

**Status of Compliance to the Environmental clearance issued by the Ministry of Environment and Forests for the Limestone Mine (ML area 234.032 Ha. and Production of 2.14 MTPA) at Kotapadu Village, Kolimigundla Mandal, Kurnool District, Andhra Pradesh by M/s Dalmia Cement (Bharat) Ltd. Issued vide Ref: No. J-11015/35/2009 IA.II (M) dated 20.05.2014**

**Present Status of the Project:** Received Consent for Operation (CFO) from Andhra Pradesh Pollution Control Board, Kurnool. Awaiting for the work permit from the State Government, status of compliance applicable once operation commences. However, all the points will be incorporated in the process of Operation.

**A. Specific Conditions**

<b>Sl. No.</b>	<b>Conditions</b>	<b>Compliance Status</b>
1	Rainwater Harvesting will be carried out in the low lying area of the lease during initial years of operation. In the mine lease, old pits (area 13.86 Ha.) should be used for rain water during operational phase.	Rain water Harvesting Plan has been submitted to MoEF during appraisal of the project for grant of Environmental Clearance. It shall be implemented in accordance of same.
2	Ground vibrations shall be periodically monitored during Blasting using Minimate seismograph.	Ground vibrations will be monitored periodically and recorded
3	Blasting shall be carried out using optimum burden, charge and milli second delay detonators.	Will be complied, in accordance with the IBM Approved Mining Plan.
4	The ground vibrations generated by blasting during mining operation shall be within the standards prescribed by DGMS by controlled blasting.	Will be complied, in accordance with the IBM Approved Mining Plan.
5	The impacts shall be minimized by choosing proper detonating system, optimizing total charge and charge/delay, use of non – electric system of blasting etc.,	Will be complied, in accordance with the IBM Approved Mining Plan.
6	The project proponent shall obtain Consent to Establish and Consent to Operate from the state Pollution Control Board and effectively implement all the conditions stipulated therein.	Availed Consent For Establishment and Consent For Operation from Andhra Pradesh Pollution Control Board, Kurnool. All the conditions stipulated therein shall be effectively implemented.
7	The mining operations shall be restricted to above ground water table and it should not intersect the ground water table.	Will be complied

8	The loose solids should be kept separately from flowing water and flow of effluents to nearby areas outside the leasehold shall be prevented. These paved drains along with arrangements for overburden dumps and their drainage may be clearly depicted on a contoured map of the mining area.	Will be complied, in accordance with the scheme provided in EIA/EMP Report and IBM Approved Mining Plan.
9	The project proponent shall ensure that no natural watercourse and/or water resource shall be obstructed due to any mining operations. Adequate measures shall be taken for conservation and protection of the 1 <sup>st</sup> and 2 <sup>nd</sup> order streams, emanating or passing through the mine lease during the course of mining operation.	Mining will be undertaken strictly in accordance with IBM Approved Mining Plan. Protective measures as suggested will be implemented.
10	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.	2000 cu.m. of Topsoil removed are dumped in the 7.5 meters safety zone and around the pit to form a safety bund.
11	Appropriate safeguard measures shall be taken to ensure stability and drainage of dump so that no solid waste/debris flow into the nallah.	Safeguard measures as per IBM approved Mining Plan will be implemented to ensure stability and drainage of dumps. Measures shall be implemented as per EIA/EMP reports.
12	The overburden (OB) generated during the mining operation shall be stacked at earmarked dump site(s) only and it should not be kept active for a long period of time and their phase-wise stabilization shall be carried out. The overburden dumps shall be scientifically vegetated with suitable native species to prevent erosion and surface runoff. In critical areas, use of geo textiles shall be undertaken for stabilization of the dumps. Monitoring and management of rehabilitated areas should continue until the vegetation becomes self-sustaining. Compliance status should be submitted to the Ministry of Environment & Forests and its regional office, Bangalore on six monthly basis.	Will be complied, in accordance with IBM Approved Mining Plan and EIA EMP report. On commencement of Mining Operation and activities compliance status will be submitted as desired.
13	Catch drains and siltation ponds of appropriate size shall be constructed for the working pit, temporary OB and mineral dumps to arrest flow of silt and sediment directly into the adjoining River and other water bodies. The water so collected should be utilized for watering the mine area, roads, green belt development etc., The drains should be regularly desilted particularly after the monsoon and maintained properly.	Will be complied, in accordance with IBM Approved Mining Plan and as provided in EIA/EMP report.
14	Dimension of the retaining wall at the toe of the OB dump(s) and the OB benches within the mine to check run-off and siltation should be based on the rainfall data.	Dimensions of the retaining wall at the toe of the OB dumps and OB benches have been computed based on rainfall data and same shall be implemented.

15	Plantation shall be raised in an area of 68.07 ha including a 7.5 m wide green belt in the safety zone around the mining lease, OB dump(s), along the roads, etc. by planting the native species in consultation with the local DFO/Agriculture department. In addition, plantation shall be raised in the back filled and reclaimed area and around water body. The density of the trees should be around 1500 plants per ha.	Will be planted in consultation with DFO / Agriculture Department. Scheme has been incorporated in Mining Plan and EIA/EMP Report, same will be implemented.
16	Effective safeguard measures, such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of particulate matter such as around crushing and screening plant, loading and unloading points and all transfer points. Extensive water sprinkling shall be carried out on haul roads. It should be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.	Will be complied, Safeguard measures have been proposed in the EIA/EMP report and same shall be implemented.
17	Regular monitoring of water quality upstream and downstream of perennial nallahs failing in the impact zone shall be carried out and record of monitoring data should be maintained and submitted to Ministry of Environment and Forests, its Regional Office, Bangalore, Central Ground water Authority, Regional Director, Central Ground water Board, State Pollution Control Board and Central Pollution Control Board.	On the commencement of operation, monitoring will be carried out. Record will be maintained and submitted to the Regional offices.
18	Appropriate measures shall be taken for treatment of the upper catchment of the mine lease area.	Will be complied
19	The project authority should implement suitable conservation measures to augment ground water resources in the area in consultation with the Regional Director, Central Ground Water Board.	A rain water Harvesting scheme has been prepared and submitted to MoEF while appraisal of the project for grant of EC, same shall be implemented.
20	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 installing new piezometers during the mining operation. The periodic monitoring [(at least four times in a year – premonsoon (April – May), monsoon (August), Post-monsoon (November) and winter (January); once in each season)] shall be carried out in consultation with the state Pollution control Board/ Central Ground Water Authority and the data thus collected may be sent regularly to the Ministry of Environment and Forests and its Regional Office Bangalore, the Central Ground water Authority and the Regional Director, Central Ground water Board. If at any stage, it is observed that the ground water table is getting depleted due to the mining activity; necessary corrective measures shall be carried out.	On the commencement of Mining Operation, the ground water quality and levels will be regularly monitored as directed and report so prepared will be submitted to the Regional office of the Ministry

21	The project proponent shall obtain necessary prior permission of the competent authorities for drawl of requisite quantity of water, required for the project.	Mine operations require 70 cum/day raw water for domestic (5 cum/day), dust control (35 cum/day), green belt development (25 cum/day) workshop (5 cum/day).  This requirement will be met initially from bore wells and after development of the mine pit, it will be augmented with mine pit water and Rain water Harvesting.
22	Suitable rain water harvesting measures on long term basis shall be planned and implemented in consultation with the Regional Director, Central Ground Water Board.	Rainwater Harvesting scheme had been prepared and submitted to MoEF during the appraisal of the project for Environmental Clearance. Same shall be implemented.
23	Appropriate mitigative measures should be taken to prevent pollution of nearby river in consultation with the State Pollution Control Board.	There is no river running nearby the Mining Lease.
24	Vehicular emissions shall be kept under control and regularly monitored. Measures shall be taken for maintenance of vehicles used in mining operations and in transportation of mineral. The mineral transportation shall be carried out through the covered trucks only and the vehicles carrying the mineral shall not be overloaded.	Vehicular Emissions will be controlled and monitored. Facility of in-house workshop is envisaged for maintenance of vehicles used in mining operation. Mineral transportation will be done through covered trucks and within the carrying capacity of the truck.
25	Controlled blasting shall be practiced. The mitigative measures for control of ground vibrations and to arrest fly rocks and boulders should be implemented.	Controlled blasting will be practiced and measures for control of ground vibrations and to arrest fly rocks and boulders as per EIA/EMP report will be implemented. Blasting will be done as per DGMS circular and IBM Approved Mining Plan.
26	Drills shall either be operated with dust extractors or equipped with water injection system.	Wet drilling or drills with bag filters shall be adopted/used. Same have been envisaged in the IBM Approved Mining Plan.
27	Mineral handling area shall be provided with the adequate number of high efficiency dust extraction system. Loading and unloading areas including all the transfer points should also have efficient dust control arrangements. These should be properly maintained and operated.	Will be complied Measures as recommended in EIA/EMP will be implemented for same.

28	Sewage treatment plant shall be installed for the colony. ETP shall also be provided for the workshop and wastewater generated during the mining operation.	STP shall be installed for the colony.  During Mining Operation Waste water generated from the work shop will be treated for oil & Grease and treated effluent will be used for green belt.
29	Pre-placement medical examination and periodical medical examination of the workers engaged in the project shall be carried out and records maintained. For the purpose, schedule of health examination of the workers should be drawn and followed accordingly.	Pre placement medical examination of workers will be carried out as per the EIA/EMP report and IBM Guidelines. Schedule drawn in EIA/EMP will be followed.
30	Regular monitoring of free silica in the dust will be carried out and records maintained. It shall be ensured that the levels of silica do not exceed the prescribed limit. The workers will be provided with personal protective measures to guard against inhaling silica dust.	Will be complied on commencement of Mining Operation
31	Provision shall be made for the housing of construction labour within the site will 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 temporary structures to be removed after the completion of the project.	No major construction activity except Mines site office is envisaged. Provisions shall be made as required. However, as far as practicable local people will be employed.
32	The project proponent should take all precautionary measures during mining operation for conservation and protection of endangered flora as well as endangered fauna namely black buck, python, peacock etc. 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. Necessary allocation of funds for implementation of the conservation plan shall be made and the funds so allocated shall be included in the project cost. Copy of action plan may be submitted to the Ministry and its Regional Office, Bangalore within 3 months.	There are no endangered flora and fauna namely black buck, python, peacock etc. spotted in the study area. Hence not applicable.
33	The critical parameters such as RSPM (Particulate matter with size less than 10micron i.e., PM <sub>10</sub> ) and NO <sub>x</sub> 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. J-20012/1/2006-IA.II(M) dated 27.05.2009 issued by Ministry of Environment and Forests, which is available on the website of the Ministry <a href="http://www.envfor.nic.in">www.envfor.nic.in</a> shall also be referred in this regard for its compliance.	Will be complied on commencement of Mining Operation.  There will be no discharge of any effluent from the Mining operation. Policy of 'zero-discharge' is envisaged and will be adopted.

34	A Final Mine Closure Plan along with details of Corpus Fund should be submitted to the Ministry of Environment & Forests 5 years in advance final mine closure for approval.	IBM Approved Mine Plan along with Mine Closure Plan has been submitted to MoEF while obtaining Environmental Clearance of the project. However, Final Mine closure Plan along with details of Corpus Fund shall be submitted to MoEF 5 years in advance of final Mine Closure for Approval.
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## B. General Conditions

Sl. No.	Conditions	Compliance status
1	No change in mining technology and scope of working should be made without prior approval of the Ministry of Environment & Forests.	Noted for Compliance
2	No change in the calendar plan including excavation, quantum of mineral limestone and waste should be made.	Noted for Compliance. Mining will be carried out as per IBM Approved Mining Plan and for capacities mentioned in EC.
3	Four ambient air quality-monitoring stations should be established in the core zone as well as in the buffer zone for RSPM (Particulate matter with size less than 10micron i.e., PM <sub>10</sub> ) and NO <sub>x</sub> monitoring. Location of the stations should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets and frequency of monitoring should be undertaken in consultation with State Pollution Control Board.	Will be established and monitored on commencement of Mining Operation.
4	Data on ambient air quality RSPM (Particulate matter with size less than 10 micron i.e., PM <sub>10</sub> ) & NO <sub>x</sub> should be regularly submitted to the Ministry of Environment and Forests including its Regional office located at Bangalore and the State Pollution Control Board / Central Pollution Control Board once in six months.	On the commencement of Mining Operation, same shall be monitored and data shall be submitted as directed.
5	Fugitive dust emissions from all the sources should be controlled regularly. Water spraying arrangement on haul roads, loading and unloading and at transfer points should be provided and properly maintained.	Will be complied.

6	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 provided with ear plugs / muffs.	Deploying Mining equipment's shall be with in-built mechanism for reducing noise. Ear muffs/ plugs will be provided.
7	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.	Waste water generated from the work shop will be treated for oil & Grease and treated effluent will be used for green belt and dust suppression.
8	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. Occupation health surveillance program of the workers should be undertaken periodically to observe any contraction due to exposure to dust and take corrective measures, if needed.	Will be complied. Occupational Health Surveillance program as per EIA/EMP and Mining Plan will be implemented.
9	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 is functional in our associated Cement Plant and Mines, same will look after the implementation of EMP till the commencement of Operation. It is under the control of senior Executive who reports directly to the Unit Head of the Plant.
10	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 of Environment and Forests and its Regional Office located at Bangalore.	Will be complied
11	The project authorities should inform the Regional office located at Bangalore 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 for Compliance
12	The Regional office of this Ministry located at Bangalore 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.	Full co-operation will be provided.

13	The project proponent shall submit six monthly reports on the status of compliance the stipulated environmental clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the Ministry of Environment and Forests, its Regional Office Bangalore, the respective Zonal office of Central Pollution Control Board and the State Pollution Control Board. The proponent shall upload the status of compliance of the environmental clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional office of the Ministry of Environment and Forests, Bangalore, the respective Zonal Office of Central Pollution Control Board and the State Pollution Control Board.	Shall be submitted to Regional office of the Ministry and Respective office of the Pollution Control Board. Copy of Environmental Clearance and its compliance is available on Company's website : <a href="http://www.dalmiabharat.com">www.dalmiabharat.com</a>
14	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zilla Parisad / Municipal Corporation, Urban Local Boday and the Local NGO, if any from whom suggestions / representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the company by the proponent.	Complied. Also, Available on company's website <a href="http://www.dalmiabharat.com">www.dalmiabharat.com</a>
15	The State Pollution Control Board should display a copy of the clearance letter at the Regional office, District Industry Centre and the Collector's office / Tehsildar's office for 30 days.	Complied
16	The environmental statement for each financial year ending 31 <sup>st</sup> March in Form – V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the Regional office of the Ministry of Environment and Forests, Bangalore by e-mail.	On commencement of operation, same shall be complied.
17	The project authorities should advertise at least in two local newspapers of the District or State in which the Project is located and widely circulated, once of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of the clearance letter informing about that the project has been accorded environmental clearance and copy of the clearance letter is available with the State Pollution Control Board and also at the web site of the Ministry of Environment and Forests at <a href="http://envfor.nic.in">http://envfor.nic.in</a> and a copy of the same should be forwarded to the Regional Office of this Ministry located at Bangalore.	Advertised in the two local newspapers within seven days of its receipt – “Deccan Chronicle” and “The Andhra Jyothi” dated 03.06.2014.