

J.K. Cement WORKS, NIMBAHERA (RAJ)  
Compliance report of Environment Clearance for Nimbahera - Ahirpura Lime Stone Mine  
(For the Period from April 2013 to September 2013)  
Reference Letter from MOEF, New Delhi - J-11015/83/2004-IA,II Dated 30.05.2005

| S.No.   | Condition  | Status   | Remarks   |
|---------|--|--|---|
|         | <b>A. SPECIFIC CONDITIONS :</b>  |  |   |
| ( i )   | The environmental clearance is subject to approval of the State Landuse Department, Government of Rajasthan for diversion of agricultural land for non-agricultural use.   | Mining lease was granted on 22.02.1968. Approval for agriculture land used for Mining has been taken.  | No mining will be carried out before taken approval for non agricultural use. |
| ( ii )  | Topsoil and wastes, if any, should be stacked properly with proper slope at earmarked site(s) with adequate measures and should be used for reclamation and rehabilitation of mined out area.  | Agreed and being used for plantation only.   |   |
| ( iii ) | Catch drains and siltation ponds of appropriate size should be constructed to arrest silt and sediment flows from soil and mineral dumps. The water so collected should be utilized for watering the mine area, roads, green belt development etc. The drains should be regularly desilted and maintained properly.<br>Garland drain ( size, gradient & length) and sump capacity should be designed keeping 50% safety margin over and above the peak sudden rainfall 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. | Garland drain system maintained all around the mining pit, outside the mining limit for proper water harvesting. Check dams & siltation ponds are provided to control the inflow of sediments, silt in & around the mine working.<br>There is no generation of waste & all the blasted material is used for manufacturing of cement.   |   |
| ( iv )  | Green belt should be raised within and outside lease area and also along the roads. In addition to the existing 30.81 ha area brought under plantation, an additional area of 2.2 ha should be brought under green belt development by planting the native plant species in consultation with local DFO/ Agriculture Department. The density of the trees should be around 2500 plants per ha.   | Agreed.<br>Plantation done during the year 2013-14 ( up to September 2013) within lease 1435 nos. plants covering 0.8 ha. new area, Outside lease 667 nos. plants covering 1.20 hect. new area.  |   |
| ( v )   | The project authority should implement suitable conservation measures to augment ground water resources in the area in consultation with the Regional Director, Control Ground Water Board.  | Surface water during rainy season is collected in the lower bench of the mine to augment ground water resources.<br>1. Pit measuring 160mx51mx3.5m has been constructed in south side of cement plant to collect rainy water to augment water resources of near by area.<br>2. Anicut & check dams have been constructed in the nallah draining the mining pit.<br>3. Constructed injection wells with filter pit in premises of plant & colony. |   |

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| (vi)   | Regular monitoring of ground water level and quality should be carried out by establishing a network of existing wells and constructing new piezometers during the mining operation. The monitoring should be carried out four times in a year - pre-monsoon ( April-May ) , monsoon ( August ) , post-monsoon ( November ) and winter ( January ) and the data thus collected may be sent regularly to MOEF, Central Ground Water Authority and Regional Director Central Ground Water Board. | Report are being sent regularly on schedule time. Last report of Ground Water Level & Quality for Monsoon season was sent on 03/09/2013.vide letter no. NBH/PC-14/4133 - ( August'2013).                              |         |
| (vii)  | The project authorities should obtain prior approval of the competent authority for drawal of groundwater required for the project.  | We have obtained approval from the competent authority for drawal of ground water vide letter no. 21-4(34)/WR/CGWA/ 2006-895 Dated 25/5/2010  |         |
| (viii) | Suitable rainwater harvesting measures on long term basis shall be planned and implemented in consultation with Regional Director, CGWB.   | Agreed, Rain water is harvested during rainy season in the bottom most bench  |         |
| (ix)   | The mineral handling plant should be provided with 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.  | Water spray is being done at crusher unloading hopper. Bag filter have been provided in crusher plant to prevant dust emission.Regular water spraying by deploying water tanker is done in the mineral handling area. |         |
| (x)    | Consent to operate should be obtained from SPCB for the enhanced production.   | Obtained vide letter No. F ( Mines ) / Chittorgarh ( Nimbahera) 1036(1) /2011- 2012 /1820- 1824 dated 10.06.2011 ( for three years ) under air & water act.   |         |
| (xi)   | Vehicular emission should be kept under control and regulraly monitored.   | Agreed.   |         |
| (xii)  | Blasting operation should be carried out only during the daytime. Controlled blasting should be practiced. The mitigative measures for control of ground vibrations and to arrest fly rocks and boulders should be implemented.  | Use of sequential blasting Machine (SBM)<br>Delay Detotator,Non Electric detonator,<br>Regular monitoring of ground vibration is being practised.   |         |
| (xiii) | Drills should either be operated with dust extractors or should be equipped with water injection system.   | Arrangement of wet drilling in all drill M/C are made to supress the dust at its generation itself.   |         |
| (xiv)  | Digital processing of the entire lease area using remote sensing technique should be done regularly once in three years for monitoring land use pattern and report submitted to MOEF and its regional office.  | Agreed. We have submited report on 15/03/2011 vide Latter No.- NBH/PC-07/8046 on digital processing in the entire lease area.   |         |
| (xv)   | A Final Mine Closure Plan along with details of Corpus Fund should be submitted to the Ministry of Environment & Forest 5 years in advance of final mine closure for approval.   | progressive mines closure plan is prepared along with approved modified mining plan. No plan of mine closure in coming 5 years.   |         |

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|          | <b>B.General Conditions:-</b>   |   |         |
| ( i )    | No change in mining technology and scope of working should be made without prior approval of the Ministry of Environment and Forests.   | Agreed, Mining is being in accordance with approved modified Mining plan/ scheme of mining  |         |
| ( ii )   | No change in the calendar plan including excavation, quantum of mineral limestone and waste should be made.   | Agreed, Mining is being in accordance with approved modified Mining plan/ scheme of mining  |         |
| ( iii )  | Conservation measures for protection of flora and fauna in the core & buffer zone should be drawn up in consultation with the local forest department and experts.  | Agreed and it is being done accordingly.  |         |
| ( iv )   | Atleast four ambient air quality monitoring station should be established in the core zone as well as the buffer zone for RPM, SPM, SO <sub>2</sub> , Nox, and CO monitoring. Location of the stations should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets in consultation with the State Pollution Control Board. Data on ambient air quality ( RPM, SPM, SO <sub>2</sub> , Nox, and CO) should be regularly submitted to the Ministry including its Regional Office at Lucknow and to the State Pollution Control Board / Central Pollution Control Board once in six months. | Monitoring report is being sent to the concerned authority on six monthly basis. Latest report on Air Monitoring is enclosed as annexure-(I)  |         |
| ( v )    | The data on environmental quality should be collected and analysed either through an in-house environmental laboratory established with adequate number and type of pollution monitoring and analysis equipment or got analysed through an approved laboratory under the Environment (Protection) Rules, 1986 in consultation with the State Pollution Control Board.   | Agreed.   |         |
| ( vi )   | Fugitive dust emissions from all the sources should be controlled regularly monitored and data recorded properly. Water spraying arrangements on haul roads, wagon loading, dumps, loading & unloading points should be provided and properly maintained.   | Agreed & being implement to control fugitive dust emission by regular water spraying arrangements.  |         |
| ( vii )  | Adequate measures should be taken for control of noise levels within prescribed standards. Workers engaged in blasting and drilling operations, operations of HEMM, etc. should be provided with ear plugs/muffs.   | Reguler maintenance ( including silencer, cabin) of HEMM being done to keep noise level within the specified limits.  |         |
| ( viii ) | Industrial wastewater (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 19th May 1993 and 31st December 1993 or as amended from time to time. Oil and grease trap should be installed before discharge of effluents from workshop.   | Agreed, Oil & grease trap has been constructed at the service station before discharge of effluent from workshop.   |         |
| ( ix )   | Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and healthy aspects.<br>Occupational health surveillance programme of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.  | Persons engaged in drilling,dozing & loading have been provided with dust masks. VT is being provided as under required VT Rules .<br>Regular periodic checkup of workers is being carried out. |         |

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| ( x )    | Environmental laboratory should be established with adequate number and type of pollution monitoring and analysis equipment in consultation with the State Pollution Control Board.  | We have environmental laboratory with sufficient pollution monitoring & analysis equipment.  |         |
| ( xi )   | A separate environmental management cell with suitable qualified persnnel should be set up under the control of a senior Executive, who will report directly to the Head of the organisation.  | A separate environmental management cell with adequate qualified personnel is already established.   |         |
| ( xii )  | 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 Regional Office, Lucknow of the MOEF and to the Ministry.   | A separate fund is kept for environment protection measures & report is being sent regularly to the concerned authority. Environment expenditure for 2012-2013 and Proposed FY Budget 2013-2014 detail report is submitted vide letter no. NBH/PC/14/1741 on dated 1/06/2013 |         |
| ( xiii ) | The Regional Office of this Ministry located at Lucknow shall monitor compliance of the stipulated conditions. The Project authorities should extend full cooperation to the officer(s) of the Regional Office by furnishing requisite data/information/monitoring reports.  | Agreed   |         |
| ( xiv )  | A copy of the clearance letter will be marked to the concerned Panchayat / local NGO, if any, from whom any suggestions / representation has been received while processing the proposal.  | -----  |         |
| ( xv )   | The project authorities should inform to the Regional Office located at Lucknow regarding date financial closures and final approval of the project by the concerned authorities and the date of start of land development work.   | Agreed   |         |
| ( xvi )  | State Pollution Control Board should display a copy of the clearance letter at the Regional Office, District Industry Centre and Collector's / Tehsildar's Office for 30 days.   | -----  |         |
| ( xvii ) | The project authorities should advertise at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 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 may also be seen at web site of the Ministry of Environment and Forest 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 Lucknow. | Already done & the necessary information already sent to the concerned authority.  |         |

