



File No.: J-11015/72/2020-IA.II(M)

Government of India

Ministry of Environment, Forest and Climate Change

IA Division

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Dated 24/11/2025



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 in production capacity of captive Limestone Mines from 4.5 to 6.65MTPA from ML-I with existing crusher and with additional crushing capacity of 1500 TPH by M/s JK Lakshmi Cement Ltd located at Villages Semariya, Ghikuria & Nandini Khundini, Tehsil Dhamdha, District Durg, Chhattisgarh.

**Sir/Madam,**

This is in reference to your application submitted to MoEF&CC vide proposal number IA/CG/MIN/524755/2025 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>	EC25A0000CG5989730N
<b>(ii) File No.</b>	J-11015/72/2020-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 in production capacity of captive Limestone Mines from 4.5 to 6.65MTPA from ML-I with existing crusher and with additional crushing capacity of 1500 TPH by M/s JK Lakshmi Cement Ltd located at Villages Semariya, Ghikuria & Nandini Khundini, Tehs
<b>(viii) Location of Project (District, State)</b>	DURG, CHHATTISGARH
<b>(ix) Issuing Authority</b>	MoEF&CC
<b>(x) Applicability of General Conditions</b>	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 07-08/08/2025. 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:-

EAC deliberated the proposal of Expansion in production capacity of captive Limestone Mines from 4.5 to 6.65MTPA from ML-I with existing crusher and with additional crushing capacity of 1500 TPH by M/s JK Lakshmi Cement Ltd located at Villages Semariya, Ghikuria & Nandini Khundini, Tehsil Dhamdha, District Durg, Chhattisgarh

The project is classified under Category "A" and falls under Activity 1(a)-3 of the schedule of the EIA Notification, 2006.

PP had earlier obtained the Terms of Reference on 20.01.2021 for expansion in Production Capacity from 4.5 MTPA to 6.65 MTPA of limestone production in the ML-I having an area of 267. 695 ha by M/s JK Lakshmi Cement Ltd. for captive use in its cement plant located near to the mines. PP has also proposed an additional crusher of 1500 TPH capacity in addition to the existing common crusher of 1000 TPH already present within the ML-I.

The Project Proponent and the consultant presented the key site features using a KML file. PP informed that the ML-I mine lease area has two blocks i.e. Western block (area – 202.205 ha) and Eastern block (area- 65.490 ha). The mine lease area is located in villages Semariya, Ghikuria and Nandini Khundini. Shivanath River is located at a distance of 2.2 km from the ML area. The nearest highway is SH-7 located at a distance of 3.4 km from the ML area. NH53 Road is located at approx. 19.80 km distance in South East direction from the ML-I site. Besides many nala shuch as Lor Nala, Ghuri nala, Girhola minor, Simariya Minor, Ghikuriya Minor, Sahgaon minor , Kokri minor is located within 10 km boundary from the ML area. A seasonal drainage is lying adjacent and within the mine lease area. Nearest major habitation from the mine lease area is Hardi village located at 450 m in North direction and the Govt. Primary School Hardi is located at a distance of 600 m from the mine. EAC noted the submission of the PP and stated that blasting shall not be allowed within 0.5 Km distance from habitation without special permission of DGMS. EAC advised that PP should provide adequate measures to protect the habitations from adverse effects of mining/blasting. PP should undertake dense vegetation near the habitation and shall erect metal wind screens to safeguard the habitation from dust generated due to mining operation.

PP reported that there are no National Park, Wildlife Sanctuary, Biosphere Reserves, Wildlife Corridors, Tiger/Elephant Reserve etc. within 10 km radius from the ML area. PP also reported that no forest land is present within the ML area and presented a certificate dated 20.03.2025 in this regard.

PP initially submitted an authenticated list of flora and fauna in the approved Wildlife Conservation Plan vide letter dated 05.05.2025 on the Parivesh Portal. In the said letter it was mentioned that the authenticated list has been prepared on the basis of Wildlife Act, 1972. However, vide email dated 05.06.2025, PP submitted a letter dated 03.06.2025 from office of Chief Conservator of Forest Durg stating that the above mentioned list has been prepared in accordance with Wildlife Amendment Act 2022 and the

term “ ‘Wildlife Act, 1972’ in the letter dated 05.05.2025 may be read as “ Wildlife Amendment Act 2022. In the said letter it was also highlighted that Wildlife Conservation Plan has been approved with a budget of Rs 26.62 lakhs.

PP submitted that the Review of Mining Plan along with the Progressive Mine Closure Plan has been approved by IBM vide No. Letter no. RPR/DURG/LIMESTONE/1439/MRMP/2024-25 dated 26.10.2024 and valid upto 31.03.2029.

PP has submitted that mining will be fully mechanized opencast mining method. PP mentioned that total estimated geological reserves is 193.411 MTPA and mineable reserves is 159. 953 MTPA. The life of the mine will be 24 years. PP also reported that there will be groundwater intersection due to the proposed Mining activity. EAC noted the submission of PP and advised PP to obtain prior permission of CGWA/SGWA before intersecting the ground water table. PP reported that ground water table ranges between 273-276 mRL.

PP further stated that the existing crusher, with a capacity of 1000 TPH, has a stack height of 30 m and it is a common crusher located within ML-I mining lease. The proposed crusher, with increased capacity of 1500 TPH, will also have a stack height 30m from ground level. This crusher shall also be installed within the ML-I mining lease.

Regarding transportation of the crushed limestone PP mentioned that the crushed limestone from crusher located in ML - I are loaded and transportation of crushed materials to cement plant is being done at present by road using covered dumpers. PP further submitted that this arrangement is temporary in nature till the closed pipe conveyor gets commissioned. PP added that construction work of closed pipe conveyor is not completed due to non-acquisition of nearly 372 mtr piece of land from SAIL + BSP. The total length of closed pipe conveyor is 5.5 Km out of which 92% i.e 5.090 KM has been already completed). PP stated that conveyer system shall be completed on or before 31.03.2027. PP also submitted a commitment letter dated 23.04.2025 in this regard.

PP reported that upon completion of the work entire crushed material shall be transported through the conveyer belt. Till then crushed out material shall be sent over a distance of 3 km using the conveyer belt at an intermediary location and thereafter the same shall be transported using 20T dumpers to the cement plant. EAC noted the submission of PP and stated that no transportation through road shall be applied after 31.03.2027.

With regard to water requirement due to enhancement in production, PP submitted that the total water requirement for the project is 255 KLD for mining activities. PP also submitted NoC from CGWA issued vide letter dated 19.05.2025, permitting the withdrawal of 320 m<sup>3</sup>/day of ground water and is valid upto 25.09.2026. EAC noted the submission of PP and asked whether PP has constructed any rain water harvesting structures. PP informed the committee that they have constructed four rainwater harvesting structure and one pond within the ML area having a capacity of 263197.5m<sup>3</sup> capacity based on estimated annual rainfall of 1000 mm. EAC was of the opinion that PP should gradually reduce its dependence on ground water and it should use the harvested water resource as well as mine pit water to meet its daily requirement. PP reported that by 2031 it will reduce its ground/surface water consumption by 15 %.

Baseline data was collected during the post-monsoon season (1st December, 2023 to 29<sup>th</sup> February 2024), with the predominant wind direction observed from NW.

Regarding greenbelt development, PP reported that till dated 17 ha of boundary/safety zone plantation has

been carried out and 28456 plants have been planted within the ML- I lease area and 45.89 ha of plantation has also been carried outside the lease area. PP submitted that by 2029 they will complete the plantation in remaining 0.75 ha of safety zone with 11375 plants. EAC noted the submission of the PP and advised to complete the entire greenbelt/safety zone plantation within the monsoon season of this year i.e. 2025. PP submitted that they are undertaking the plantation and have planted 225 Saplings within ML area in the designated safety zone till 30 June 2025 and 2275 Saplings outside of the lease area will be completed by the 30 Sept. 2025.

The Public Hearing for the project was conducted on 20.11.2024 at Village – Ghikuria, Near JK Lakshmi Cement Limestone Mines, Tehsil – Ahiwara (Old Tehsil Damdha), District –Durg, Chhattisgarh. Major Concerns raised during the hearing included employment opportunities, education, health camp and hospital, drinking water facilities, playground sport equipments, water level, pollution, developments of villagers, Sewing training Centres, obstruction of canal and rivers, appearance of cracks in houses due to blasting and vibrations, roads accidents caused by parking and the operations of a transport company near the villages and even accidents resulting in the death of villagers. In response to these concerns, PP submitted that they have allocated a budget of 35 lakh has over three years to meet the public hearing commitments.

EAC noted the submission of the PP and asked about the concerns raised regarding surface runoff and development of cracks in the houses during blasting, blocking of canals and rivers. PP replied that necessary precautions like retaining walls has already been constructed to ensure that no runoff spreads to the surrounding area. PP also submitted that they are undertaking deep hole drilling and blasting using delay detonators to reduce the ground vibrations and abatement of fly rocks.

PP also submitted an undertaking dated 04.06.2025 that no litigation/court cases are pending against this project.

Thereafter, PP presented the updated status of the compliance dated 15.04.2025 issued by Ministry's Regional Office at Raipur for the integrated EC of both Mining leases and the cement plant based on the site inspection dated 31.03.2025. There were few partially complied conditions in the report. As per the report dated 26.07.2024 issued by RO, Raipur, MoEF&CC. PP has complied 5 out of 6 partially complied points. The remaining one condition regarding installation of online Continuous Effluent Monitoring System in the cement plant, it was found its installation was going on at the time of site visit.

Thereafter EAC deliberated the ADS points raised vide minutes of 45<sup>th</sup> EAC meeting held on 06.02.2025.

With regard to action plan for construction of gabbions / check dams / siltation ponds / catch drains to ensure zero liquid discharge outside the ML area, PP submitted that there is no discharge of water from the mine premises. PP stated that they are strictly adhering zero liquid discharge from Mine's Premises. The limestone mine has been in operation since 2014. In line with common mining practices, garland drains/catch drains, siltation ponds, retaining wall have been constructed for all requisite's location. Garland drains/Catch drains exist around the mine pit and dumps divert the surface run-off away from the mining area and this water is collected in the pit. Drains are connected to a settling pond to collect silt which gets settled. Desilting of the pond is done before the onset of monsoon. 02 nos. of siltation ponds exist at strategic locations within the ML area. Retaining walls have been constructed along the active dumps to provide stability to the dump and prevent any rolling or sliding of waste material from the dump. Further, (Post expansion) PP intends to provide retaining wall all along the periphery of the waste dump. To avoid inundation during the rainy season, bunds along the working pits have been constructed. PP

stated that they will extend these existing bunds laterally all along the boundary of the pit to check the flow of rainwater to the working pit. The sump at the lowermost bench is being used to collect residual water. This water is used for dust suppression on haul roads and for plantation purposes. This water is supplied to surrounding villages whenever there is a demand from surrounding villages after proper de-siltation. The 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. It is proposed to utilize this water in Plant operations post expansion. This will be in confirmation to our efforts towards water conservation and sustainable development. An objective of ZLD shall also be achieved. 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.

Upon reviewing the submission of PP, EAC asked PP to undertake regular maintenance works and submit a quarterly report to Ministry's Regional Office.

Regarding action plan for safeguarding the habitations of Hardi Village located at distance of 450 m from the mine lease area, from adverse effects of mining, PP submitted that the distance between the ML-I lease boundary and the nearest habitation Hardi village, is around 450 meters towards the north. However, the current working pit is situated about 970 meters away from Hardi village. Upon completion of mining operations, the ultimate pit limit will be maintained at a minimum distance of 500 meters from the village, thereby adhering to the safety standards prescribed by the Directorate General of Mines Safety (DGMS). To safeguard nearby households PP stated that they 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.

PP also highlighted that to get the SME permission, DGMS directed to do a Blast Induced Ground Vibration Study from the competent institute, therefore a detailed study conducted on "Scientific Blasting Study for Monitoring of Blast Induced Ground Vibration" by Jai Narain University, Dept. of Mining Engineering, Jodhpur was conducted to establish the blasting parameters and accordingly blasting is being done as per their recommendations. EAC noted the submission of PP and advised it to strictly follow DGMS recommendations and also the recommendations of above blasting study.

On the issue of inclusion of pollution potential and mitigative measures for mining as well as cement plant, PP stated that the pollution potential and corresponding mitigative measures for both the Cement 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). 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. In compliance with the ADS, PP have provided a consolidated assessment of cumulative pollution potential including Limestone Mine ML- I & II and Cement plant. PP has stated that there is no adverse environmental impact observed while operation of both Mines and Cement Plant.

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 has also been provided.

PP has further mentioned that ore requirement is cater from Mine Lease I & 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. Instead of marking the leases as 'Not interlinked', we marked it as 'interlinked'. The submission for being classified as 'Not interlinked' can be attributed to the following reasons.

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 28<sup>th</sup> March 2021 provisions

*In section 8A of the principal Act,— (a) after sub-section (7), the following sub-section 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.

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

Further regarding installation of rainwater harvesting systems in nearby villages PP submitted that JKLCL proposes implementing Rainwater Harvesting ( systems at key community points (village panchayats, schools, and public spaces), following a west to east progression across the villages namely Ahiwara, Nandini Khundini, Girhola, Malpuri Khurd, Khasadih, Semariya and Ghikuria Pitaura.

6. Based on the above discussion and presentation by the Project Proponent and the Consultatant, the EAC in its 48<sup>th</sup> EAC meeting held during 7-8 Aug 2025, under EIA Notification 2006 and its subsequent amendment **recommended** the proposal for Expansion in production capacity of captive Limestone Mines from 4.5 to 6.65MTPA from ML-I with existing crusher and with additional crushing capacity of 1500 TPH by M/s JK Lakshmi Cement Ltd located at Villages Semariya, Ghikuria & Nandini Khundini, Tehsil Dhamdha, District Durg, Chhattisgarh subject to certain 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 in production capacity of captive Limestone Mines from 4.5 to 6.65MTPA from ML-I with existing crusher and with additional crushing capacity of 1500 TPH by M/s JK Lakshmi Cement Ltd located at Villages**

**Semariya, Ghikuria & Nandini Khundini, Tehsil 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, Paryavaran Bhawan, 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 Bhawan, Jail Road, FafadihChowk, 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	PP stated that conveyor system shall be completed on or before 31.03.2027. PP also submitted a

S. No	EC Conditions
	commitment letter dated 23.04.2025 in this regard. Accordingly, no transportation through road shall be allowed after 31.03.2027. As committed PP shall complete the installation and operation of conveyer system by 31.03.2027.
1.2	No blasting activities shall take place within 500 meters of schools and residential areas and within 500 meters of streams and rivers without special permission from DGMS. No blasting activity shall be undertaken during school hours. Blasting can only be done on School Holidays. A copy of the EC shall also be provided to Principal of the School and District Education officer. Metal windscreen should be installed adjacent to the school/habitation for prevention against fly rocks and dust. Special consultation from DGMS should be taken for carrying blasting activity near to the school/ habitation. Additionally one fog cannon shall be installed at school within 600-700 m perimeter from ML boundary. PP in consultation with School authorities shall also undertake dense plantation near the school area.
1.3	No transportation through village road shall be allowed at any point of time.
1.4	PP shall not discharge any untreated surface/mine pit water outside the ML area.
1.5	The Project Proponent shall take adequate measures to prevent the pilferage of mineral during its transportation. All dumpers should be covered with tarpaulin during transportation. Truck drivers, helpers, Operators, Supervisors, contractor personal should be properly trained on environmental aspects. Record of above training of the personal, supervisor/officials should be submitted to Regional office of MoEF&CC.
1.6	The natural water bodies and or streams which are flowing in and around the mine lease area should not be disturbed. PP shall consult state Water Resource department and SPCB regarding safeguards for Nallah/Stream and follow their instructions. Implementation status of this condition should be communicated to Ministry's Regional Office.
1.7	PP shall carryout the blasting in a controlled manner such that the direction of the blasting should be 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 blast wise record.
1.8	The Project Proponent should take adequate measures to prevent the fly rock falling onto the 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 over pressure.
1.9	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 crusher and at other sensitive receptors and such collected data shall be submitted quarterly to the Ministry's Regional Office.
1.10	The Project Proponent should install three 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 entry and exit gate of mine lease area for public display and shall be linked to server of CPCB/SPCB.
1.11	The air pollution control equipment's like bag filters, vacuum suction hoods, dry fogging system

S. No	EC Conditions
	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 needs to be installed at 3 sides of crushers for dust suppression and near the unloading platform of limestone.
1.12	The Project Proponent needs to use modern equipment's such as Camera Traps for ensuring 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. Project Proponent should follow up with State Forest Department regarding implementation of WLCP Act 2022. An implementation report in this regard needs to be submitted to Ministry's Regional office in half yearly compliance report.
1.13	The Project Proponent needs to install the permanent water sprinklers in addition to mobile water tankers along the haul road and the approach road. Further, 08 nos. of fog canon/mist sprayer of atleast 40 m throw shall be installed at various locations in the mine area. Effective dust suppression system shall also be adopted at other parts of the mining lease to arrest the fugitive dust emission. One fog cannon at nearby school shall be installed along with metal wind screen. PP shall undertake regular sprinkling on the transportation route from mine site leading upto Cement Plant.
1.14	The Project Proponent shall explore the possibility of using atleast 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.
1.15	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.
1.16	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.
1.17	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.
1.18	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 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.
1.19	To address the concerns raised by the public in the public hearing, PP should complete its public hearing commitments within 3 years. PP shall comply with all action plans made for public hearing concerns and make regular maintenance and record the progressive activity outcomes. The Project proponent shall ensure that the activities proposed under the public hearing is different from the

S. No	EC Conditions
	CSR activities.
1.20	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 Semariya, Ghikuria & Nandini Khundini free of cost. PP needs to install water treatment plant and process the water before supplying to the villages.
1.21	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 Pitura. An implementation report should be submitted to Ministry's Regional Office.
1.22	The Project Proponent shall provide the rainwater harvesting structure at mine offices and quarters/colonies to recharge the ground water.
1.23	PP needs to construct sedimentation ponds, check dam, gabion structures, retaining wall, garland drain etc to safeguard the natural Streams/Nallahs flowing in and around the Lease area and to prevent any silt flow outside the project.
1.24	The Project Proponent shall also organize employment-based apprenticeship/ internship training program every year with appropriate stipend for the youth and other programs to enhance the skill of the local people. The data should be maintained for the training imparted to the persons and the outcome of the training, for the assessment of the training program should be analyzed periodically and improved accordingly.
1.25	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.
1.26	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.
1.27	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.
1.28	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.
1.29	Approval/permission of the CGWA/SGWA 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.
1.30	Project proponent shall take necessary other clearances/permissions under various Acts and Rules if

S. No	EC Conditions
	any, from the respective authorities / department.
1.31	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” (एकपेडमाँकेनाम) and the details of the same shall be uploaded in the MeriLife portal ( <a href="https://merilife.nic.in">https://merilife.nic.in</a> ).
1.32	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.
1.33	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.
1.34	PP should conduct awareness programmes, skill development programme, and training through a group vocational training centre as per the commitment.

#### Standard EC Conditions for (Mining of minerals)

#### 1. Statutory Compliance

S. No	EC Conditions
1.1	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.
1.2	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.
1.3	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.
1.4	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.

S. No	EC Conditions
1.5	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.
1.6	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."
1.7	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.
1.8	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.
1.9	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 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).
1.11	The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
1.12	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.
1.13	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.
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

S. No	EC Conditions
	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.
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	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.
3.4	Wind shelter fence and chemical spraying shall be provided on the raw material stock piles.
3.5	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 SO2 and NOx emissions) within and outside the plant area at least at four locations (one within and three outside the plant area at an

S. No	EC Conditions
	angle of 120 each). covering upwind and downwind directions.
3.6	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.
3.7	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 SO <sub>2</sub> and NO <sub>x</sub> in reference to SO <sub>2</sub> and NO <sub>x</sub> 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.
3.8	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.
3.9	The project proponent use leak proof trucks/dumpers carrying ore and other raw materials and cover them with tarpaulin.
3.10	Design the ventilation system for adequate air changes as per ACGIH document for all tunnels, motor houses, Oil Cellars.

#### 4. Water Quality Monitoring And Preservation

S. No	EC Conditions
4.1	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.
4.2	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.
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	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

S. No	EC Conditions
	Board/ State Groundwater Department. A report on amount of water recharged needs to be submitted to Regional Office MoEFCC annually.
4.5	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.
4.6	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.
4.7	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.
4.8	Adhere to Zero Liquid Discharge
4.9	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.
4.10	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.
4.11	Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards.
4.12	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.
4.13	The project proponent shall practice rainwater harvesting to maximum possible extent.
4.14	The project proponent shall provide the slime disposal facility with impervious lining and collection

S. No	EC Conditions
	wells for seepage. The water collected from the slime pond shall be treated and recycled.
4.15	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.
4.16	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.

## 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 /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,

S. No	EC Conditions
	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	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.
9.2	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.
9.3	The slope of dumps shall be vegetated in scientific manner with suitable native species to maintain 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.
9.4	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

S. No	EC Conditions
	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.
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	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.
12.2	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

S. No	EC Conditions
	plant

### 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	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.
14.2	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
14.3	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
14.4	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.
14.5	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.

S. No	EC Conditions
15.2	Self-environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.
15.3	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.
15.4	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 report to the head of the organization.
15.5	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Mineral Beneficiation plants shall be implemented.
15.6	The company shall have a well laid down environmental policy duly approved 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.

## 16. Miscellaneous

S. No	EC Conditions
16.1	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.
16.2	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.
16.3	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.
16.4	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.
16.5	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.

S. No	EC Conditions
<b>16.6</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>16.7</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>16.8</b>	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
<b>16.9</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>16.10</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>16.11</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>16.12</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>16.13</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>16.14</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 regressing 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>16.15</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>16.16</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>16.17</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

S. No	EC Conditions
	be appointed and submit a report to RO, MoEF&CC.
<b>16.18</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>16.19</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>16.20</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>16.21</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>16.22</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
<b>17.1</b>	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 in production capacity of captive Limestone Mines from 4.5 to 6.65MTPA from ML-I with existing crusher and with additional crushing capacity of 1500 TPH by M/s JK Lakshmi Cement Ltd located at Villages Semariya, Ghikuria & Nandini Khundini, Tehsil Dhamdha, District Durg, Chhattisgarh.**

**Detail of the Project:**

The details of the project as ascertained from the document submitted by the Project Proponent are given as under:

**i. Project details:**

Name of the Proposal	Expansion in production capacity of captive Limestone Mines from 4.5 to 6.65MTPA from ML-I with existing crusher and with additional crushing capacity of 1500 TPH by M/s JK Lakshmi Cement Ltd located at Villages Semariya, Ghikuria & Nandini Khundini, Tehsil 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' 15.067" – N21°25'26.77"
	Longitudes	E 81° 23' 40.49" – E 81°24'57.756"
	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 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
Mining lease Area (MLA) (in ha.)	267.695 Ha.
General Conditions (if any)	

### iii. ToR Details:

- PP has obtained Terms of Reference on 20.01.2021 for expansion in production capacity of captive Limestone Mines from 4.5 to 6.65MTPA from ML-I with existing crusher and with additional crushing capacity of 1500 TPH by M/s JK Lakshmi Cement Ltd located at Villages Semariya, Ghikuria & Nandini Khundini, Tehsil Dhamdha, District Durg, Chhattisgarh.
- Earlier, PP had obtained EC on 13.05.2009. 1st EC from MOEF&CC through vide F. No. J-11011/1170/2007-IA II (I), Existing Cement Plant is operational for – Clinker (1.98 Million TPA), Cement - PSC, PPC, OPC, & COC (5 million TPA), CPP (20 MW) and WHRB (10 MW) dated 13-05-2009. [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.]

Additional EC details	<p><b>Amendments -</b></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>
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	7. 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)
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**iv. 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- CG043187110277990	28.12.2016	Limestone (Major Mineral)	28/12/2016- 18/07/2044	Govt of India	267.695

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 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	28/12/2016	18/07/2044	Limestone	267.695 Ha

S. No	Details of grant of Mine Lease deed execution	Period of Grant		Name of the Mineral	Mine lease area in Ha
		From	To		
	(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.				

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

Private land	<b>223.465 Ha.</b>
Government land	<b>44.23 Ha.</b>
Forest land	Nil
Total Mining lease area (MLA), ha	267.695 Ha
Private land for crusher, workshop & other infrastructure outside the MLA	<p><b>Land Use of Lease Area at the Expiry of Lease Period</b></p> <ul style="list-style-type: none"> <li>➤ Mined out area in the lease: 233 Ha.</li> <li>➤ Area under utility services: 2.35 Ha.</li> <li>➤ Area undisturbed/virgin: 32.35 Ha.</li> <li>➤ Mined out Area fully Rehabilitated from Reclaimed area (in hect): 10 Ha.</li> <li>➤ Area under Water Reservoir considered Rehabilitated (in hect): 223 Ha.</li> <li>➤ Virgin area under Green Belt (in hect) 32.35 Ha.</li> <li>➤ Rehabilitated Area under utility Service: 2.35 Ha.</li> </ul>
Additional information (if any)	-

**vi. Mining plan details:**

Mining Plan including Progressive Mine Closure Plan (approved by Indian Bureau of Mines/DMG)	Letter No.	No.PR/DURG/LIMESTONE/1439/MRMP/2024-25 (Approved date- 26/10/2024)
	Start Period	01/04/2025
	Mineral & (Major/Minor )	Limestone (Major Mineral)
	Mine Lease Area, Ha	267.695 ha.
	Validity	31/03/2029
Additional information (if any)	-	
<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	193.19 Million Tonnes	
Mineable Reserves	159.78 Million Tonnes	
Breakup of Total Excavation (Topsoil/OB/SB/IB/Miner al Rejects/ Waste, MTPA)	<b>Lime Stone</b> : 6.65 million TPA Top Soil : 0.02926 million TPA Overburden : 0.10374 million TPA Interburden : 0.532 million TPA Total Excavation (ROM) : 7.315 million TPA	
Life of mine	24 Years	
Mine Bench Height & Bench Width	6-9 m & More than the bench height	
No. of Mine Benches	- 05	
Existing Depth, m bgl	- 48	

Ultimate Depth of Mining, m bgl	ML area is in 2 blocks and Ultimate depth is 84 m
Ground Water Table, m bgl	273-276 mRL
Details of ground water intersection	NOC for Water Withdrawal (255 KLD) has been obtained from WRD, CG and NOC from CGWA  WRD, CG: 11.09.2012 Validity 13.09.2048  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	<b>Crusher:</b> Existing – 1000 TPH Proposed – 1500 TPH = Total Capacity after expansion 2500 TPH
Mineral Beneficiation	-
RoM output size	7.315 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 out of which 92% i.e 5.090 KM has been already completed).  Dumpers capacity: 20 tonnes
Generation of Topsoil/OB & its Management during plan period & conceptual period	Top Soil : 0.02926 million TPA  Overburden : 0.10374 million TPA  Interburden : 0.532 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.

Additional information (if any)	-
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**vii. Water requirement:**

Total water requirement		Fresh water	255 KLD
		Treated water	-
Source	Shivnath river, Ground water and Mine sump.		
Permission for withdrawal/intersection along with details of grant and its validity	Water Permission from WRD, CG and NOC from CGWA		
Additional information (if any)	-		

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

Particulars	Particular's Name	Distance & Directions
Village	Semariya	0.58 km/E
Town	Bhilai	16.27km/SSW
Highway	1.SH7 2. NH53 3.Nandini Road-	1. Durg Dhamdha Road 3.4km/W 2. 19.80km/SE 3. 2.03km/SW
Interstate Boundary	Madhya Pradesh	68.8km/W
Railway Station/Railway line	Kumhari	20.9 km/SE
Water Bodies	1. Shivnath River 2. Lor Nala 3. Ghuri Nala 4. Girhola Minor 5. Semariya Minor	1. 2.2 NW 2. 7.4 SE 3. 8.54 NE 4. 1.76 ESE 5. 2.3 ENE 6. In SE direction

	6. Ghikuriya Minor Adjacent 7. Sahgaon Minor 8. Seasonal Drainage Adjacent & within mine 9. Kokri Minor	7. 2.4 WSW 8. Adjacent & within mine E 9. 1.17 N
Forest	None within 10 km radius area	

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

Forest Land/ Protected Area/ Environmental Sensitivity Zone	Yes/No	Details of Certificate/letter issued by the concerned Department mentioning the Lr no, date of grant and remarks
Forest Land within the mine lease area and (if yes) status of Forest Clearance	No forest land in ML area	Forest clearance is not required.
National Park	No	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 DFO map (showing no forest boundary, national park, sanctuary, etc. within study area) received for ML - I, including the 10 KM study area, is already submitted.
Wildlife Sanctuary	No	
Elephant/Tiger Reserve	No	
Eco-Sensitive Zone (ESZ) /Eco-Sensitive Area (ESA)	No	
Coastal Regulation Zone (CRZ)	No	
Schedule-I species (Nos. and name of schedule-I species with authenticated letter)	Yes	Aauthenticated 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.  As per 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 on dtd. 05.05.2025, followed by Letter 03.06.2025, there are four nos. of

Forest Land/ Protected Area/ Environmental Sensitivity Zone	Yes/No	Details of Certificate/letter issued by the concerned Department mentioning the Lr no, date of grant and remarks
		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 <b>dtd. 05.05.2025</b> , followed by Letter 03.06.2025

**x. Green belt/plantation details:**

Proposed area for green belt/plantation and no. of saplings proposed	Proposed plantation/ greenbelt i.e. 8.25 ha (out of which 0.75 ha plantation within lease area while plantation outside lease area is 7.5 Ha) will be completed in upcoming year with 12,500 Nos. of saplings will be planted.  Note: Existing plantation within lease area is 17 Ha while plantation outside lease area is 45.89 Ha.
Budget for green plant & plantation till the end of life of mine.	65.56 Lakhs has been allocated.
Budget for nursery	15 Lakhs
Details of existing plantation and its survival rate	Greenbelt has been developed covering an area of 62.89 ha with 1,05,788 nos. of saplings with survival rate of 90%.

No. of tree cuts in the mine lease area and compensatory afforestation	No significant tree cutting involved in the project.
<b>Particulars for Green belt/plantation</b>	<b>Area covered (in Ha)</b>
7.5 m barrier & non-mineralized zone	<b>17.25</b>
50 m safety zone of nallah, roads, electric lines	<b>9.1</b>
500 m safety zones of nearest habitation villages	<b>2.20</b>

**xi. Baseline detail:**

<b>Baseline Data (Air / Water / Noise / Soil / Hydro geological study/ Traffic Study/ others)</b>		
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) and results	8	<ol style="list-style-type: none"> <li>PM<sub>10</sub> - 40.2 to 76.8</li> <li>PM<sub>2.5</sub> - 14.3 to 34.3</li> <li>SO<sub>2</sub> - 4.6 to 14.7</li> <li>NO<sub>2</sub> - 10.3 to 24.8</li> </ol>

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> – 61.7 dBA to 64.8 dBA for day time and 56.9 dBA to 56.2 dBA for night time.</li> </ol>						
Water Quality (no. of locations ) and results	8 (Ground Water)	<ol style="list-style-type: none"> <li><b>pH</b> -7.16 to 7.18</li> <li><b>Total hardness</b> – 166.52 to 320.84 mg/l</li> <li><b>Total Dissolved Solid</b>- 342 to 594 mg/l</li> </ol>						
	4 (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> –1.14% to 1.98%</li> <li><b>Nitrogen</b> - 127.52 – 243.82 kg/ha</li> <li><b>Phosphorous</b> - 16.46 – 44.27 kg/ha</li> <li><b>Potassium</b> - 237.14 – 343.81 kg/ha</li> <li><b>Texture</b> – Sandy loam</li> </ol>						
Hydro geologic al study and results	Pre-Monsoon depth to water Level - 4 to 18.54 mbgl  Post-monsoon depth to water Level - 3 to 6 mbgl							
Traffic study (no. of locations ) and results	1 (Ahiw ara-Berla Road)	<p>Existing and Changed Level of Service on Ahiwara-Berla Road</p> <table border="1"> <thead> <tr> <th>Road</th> <th>Increased PCU's – State/National Highway</th> <th>V (Volume in PCU/Day)</th> <th>C (Capacity in PCU/Day)</th> <th>Modified V/C Ratio</th> <th>LoS</th> </tr> </thead> </table>	Road	Increased PCU's – State/National Highway	V (Volume in PCU/Day)	C (Capacity in PCU/Day)	Modified V/C Ratio	LoS
Road	Increased PCU's – State/National Highway	V (Volume in PCU/Day)	C (Capacity in PCU/Day)	Modified V/C Ratio	LoS			

		Ahiwara-Berla Road	4722 + 1394 = 6116	6116	15000	0.4077	Good/Average/Fair
Relevant Standard (Capacity as per IRC: 64-1990) From the results it is observed that after proposed project, the level of service on Ahiwara – Berla Road will be “C (0.4 to 0.6)” i.e., Good/ Average/ Fair.							

#### xii. 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 “Hindustan Times” on 17/10/2024 and in Hindi in “Haribhoomi” 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 – I, Area 267.695 Ha.) on 20.11.2024 at 10:00 AM		
Venue	Village – Ghikuria, Near JK Lakshmi Cement Limestone Mines, Tehsil – Ahiwara (Old Tehsil Damdha), District – Durg, Chhattisgarh.		
Chaired by	<b>Name</b>	<b>Position</b>	
	Mr. Arvind Kumar Ekka Additional District Magistrate, District Durg	Chairman	
	Dr. (Mrs.) Anita Sawant (Regional Officer) 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 Labs 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 equipments, 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.		
Additional information (if any)	Nil.		

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

Particulars	Details of Letter along with date of grant and validity
Consent to Establish	vide letter no. 1335/TS/CECB/2011 dated: 04/06/2011
Consent to Operate	vide letter no. 9991/TS/CECB/ 2024 dated: 13.03.2024 Valid up to 30.04.2026
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</li> </ul>

	<p>26.07.2024 and issued Certified Compliance Report on 26.07.2024 in which they have raised partial compliances and non-compliances.</p> <ul style="list-style-type: none"> <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)</u> – All existing EC Conditions are complied.</li> </ul>																						
<p>Certified Production Details from the inception of the mine (in tabular form against the EC capacity)</p>	<p>Year-wise certified past production details from Collector Office (Mineral Branch) District Durg, (Chhattisgarh) are given below:</p> <table border="1" data-bbox="615 1237 1377 2032"> <thead> <tr> <th data-bbox="615 1237 996 1372">Year</th> <th data-bbox="996 1237 1377 1372">Quantity of mineral dispatch as per tax assessment (in tons)</th> </tr> </thead> <tbody> <tr> <td data-bbox="615 1372 996 1432">1994-95 to 2013-2014</td> <td data-bbox="996 1372 1377 1432">0</td> </tr> <tr> <td data-bbox="615 1432 996 1493">2014 - 2015</td> <td data-bbox="996 1432 1377 1493">362407.01</td> </tr> <tr> <td data-bbox="615 1493 996 1554">2015 - 2016</td> <td data-bbox="996 1493 1377 1554">1523333.37</td> </tr> <tr> <td data-bbox="615 1554 996 1614">2016 - 2017</td> <td data-bbox="996 1554 1377 1614">1699171.08</td> </tr> <tr> <td data-bbox="615 1614 996 1675">2017 - 2018</td> <td data-bbox="996 1614 1377 1675">2259822.76</td> </tr> <tr> <td data-bbox="615 1675 996 1736">2018 - 2019</td> <td data-bbox="996 1675 1377 1736">2328538.32</td> </tr> <tr> <td data-bbox="615 1736 996 1796">2019 - 2020</td> <td data-bbox="996 1736 1377 1796">2636742.38</td> </tr> <tr> <td data-bbox="615 1796 996 1857">2020 - 2021</td> <td data-bbox="996 1796 1377 1857">2390193.27</td> </tr> <tr> <td data-bbox="615 1857 996 1918">2021 - 2022</td> <td data-bbox="996 1857 1377 1918">2397697.42</td> </tr> <tr> <td data-bbox="615 1918 996 1978">2022 - 2023</td> <td data-bbox="996 1918 1377 1978">2522644.32</td> </tr> </tbody> </table>	Year	Quantity of mineral dispatch as per tax assessment (in tons)	1994-95 to 2013-2014	0	2014 - 2015	362407.01	2015 - 2016	1523333.37	2016 - 2017	1699171.08	2017 - 2018	2259822.76	2018 - 2019	2328538.32	2019 - 2020	2636742.38	2020 - 2021	2390193.27	2021 - 2022	2397697.42	2022 - 2023	2522644.32
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	2023 - 2024	2846742.21
	2024 - 2025	2635619.01

**xiv. Rehabilitation & Resettlement (R&R):**

R & R details	NA
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**xv. Court case details:**

Court Case, No and its present status	No court case pending
Undertaking by Project Proponent w.r.t court case	PP has submitted an undertaking vide letter dated 04.06.2025 and stated that no court case pending against project.

**xvi. Affidavit/Undertaking details:**

Affidavit as per Ministry's OM dated 30.05.2018	Affidavit Letter by M/s. JKLCL in line with Ministry OM dated 30.05.2018 is submitted.
Undertaking by Project Proponent in EIA/EMP report	Undertaking by Project Proponent in EIA/EMP report is submitted
Undertaking by Consultant in EIA/EMP report	Undertaking by Consultant in EIA/EMP report is submitted
Plagiarism Certificate	Plagiarism Certificate is submitted

**xvii. EDS/ADS details (If any):**

**The EDS/ ADS were raised during the earlier consideration of meeting of minutes on (date of earlier consideration).**

**EDS generated for Proposal No. IA/CG/MIN/524755/2025 on 21.03.2025 and reply submitted on 07.05.2025**

Sl.	EDS Points	Reply by Project Proponent
1.	PP needs to submit the detail chronology of mine leases along with their supporting documents.	The detailed chronology of Mine Lease (Mine Lease I of Area 267.695 Ha.) along with supporting documents are submitted.
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. <b>The authenticated list provided in approved wildlife conservation and management plan is submitted. (Please refer Page no. 46 – 47 for flora and 50 – 51 for fauna in WLCP)</b>
3.	PP needs to submit the copy of approved wildlife conservation plan as per the Wildlife (Protection) Amendment Act, 2022.	The Wildlife Conservation Plan, in accordance with the Wildlife (Protection) Amendment Act, 2022, was approved by PCCF (Wildlife & Biodiversity Conservation) cum Chief Wildlife Warden at Aranya Bhawan, North Block, Sector-19, Atal Nagar, District – Raipur, Chhattisgarh on <b>dtd. 05.05.2025 followed by letter dtd. 03.06.2025</b> . <b>The copy of approved wildlife conservation and management plan is submitted.</b>
4.	PP needs to submit the latest Certified Compliance Report as per Ministry's OM dated 08.06.2022.	<ul style="list-style-type: none"> <li>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 Ltr. No. JKLC/DURG/ENV/MOEF&amp;CC/IRO/EC/01 dtd. 26.09.2024. Action Taken Report was submitted to IRO, Raipur, CG.</li> <li><b>Closure Report from IRO, MoEFCC</b> Aranya Bhawan, North Block, Sector 19 Naya Raipur, Atal Nagar, Raipur, Chhattisgarh was received (Vide F No 5-236/09/(Env)/10) Dated 15<sup>th</sup> April, 2025.</li> <li><b>Present Status: 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 /</b></li> </ul>

Sl.	EDS Points	Reply by Project Proponent													
		<u>234 / 2024 – I A – I)</u> – All existing EC Conditions are complied.													
5.	As per the ToR condition, 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 submitted.													
6.	PP needs to submit the Financial Year wise past production details after the commencement of mining operations.	The past production details of ML - I are submitted.													
7.	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.	No National Park/ Wildlife Sanctuary/Biosphere Reserve/ Eco-Sensitive Zone within 10 km study area. The Authenticated distance map approved by PCCF is submitted.													
8.	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>Forest</th> <th>Non-forest</th> </tr> </thead> <tbody> <tr> <td></td> <td>Area (ha)</td> </tr> <tr> <td rowspan="2">Forest</td> <td>(i) Own land</td> <td>223.465</td> </tr> <tr> <td>Nil</td> <td>(ii) Govt. Waste land + barren land</td> <td>44.23</td> </tr> <tr> <td colspan="2"><b>Total ML-I mine lease area</b></td><td><b>267.695</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 DFO map (showing no forest boundary, national park, sanctuary, etc. within study area) received for ML - I, including the 10 KM study area, is already submitted.</p>	Forest	Non-forest		Area (ha)	Forest	(i) Own land	223.465	Nil	(ii) Govt. Waste land + barren land	44.23	<b>Total ML-I mine lease area</b>		<b>267.695</b>
Forest	Non-forest														
	Area (ha)														
Forest	(i) Own land	223.465													
	Nil	(ii) Govt. Waste land + barren land	44.23												
<b>Total ML-I mine lease area</b>		<b>267.695</b>													

Sl.	EDS Points	Reply by Project Proponent
9.	PP needs to submit an undertaking as per the Ministry OM dated 30.05.2018.	Undertaking Letter by M/s. JKLCL in line with Ministry OM dated 30.05.2018 is submitted.

xviii. **ADS** generated for our Proposal No. IA/CG/MIN/524755/2025 on dated 23.06.2025 and reply submitted on 30.07.2025

Sl.	ADS Points	Reply by Project Proponent (JK Lakshmi Cement Limited)
1.	PP needs to submit an action plan for construction of gabions / check dams / siltation ponds / catch drains to ensure zero liquid discharge outside the ML area.	<p>There is no discharge of water from the mine premises. We are strictly adhering zero liquid discharge from Mine's Premises. The limestone mine has been in operation since 2014. In line with common mining practices, garland drains/catch drains, siltation ponds, retaining wall constructed for all requisite's location.</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>• <b>Garland drains/Catch drains</b> exist around the mine pit and dumps divert the surface run-off away from the mining area and this water is collected in the 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.</li> <li>• <b>02 nos. of siltation ponds</b> exist at strategic locations within the ML area. Further, improvements are proposed to enhance the capacity and to arrest silt and sediment flow more efficiently.</li> <li>• <b>Retaining walls</b> have been constructed along the active dumps to provide stability to the dump and prevent any rolling or sliding of waste material from the dump. Further, (Post expansion) we intend to provide retaining wall all along the periphery of the waste dump. <b><i>To avoid inundation during the rainy season, bunds along the working pits have been constructed.</i></b> Further, it is proposed to extend these</li> </ul>

Sl.	ADS Points	Reply by Project Proponent (JK Lakshmi Cement Limited)
		<p>existing bunds laterally all along the boundary of the pit to check the flow of rainwater to the working pit.</p> <ul style="list-style-type: none"> <li>The sump at the lowermost bench is being used to collect residual water. This water is used for dust suppression on haul roads and for plantation purposes. This water is supplied to surrounding villages whenever there is a demand from surrounding villages after proper de-siltation.</li> </ul> <p>The 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>It is proposed to utilize this water in Plant operations post expansion. This will be in confirmation to our efforts towards water conservation and sustainable development. An objective of ZLD shall also be achieved.</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>07.05.2025</b> is enclosed for reference.</p>
2.	<p>PP needs to submit an action plan for safeguarding the habitations of Hardi Village located at distance of 450 m from the mine lease area, from adverse effects of mining.</p>	<p>The distance between the ML-I lease boundary and the nearest habitation, Hardi village, is around 450 meters towards the north. However, the current working pit is situated about <b>970 meters away from Hardi village</b>. Upon completion of mining operations, the ultimate pit limit will be maintained at a minimum distance of 500 meters from the village, thereby adhering to the safety standards prescribed by the Directorate General of Mines Safety (DGMS).</p> <p>To safeguard nearby households and communities, we are implementing controlled</p>

Sl.	ADS Points	Reply by Project Proponent (JK Lakshmi Cement Limited)
		<p>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>To get the SME permission, DGMS directed to do a Blast Induced Ground Vibration Study from the competent institute, therefore a detailed study conducted on "Scientific Blasting Study for Monitoring of Blast Induced Ground Vibration" by Jai Narain University, Dept. of Mining Engineering, Jodhpur, to establish the blasting parameters and accordingly blasting is being done as per their recommendations.</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. The details has been submitted.</p> <p>Further, we assure you that M/s JK Lakshmi Cement Limited (JKLCL) fully recognizes the importance of complying with the guidelines and recommendations issued by the Directorate General of Mines Safety (DGMS) to safeguard the health and safety of nearby households.</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 Plant and Limestone Mines (ML-I and ML-II) were duly assessed in the respective EIA/EMP reports, which were prepared in accordance</p>

Sl.	ADS Points	Reply by Project Proponent (JK Lakshmi Cement Limited)
		<p>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 has also been provided. This information has been submitted.</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>

Sl.	ADS Points	Reply by Project Proponent (JK Lakshmi Cement Limited)
		<p>The submission for being classified as 'Not interlinked' can be attributed to the following reasons.</p> <ul style="list-style-type: none"> <li>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.</li> <li>b) An amendment in the MMDR Act on 28<sup>th</sup> March 2021 provisions  <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 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:</u></i></li> <li>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.</li> <li>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.</li> </ul>

Sl.	ADS Points	Reply by Project Proponent (JK Lakshmi Cement Limited)
		<p>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.</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.	<p>PP needs to follow the recommendations of DGMS (Directorate General of Mines Safety) to ensure that there are no adverse effects on households nearby. Communication/Consultation in this regard can be done with DGMS, if necessary.</p>	<p>M/s JK Lakshmi Cement Limited (JKLCL) fully recognizes the importance of complying with the guidelines and recommendations 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>To get the SME permission, DGMS directed to do a Blast Induced Ground Vibration Study from the competent institute, therefore a detailed study conducted on "Scientific Blasting Study for Monitoring of Blast Induced Ground Vibration" by Jai Narain University, Dept. of Mining Engineering, Jodhpur, to establish the</p>

Sl.	ADS Points	Reply by Project Proponent (JK Lakshmi Cement Limited)
		<p>blasting parameters and accordingly blasting is being done as per their recommendations.</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. JKLC/DURG/MINES/25/81(A) 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 has been provided.</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>recommended values as per the study conducted/permissions granted by DGMS</b></p>

Sl.	ADS Points	Reply by Project Proponent (JK Lakshmi Cement Limited)
		<p>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 (May'25, Jun'25, July'25) as per standard format prescribed by DGMS</b> have been enclosed for reference and submitted.</p>
6.	<p>PP needs to submit an action plan to prevent dust generation during the transportation of crushed ore to cement plant.</p>	<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 submitted.</p> <p>The following key measures are proposed as part of the action plan:</p> <ul style="list-style-type: none"> <li>Currently, the crushed limestone from the crusher unit located in ML-I is loaded into dumpers and transported by road to the weighbridge, where water mist is applied. From there, the material is transported to the cement plant using covered dumpers. This road-based transportation is a temporary arrangement until the enclosed pipe conveyor system becomes operational.</li> <li>Construction work of the closed pipe conveyor is not completed as nearly 372 mtr piece of land is still to be acquired from SAIL + BSP. (Total length of the closed pipe conveyor is 5.5 Km out of which 92% i.e 5.090 KM has already been completed).</li> <li>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</li> </ul>

Sl.	ADS Points	Reply by Project Proponent (JK Lakshmi Cement Limited)
		<p>or before <b>31<sup>st</sup> March 2027</b>. A commitment letter in this regard has been submitted.</p> <ul style="list-style-type: none"> <li>• <b>Meanwhile</b> transportation through <b>covered trucks/tippers</b> is being done to avoid fugitive dust emissions.</li> <li>• <b>Regular water sprinkling</b> on haul roads and loading/unloading areas is being done on a continuous basis.</li> <li>• A curtain belt along with water mist system has been installed at the hopper in the cement Plant and is being used to control dust emissions during the unloading of limestone into the hopper at the cement plant.</li> <li>• JKCL have plans to induct EV dumpers in future. Presently we have inducted one EV dumper for trial.</li> <li>• <b>Speed limits and vehicle maintenance protocols</b> are religiously followed to reduce dust and emissions.</li> <li>• <b>Greenbelt development</b> along transport routes, inside and outside plant premises has been done to provide a natural dust barrier.</li> <li>• <b>Periodic monitoring</b> of air quality along the transportation route is undertaken on periodic basis to ensure effectiveness.</li> </ul> <p>These measures are being/will be strictly implemented to minimize the impact of transportation related dust on the environment and nearby habitations.</p>
7.	PP needs to complete the remaining safety zone plantation within monsoon season of the year 2025.	We would like to inform you that the plantation i.e. <b>225 Saplings within ML area</b> in the <b>designated safety zone</b> has been completed till <b>30 June 2025</b> whereas <b>2275 Saplings outside of the lease area</b> will be completed by the <b>30 Sept. 2025</b> . Necessary preparations have already been initiated to ensure timely implementation and survival of the saplings as per the greenbelt development plan. The details

Sl.	ADS Points	Reply by Project Proponent (JK Lakshmi Cement Limited)
		of existing and recent plantations, along with photographs, have been provided.
8.	PP needs to explore water reservoir in the mine project area and submit the probable locations showing on a surface plan/layout.	<p>In response to the directives for exploring potential water reservoir sites within the mine project area, we have conducted a preliminary assessment of the mines area. Mine is operating as prescribed under the IBM Approved Mining Plan in a scientific manner. At a conceptual stage (at the end of life of mine), this void will be used as a water reservoir. However, a sump in ML-I (Pit 1 &amp; Pit 2) area as a water reservoir in the rainy season. Sump Area of Pit 1 is 20 M<sup>2</sup> &amp; Pit 2 is 10 M<sup>2</sup>.</p> <p>The surface plan/ layout highlighting the probable locations deemed suitable for reservoir development.</p>
9.	PP can explore installation of rainwater harvesting systems in nearby villages.	<p>In compliance with the EAC's recommendation, M/s. JKCL proposes implementing Rainwater Harvesting (RWH) systems at key community points (village panchayats, schools, and public spaces), following a west-to-east progression across the villages:</p> <ol style="list-style-type: none"> <li>1. Ahiwara</li> <li>2. Nandini-Khundini</li> <li>3. Girhola</li> <li>4. Malpuri Khurd</li> <li>5. Khasadih</li> <li>6. Semariya</li> <li>7. Ghikuria Pitalura</li> </ol> <p>A comprehensive action plan detailing site-specific design, capacities, implementation timelines, and maintenance protocols along with its budget has been submitted.</p>

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

Sr. No.	Activities	Existing Cost	Additional Cost	Total Recurring Cost (per Annum)
		Rs. (In Lakhs)		
1	Bag house and bag filters	25.20	30	8
2	Permanent water sprinkling arrangements for main haulage road	15.0		0.40
3	Water tanker	30		6.84
4	Greenbelt has been developed covering an area of 62.29 ha with 105017 nos. of saplings and remaining area of greenbelt i.e. 26 ha will be completed in upcoming year with 39,059 Nos of saplings	135		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 (Total cost: )	45.50		6.5
5	Water spray at loading point of crusher	25.0		3.5
6	Construction of Garland Drain around soil dump	123	3.60	5.5
7	Stone pitching of Garland Drain	65		2.5
8	Construction of Retaining wall around soil dump	50	30	3.5
9	Construction of Channelized catch Drains	60		3.6
10	01 nos. of Setting Tank/ Sedimentation Pond	35		2.3
11	Continuous Ambient Air Quality Monitoring Station at Mine Site (Online)	90	100	2.4
12	Ambient Air Quality Monitoring (4 location)	20.5		2.1
13	Fugitive dust emission monitoring (4 location)	18.3		1.5
14	Construction of two Piezometers in & around mining lease area	8		1.7
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	5		0.65

Sr. No.	Activities	Existing Cost	Additional Cost	Total Recurring Cost (per Annum)
		Rs. (In Lakhs)		
	Seasonal Nallah & Mine Sump) – 5 samples x half yearly			
17	Peak particle Velocity Monitoring for nearest habitation i.e.	15		1.2
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		3
<b>Sub Total</b>		<b>797.5</b>		<b>81.69</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>813</b>	<b>208.6</b>	<b>83.69</b>
			<b>1021.6</b>	

**xx. Details of project cost and employment:** This is existing operative mine. No additional investment is proposed.

Particulars	(Rs. In Lakhs)
Capital Cost for Environment Protection	The capital Cost of Environment Protection is of Rs. <b>1021.6 Lakhs</b> (Existing Capital Cost of EMP Rs. <b>813 Lakhs</b> + Additional Capital Cost of EMP <b>Rs. 208.6 Lakhs</b> )
Budget for addressing the Public Hearing issues	The precise, actionable and monitorable plan for the activities proposed under community development within 3 year is of Rs. 35 Lakhs
Total Cost for EMP	Rs. 1021.6 Lakhs
Recurring Cost for EMP	83.69 lakhs
Project Cost	The Total Capital cost of mining project – <b>Rs. 83 Crore (8300 Lakhs)</b> Proposed CER Cost – <b>Rs. 35 lakhs</b>
Employment	Existing - 130, Proposed - 09 (Total = 139)

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