by PCCF (Wildlife & Biodiversity Conservation) cum Chief Wildlife Warden at Aranya Bhawan, North Block, Sector-19, Atal Nagar, |

|                            |     |   |
|----------------------------|-----|---|
|                            |     | District – Raipur, Chhattisgarh, dated 05.05.2025, there are four nos. of Schedule I Species found which are Sloth bear ( <i>Melursus ursinus</i> ), Monitor Lizard ( <i>Varanus varius</i> ), Python ( <i>Python molurus</i> ), and Peacock ( <i>Pavo cristatus</i> ). |
| Wildlife Conservation Plan | Yes | The Wildlife Conservation Plan was approved by PCCF (Wildlife & Biodiversity Conservation) cum Chief Wildlife Warden at Aranya Bhawan, North Block, Sector-19, Atal Nagar, District – Raipur, Chhattisgarh, on 05.05.2025, followed by Letter 03.06.2025.               |

**xi Green belt/plantation details:**

|  |   |
|--|---|
| Proposed area for green belt/plantation and no. of saplings proposed   | Proposed plantation/ greenbelt i.e. 8.3 ha will be completed in upcoming year with 12500 Nos of saplings.<br><br><b>Note:</b><br>Proposed plantation within lease area is 0.65 ha while plantation outside lease area is 7.65 Ha.         |
| Budget for green plant & plantation till the end of life of mine.      | <b>Budget for the greenbelt development</b><br>Existing capital cost – 150 lakh,<br>Recurring cost – 25 Lakh<br><b>Budget for Upcoming 5 year Greenbelt development</b><br>Capital cost – 30 Lakh,<br>Recurring cost – 4.5 Lakh           |
| Budget for nursery   | 15 Lakh   |
| Details of existing plantation and its survival rate                   | Greenbelt has been developed covering an area of 46.57 ha with 89960 nos. of saplings with survival rate of 90%.<br><br><b>Note:</b><br>Existing plantation within lease area is 10.87 Ha while plantation outside lease area is 35.7 Ha. |
| No. of tree cuts in the mine lease area and compensatory afforestation | No significant tree cutting involved in the project.  |

| Particulars for Green belt/plantation             | Area covered (in Ha) |
|---|----------------------|
| 7.5 m barrier & non-mineralized zone              | <b>8.6</b>           |
| 50 m safety zone of nallah, roads, electric lines | <b>1.4</b>           |
| 500 m safety zones of nearest habitation villages | <b>1.5</b>           |

**xii Baseline detail:**

| Baseline Data (Air / Water / Noise / Soil / Hydro geological study/ Traffic Study/ others) |   |  |
|--|---|--|
| Period of baseline data collection   | 1 <sup>st</sup> Dec, 2023 to 29 <sup>th</sup> Feb, 2024 |  |
| Season (Summer / Pre-monsoon / Post-monsoon / Winter)                                      | Winter  |  |
| Predominant Wind direction (From)  | East (20.74%)   |  |
| Ambient Air Quality (no. of locations)   | 8   | <ol style="list-style-type: none"> <li><b>PM<sub>10</sub></b>- 40.2 to 76.8</li> <li><b>PM<sub>2.5</sub></b>- 14.3 to 34.3</li> <li><b>SO<sub>2</sub></b>- 4.6 to 14.7</li> <li><b>NO<sub>2</sub></b>- 10.3 to 24.8</li> </ol> |

|  |  |  |
|--|--|--|
| ns) and results                              |  |  |
| Noise level (no. of locations) and results   | 8  | <ol style="list-style-type: none"> <li><b>Residential Area</b> – 47.1 to 52.3 dBA for day time and 39.7 to 42.9 dBA for night time.</li> <li><b>Commercial Area</b> – 54.1 to 57.3 dBA for day time and 47.9 to 49.2 dBA for night time.</li> <li><b>Silence Zone</b> – 45.9 dBA for day time and 38.1 dBA for night time.</li> <li><b>Industrial area</b> – 56.1 dBA to 64.8 dBA for day time and 46.1 dBA to 56.2 dBA for night time.</li> </ol> |
| Water Quality (no. of locations) and results | 8<br>(Ground Water)  | <ol style="list-style-type: none"> <li><b>pH</b> -7.16 to 8.17</li> <li><b>Total hardness</b> – 166.52 to 320.84 mg/l</li> <li><b>Total Dissolved Solid</b>- 324 to 594 mg/l</li> </ol>  |
|  | 6<br>(Surface Water)   | <ol style="list-style-type: none"> <li><b>pH</b>– 7.16 to 8.17</li> <li><b>Total hardness</b> – 190.76 to 278.82 mg/l</li> <li><b>Total Dissolved Solids</b> – 365 to 584 mg/l</li> <li><b>Dissolved Oxygen</b> – 5.6 to 6.2 mg/l</li> <li><b>BOD</b> – 2.76 to 5.19 mg/l</li> <li><b>COD</b> – 7.62 to 26.14 mg/l</li> </ol>  |
| Soil Quality (no. of locations) and results  | 8  | <ol style="list-style-type: none"> <li><b>pH</b> –6.52 to 7.64</li> <li><b>Organic Matter</b> –1.16% to 1.98%</li> <li><b>Nitrogen</b> - 118.32 – 243.82 kg/ha</li> <li><b>Phosphorous</b> - 17.34 – 44.27 kg/ha</li> <li><b>Potassium</b> - 259.10 – 343.81 kg/ha</li> <li><b>Texture</b> – Sandy clay loam</li> </ol>  |
| Hydro geological study and results           | Pre-Monsoon depth to water Level – 9.5 to 12.1 mbgl<br>Post-monsoon depth to water Level – 1.5 to 7.8 mbgl |  |
| Traffic study (no. of locations)             | 1<br>(Ahi war a- Berl  | Existing and Changed Level of Service on Ahiwara-Berla Roa   |

| ns) and results  | a Roa d)                                    | Relevant Standard (Capacity as per IRC: 64-1990) From the results it is observed that after proposed project, the |                           |                       |              |  |  |
|--|---|---|---------------------------|-----------------------|--------------|--|--|
| Roa d  | Increas ed PCU's – State/N ational Highwa y | V (Volu me in PCU/ Day)   | C (Cap acity in PCU/ Day) | Mod ified V/C Rati on | Lo S         |  |  |
| Ahiw ara-Berl a Roa d  | 4722  | 4722  | 1500 0                    | 0.31 48               | Ve ry G oo d |  |  |
| level of service on Ahiwara – Berla Road will be "B (0.2 to 0.4)" i.e., Very Good. |   |   |                           |                       |              |  |  |

### xiii Public Hearing (PH) Details:

|   |   |          |  |
|---|---|----------|--|
| Advertisement for PH with date (name of major national daily and one regional vernacular daily newspaper) | Advertisement/Public Notice was published in English newspaper in "Times of India" on 17/10/2024 and in Hindi in "Navbharat" on 17/10/2024 for information of the stakeholders to invite comments about present mining operations and their redressal on the above project. |          |  |
| Date of PH  | The Chhattisgarh Environmental Conservation Board, Chhattisgarh conducted Public Consultation for the proposed brownfield project of M/s. JK Lakshmi Cement Ltd. (ML – II, Area 252.105 Ha.) on 20.11.2024 at 2:00 PM   |          |  |
| Venue   | Village – Ghikuria, Near JK Lakshmi Cement Limestone Mines, Tehsil – Ahiwara (Old Tehsil Damdha), District – Durg, Chhattisgarh.  |          |  |
| Chaired by  | Name  | Position |  |
|   | Mr. Arvind Kumar Ekka   | Chairman |  |

|   |  |  |
|---|--|--|
|   | Additional District Magistrate, District Durg  |  |
|   | Dr. (Mrs.) Anita Sawant<br>(Regional Officer)<br>Chhattisgarh Environment Conservation Board, Durg-Bhilai  | Member   |
|   | Other officials of CECB; & Police Department Govt. of C.G.   | As support officials staff                                       |
|   | Mr. Mukul Shriwastawa  | Sr. Vice President Plant Head, M/s. JK Lakshmi Cement Ltd., Durg |
|   | Mr. Shrikant B. Vyawhare   | Head of the EIA Division, Anacon Laboratories Pvt. Ltd., Nagpur. |
| Main issues raised during PH  | Major issues, demands and suggestions raised during public hearing related to employment to local people, Demand to Health camp and hospital, Enhancement of school facilities & drinking water facilities, Pond beautification, Playground-sports equipment, water level, blasting, plantation, pollution, parking-road accidents, development of villages, land, and help to handicapped people etc. |  |
| Budget proposed for addressing issues raised during PH over 3 years | Total CER budget for 3 years is Rs. 35 Lakhs and it will be spent for social and infrastructural development activities.   |  |

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

|                      |   |
|----------------------|---|
| <b>Particulars</b>   | Details of Letter along with date of grant and validity                       |
| Consent to Establish | vide letter no. 5016/TS/CECB/2018<br>dated: 11/09/2018                        |
| Consent to Operate   | vide letter no. 5875/TS/CECB/2023<br>dated: 19.10.2023 Valid up to 30.11.2025 |

| Certified Compliance Report and Inspection date   | <ul style="list-style-type: none"> <li>M/s. JKCL submitted its request for Certified compliance Report to IRO MOEFCC Raipur regional office; on dated 05.07.2024.</li> <li>The Sub office, MoEFCC, Raipur has done site inspection to our Cement Plant on dated 26.07.2024 and issued Certified Compliance Report on 26.07.2024 in which they have raised partial compliances and non-compliances.</li> <li>Action Taken Report on the partial compliances of imposed conditions of Environmental Clearance No.J-11011/1170/2007-IA 11(1) dated 13.05.2009 and its subsequent amendments, submitted to MoEFCC, New Delhi dated: 26.09.2024 and submitted to MoEFCC, sub Office Raipur Dated 08.11.2024 with request to issue closure report for observation in CCR.</li> <li>Closure Report with compliance of partial compliances has been received by Vide F No 5-236/09/(Env)/10 Dated 15<sup>th</sup> April, 2025 from IRO, MoEFCC Aranya Bhawan, North Block, Sector 19 Naya Raipur, Atal Nagar, Raipur, Chhattisgarh.</li> <li><b>Present Status:</b> <u>Action Closure Letter (ACL) wrt. EC Status received from CMD – I.A. Division, MoEFCC, New Delhi dtd. 13.06.2025 (F. Number I A – J – 11014 / 234 / 2024 – I A – I) – All existing EC Conditions are complied.</u></li> </ul> |           |                    |                       |       |                       |          |                       |          |                      |          |                      |          |                           |         |                              |           |                            |         |                              |          |                            |          |                              |         |
|---|---|-----------|--------------------|-----------------------|-------|-----------------------|----------|-----------------------|----------|----------------------|----------|----------------------|----------|---------------------------|---------|------------------------------|-----------|----------------------------|---------|------------------------------|----------|----------------------------|----------|------------------------------|---------|
| Certified Production Details from the inception of the mine (in tabular form against the EC capacity) | <p>PP has submitted the authentic Year-wise certified past production details vide letter dated 02.05.2025 issued from Collector Office (Mineral Branch) District Durg, (Chhattisgarh) are given below:</p> <table border="1"> <thead> <tr> <th>Year-wise</th> <th>ML-2 (252.105 ha.)</th> </tr> </thead> <tbody> <tr> <td>July 2018 to Dec 2018</td> <td>15.96</td> </tr> <tr> <td>Jan 2019 to June 2019</td> <td>28214.53</td> </tr> <tr> <td>July 2019 to Dec 2019</td> <td>31751.83</td> </tr> <tr> <td>Jan 2020 to June2020</td> <td>63752.16</td> </tr> <tr> <td>July 2020 to Sep2020</td> <td>19581.18</td> </tr> <tr> <td>October 2020 to March2021</td> <td>2380.06</td> </tr> <tr> <td>April 2021 to September 2021</td> <td>111317.40</td> </tr> <tr> <td>October 2021 to March 2022</td> <td>2567.34</td> </tr> <tr> <td>April 2022 to September 2022</td> <td>68017.20</td> </tr> <tr> <td>October 2022 to March 2023</td> <td>55108.96</td> </tr> <tr> <td>April 2023 to September 2023</td> <td>1984.94</td> </tr> </tbody> </table>   | Year-wise | ML-2 (252.105 ha.) | July 2018 to Dec 2018 | 15.96 | Jan 2019 to June 2019 | 28214.53 | July 2019 to Dec 2019 | 31751.83 | Jan 2020 to June2020 | 63752.16 | July 2020 to Sep2020 | 19581.18 | October 2020 to March2021 | 2380.06 | April 2021 to September 2021 | 111317.40 | October 2021 to March 2022 | 2567.34 | April 2022 to September 2022 | 68017.20 | October 2022 to March 2023 | 55108.96 | April 2023 to September 2023 | 1984.94 |
| Year-wise   | ML-2 (252.105 ha.)  |           |                    |                       |       |                       |          |                       |          |                      |          |                      |          |                           |         |                              |           |                            |         |                              |          |                            |          |                              |         |
| July 2018 to Dec 2018   | 15.96   |           |                    |                       |       |                       |          |                       |          |                      |          |                      |          |                           |         |                              |           |                            |         |                              |          |                            |          |                              |         |
| Jan 2019 to June 2019   | 28214.53  |           |                    |                       |       |                       |          |                       |          |                      |          |                      |          |                           |         |                              |           |                            |         |                              |          |                            |          |                              |         |
| July 2019 to Dec 2019   | 31751.83  |           |                    |                       |       |                       |          |                       |          |                      |          |                      |          |                           |         |                              |           |                            |         |                              |          |                            |          |                              |         |
| Jan 2020 to June2020  | 63752.16  |           |                    |                       |       |                       |          |                       |          |                      |          |                      |          |                           |         |                              |           |                            |         |                              |          |                            |          |                              |         |
| July 2020 to Sep2020  | 19581.18  |           |                    |                       |       |                       |          |                       |          |                      |          |                      |          |                           |         |                              |           |                            |         |                              |          |                            |          |                              |         |
| October 2020 to March2021   | 2380.06   |           |                    |                       |       |                       |          |                       |          |                      |          |                      |          |                           |         |                              |           |                            |         |                              |          |                            |          |                              |         |
| April 2021 to September 2021  | 111317.40   |           |                    |                       |       |                       |          |                       |          |                      |          |                      |          |                           |         |                              |           |                            |         |                              |          |                            |          |                              |         |
| October 2021 to March 2022  | 2567.34   |           |                    |                       |       |                       |          |                       |          |                      |          |                      |          |                           |         |                              |           |                            |         |                              |          |                            |          |                              |         |
| April 2022 to September 2022  | 68017.20  |           |                    |                       |       |                       |          |                       |          |                      |          |                      |          |                           |         |                              |           |                            |         |                              |          |                            |          |                              |         |
| October 2022 to March 2023  | 55108.96  |           |                    |                       |       |                       |          |                       |          |                      |          |                      |          |                           |         |                              |           |                            |         |                              |          |                            |          |                              |         |
| April 2023 to September 2023  | 1984.94   |           |                    |                       |       |                       |          |                       |          |                      |          |                      |          |                           |         |                              |           |                            |         |                              |          |                            |          |                              |         |

|  |                              |                  |
|--|------------------------------|------------------|
|  | October 2023 to March 2024   | 103407.61        |
|  | April 2024 to September 2024 | 63.48            |
|  | October 2024 to March 2025   | 122603.98        |
|  | <b>Total</b>                 | <b>610730.63</b> |

**xv. Rehabilitation & Resettlement (R&R): NA**

**xvi Court case details:**

|   |   |
|---|---|
| Court Case, No and its present status             | None  |
| Undertaking by Project Proponent w.r.t court case | There is no court case pending against the proposed project. An undertaking in this regard dated 04.06.2025 is submitted. |

**xvii Affidavit/Undertaking details:**

|  |  |
|--|--|
| Affidavit as per Ministry's OM dated 30.05.2018    | As per the OM dated 30.05.2018, an Affidavit dated 29.03.2025 stating that we will comply with all the statutory requirements and as per the judgment of Hon'ble SC order dated 02/08/2017 in Writ Petition (Civil) No. 114 of 2014 in the matter of Common Cause Vs Union of India is attached. |
| Undertaking by Project Proponent in EIA/EMP report | Undertaking by the Project Proponent is submitted in the EIA/EMP Report  |
| Undertaking by Consultant in EIA/EMP report        | Undertaking vide letter dated 04.06.2025 by the consultant is submitted in the EIA/EMP Report  |
| Plagiarism Certificate                             | PP has submitted the Plagiarism Certificate vide letter dated 31.05.2025.  |

**xviii EDS/ADS details (If any):**

**EDS generated on dated 21.03.2025 and reply submitted on 07.05.2025**

| <b>S.No</b> | <b>EDS Points</b>  | <b>Reply by Project Proponent</b>   |
|-------------|--|---|
| 1.          | PP needs to submit the detail chronology of mine lease by mentioning all events along with their supporting documents. | The detailed chronology of Mine Lease (Mine Lease II of Area 252.105 Ha.) along with supporting documents are provided to MoEFCC, New Delhi.  |
| 2.          | PP needs to submit the authenticated list of flora and fauna as per the Wildlife (Protection) Amendment Act, 2022.     | No forest, national park, wildlife sanctuary, or biosphere reserve, etc. are present within the 10 km radius of the project site.<br><br>The authenticated list provided in approved wildlife conservation and management plan vide letter dated 03.06.2025.  |
| 3.          | PP needs to submit the latest Certified Compliance Report as per Ministry's OM dated 08.06.2022.                       | The IRO, MoEFCC, Raipur issued Certified compliance report on <b>26.07.2024</b> in which they have raised some partial compliances. The detailed action taken report was prepared and submitted by M/s. JKCL vide Lettertr.<br>No.JKLC/DURG/ENV/MOEF&CC/IRO/EC/01 dated. 26.09.2024. We have done all the compliances as per EC and CCR. <b>Closure Report with compliance of partial compliances</b> has been received by Vide F No 5-236/09/(Env)/10 Dated 15 <sup>th</sup> April, 2025 from IRO, MoEFCC Aranya Bhawan, North Block, Sector 19 Naya Raipur, Atal Nagar, Raipur, Chhattisgarh. |
| 4.          | PP needs to submit the cumulative assessment report by evaluating the impact of both existing mine.                    | The cumulative Assessment reports by evaluating impact of Captive Limestone Mines ML - I & ML- II are uploaded at Parivesh.   |
| 5.          | PP needs to submit the Financial Year  | PP has submitted the authentic Year-wise certified past production details vide letter  |

**EDS generated on dated 21.03.2025 and reply submitted on 07.05.2025**

| <b>S.No</b>                  | <b>EDS Points</b>  | <b>Reply by Project Proponent</b>   |           |                    |                       |       |                       |          |                       |          |                       |          |                       |          |                            |         |                              |           |                            |         |                              |          |                            |          |                              |         |                            |           |                              |       |
|------------------------------|--|---|-----------|--------------------|-----------------------|-------|-----------------------|----------|-----------------------|----------|-----------------------|----------|-----------------------|----------|----------------------------|---------|------------------------------|-----------|----------------------------|---------|------------------------------|----------|----------------------------|----------|------------------------------|---------|----------------------------|-----------|------------------------------|-------|
|                              | wise past production details after the commencement of mining operations | <p>dated 02.05.2025 issued from Collector Office (Mineral Branch) District Durg, (Chhattisgarh) are given below:</p> <table border="1"> <thead> <tr> <th>Year-wise</th><th>ML-2 (252.105 ha.)</th></tr> </thead> <tbody> <tr> <td>July 2018 to Dec 2018</td><td>15.96</td></tr> <tr> <td>Jan 2019 to June 2019</td><td>28214.53</td></tr> <tr> <td>July 2019 to Dec 2019</td><td>31751.83</td></tr> <tr> <td>Jan 2020 to June 2020</td><td>63752.16</td></tr> <tr> <td>July 2020 to Sep 2020</td><td>19581.18</td></tr> <tr> <td>October 2020 to March 2021</td><td>2380.06</td></tr> <tr> <td>April 2021 to September 2021</td><td>111317.40</td></tr> <tr> <td>October 2021 to March 2022</td><td>2567.34</td></tr> <tr> <td>April 2022 to September 2022</td><td>68017.20</td></tr> <tr> <td>October 2022 to March 2023</td><td>55108.96</td></tr> <tr> <td>April 2023 to September 2023</td><td>1984.94</td></tr> <tr> <td>October 2023 to March 2024</td><td>103407.61</td></tr> <tr> <td>April 2024 to September 2024</td><td>63.48</td></tr> </tbody> </table> | Year-wise | ML-2 (252.105 ha.) | July 2018 to Dec 2018 | 15.96 | Jan 2019 to June 2019 | 28214.53 | July 2019 to Dec 2019 | 31751.83 | Jan 2020 to June 2020 | 63752.16 | July 2020 to Sep 2020 | 19581.18 | October 2020 to March 2021 | 2380.06 | April 2021 to September 2021 | 111317.40 | October 2021 to March 2022 | 2567.34 | April 2022 to September 2022 | 68017.20 | October 2022 to March 2023 | 55108.96 | April 2023 to September 2023 | 1984.94 | October 2023 to March 2024 | 103407.61 | April 2024 to September 2024 | 63.48 |
| Year-wise                    | ML-2 (252.105 ha.)   |   |           |                    |                       |       |                       |          |                       |          |                       |          |                       |          |                            |         |                              |           |                            |         |                              |          |                            |          |                              |         |                            |           |                              |       |
| July 2018 to Dec 2018        | 15.96  |   |           |                    |                       |       |                       |          |                       |          |                       |          |                       |          |                            |         |                              |           |                            |         |                              |          |                            |          |                              |         |                            |           |                              |       |
| Jan 2019 to June 2019        | 28214.53   |   |           |                    |                       |       |                       |          |                       |          |                       |          |                       |          |                            |         |                              |           |                            |         |                              |          |                            |          |                              |         |                            |           |                              |       |
| July 2019 to Dec 2019        | 31751.83   |   |           |                    |                       |       |                       |          |                       |          |                       |          |                       |          |                            |         |                              |           |                            |         |                              |          |                            |          |                              |         |                            |           |                              |       |
| Jan 2020 to June 2020        | 63752.16   |   |           |                    |                       |       |                       |          |                       |          |                       |          |                       |          |                            |         |                              |           |                            |         |                              |          |                            |          |                              |         |                            |           |                              |       |
| July 2020 to Sep 2020        | 19581.18   |   |           |                    |                       |       |                       |          |                       |          |                       |          |                       |          |                            |         |                              |           |                            |         |                              |          |                            |          |                              |         |                            |           |                              |       |
| October 2020 to March 2021   | 2380.06  |   |           |                    |                       |       |                       |          |                       |          |                       |          |                       |          |                            |         |                              |           |                            |         |                              |          |                            |          |                              |         |                            |           |                              |       |
| April 2021 to September 2021 | 111317.40  |   |           |                    |                       |       |                       |          |                       |          |                       |          |                       |          |                            |         |                              |           |                            |         |                              |          |                            |          |                              |         |                            |           |                              |       |
| October 2021 to March 2022   | 2567.34  |   |           |                    |                       |       |                       |          |                       |          |                       |          |                       |          |                            |         |                              |           |                            |         |                              |          |                            |          |                              |         |                            |           |                              |       |
| April 2022 to September 2022 | 68017.20   |   |           |                    |                       |       |                       |          |                       |          |                       |          |                       |          |                            |         |                              |           |                            |         |                              |          |                            |          |                              |         |                            |           |                              |       |
| October 2022 to March 2023   | 55108.96   |   |           |                    |                       |       |                       |          |                       |          |                       |          |                       |          |                            |         |                              |           |                            |         |                              |          |                            |          |                              |         |                            |           |                              |       |
| April 2023 to September 2023 | 1984.94  |   |           |                    |                       |       |                       |          |                       |          |                       |          |                       |          |                            |         |                              |           |                            |         |                              |          |                            |          |                              |         |                            |           |                              |       |
| October 2023 to March 2024   | 103407.61  |   |           |                    |                       |       |                       |          |                       |          |                       |          |                       |          |                            |         |                              |           |                            |         |                              |          |                            |          |                              |         |                            |           |                              |       |
| April 2024 to September 2024 | 63.48  |   |           |                    |                       |       |                       |          |                       |          |                       |          |                       |          |                            |         |                              |           |                            |         |                              |          |                            |          |                              |         |                            |           |                              |       |

**EDS generated on dated 21.03.2025 and reply submitted on 07.05.2025**

| <b>S.No</b>                         | <b>EDS Points</b>  | <b>Reply by Project Proponent</b>  |                  |               |                   |           |           |        |     |              |        |  |  |                        |       |  |  |            |         |                                     |  |                |  |
|-------------------------------------|--|--|------------------|---------------|-------------------|-----------|-----------|--------|-----|--------------|--------|--|--|------------------------|-------|--|--|------------|---------|-------------------------------------|--|----------------|--|
|                                     |  | October 2024 to March 2025   | 122603.98        |               |                   |           |           |        |     |              |        |  |  |                        |       |  |  |            |         |                                     |  |                |  |
|                                     |  | <b>Total</b>   | <b>610730.63</b> |               |                   |           |           |        |     |              |        |  |  |                        |       |  |  |            |         |                                     |  |                |  |
| 6.                                  | PP needs to submit a copy of the certificate from State Forest Department regarding the presence of National Park/ Wildlife Sanctuary/Biosphere Reserve/ Eco-Sensitive Zone within 10 km study area. | PP has submitted a map showing no National Park/ Wildlife Sanctuary/Biosphere Reserve/ Eco-Sensitive Zone within 10 km study area. The Authenticated distance map by PCCF, DFO.  |                  |               |                   |           |           |        |     |              |        |  |  |                        |       |  |  |            |         |                                     |  |                |  |
| 7.                                  | PP needs to submit a No forest land certificate in the ML area issued by State Forest Department.  | <p>This is expansion of limestone production capacity project. Mining Lease is devoid of any forest land.</p> <p><b>Land details</b></p> <table border="1"> <thead> <tr> <th><b>Forest</b></th> <th><b>Non-forest</b></th> </tr> </thead> <tbody> <tr> <td>Area (ha)</td> <td>Area (ha)</td> </tr> <tr> <td>Forest</td> <td>Nil</td> <td>(i) Own land</td> <td>148.53</td> </tr> <tr> <td></td> <td></td> <td>(iii) Govt. Waste land</td> <td>2.784</td> </tr> <tr> <td></td> <td></td> <td>Other Land</td> <td>100.791</td> </tr> <tr> <td colspan="2"><b>Total ML- II mine lease area</b></td><td colspan="2"><b>252.105</b></td></tr> </tbody> </table> <p>A copy of NOC letter regarding no forest land is involved in the ML area by DFO Durg, CG, received dated 30.04.2025 This is further validated by the recent authenticated Forest</p> |                  | <b>Forest</b> | <b>Non-forest</b> | Area (ha) | Area (ha) | Forest | Nil | (i) Own land | 148.53 |  |  | (iii) Govt. Waste land | 2.784 |  |  | Other Land | 100.791 | <b>Total ML- II mine lease area</b> |  | <b>252.105</b> |  |
| <b>Forest</b>                       | <b>Non-forest</b>  |  |                  |               |                   |           |           |        |     |              |        |  |  |                        |       |  |  |            |         |                                     |  |                |  |
| Area (ha)                           | Area (ha)  |  |                  |               |                   |           |           |        |     |              |        |  |  |                        |       |  |  |            |         |                                     |  |                |  |
| Forest                              | Nil  | (i) Own land   | 148.53           |               |                   |           |           |        |     |              |        |  |  |                        |       |  |  |            |         |                                     |  |                |  |
|                                     |  | (iii) Govt. Waste land   | 2.784            |               |                   |           |           |        |     |              |        |  |  |                        |       |  |  |            |         |                                     |  |                |  |
|                                     |  | Other Land   | 100.791          |               |                   |           |           |        |     |              |        |  |  |                        |       |  |  |            |         |                                     |  |                |  |
| <b>Total ML- II mine lease area</b> |  | <b>252.105</b>   |                  |               |                   |           |           |        |     |              |        |  |  |                        |       |  |  |            |         |                                     |  |                |  |

**EDS generated on dated 21.03.2025 and reply submitted on 07.05.2025**

| <b>S.No</b> | <b>EDS Points</b>  | <b>Reply by Project Proponent</b>  |
|-------------|--|--|
|             |  | Management Information System (FMIS) DIVISION, Raipur, CG map (showing no forest boundary, national park, sanctuary, etc. within study area) received for ML - II, including the 10 KM study area, is already enclosed.  |
| 8.          | PP needs to submit an undertaking as per the Ministry OM dated 30.05.2018. | As per the OM dated 30.05.2018, an Affidavit dated 29.03.2025 stating that we will comply with all the statutory requirements and as per the judgment of Hon'ble SC order dated 02/08/2017 in Writ Petition (Civil) No. 114 of 2014 in the matter of Common Cause Vs Union of India is attached. |

**ADS generated dated 23.06.2025 and reply submitted on 02.09.2025**

| <b>S.No.</b> | <b>ADS Points</b>  | <b>Reply by Project Proponent</b>  |
|--------------|--|--|
| 1.           | PP needs to revise and resubmit the mining plan as per ToR letter dated 20.01.2021. It should be ensured that production of ore, waste, sub-grade in Mining plan, EIA-EMP and applied forms are in consonance. | <p>In compliance with the Terms of Reference (ToR) dated <b>20.01.2021</b>, the <b>Revised Mining Plan for ML-II</b> had been submitted to the <b>Indian Bureau of Mines (IBM)</b> and approved by <b>Indian Bureau of Mines (IBM)</b>.</p> <p>Approved Mining plan from Government of India, Ministry of Mines, Indian Bureau of Mines, Office of the Regional Controller of Mines, Raipur <b>granted to JKCL by Letter No. RPR/ DURGI/ LIMESTONE/1479/RMP/2025-26 dt. 12.08.2025</b> Copy of approved Mining plan submitted</p> <p>The review of the Mining Plan has duly incorporated and aligned with the production quantities of <b>ore</b>,</p> |

**ADS** generated dated 23.06.2025 and reply submitted on 02.09.2025

| <b>S.No.</b> | <b>ADS Points</b>   | <b>Reply by Project Proponent</b>  |
|--------------|---|--|
|              |   | <b>waste</b> , in line with approved ToR as well as the details provided in the EIA-EMP report and the application forms submitted on the PARIVESH portal. Thus, necessary consistency has been ensured across all documents.  |
| 2.           | PP needs to submit an action plan for construction of gabions, retaining walls/ check dams/ siltation ponds/ catch drains to ensure that there is no silt flow outside the mine lease area. | <p>The limestone mine has been in operation since year 2018. In line with common mining practices, rainwater accumulates in the mine pit during the monsoon season. This stored water is effectively utilized for dust suppression on haul roads and for plantation activities within the lease area.</p> <p>There is no discharge of water from the mine premises. Various mitigation measures have already been implemented to restrict the flow of surface runoff into the working pit and to reduce the volume of rainwater entering the excavation area.</p> <p>Details of the existing as well as the proposed mitigation measures to be undertaken post-expansion are provided below.</p> <ul style="list-style-type: none"> <li>• To avoid inundation during the rainy season, bunds along the working pits have been constructed. It is proposed to extend these existing bunds laterally all along the boundary of the pit to check the flow of rainwater to the working pit.</li> <li>• <b>Catch drains/Garland drains</b> exist around the mine pit and dumps</li> </ul> |

**ADS** generated dated 23.06.2025 and reply submitted on 02.09.2025

| S.No. | ADS Points | Reply by Project Proponent  |
|-------|------------|---|
|       |            | <p>divert the surface run-off away from the mining area and this water is collected in the harvesting pit. Garland drains are connected to a settling pond to collect silt which gets settled. Desilting of the pond is done before the onset of monsoon. (Refer Annexure – II).</p> <ul style="list-style-type: none"> <li>• Siltation ponds have been constructed with dimension of 30 m x 10 m at strategic locations within the ML area and enhance capacity to arrest silt and sediment flow from mining activities more efficiently.</li> <li>• Retaining wall constructed.</li> <li>• Currently, collection of rainwater in mine sump being used in dust suppression and plantation in the mine lease area.</li> <li>• It is proposed to utilize this water (Mine sumps/Water reservoir) in Plant operations post expansion. This will be in confirmation to our efforts towards water conservation and sustainable development. (Photographs are submitted).</li> </ul> <p><b>Garland Drain and Retaining Wall Measures</b></p> <p>Garland drains have been constructed around the mine pit and waste dump to effectively divert surface runoff away from the active mining area.</p> <ul style="list-style-type: none"> <li>• <b>Construction Cost:</b></li> </ul> |

**ADS** generated dated 23.06.2025 and reply submitted on 02.09.2025

| S.No. | ADS Points   | Reply by Project Proponent  |
|-------|--|---|
|       |  | <ul style="list-style-type: none"> <li><b>Capital Cost:</b> Rs. 49.3 Lakhs</li> <li><b>Recurring Cost:</b> Rs. 0.5 Lakhs per annum</li> </ul> <p>Further, additional garland drains and retaining walls of suitable dimensions, gradient, and length will be constructed around mine pits, waste dumps, and sumps. The sump capacity will be designed with a <b>50% safety margin</b> over and above the peak runoff from sudden rainfall events, considering <b>50 years of historical rainfall data</b> and the <b>maximum expected discharge</b> in the area adjacent to the mine.</p> <p>Furthermore, the sump design will ensure adequate retention time to facilitate effective settling of silt and suspended materials. <b>Sedimentation ponds</b> will be established at strategic points (especially corners) along the garland drains and will be <b>regularly desilted</b> to maintain their efficiency.</p> <p>To ensure the quality of the stored water, periodic analyses are carried out to check for the presence of dissolved substances or any potential contaminants. A recent water quality analysis report dated <b>02.08.2025</b> is submitted</p> |
| 3.    | PP needs to explain clearly w.r.t. inclusion of the pollution potential and mitigative measures for mining as well as cement plant in the EIA/EMP report of the instant project. | <p><b>Pollution Potential and Mitigative Measures for Mining and Cement Plant</b></p> <p>The pollution potential and corresponding mitigative measures for both the Cement</p>  |

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|-------|------------|---|
|       |            | <p>Plant and Limestone Mines (ML-I and ML-II) were duly assessed in the respective EIA/EMP reports, which were prepared in accordance with the sector-specific Terms of Reference (ToR).</p> <p>While the EIAs were prepared, the Cement Plant and both Mines located approximately 5.5 km apart have been duly considered in each report. Cumulative impacts have been examined with specific focus on key environmental aspects such as point source emissions, transportation of raw materials, air emissions, water requirement and wastewater management, Noise levels. Greenbelt and other interconnected environmental components.</p> <p>In compliance with the ADS, we have provided a consolidated assessment of cumulative pollution potential including Limestone Mine ML- I &amp; II and Cement plant. However, there is no adverse environmental impact observed while operation of both Mines and Cement Plant.</p> <p>Further, mitigative measures for both mining and cement plant activities have been proposed. Site specific EMP has been prepared and mitigative measures proposed considering the worst possible scenario. EMP budget</p> |

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| S.No. | ADS Points | Reply by Project Proponent  |
|-------|------------|---|
|       |            | <p>has also been provided. This has been submitted as the revised submission for the kind consideration of the EAC.</p> <p>It is pertinent to mention that ore requirement is cater from Mine Lease I &amp; II for the cement plant. While filing our application form for EC on Parivesh Portal in pursuance of the referred OM dt. 24<sup>th</sup> December 2010, we inadvertently committed a mistake. Instead of marking the leases as 'Not interlinked', we marked it as 'interlinked'.</p> <p>The submission for being classified as 'Not interlinked' can be attributed to the following reasons.</p> <p>a) The mining leases, though termed and classified as 'Captive', are governed by the Mines and Minerals (Development and Regulation) Act, 1957, which has been amended from time to time to facilitate the smooth operations and regulations of mines leases under changing conditions.</p> <p>b) An amendment in the MMDR Act on 28<sup>th</sup> March 2021 provisions</p> <p><i>In section 8A of the principal Act,— (a) after sub-section (7), the following sub-section shall be inserted, namely:— “(7A) <u>Any lessee may, where mineral is used for captive purpose, sell mineral up to fifty per cent. of the total mineral produced in a year after meeting the requirement of the</u></i></p> |

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|-------|---|---|
|       |   | <p><i>end use plant linked with the mine in such manner as may be prescribed by the Central Government and on payment of such additional amount as specified in the Sixth Schedule:</i></p> <p>c) In light of the above, the Rules in the Act permit sale of limestone from a captive lease to other consumers other than the Cement Plant of the lease holder. The sole definition of being linked exclusively to a cement plant stands no more and hence the terminology and classification as 'not interlinked' stands appropriate.</p> <p>d) The limestone from the captive mines is now open for use in the following industries like FMCG, Desulfurization (removal of SO<sub>2</sub> from exhaust gas) in the power plant, manufacturing (glass, steel, paper, plastics), pharmaceuticals, cosmetic, filler in products like toothpaste and paint, water treatment etc.</p> <p>It is hence requested that the error of having marked the leases as 'interlinked' may be reconsidered sympathetically and we may be allowed to correct the inadvertent error to move ahead with our proposal.</p> |
| 4.    | PP needs to follow the recommendations of DGMS (Directorate General of Mines Safety) to ensure that there are | M/s JK Lakshmi Cement Limited (JKLCL) fully recognizes the importance of complying with the guidelines and recommendations  |

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|-------|--|--|
|       | <p>no adverse effect on households nearby.</p> <p>Communication/Consultation in this regard can be done with DGMS, if necessary.</p> | <p>issued by the Directorate General of Mines Safety (DGMS) to safeguard the health and safety of nearby households. Accordingly, all necessary safety precautions and control measures have been incorporated in the approved mining plan to minimize potential impacts on surrounding habitations.</p> <p>To safeguard nearby households and communities, we are implementing controlled blasting techniques using Site Mix Emulsion (SME), Nonel systems, detonating fuse, cast boosters, primers, and electronic detonators. These measures are specifically designed to minimize ground vibrations. Blasting is carried out to optimize blast performance while minimizing environmental and operational impacts.</p> <p>A detailed plan outlining measures to safeguard nearby habitations from the potential risk of mining activity is prepared like maintaining safety barriers, controlled blasting, thick plantation (green belt development), siltation pond etc.</p> <p>We also confirm that all applicable DGMS regulations will be strictly followed during mining operations. However, as per the ADS point prescribed, communication and consultation with DGMS initiated vide letter no.</p> |

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| <b>S.No.</b> | <b>ADS Points</b>  | <b>Reply by Project Proponent</b>  |
|--------------|--|--|
|              |  | <p>JKLC/DURG/MINES/25/81(B) dt. 03<sup>rd</sup> July 2025, to address any specific concerns and to strengthen the implementation of safety measures.</p> <p>Further details on DGMS compliance and measures to protect nearby households/communities, the details are provided and submitted.</p>  |
| 5.           | <p>PP should submit the blasting parameters (burden, spacing, subgrade drilling, stemming, charge/delay, and maximum charge per hole) both recommended in the study conducted/ permitted by DGMS and the actual blasting parameters in the field. Copy of blaster diary for last 2 months should be submitted.</p> | <p>We are implementing controlled blasting techniques using Site Mix Emulsion (SME), Nonel systems, detonating fuse, cast boosters, primers, and electronic detonators. These measures are specifically designed to minimize ground vibrations. Blasting is carried out to optimize blast performance while minimizing environmental and operational impacts.</p> <p>We have enclosed the detailed <b>blasting parameters</b> including burden, spacing, subgrade drilling, stemming, charge per delay, and maximum charge per hole. These parameters reflect both the <b>as per the DGMS Norms</b> and the <b>actual field practices currently being followed</b>.</p> <p>Additionally, as directed, copies of the <b>Blaster's Diary for the last two months (March'25, Jun'25) as per standard format prescribed by DGMS</b> have been enclosed for reference and attached as <b>Annexure-V &amp; VA</b>.</p> |

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| <b>S.No.</b> | <b>ADS Points</b>  | <b>Reply by Project Proponent</b>  |
|--------------|--|--|
|              |  | DGMS (Tech.) (S&T) Circular No. 7 of 1997 dated 28.08.1997 is submitted.   |
| 6.           | PP needs to submit latest communication, if any, done with state water resource department regarding water withdrawal. | Currently, there is no communication with CG WRD, as the permitted surface water from the Shivnath River allocated by WRD is being used exclusively for the plant. (Copy of NOC from CG WRD is enclosed as <b>Annexure VIA</b> and WRD Agreement copy is submitted. For mining purposes, only mine pit water is utilized for plantation and dust suppression. Domestic borewell water is used for drinking purposes, and permission for its use has been granted by CGWA. (Copy of CGWA NOC is submitted. Further developments, if any, will be promptly submitted to the Ministry.                            |
| 7.           | PP needs to submit an action plan to prevent dust generation during the transportation of crushed ore to cement plant. | <p><b>Action Plan to Prevent Dust Generation During Transportation of Crushed Limestone.</b></p> <p>An <b>action plan to control and prevent dust generation</b> during the transportation of crushed limestone from the captive mines to the cement plant has been prepared and is submitted. The following key measures are proposed as part of the action plan:</p> <ul style="list-style-type: none"> <li>• The crushed limestone from the crusher unit located in ML - I are loaded and transportation of crushed materials to the cement plant is being done at present by road using covered</li> </ul> |

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|-------|------------|--|
|       |            | <p>dumpers. This is temporary in nature till the closed pipe conveyor gets commissioned.</p> <ul style="list-style-type: none"> <li>As construction work of closed pipe conveyor is not completed due to nearly 372 mtr piece of land is still to be acquired from SAIL + BSP. (Total length of closed pipe conveyor is 5.5 Km out of which 92% i.e 5.090 KM has been already completed).</li> <li><b>We would like to confirm that the Installation and commissioning of the pipe conveyor system is essentially linked to the implementation of the proposed expansion capacity. The commissioning of the pipe conveyor is scheduled to be completed on or before 31<sup>st</sup> March 2027. A commitment letter in this regard is submitted. Meanwhile transportation through covered trucks/tippers to avoid fugitive dust emissions.</b></li> <li><b>Regular water sprinkling</b> on haul roads and loading/unloading areas.</li> <li><b>Speed limits and vehicle maintenance protocols</b> to reduce dust and emissions.</li> <li><b>Greenbelt development</b> along transport routes, inside and outside plant premises to act as a natural dust barrier.</li> </ul> |

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| <b>S.No.</b> | <b>ADS Points</b>  | <b>Reply by Project Proponent</b>  |
|--------------|--|--|
|              |  | <ul style="list-style-type: none"> <li>• <b>Periodic monitoring</b> of air quality along the transportation route to ensure effectiveness.</li> </ul> <p>These measure being/will be strictly implemented to minimize the impact of transportation related dust on the environment and nearby habitations.</p>   |
| 8.           | PP needs to complete the entire safety zone plantation within monsoon season of the year 2025.   | <p>PP has informed that the remaining plantation i.e. <b>550 Saplings within ML area</b> in the <b>designated safety zone</b> completed till <b>30 June 2025</b> and <b>2390 Saplings outside of the lease area</b>. Necessary preparations have already been initiated to ensure timely implementation and survival of the saplings as per the greenbelt development plan. The details of existing and recent plantation along with photographs are provided and submitted.</p> |
| 9.           | PP needs to submit status of installation of online Continuous Effluent Monitoring System in the cement plant.   | <p>Online CEMS is already implemented at ETP at Captive power plant and STP at worker colony area.</p> <p>The details of installation of online Continuous Effluent Monitoring System in the cement plant provided and submitted.</p>  |
| 10.          | PP needs to submit the financial year-wise past production details after the commencement of mining operations (i.e., between 1 <sup>st</sup> April and 31 <sup>st</sup> March). | PP has submitted the authentic Year-wise certified past production details vide letter dated 02.05.2025 issued from Collector Office (Mineral Branch) District   |

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| S.No.                              | ADS Points               | Reply by Project Proponent  |           |                          |                          |       |                          |          |                          |          |                          |          |                          |          |                               |         |                                    |           |                               |         |                                    |          |                               |          |                                    |         |                               |           |
|------------------------------------|--------------------------|---|-----------|--------------------------|--------------------------|-------|--------------------------|----------|--------------------------|----------|--------------------------|----------|--------------------------|----------|-------------------------------|---------|------------------------------------|-----------|-------------------------------|---------|------------------------------------|----------|-------------------------------|----------|------------------------------------|---------|-------------------------------|-----------|
|                                    |                          | <p>Durg, (Chhattisgarh) are given below:</p> <table border="1"> <tr> <td>Year-wise</td><td>ML-2<br/>(252.105<br/>ha.)</td></tr> <tr> <td>July 2018 to<br/>Dec 2018</td><td>15.96</td></tr> <tr> <td>Jan 2019 to<br/>June 2019</td><td>28214.53</td></tr> <tr> <td>July 2019 to<br/>Dec 2019</td><td>31751.83</td></tr> <tr> <td>Jan 2020 to<br/>June 2020</td><td>63752.16</td></tr> <tr> <td>July 2020 to<br/>Sep 2020</td><td>19581.18</td></tr> <tr> <td>October 2020<br/>to March 2021</td><td>2380.06</td></tr> <tr> <td>April 2021 to<br/>September<br/>2021</td><td>111317.40</td></tr> <tr> <td>October 2021<br/>to March 2022</td><td>2567.34</td></tr> <tr> <td>April 2022 to<br/>September<br/>2022</td><td>68017.20</td></tr> <tr> <td>October 2022<br/>to March 2023</td><td>55108.96</td></tr> <tr> <td>April 2023 to<br/>September<br/>2023</td><td>1984.94</td></tr> <tr> <td>October 2023<br/>to March 2024</td><td>103407.61</td></tr> </table> | Year-wise | ML-2<br>(252.105<br>ha.) | July 2018 to<br>Dec 2018 | 15.96 | Jan 2019 to<br>June 2019 | 28214.53 | July 2019 to<br>Dec 2019 | 31751.83 | Jan 2020 to<br>June 2020 | 63752.16 | July 2020 to<br>Sep 2020 | 19581.18 | October 2020<br>to March 2021 | 2380.06 | April 2021 to<br>September<br>2021 | 111317.40 | October 2021<br>to March 2022 | 2567.34 | April 2022 to<br>September<br>2022 | 68017.20 | October 2022<br>to March 2023 | 55108.96 | April 2023 to<br>September<br>2023 | 1984.94 | October 2023<br>to March 2024 | 103407.61 |
| Year-wise                          | ML-2<br>(252.105<br>ha.) |   |           |                          |                          |       |                          |          |                          |          |                          |          |                          |          |                               |         |                                    |           |                               |         |                                    |          |                               |          |                                    |         |                               |           |
| July 2018 to<br>Dec 2018           | 15.96                    |   |           |                          |                          |       |                          |          |                          |          |                          |          |                          |          |                               |         |                                    |           |                               |         |                                    |          |                               |          |                                    |         |                               |           |
| Jan 2019 to<br>June 2019           | 28214.53                 |   |           |                          |                          |       |                          |          |                          |          |                          |          |                          |          |                               |         |                                    |           |                               |         |                                    |          |                               |          |                                    |         |                               |           |
| July 2019 to<br>Dec 2019           | 31751.83                 |   |           |                          |                          |       |                          |          |                          |          |                          |          |                          |          |                               |         |                                    |           |                               |         |                                    |          |                               |          |                                    |         |                               |           |
| Jan 2020 to<br>June 2020           | 63752.16                 |   |           |                          |                          |       |                          |          |                          |          |                          |          |                          |          |                               |         |                                    |           |                               |         |                                    |          |                               |          |                                    |         |                               |           |
| July 2020 to<br>Sep 2020           | 19581.18                 |   |           |                          |                          |       |                          |          |                          |          |                          |          |                          |          |                               |         |                                    |           |                               |         |                                    |          |                               |          |                                    |         |                               |           |
| October 2020<br>to March 2021      | 2380.06                  |   |           |                          |                          |       |                          |          |                          |          |                          |          |                          |          |                               |         |                                    |           |                               |         |                                    |          |                               |          |                                    |         |                               |           |
| April 2021 to<br>September<br>2021 | 111317.40                |   |           |                          |                          |       |                          |          |                          |          |                          |          |                          |          |                               |         |                                    |           |                               |         |                                    |          |                               |          |                                    |         |                               |           |
| October 2021<br>to March 2022      | 2567.34                  |   |           |                          |                          |       |                          |          |                          |          |                          |          |                          |          |                               |         |                                    |           |                               |         |                                    |          |                               |          |                                    |         |                               |           |
| April 2022 to<br>September<br>2022 | 68017.20                 |   |           |                          |                          |       |                          |          |                          |          |                          |          |                          |          |                               |         |                                    |           |                               |         |                                    |          |                               |          |                                    |         |                               |           |
| October 2022<br>to March 2023      | 55108.96                 |   |           |                          |                          |       |                          |          |                          |          |                          |          |                          |          |                               |         |                                    |           |                               |         |                                    |          |                               |          |                                    |         |                               |           |
| April 2023 to<br>September<br>2023 | 1984.94                  |   |           |                          |                          |       |                          |          |                          |          |                          |          |                          |          |                               |         |                                    |           |                               |         |                                    |          |                               |          |                                    |         |                               |           |
| October 2023<br>to March 2024      | 103407.61                |   |           |                          |                          |       |                          |          |                          |          |                          |          |                          |          |                               |         |                                    |           |                               |         |                                    |          |                               |          |                                    |         |                               |           |

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| S.No. | ADS Points | Reply by Project Proponent   |                  |
|-------|------------|------------------------------|------------------|
|       |            | April 2024 to September 2024 | 63.48            |
|       |            | October 2024 to March 2025   | 122603.98        |
|       |            | <b>Total</b>                 | <b>610730.63</b> |

#### xix Details of the Environmental Management Plan (EMP):

| S. No. | Activities   | Existing Cost  | Additional Cost | Total Recurring Cost (per Annum) |
|--------|--|----------------|-----------------|----------------------------------|
|        |  | Rs. (In Lakhs) |                 |                                  |
| 1      | Permanent water sprinkling arrangements for main haulage road  | 15.0           | -               | 0.40                             |
| 3      | Water tanker   | 30             | -               | 3.2                              |
| 4      | Greenbelt has been developed covering an area of 45.90 ha with 88639 nos. of saplings and remaining area of greenbelt i.e. 37.3 ha will be completed in upcoming year with 55942 Nos of saplings | 150            | -               | 25                               |
|        | Plantation along the safety zone been developed covering an area of 1.5 ha & remaining area i.e. 1 ha to be covered in upcoming 5 years  | 30             | -               | 4.5                              |
|        | Backfilled area 30 ha to be rehabilitated by plantation/regressing as per Mining Plan  | -              | 450             | 2.5                              |

| S. No. | Activities  | Existing Cost  | Additional Cost | Total Recurring Cost (per Annum) |
|--------|---|----------------|-----------------|----------------------------------|
|        |   | Rs. (In Lakhs) |                 |                                  |
| 5      | Water spray at loading point of crusher   | 10             | -               | 2.3                              |
| 6      | Construction of Garland Drain around soil dump  | 14             | 35.3            | 0.5                              |
| 7      | Stone pitching of Garland Drain   | 13             | 0.3             | 0.3                              |
| 8      | Construction of Retaining wall around soil dump   | 15             | 38.5            | 1.2                              |
| 9      | Construction of Channelized catch Drains  | 10             | 1.3             | 1.3                              |
| 10     | 01 nos. of Setting Tank/ Sedimentation Pond   | 20             | 2.3             | 2.3                              |
| 11     | Continuous Ambient Air Quality Monitoring Station at Mine Site (Online)   | 90             | -               | 2.4                              |
| 12     | Ambient Air Quality Monitoring (4 location)   | 20.5           | -               | 1.8                              |
| 13     | Fugitive dust emission monitoring (4 location)  | 18.3           | -               | 0.9                              |
| 14     | Construction of two Piezometers in & around mining lease area   | 8              | -               | 0.85                             |
| 15     | Ground water quality analysis (PZ Wells, 4 times in a year)   | 6.5            | -               | 0.80                             |
| 16     | Surface Water Quality Analysis (Upstream and downstream of Seasonal Nallah & Mine Sump) – 5 samples x half yearly | 5              | -               | 0.65                             |
| 17     | Peak particle Velocity Monitoring for nearest habitation i.e.   | 15             | -               | 0.85                             |

| S. No.             | Activities   | Existing Cost  | Additional Cost | Total Recurring Cost (per Annum) |
|--------------------|--|----------------|-----------------|----------------------------------|
|                    |  | Rs. (In Lakhs) |                 |                                  |
| 18                 | Ambient Noise Monitoring (4 locations x monthly frequency)                           | 5.5            | -               | 0.80                             |
| 19                 | Digital mapping of entire mine area once in three years (Rs. 3 Lacs once in 3 years) | 20             | -               | 2.5                              |
| <b>Sub Total</b>   |  | <b>495.8</b>   |                 | <b>55.05</b>                     |
| 20                 | Estimated Budget for Addressing the Public hearing Issues (Within 3 year)            | 15.5*          | 35              | -                                |
| 21                 | Biological Conservation and Management Plan  | -              | 10              | 2                                |
| <b>Grand Total</b> |  | <b>511.3</b>   | <b>572.7</b>    | <b>57.05</b>                     |
|                    |  | <b>1084</b>    |                 |                                  |

## xx. Details of project cost and employment:

| Particulars  | (Rs. In Crore)  |
|--|---|
| Total cost of EMP (Capital Cost of EMP + capital cost of Public hearing) | Total cost of EMP is <b>1084 Lakhs</b> (Existing Capital Cost of EMP Rs. <b>511.3 Lakhs</b> + Capital cost of Public hearing <b>Rs. 35 Lakhs</b> )        |
| Project Cost   | The Total Capital cost of mining project – <b>Rs. 53 Crore (5300 Lakhs)</b><br><br>This is existing operative mine. No additional investment is proposed. |
| Employment (No.s)  | Existing - 17, Proposed- 20 (Total= 44)   |

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