



**Emami\* cement limited**

Ref. No.: ECL/ENV/HLYCR/2019/54

Dated: 31.05.2019

To,  
The Regional Officer (CWZ),  
Ministry of Environment & Forest,  
Ground Floor, New Secretarial Building, Civil Line  
**NAGPUR (MS) – 440 001**  
E-Mail: apccfcentral-ngp-mef@gov.in

**Subject:** Half Yearly Environmental Clearance Compliance Report for Limestone Mines (ML Area 395.05 Ha) at Kukurdih & Risda villages, Tahsil: Baloda Bazar, District: Baloda Bazar-Bhatapara (CG) for the period of 01.10.2018 to 31.03.2019.

**Ref.:** Environmental Clearance Letter. No. J- 11015/135/2015-IA- II (M) dated 06.04.2018.

Dear Sir,  
Please find enclosed herewith Half Yearly Environmental Clearance Compliance Report for Limestone Mines (ML Area 395.05 Ha) at Risda & Kukurdih villages Tahsil: Baloda Bazar, District: Baloda Bazar-Bhatapara (CG) for the period of **October' 2018 to March' 2019**.

The Soft file is also being sent by E-mail to apccfcentral-ngp-mef@gov.in.

Thanking you,

Yours faithfully,  
**For Emami Cement Ltd**

**Dilip Kumar Sharma**  
**Sr. V.P. - Technical**

Encl.: Environmental Clearance Compliance Report

Copy for information to:

1. CPCB, 3<sup>rd</sup> Floor Shahkar Bhavan, North TT Nagar, **Bhopal**– 462003, cpcb.bhopal@gmail.com
2. Member Secretary, CECB, Paryavas Bhawan, North Block, Sector-19, **Raipur (CG)**, hocecb@gmail.com
3. Regional Officer, CECB, Commercial Complex, Kabir Nagar, **Raipur (CG)**, rocecbraipur2014@gmail.com
4. Office Copy.

**Compliances of various conditions of  
Environment Clearance vide letter No J-11015/135/2015-IA II (M) dated 06.04.2018 granted for  
Expansion of Limestone Production Capacity from 3.17 MTPA to 5.5 MTPA at villages Risda and  
Kukurdih, Tehsil - Baloda Bazar, District- Baloda Bazar - Bhatapara (CG)**

As on 31.03.2019

S. No	Conditions	Action for Compliance
<b>Compliance to Specific Conditions</b>		
1	Environmental Clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court of Chhattisgarh and any other Court of Law, if any, as may be applicable to this project.	Noted.
2	This Environmental Clearance is subject to obtaining requisite NBWL Clearance from the Standing Committee of National Board for Wildlife, if any, applicable for this Mining Project.	Not applicable.
3	No mining activities will be allowed in forest area, if any, for which the Forest Clearance is not available.	No Forest falls In Mining Lease area.
4	The project proponent shall obtain Consent to Operate from the State Pollution Control Board, Chhattisgarh and effectively implement all the conditions stipulated therein.	Complied.
5	No mining activities will take place until the permission of the State Government as per law for diversion of land use change as applicable is obtained.	Noted.
6	The Proponent should install online Ambient Air Quality Monitoring System and there should be system for display of digital AAQ data within 03 months at least at three locations as per wind direction. Online provisions of pH and turbidity meters at discharge points of STP and ETP and also at water storage ponds in the mining area may be made. Project Proponent should display the result digitally in front of the main Gate of the mine site.	Complied. 04 Nos. Online Ambient Quality monitoring systems are installed. We are in process to installing online pH and turbidity meters for STP, ETP & Water Storage Ponds in mining area and display the result digitally
7	Project Proponent reported that there are 2 seasonal nallahs within the lease area for which a safety zone of 50 meters has been left on either side of the nallah as a statutory barrier. The nallah will not be disturbed at any stage of mining. It was further noted by the Committee through KML file that an earthen bund of Kukurdih dam is near to the mine lease boundary and PP has reportedly left a safety barrier zone along the Kukurdih dam.	Complied. At present both seasonal nallahs are dry and safety zone of 50 meters has been left on both side of the nallah as a statutory barrier and will not be disturbed.
8	Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical examination of the workers engaged in the Project and maintain records accordingly; also, Occupational health check-ups for workers having some ailments like BP, diabetes, habitual smoking, etc. shall be undertaken once in six months and necessary remedial/preventive measures taken accordingly. The Recommendations of National Institute for ensuring good occupational environment for mine workers shall be implemented; The prevention measure for burns, malaria and provision of anti-snake venom including all other paramedical safeguards may be ensured before initiating the mining activities.	Complied. Occupational Health Specialist is appointed for regular medical checkup. The records are maintain as per the guidelines.
9	The mining operations will encounter water table and permission for intersecting the ground water table has been obtained from Central Ground Water Authority. In this context, Project Proponent shall comply the following conditions viz. (a) The Regular monitoring of ground water table to be carried out by establishing a network of existing wells and constructing new piezometers. The Reports shall be submitted at interval of six months to the Regional Office of the Ministry and Chhattisgarh State Pollution Control Board. (b) The water balance/water auditing shall be carried out and measures for reducing the consumption of water shall be	Complied. NOC has been issued by CGWA vide letter No. CGWA/NOC/MIN/ORIG/2018/3350 Dated 20.03.2018. We are being regular monitoring of ground water table of existing wells and constructing new piezometers. The Reports of Water Level & Water Quality are being submitting regularly to the Regional Office of Ministry and Chhattisgarh State Pollution Control Board.

	taken up and reported to the Regional Office of the Ministry and Chhattisgarh State Pollution Control Board. (c) The Regular monitoring of water quality upstream and downstream of water bodies shall be carried out and record of the monitoring data should be maintained and submitted to the at interval of six months to the Regional Office of the Ministry and State Pollution Control Board. (d) The Plantation/Green belt at the periphery of the water body, particularly on eastern and western boundaries, shall be maintained in the mined out area in order to reduce the loss of surface water.	The Plantation/Green belt at the periphery of the water body, particularly on eastern and western boundaries, are being maintain in the mined out area in order to reduce the loss of surface water.
10	Main haulage road in the mine should be provided with permanent water sprinklers and other roads should be regularly wetted with water tankers fitted with sprinklers. The material transfer points should be invariably be provided with Bag filters and or dry fogging system. Belt conveyors should be fully covered to avoid air borne dust; Use of effective sprinkler system to suppress fugitive dust on haul roads and other transport road shall be ensured.	Complied. We are regularly water spraying on haulage road with water tanker and sprinklers. Belt conveyors are fully covered and Bag filters are installed in the material transfer points to avoid air borne dust. .
11	Implementation of Action Plan on the issues raised during the Public Hearing shall be ensured. The Project Proponent shall complete all the tasks as per the Action Plan submitted with budgetary provisions during the Public Hearing.	Complied. Action Plan on the issues raised during the Public Hearing are being complied.
<b>B. Compliance to Standard Conditions</b>		
1	A Final Mine Closure Plan along with details of Corpus Fund shall be submitted to the Ministry of Environment, Forest and Climate Change 5 years in advance of final mine closure for approval	Noted.
2	No change in mining technology and scope of working should be made without prior approval of the Ministry of Environment, Forest and Climate Change.	Noted.
3	No change in the calendar plan including excavation, quantum of mineral and waste should be made.	Noted.
4	Mining shall be carried out as per the provisions outlined in mining plan approved by Indian Bureau of Mines (IBM)/State Mines and Geology Department as well as by abiding to the guidelines of Directorate General Mines Safety (DGMS).	Being complied as per IBM & DGMS guidelines.
5	The lands which are not owned by Proponent, mining will be carried out only after obtaining the consents from all the concerned land owners as per the provisions of the Mineral Concession Rules, 1960 and MMDR Act, 1957.	Noted.
6	Digital processing of the entire lease area using remote sensing technique shall be carried out regularly once in three years for monitoring land use pattern and report submitted to Ministry of Environment, Forest and Climate Change its Regional Office.	Noted for compliance.
7	Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical examination of the workers engaged in the Project and maintain records accordingly; also Occupation Health Check-ups for workers having some ailments like BP, diabetes, habitual smoking, etc., shall be undertaken once in six months and necessary remedial/preventive measures taken accordingly. The Recommendations of National Institute for ensuring good occupational environment for mine workers shall be implemented. The prevention measure for burns, malaria and provision of anti-snake venom including all other paramedical safeguards may be ensured before initiating the mining activities.	Complied, occupational health officials appointed. Regular medical checkup of all employees are being done and records are maintained
8	The critical parameters as per the Notification 2009 such as PM 10, PM2.5, NOX, and Sox etc., in the ambient air within the impact zone, peak particle velocity at 300m distance or within the nearest habitation, whichever is closer shall be monitored periodically. Further, quality of discharged water shall also be monitored (TDS, DO, PH and Total Suspended Solids (TSS)]. The monitored data shall be uploaded on the website of the company as well as displayed on a display board at the project site at a suitable location near the main gate of the Company in public domain. The circular No. (20012/1/2006-IA.II (M) dated 27.05.2009 issued by Ministry of	The monitored data are being uploaded on the website of the company as well as display at main gate of the Company for public domain.

	Environment, Forest and Climate Change shall also be referred in this regard for its compliance.	
9	The Proponent shall install online Ambient Air Quality Monitoring System and there should be system for display of digital AAQ data within 03 months at least at three locations as per wind direction. Online provisions of pH and turbidity meters at discharge points of STP and ETP and also at water storage ponds in the mining area may be made. Project Proponent should display the result digitally in front of the Main Gate of the mine site.	Complied, 04 Nos. of Online Ambient Air Quality Monitoring System are already installed and data are uploads in CECB & CPCB Server. We are in process to installing online pH and turbidity meters for STP, ETP & Water Storage Ponds in the mining area and display the result digitally.
10	Effective safeguard measures such as regular water sprinkling shall be carried out in critical, areas prone to air pollution and having high levels of PM 10 and PM 2.5 such as haul road, loading and unloading point and transfer points. Fugitive dust emissions from all the sources shall be controlled regularly. It shall be ensured that the Ambient Air Quality Parameters conform to the norms prescribed by the Central Pollution Control Board in the regard. Monitoring of Ambient Air Quality to be carried out based on the Notification 2009, as amended from time to time by the Central Pollution Control Board.	Being complied, Fugitive dust emissions from all the sources are being controlled and monitoring of Ambient Air Quality are being done regularly as per the Notification 2009.
11	Regular monitoring of ground water level and quality shall be carried out in and around the mine lease by establishing a network of existing wells and constructing new piezometers during the mining operation. The project proponent shall ensure that no natural water course and/or water resources shall be obstructed due to any mining operations. The monitoring shall be carried out four times in a year pre-monsoon (April-May), monsoon (August), post-mon-soon (November) and winter (January) and the data thus collected 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.	Regular monitoring of ground water level and quality are being carried out in and around the mine lease of existing wells by constructing new piezometers. The monitoring are being carried out four times in a year pre-monsoon (April/May), monsoon (August), post-monsoon (November) and winter (January) and the data are submitting to Ministry of Environment, Forest and Climate Change and its Regional Office, Central Ground Water Authority Regional Director, Central Ground Water Board and CECB HO/RO. Last Report is being submitted vide our letter No. ECL/ENV/CGWA/2019/21, Dated 15.02.2019.
12	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.	Compliance assured.
13	Regular monitoring of water quality upstream and downstream of water bodies shall be carried out and record of monitoring data should be maintained and submitted to the Ministry of Environment, Forest and Climate Change and its Regional Office, Central Ground Water Authority, Regional Director, Central Ground Water Board, State Pollution Control Board and Central Pollution Control Board.	Complied.
14	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 "PUC' certificate for all the vehicles from authorized pollution testing Centre.	Compliance assured, Regular water sprinkling is being done on the road to avoid dust emission during movement of vehicles.
15	Transportation of the minerals by road passing through the village shall not be allowed. A 'by pass' road should be constructed (say, leading a gap of at least 200 meters) for the purpose of transportation of the minerals so that the impact of sound, dust and accidents could be mitigated. The project proponent shall bear the cost towards the widening and strengthening of existing public road network in case the same is proposed to be used for the Project. No road movement should be allowed on existing village road network without appropriately increasing the carrying capacity of such roads.	Noted & Agreed. No Transportation Road is passing through the village.
16	The illumination and sound at night at project sites disturb the villages in respect of both human and animal population. Consequent sleeping	Being complied with. We are not disturbing the villages in respect of both human and

	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 flood lights/masks away from the villagers and keeping the noise levels well within the prescribed limits for day light/night hours.	animal population because mines are away from the villages.
17	Main haulage road in the mine should be provided with permanent water sprinklers and other roads should be regularly wetted with water tankers fitted with sprinklers. Crusher and material transfer points should invariably be provided with Bag filters and dry fogging system. Belt-conveyors should be fully covered to avoid air borne dust.	Being complied with, we are regularly water spraying on haulage road with water tankers fitted with sprinklers. Bag filters are already installed at material transfer points and belt conveyors are fully covered to avoid air born dust.
18	Main haulage road in the mine should be provided with permanent water sprinklers and other roads should be regularly wetted with water tankers fitted with sprinklers. The material transfer points should invariably be provided with Bag filters and or dry fogging system. In case of Belt-conveyors facilities the system should be fully covered to avoid air borne dust; Use of effective sprinkler system to suppress fugitive dust on haul roads and other transport roads shall be ensured.	Being complied with, we are regularly water spraying on haulage road with water tanker fitted with sprinklers and belt conveyors are fully covered to avoid air born dust.
19	Sufficient number of Gullies to be provided for better management of water. Regular Monitoring of pH shall be included in the monitoring plan and report shall be submitted to the Ministry of Environment, Forest and Climate Change and its Regional Office on six monthly basis.	Being complied with, we have already made the Gullies for better water management. Regular monitoring of pH are also being monitored and report is being submitting to the Ministry of Environment, Forest and Climate Change and its Regional Office on six monthly basis last report is being submitted vide letter No. ECL/ENV/HLYCR/2018/114, dated 17.12.2018.
20	There shall be planning, developing and implementing facility of rain water harvesting measures on long term basis and implementation of conservation measures to augment ground water resources in the area in consultation with Central Ground Water Board.	Being complied with, we have developed and implemented the rain water harvesting facility for conservation augment of ground water level.
21	The Project Proponent has to take care of gullies formed on slopes. Dump mass should be consolidated with proper filling/levelling with the help of dozer/compactors.	Being complied with, we have already made the gullies formed on slopes. Dump mass with proper filling/leveling with the help of dozer/compactors.
22	The reclamation at waste dump sites shall be ecologically sustainable. Scientific reclamation shall be followed. The local species may be encouraged and species are so chosen that the slope, bottom of the dumps and top of the dumps are able to sustain these species. The aspect of the dump is also a factor which regulates some climatic parameters and allows only species adapted to that microclimate.	Being complied with. The reclamation at waste dump sites are being done sustainable and scientific reclamation are being followed. The local species are planting.
23	The top soil, if any, shall temporarily be stored at earmarked site(s) only and it should not be kept unutilized for long. The topsoil shall be used for land reclamation and plantation. The over burden (OB) generated during the mining operations shall be stacked at earmarked dump site (s) only and it should not be kept active for a long period of time. The maximum height of the dumps shall not exceed 8m and width 20 m and overall slope of the dumps shall be maintained to 45°. The OB dumps should be scientifically vegetated with suitable native species to prevent erosion and surface run off. In critical areas, use of geo textiles shall be undertaken for stabilization of the dump. The entire excavated area shall be backfilled and afforested. Monitoring and management of rehabilitated areas should continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Ministry of Environment, Forest and Climate Change and its Regional Office on six monthly basis.	Being complied with. The topsoil are being stacked identified area for Plantation. The over burden (OB) generated during the mining operations are being stacked at earmarked dump site(s) only.
24	Catch drains and siltation ponds of appropriate size shall be constructed around the mine working, mineral and OB dumps to prevent run off of water and flow of sediments directly into the river and other water bodies. The water so collected should be utilized for watering the mine area, roads, green belt development etc. The drains shall be regularly desilted particularly after monsoon and maintained properly. The drains, settling tanks and check dams of appropriate size, gradient and length shall be constructed both around the mine pit and over burden	Being complied with. The catch drains and siltation ponds of appropriate size are being constructed around the mine working. The water is collecting & utilizing for watering the mine area, roads, green belt development etc. The drains are being regularly de-silted particularly after monsoon and maintained properly. The drains, settling tanks and check dams of appropriate size, gradient

	dumps to prevent run off of water and flow of sediments directly into the river and other water bodies and sump capacity should be designed keeping 50% safety margin over and above peak sudden rainfall (based on 50 years data) and maximum discharge in the area adjoining the mine site. Sump capacity should also provide adequate retention period to allow proper settling of silt material. Sedimentation pits shall be constructed at the corners of the garland drains and desilted at regular intervals.	and length are being constructed. Sedimentation pits are constructed at the corners of the garland drains and de-silted at regular intervals.
25	Plantation shall be raised in a 7.5m wide green belt in the safety zone around the mining lease, backfilled and reclaimed area, around water body, along the roads etc. by planting the native species in consultation with the local DFO/Agriculture Department and as per CPCB Guidelines. The density of the trees should be around 2500 plants per ha. Greenbelt shall be developed all along the mine lease area in a phased manner and shall be completed within first five years.	Being complied with. Plantation are being raised in a 7.5 m wide green belt in the safety zone around the mining lease area, around water body, along the roads etc. The density of the trees are being maintained 2500 plants per ha by planting as per CPCB Guidelines.
26	Project Proponent shall follow the mitigation measures provided in Office Memorandum No. Z-11013/57/2014-IA.II (M), dated 29 <sup>th</sup> 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.
27	The Project Proponent shall make necessary alternative arrangements, where required, in consultation with the State Government to provide alternate areas for livestock grazing, if any,. In this context, Project Proponent should implement the directions of the Hon'ble Supreme Court with regard to acquiring grazing land. The sparse trees on such grazing ground, which provide mid-day shelter from the scorching sun, should scrupulously guarded against felling and plantation of such trees should be promoted.	No grazing land falling in the mining lease area.
28	The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered fauna, if any spotted in the study area. Action plan for conservation of flora and fauna shall be prepared and implemented in consultation with the State Forest and Wildlife Department. A copy of action plan shall be submitted to the Ministry of Environment, Forest and Climate Change and its Regional Office.	Noted. Action plan for conservation of flora and fauna are under progress.
29	As per the Company Act, the CSR cost should be 2% of average net profit of last three years. Hence CSR expenses should be as per the Company Act/Rule for the Socio Economic Development of the neighbourhood Habitats which could be planned and executed by the Project Proponent more systematically based on the "Need based door to door survey' by established Social Institutes/Workers. The report shall be submitted to the Ministry of Environment, Forest and Climate Change and its Regional Office on six monthly basis.	Agreed. We are doing ESC/CSR activities around the project and copy of the same is submitted to MoEF. Ref. No. ECL/ENV/HLYCR/2018/114, dated 17.12.2018.
30	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, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Agreed & Noted.
31	Measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provide with ear plugs/muffs.	Being Complied. We are providing suitable PPE's for Workers engaged in operations of HEMM, etc.
32	Industrial waste water (workshop and waste water from the mine) should be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19 <sup>th</sup> May, 1993 and 31 <sup>st</sup> December 1993 or as amended from time to time. Oil and grease trap should be installed before discharge of workshop effluents.	Being Complied. Industrial waste water from workshop is properly collected and treated from Oil and grease trap and treated water is used for dust suppression at haul road.

33	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.	Being Complied. Personal working in dusty areas providing PPE's. Training and awareness on safety and health aspects were organized regularly. Occupational health checkup of employees IME/PME is done and records are maintained.
34	A separate environmental management cell with suitable qualified personnel should be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization.	A separate environmental management cell with full- fledged laboratory facilities to carry out various management and monitoring functions is set up under the control of senior executive.
35	The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the Ministry and its Regional Office.	Agreed & Noted.
36	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.	Noted.
37	The project proponent shall submit six monthly report on the status of the implementation of the stipulated environmental safeguards to the Ministry of Environment, Forest and Climate Change, its Regional Office, Central Pollution Control Board and State Pollution Control Board.	Noted.
38	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.	Noted.
39	A copy of clearance letter will be marked to concerned Panchayat / local NGO, if any, from whom suggestion / representation has been received while processing the proposal.	The copy of Environmental Clearance has been submitted vide letter on. BB/EC/MoEFCC/RO/F01/34 dated 12.04.2018 to Concerned bodies.
40	State Pollution Control Board should display a copy of the clearance letter at the Regional Office, District Industry Centre and Collector's Office / Tehsildar's Office for 30 days.	-
41	The project authorities should advertise at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locally concerned, with 7 days of the issue of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and also at web site of the Ministry of Environment, Forest and Climate Change at <a href="http://www.environmentclearance.nic.in">www.environmentclearance.nic.in</a> and a copy of the same should be forwarded to the Regional Office.	Complied.