

Date: 22.05.2023

To,
Deputy Director General of Forest (C)
Ministry of Env., Forest and Climate Change
Integrated Regional Office, Kendriya Sadan, 4th Floor,
E&F Wings, 17th Main Road, Koramangala II Block,
Bangalore – 560034, Karnataka.

Sub: Sedam Limestone Mine (ML Area: 995.97 ha) with Proposed Limestone Production Capacity 5.2 Million TPA along with 1500 TPH Crusher (13 ha area outside the ML area for infrastructure) at Villages: Beeranahalli, Arebammenahalli, Taranahalli, Konkanhalli and Shettihuda (Sedam), Taluka: Sedam, District: Kalaburagi, Karnataka of M/s. Dalmia Cement (Bharat) Limited. - **Submission of Half-Yearly Compliance-reg.**

Ref: Environmental Clearance (EC) granted by MOEFCC, Govt. of India vide Letter No. J-11015/26/2020-IA.II (M) dated 06.08.2021

Dear Sir,

With reference to above subject matter and referred letter, we would like to mention that mine is not under operation as it is yet to be executed. We are submitting herewith point wise Half-Yearly Compliance report of conditions laid down in Environment Clearance for the period **October, 2022 to March, 2023** for your kind perusal and record.

Thanking You

Yours faithfully,
For Dalmia Cement (Bharat) Ltd.


(V Karthikeyan)

Deputy Executive Director

Encl: As Above

CC:

- 1) The Regional Officer, Karnataka State Pollution Control Board, Gulbarga, Karnataka
- 2) The In-charge, Central Pollution Control Board (CPCB- Southern zone), Nisarga Bhavan, Thimmaiah Road, 2nd Main Rd, Shivanagar, Basaveshwar Nagar, Bengaluru, Karnataka 560079.

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Sedam Limestone Mine (ML Area: 995.97 ha) with Proposed Limestone Production Capacity 5.2 Million TPA, Soil 0.062 Million TPA and Waste 0.98 Million TPA (Total Excavation 6.242 Million TPA) along with 1500 TPH Crusher (13 ha area outside the ML area for infrastructure) at Villages: Beeranahalli, Arebammanahalli, Taranahalli, Konkanhalli and Shettihuda (Sedam), Taluka: Sedam, District: Kalaburagi, Karnataka of M/s. Dalmia Cement (Bharat) Ltd.

HALF YEARLY COMPLIANCE REPORT OF ENVIRONMENTAL CLEARANCE

October, 2022 to March, 2023

F. NO. J-11015/26/2020-IA. II (M); DATED 06/08/2021

Mine is not under operation as Lease is yet to be executed.

Specific EC conditions: -

Sr.	Conditions	Remarks
1)	PP has committed for the greenbelt in 11 ha and the plantation in 187.52 ha. So, the plantation must be done with 3m saplings and the greenbelt in first two years and rest of the area as per the approved mining plan.	Noted for compliance. Greenbelt will be developed in first two years from start of operation of mine and rest of the area as per the approved mining plan.
2)	Since prime agricultural land is being converted into water reservoir covering an area of 750 ha with an average depth of 20 m. Following two conditions will apply: 2.1) In the 6 m bench, plantation should be carried out within 2 years as per the prescribed method to reduce the area covered by the water body.	Noted for compliance. Plantation will be done on upper most bench of the excavated void after reaching ultimate depth during course of mining/at conceptual stage.
	2.2) The water body so created during the operational phase of mine as well after the closure of mine will be used for agricultural purposes by providing irrigation quality water to nearby farmers so that it will enable them to grow two crops in a year. Necessary budget provision made by the PP initially for 50 years (operation phase) which can also sustain further mine closure either using manpower or handing it over to Government.	Noted for compliance. Excavated void will be developed as water reservoir after reaching ultimate depth for community use. Fencing will be done all around the pit.
3)	Air quality monitoring around the vicinity of crusher and mining area may be facilitated and in a sustainable manner by providing necessary budget and data should be reported to Pollution Control Board and the Ministry in every 6 months.	Noted for compliance. Air quality monitoring around the vicinity of crusher and mining area will be done during operation of mine. Mine will be operated after obtaining Consent to Establish & Consent to Operate from SPCB, Karnataka after execution & registration of Mine Lease.
4)	Health monitoring in the vicinity of the area related to respiratory disease be provided annually.	Noted for compliance. Environmental Management Plan (EMP)/mitigation measures will be implemented as per the prevailing

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Sr.	Conditions	Remarks
		rules/law during the operation of the mine which will control the impacts significantly and will be confined within the boundary limit of the mines. However, Periodical medical camps will also be organized to assess the wellbeing of the people of nearby villages during mining operation.

Standard Conditions: -

Sr.	Conditions	Remarks
I.	Statutory Compliance	
(1)	This Environmental Clearance (EC) is subject to orders/ judgment of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, Common Cause Conditions as may be applicable.	Noted
(2)	The Project proponent complies with all the statutory requirements and judgement 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.	Noted
(3)	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 Judgement 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.	This is a Greenfield project.
(4)	This Environmental Clearance shall become operational only after receiving formal NBWL Clearance from MoEF&CC subsequent to the recommendations of the Standing Committee of National Board for Wildlife, if applicable to the Project.	Not Applicable
(5)	This Environmental Clearance shall become operational only after receiving formal Forest Clearance (FC) under the provision of Forest Conservation Act, 1980, if applicable to the Project.	Not Applicable
(6)	Project Proponent (PP) shall obtain Consent to Operate after grant of EC and effectively implement all the conditions stipulated therein. The mining activity shall	Noted for compliance.

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Sr.	Conditions	Remarks
	not commence prior to obtaining Consent to Establish / Consent to Operate from the concerned State Pollution Control Board/Committee.	
(7)	The PP shall adhere to the provision of the Mines Act, 1952, Mines and Mineral (Development & Regulation), Act, 2015 and rules & regulations made there under. PP shall adhere to various circulars issued by Directorate General Mines Safety (DGMS) and Indian Bureau of Mines from time to time.	Noted
(8)	The Project Proponent shall obtain consents from all the concerned land owners, before start of mining operations, as per the provisions of MMDR Act, 1957 and rules made there under in respect of lands which are not owned by it.	Noted for compliance.
(9)	The Project Proponent shall follow the mitigation measures provided in MoEFCC's Office Memorandum No. Z-11013/57/2014-IA.II (M), dated 29 th 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".	Noted for compliance.
(10)	The Project Proponent shall obtain necessary prior permission of the competent authorities for drawl of requisite quantity of surface water and from CGWA for withdrawal of ground water for the project.	Noted for compliance. Karnataka is not under jurisdiction of CGWA. Ground water will not be abstracted without obtaining permission from Karnataka Ground Water Department, Kalaburagi. An application for the same has been submitted on 06.06.2021. Site visit done by Sr. Geologist Dist. Ground water on 31.08.2021. Application is under process.
(11)	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.	Complied The Receipts have already been submitted with earlier Half-yearly compliance report Dec., 2021.
(12)	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.	--
(13)	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	Complied. A public notice informing about the grant of EC of proposed mine was published in

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Sr.	Conditions	Remarks
	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 (www.parivesh.nic.in). A copy of the advertisement may be forwarded to the concerned MoEFCC Regional Office for compliance and record.	two newspapers named “Deccan Herald and Prajavani” on 11 th August 2021 in English as well as in vernacular language. As instructed, Copy of Advertisements was submitted to MoEFCC Regional Office along with copy of granted EC on 14 th Sept 2021. The same was communicated through Half-yearly compliance report submitted for “Dec., 2021” along with copies of advertisement.
(14)	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 than mining operation shall only be carried out after transfer of EC as per provisions of the para 11 of EIA Notification, 2006 as amended from time to time.	Noted
II.	Air quality monitoring and preservation	
(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/PCUI, 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.	Noted for Compliance during operation.
(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.	Noted for Compliance during operation. All mitigation measures will be undertaken to control fugitive emission such as water sprinkling, bag filter/dry fog system at crusher etc. Plantation will also

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Sr.	Conditions	Remarks
	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.	be done which will help to control fugitive emission.
III.	Water quality monitoring and preservation	
(1)	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.	Noted for Compliance. Prior Permission along with detailed Hydro-geological study will be taken from KGWA before intersection of ground water, as the area is not governed by CGWA.
(2)	Regular monitoring of the flow rate of the springs and perennial nallahs flowing in and around the mine lease shall be carried out and records maintain. The natural water bodies and or streams which are flowing in an around the village, should not be disturbed. The Water Table should be nurtured so as not to go down below the pre-mining period. In case of any water scarcity in the area, the Project Proponent has to provide water to the villagers for their use. A provision for regular monitoring of water table in open dug wall located in village should be incorporated to ascertain the impact of mining over ground water table. 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.	Noted for compliance during operation of the mine.
(3)	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	Noted for compliance during operation.

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Sr.	Conditions	Remarks
	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)	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 and maintain its records. The project proponent shall undertake regular monitoring of water quality upstream and downstream of water bodies passing within and nearby/ adjacent to the mine lease and maintain its records. Sufficient number of gullies shall be provided at appropriate places within the lease for management of water. PP shall carryout regular monitoring w.r.t. pH and included the same in monitoring plan. 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.	Noted for compliance during operation of the mine.
(5)	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	Noted for compliance.

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Sr.	Conditions	Remarks
	Ministry of Environment, Forest and Climate Change may also be referred in this regard.	
(6)	Project Proponent shall plan, develop and implement rainwater harvesting measures on long term basis to augment ground water resources in the area in consultation with Central Ground Water Board/ State Groundwater Department. A report on amount of water recharged needs to be submitted to Regional Office MoEFCC annually.	Noted for Compliance. Rain Water Harvesting measures shall be adopted in consultation with Karnataka Ground Water Authority. Details of the same will be regularly submitted after commencement of mining operation.
(7)	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.	Noted for compliance.
(8)	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.	Noted for compliance. Measures will be taken to reduce the water consumption such as use of treated water, use of sprinklers etc. However, later, the rainwater accumulated in the mine pit as and when developed, will augment the water requirement of the project except domestic requirement.
IV.	Noise and vibration monitoring and prevention	
(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.	Noted for compliance.
(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.	Noted for compliance. All measures will be adopted.
(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.	Noted for compliance during operation of mine.

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	<p>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.</p>	<p>Adequate measures, detailed in EIA/EMP and Mining plan, shall be implemented to control the noise level below 85 dBA in the work environment. PPE will be provided to all workers engaged in operations of HEMM, working in dusty area etc. Awareness training programs about safety and health aspects will also be arranged.</p>
V.	Mining Plan	
(1)	<p>The Project Proponent shall adhere to the working parameters of mining plan which was submitted at the time of EC appraisal wherein year-wise plan was mentioned for total excavation i.e. quantum of mineral, waste, over burden, inter burden and top soil etc. No change in basic mining proposal like mining technology, total excavation, mineral & waste production, lease area and scope of working (viz. method of mining, overburden & dump management, O.B & dump mining, mineral transportation mode, ultimate depth of mining etc.) shall not be carried out without prior approval of the Ministry of Environment, Forest and Climate Change, which entail adverse environmental impacts, even if it is a part of approved mining plan modified after grant of EC or granted by State Govt. in the form to Short Term Permit (STP), Query license or any other name.</p>	<p>Noted for compliance. Mining will be done as per the approved mining plan and information submitted during appraisal for EC.</p>
(2)	<p>The Project Proponent shall get the Final Mine Closure Plan along with Financial Assurance approved from Indian Bureau of Mines/Department of Mining & Geology as required under the Provision of the MMDR Act, 1957 and Rules/ Guidelines made there under. A copy of approved final mine closure plan shall be submitted within 2 months of the approval of the same from the competent authority to the concerned Regional Office of the Ministry of Environment, Forest and Climate Change for record and verification.</p>	<p>Noted for compliance.</p>
(3)	<p>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</p>	<p>Noted for compliance.</p>

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	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.	
VI.	Land reclamation	
(1)	The Overburden (O.B.) 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 dumps like height, width and angle of slope shall be governed as per the approved Mining Plan as per the guidelines/circulars issued by D.G.M.S w.r.t. safety in mining operations shall be strictly adhered to maintain the stability of top soil/OB dumps. The topsoil shall be used for land reclamation and plantation.	Noted for compliance. Management of OB, Topsoil will be done as per the Approved Mining Plan during operation of the mine. Both will be temporarily dumped and physical parameters of the dumps will be maintained as per approved mining plan and as per the guidelines/circulars issued by D.G.M.S. As per the Approved Mining Plan, overburden generated will be utilized for bund formation along the various safety zone over which greenbelt will be developed. Top Soil will be used for greenbelt and plantation purpose.
(2)	The reject/waste generated during the mining operations shall be stacked at earmarked waste dump site(s) only. The physical parameters of the waste dumps like height, width and angle of slope shall be governed as per the approved Mining Plan as per the guidelines/circulars issued by DGMS w.r.t. safety in mining operations shall be strictly adhered to maintain the stability of waste dumps.	Noted for compliance.
(3)	The reclamation of waste dump sites shall be done in scientific manner as per the Approved Mining Plan cum Progressive Mine Closure Plan.	Noted for compliance.
(4)	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	Noted for compliance during operation phase.

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	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.	
(5)	The Project Proponent shall carry out slope stability study in case the dump height is more than 30 meters. The slope stability report shall be submitted to concerned regional office of MoEF&CC.	Noted.
(6)	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.	Noted for compliance. Retaining wall and garland drain along with siltation ponds will be developed to collect surface run off. Clean & clear water after proper sedimentation will be discharged in natural drainage.
(7)	Check dams of appropriate size, gradient and length shall be constructed around mine pit and OB dumps to prevent storm run-off and sediment flow into adjoining water bodies. A safety margin of 50% shall be kept for designing of sump structures over and above peak rainfall (based on 50 years data) and maximum discharge in the mine and its adjoining area which shall also help in providing adequate retention time period thereby allowing proper settling of sediments/ silt material. The sedimentation pits/ sumps shall be constructed at the corners of the garland drains.	Noted for compliance during operation of mine.
(8)	The top soil, if any, shall temporarily be stored at earmarked site(s) within the mine lease only and should not be kept unutilized for long. The physical parameters of the top soil dumps like height, width and angle of slope shall be governed as per the approved Mining Plan and as per the guidelines framed by DGMS w.r.t. safety in mining operations shall be strictly adhered to maintain the stability of dumps. The topsoil shall be used for land reclamation and plantation purpose.	Noted for compliance. Top soil will be temporarily dumped at earmarked place and will be used for Green Belt/plantation. The physical parameters of the top soil dumps will be maintained with implementation of measures as per the approved Mining Plan and as per the guidelines framed by DGMS.
VII.	Transportation	

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(1)	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].	Noted for compliance during operation of mine. Crushed Limestone will be transported to the Interlinked Cement Plant via Covered Conveyor Belt.
(2)	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.	Noted for compliance during operation of mine.
VIII.	Green Belt	
(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	Noted for Compliance. Safety barrier (No mining zone) of 7.5m is demarcated all along the ML boundary as per Approved Mining Plan and greenbelt will be developed as per guidelines of CPCB as well as the granted

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	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.	Environmental clearance irrespective of the stipulation made in approved mine plan.
(2)	The Project Proponent shall carryout plantation/ afforestation in backfilled and reclaimed area of mining lease, around water body, along the roadsides, in community areas etc. by planting the native species in consultation with the State Forest Department/ Agriculture Department/ Rural development department/ Tribal Welfare Department/ Gram Panchayat such that only those species be selected which are of use to the local people. The CPCB guidelines in this respect shall also be adhered. The density of the trees should be around 2500 saplings per Hectare. Adequate budgetary provision shall be made for protection and care of trees.	Noted for Compliance. Greenbelt/plantation will be done in 7.5m safety barrier along the ML boundary and safety zone along various barriers such as Nallah, road, electric lines and safety zone from habitation. Development of Greenbelt/Plantation will be done in consultation with State Forest Department and CPCB guidelines @ 2500 saplings per Hectare. Local and fruit bearing tree species will be planted.
(3)	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.	No grazing land falls within ML area.
(4)	The Project Proponent shall undertake all precautionary measures for conservation and protection of endangered flora and fauna and Schedule-I species during mining operation. A Wildlife Conservation Plan shall be prepared for the same clearly delineating action to be taken for conservation of flora and fauna. The Plan shall be approved by Chief Wild Life Warden of the State Govt.	Detailed Biological Study was conducted by J.M. EnviroNet Pvt. Ltd. during appraisal of project for EC. No Schedule - I species were reported during the field survey or in secondary data. Certificate confirming the same along with authenticated list of flora and fauna has been obtained from Principal Chief Conservator of Forests (Wildlife) & Chief Wildlife Warden, Karnataka vide letter no. PCCF/WL/D/CR-88/2020-21 dated 25.03.2021. The same has been submitted along with earlier Half-yearly compliance report (Dec., 2021).

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(5)	And implemented in consultation with the State Forest and Wildlife Department. A copy of Wildlife Conservation Plan and its implementation status (annual) shall be submitted to the Regional Office of the Ministry.	There is no Schedule - I species in the study area. Certificate along with authenticated list of flora and fauna has been obtained from Principal Chief Conservator of Forests (Wildlife) & Chief Wildlife Warden, Karnataka vide letter no. PCCF/WL/D/CR-88/2020-21 dated 25.03.2021.
IX.	Public hearing and human health issues	
(1)	The Project Proponent shall appoint an Occupational Health Specialist for Regular as well as Periodical medical examination of the workers engaged in the mining activities, as per the DGMS guidelines. The records shall be maintained properly. PP shall also carryout Occupational health check-ups in respect of workers which are having ailments like BP, diabetes, habitual smoking, etc. The check-ups shall be undertaken once in six months and necessary remedial/ preventive measures be taken. A status report on the same may be sent to MoEFCC Regional Office and DGMS on half-yearly basis.	Noted for compliance during operation of mine. Pre-employment and Periodic health check-up as stipulated in condition will be undertaken and details will be submitted to RO, MoEF&CC & DGMS. An Occupational Health Specialist for Regular as well as Periodical medical examination of the workers will also be engaged during operation of mine.
(2)	The Project Proponent must demonstrate commitment to work towards 'Zero Harm' from their mining activities and carry out Health Risk Assessment (HRA) for identification workplace hazards and assess their potential risks to health and determine appropriate control measures to protect the health and wellbeing of workers and nearby community. The proponent shall maintain accurate and systematic records of the HRA. The HRA for neighborhood has to focus on Public Health Problems like Malaria, Tuberculosis, HIV, Anaemia, Diarrhoea in children under five, respiratory infections due to bio mass cooking. The proponent shall also create awareness and educate the nearby community and workers for Sanitation, Personal Hygiene, Hand washing, not to defecate in open, Women Health and Hygiene (Providing Sanitary Napkins), hazard of tobacco and alcohol use. The Proponent shall carryout base line HRA for all the category of workers and thereafter every five years.	Noted for compliance during operation of mine.
(3)	The Proponent shall carry out Occupational health surveillance which be a part of HRA and include	Noted for compliance during operation of mine.

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	<p>Biological Monitoring where practical and feasible, and the tests and investigations relevant to the exposure (e.g. for Dust a X-Ray chest; For Noise Audiometric; for Lead Exposure Blood Lead, For Welders Full Ophthalmologic Assessment; for Manganese Miners a complete Neurological Assessment by a Certified Neurologist, and Manganese (Mn) Estimation in Blood; For Inorganic Chromium- Fortnightly skin inspection of hands and forearms by a responsible person. Except routine tests all tests would be carried out in a Lab accredited by NABH. Records of Health Surveillance must be kept for 30 years, including the results of and the records of Physical examination and tests. The record of exposure due to materials like Asbestos, Hard Rock Mining, Silica, Gold, Kaolin, Aluminium, Iron, Manganese, Chromium, Lead, Uranium need to be handed over to the Mining Department of the State in case the life of the mine is less than 30 years. It would be obligatory for the State Mines Departments to make arrangements for the safe and secure storage of the records including X-Ray. Only conventional X-Ray will be accepted for record purposes and not the digital one). X-Ray must meet ILO criteria (17 x14 inches and of good quality).</p>	
(4)	<p>The Proponent shall maintain a record of performance indicators for workers which includes (a) there should not be a significant decline in their Body Mass Index and it should stay between 18.5 -24.9, (b) the Final Chest X-Ray compared with the base line X-Ray should not show any capacities, (c) At the end of their leaving job there should be no Diminution in their Lung Functions Forced Expiratory Volume in one second (FEV1), Forced Vital Capacity (FVC), and the ratio) unless they are smokers which has to be adjusted, and the effect of age, (d) their hearing should not be affected. As a proof an Audiogram (first and last need to be presented), (e) they should not have developed any Persistent Back Pain, Neck Pain, and the movement of their Hip, Knee and other joints should have normal range of movement, (f) they should not have suffered loss of any body part. The record of the same should be submitted to the Regional Office, MoEFCC annually along with details of the relief and compensation paid to workers having above indications.</p>	<p>Noted for compliance during operation of mine.</p>

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(5)	The Project Proponent shall ensure that Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects.	Noted for compliance.
(6)	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, creche 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.	Noted for compliance during site development activities. It's a mining project and no major construction activities will be involved except a mine office. Necessary arrangements such as rest shelter, drinking water, mobile toilets, Medical health care etc. will be provided for the workers.
(7)	The activities proposed in Action plan prepared for addressing the issues raised during the Public Hearing shall be completed as per the budgetary provisions mentioned in the Action Plan and within the stipulated time frame. The Status Report on implementation of Action Plan shall be submitted to the concerned Regional Office of the Ministry along with District Administration.	Noted for compliance. A time bound action plan was prepared on the basis of issues raised during public hearing and submitted during appraisal. The same will be undertaken during operation of mine and Status report of implementation will be submitted along with Half Yearly Compliance report.
X.	Corporate Environment Responsibility (CER)	
(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.	Noted for compliance. A time bound action plan was prepared on the basis of issues raised during public hearing and submitted during appraisal. The same have already been submitted along with earlier Half-yearly compliance report Dec., 2021.
XI.	Miscellaneous	
(1)	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.	Noted for compliance.
(2)	The Project Authorities should inform to the Regional Office regarding date of financial closures and final	Noted for compliance.

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	approval of the project by the concerned authorities and the date of start of land development work.	
(3)	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.	Noted for compliance.
(4)	A separate 'Environmental Management Cell' with suitable qualified manpower should be set up under the control of a Senior Executive. The Senior Executive shall directly report to Head of the Organization. Adequate number of qualified Environmental Scientists and Mining Engineers shall be appointed and submit a report to RO, MoEF&CC.	Noted for compliance.
(5)	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.	Noted.
20.	The Ministry or any other competent authority may alter/modify the above conditions or stipulate any further condition in the interest of environment protection.	Noted.
21.	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.	Noted.
22.	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.	Noted.
23.	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.	Noted.