

Speed Post

No. J-11015/319/2012-IA.II (M)
Government of India
Ministry of Environment and Forests
Impact Assessment Division

Paryavaran Bhavan,
C.G.O. Complex, Lodi Road,
New Delhi-110 003

Dated: 19.12.2013

To,

M/s Wonder Cement Limited

R.K. Nagar, Tehsil Nimbhera,
District- Chittorgarh,
Rajasthan, Pin-312601

Ph.: +91-8890050500, Fax: 01477-222422

Email: sm.joshi@wondercement.com

Subject: Bhatkotari Limestone Mine with enhancement of production capacity from 3.75 million TPA to 9.10 million TPA (ROM) by M/s Wonder Cement Ltd., located near Village (s) Bhatkotari, Lasrawan, Phalwa and Rasulpura, Tehsil- Nimbahera, District-Chittorgarh, Rajasthan (740.930ha)-Environmental Clearance regarding.

This has reference to your letter no. WCL/Env./13-14/1127, dated 18.07.2013 and subsequent letter dated 26.09.2013 on the proposal of enhancement of production capacity from 3.75 million TPA to 9.10 million TPA (ROM) of limestone. The mine lease area is located near Village (s) Bhatkotari, Lasrawan, Phalwa and Rasulpura, Tehsil- Nimbahera, District-Chittorgarh, Rajasthan.

2. The Ministry had prescribed TORs on 18th March, 2013. The Proponent after conducting public hearing on 13.05.2013 submitted EIA/EMP report for seeking environmental clearance. The proposal for environmental clearance was appraised in the 11th Meeting of the Reconstituted Expert Appraisal Committee held during 25th-27th September 2013 wherein the Committee recommended the proposal for environmental clearance.

3. The proposal is for enhancement of production capacity from 3.75 million TPA to 9.10 million TPA (ROM) of limestone in Bhatkotari Limestone Mine. The total mining lease area is 740.930ha, out of this, 31.096ha is Govt. waste land, 41.253ha is grazing land and 668.581ha is private land. No forest land is involved. The Scheme of Mining along with progressive mine closure plan has been approved by Indian Bureau of Mines, Ajmer, vide letter no. 682(23) (755)/10- MCCM (N)-Udai dated 8th July, 2013. Proponent informed that 365.00ha area will be used for excavation, 10.00ha for overburden/dumps, 12.00ha for infrastructure development, 3.00ha for road, 75.00ha for Green belt development and 275.93 ha area will be the undisturbed area. The mineable reserves are 477.20 million tonnes and Life of mine is 52 years.

4. Mining is by fully mechanized opencast method. The mining process involves drilling & blasting, loading and transportation of the excavated material. The proposed working will be by putting 115 mm dia DTH holes by Wagon Drill Machine & blasting by ANFO & Booster charge with raydet detonator. Overall pit slope will be 45°. The blasted material will be loaded by 6.5 m³ excavator in dumper of 55 MT & transported to crushing plant for sizing, situated at 1.0 km away from the mine pit. At the end of the life of mine, out of total mining lease area, excavated area will be 365 ha (45 ha backfilled & reclaimed by plantation and rest 320 ha converted into water reservoir). As per approved scheme of mining, total waste generation will be 41.62 million tonnes at the end of the life of the mine. It was reported by the Proponent that Ground water will not be intersected during scheme period. The total water requirement for the project will be 112 KLD which is sourced from the ground water. The Ground Water with drawl permission has been obtained by the Central Ground Water Authority vide letter dated 20.05.2011. Total additional fresh water requirement for the proposed expansion project will be 20 KLD. Fresh water (Ground water) will be used for drinking purpose. Recycled water from ETP/STP will be used for sprinkling on haulage road for dust suppression.

5. The Latitudes and Longitudes of the mine lease area are 24°39'10.07" N & 24°40'23.97" N and 74°35'16.28" E & 74°37'48.93" E respectively on toposheet no. 45 L/6, 45 L/9, 45 L/10. There is no National Parks, Wildlife Sanctuaries, Biosphere Reserves, Wildlife corridors; Tiger/Elephant Reserves etc. exist within the study area (10 km radius of the mining lease boundary). There are four Reserved Forests & four Protected Forests within the study area. Location Map of 10 km of mining lease boundary has been approved by Chief Wildlife Warden, Jaipur on 06.09.2013. Three Schedule-I species were reported within buffer zone. The species specific Conservation plan has been prepared and approved by the Chief Wildlife Warden, Jaipur vide letter dated 06.09.2013. The Committee discussed the conservation plan and noted the steps stated in the Conservation plan to protect the schedule species. Proponent reported that mine lease does not fall in Aravalli hill range and submitted a certificate from the Department of Mines and Geology, State Govt. of Rajasthan vide letter dated 05.06.2013. Proponent submitted the NOC from Gram Panchayat for Grazing land.

6. The baseline data was generated for the period during December 2012 to February 2013. All the parameters for water and air quality were within permissible limits. The Committee noted that the base line monitoring data were prior to the issuance of TORs. Proponent has reported that they had requested to use the base line data during the presentation in the EAC meeting held in 16th -18th January, 2013 to determine the TORs, however it was not reflected in the Minutes of the meeting. The Committee deliberated the issues and were of the opinion that as the base line data was in accordance with the prescribed TORs and the basic parameters are well within the permissible limits as prescribed by the CPCB, the base line data could be accepted.

7. The Public hearing was held on 13.05.2013 under the chairmanship of Mr. N. K. Kothari, Addl. District Collector of Chittorgarh at Village Rasulpur, Tehsil Nimbahera in District Chittorgarh, Rajasthan. The representative of Regional Office from the Rajasthan State Pollution Control Board was present. Major issues raised during public hearing were related to employment, water availability, adequate compensation for purchase of land, Environmental Protection Measures,

construction of alternate road for villagers connecting from Phalwa to Bhatkotri, Sangaria, Borakheri and Nimbahera. The issues raised during the public hearing were discussed during the meeting.

8. The total cost of the project is Rs. 30 Crores. The Proponent has earmarked Rs. 3.0 Crores towards Environmental Protection Measures and Rs. 15 Lakh per annum towards recurring expenses. Proponent informed that Rs. 150 Lakhs have been earmarked towards CSR activities for next five years of mining operation. It is reported by the Proponent that there is no court case/litigation pending against the project.

9. The Ministry of Environment and Forests has examined the proposal in accordance with the Environmental Impact Assessment Notification, 2006 and further amendments thereto and hereby accords the environmental clearance under the provisions thereof to the above mentioned proposal of **M/s Wonder Cement Limited for enhancement of production capacity from 3.75 million TPA to 9.10 million TPA (ROM) of limestone in Bhatkotari Limestone Mine in the Mine lease area of 740.930ha**, located near Village (s) Bhatkotari, Lasrawan, Phalwa and Rasulpura, Tehsil- Nimbahera, District- Chittorgarh, Rajasthan subject to compliance of the followings terms and conditions and environmental safeguards mentioned below:-

A. Specific conditions

- (i) Sufficient number of Gullies to be provided for better management of water.
- (ii) Regular Monitoring of pH shall be included in the monitoring plan and report shall be submitted to the Ministry of Environment & Forests and its Regional Office located at Lucknow on six monthly basis.
- (iii) Implementation of Action Plan on the issues raised during the Public Hearing held on 13.05.2013. The proponent shall complete all the tasks as per the action plan submitted with the budgetary provisions during the public hearing.
- (iv) Advanced technologies for environmental protection to be used for controlled blasting.
- (v) Implementation of commitment made for Socio economic welfare measures and report shall be submitted to the Ministry of Environment & Forests and its Regional Office located at Lucknow on six monthly basis.
- (vi) Environmental clearance is subject to obtaining clearance under the Wildlife (Protection) Act, 1972 from the competent authority, as may be applicable to this project.
- (vii) No mining activities will be allowed in forest area, if applicable, for which the Forest Clearance is not available.
- (viii) The project proponent shall obtain Consent to Operate from the State Pollution Control Board, Rajasthan and effectively implement all the conditions stipulated therein.

- (ix) The mining operations shall be restricted to above ground water table and it should not intersect groundwater table. In case of working below ground water table, prior approval of the Ministry of Environment and Forests and Central Ground Water Authority shall be obtained, for which a detailed hydro-geological study shall be carried out.
- (x) Dimension of the retaining wall at the toe of over burden dumps and OB benches within the mine to check run-off and siltation shall be based on the rain fall data.
- (xi) Blasting operation shall be carried out only during the daytime. Controlled blasting shall be practiced. The mitigative measures for control of ground vibrations and to arrest fly rocks and boulders should be implemented. Drills shall either be operated with dust extractors or equipped with water injection system.
- (xii) Water sprinkling should be increased at places loading and unloading points & transfer point to reduce fugitive emissions.
- (xiii) The project proponent shall obtain necessary prior permission of the competent authorities for drawl of requisite quantity of surface water and ground water for the project.
- (xiv) 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 covered dumpers and further leading to the plant through covered conveyor belt. The vehicles carrying the mineral shall not be overloaded.
- (xv) Fugitive dust emissions from all the sources shall be controlled regularly. Water spraying arrangement on haul roads, loading and unloading and at transfer points should be provided and properly maintained.
- (xvi) 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. Occupational health and safety measures for workers who are having some ailments like BP, diabetes, or are habitual smokers, should have health checkup once in six months.

B. General conditions

- (i) No change in mining technology and scope of working should be made without prior approval of the Ministry of Environment & Forests.
- (ii) No change in the calendar plan including excavation, quantum of limestone mineral and waste should be made.

- (iii) A Final Mine Closure Plan along with details of Corpus Fund shall be submitted to the Ministry of Environment & Forests 5 years in advance of final mine closure for approval.
- (iv) There shall be planning, developing and implementing facility of rainwater harvesting measures on long term basis in consultation with Regional Director, Central Groundwater Board and implementation of conservation measures to augment ground water resources in the area in consultation with Central Ground Water Board.
- (v) Regular monitoring of ground water table to be carried out at the upstream and depth of water available in the dug well is to be measured. Monitoring to be done by establishing a network of existing wells and constructing new piezometers.
- (vi) The project proponent shall ensure that no natural water course and/or water resources shall be obstructed due to any mining operations.
- (vii) 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 & Forests and its Regional Office located at Lucknow on six monthly basis.
- (viii) 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 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.
- (ix) 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. 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.

- (x) 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.
- (xi) 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 and Forests, its Regional Office, Lucknow, Central Groundwater Authority, Regional Director, Central Ground Water Board, State Pollution Control Board and Central Pollution Control Board.
- (xii) 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 monitoring shall 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 Ministry of Environment and Forests and its Regional Office, Lucknow, Central Ground Water Authority and Regional Director, Central Ground Water Board.
- (xiii) The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered fauna namely leopard, elephant 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. All the safeguard measures brought out in the Wildlife Conservation Pan so prepared specific to the project site shall be effectively implemented. A copy of action plan shall be submitted to the Ministry of Environment and Forests and its Regional Office, Lucknow.
- (xiv) 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.
- (xv) Monitoring of Ambient Air Quality to be carried out based on the Notification, as amended from time to time by the Central Pollution Control Board.
- (xvi) The critical parameters such as SPM, RSPM (Particulate matter with size less than 10 micron i.e., PM₁₀), NO_x 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 www.envfor.nic.in shall also be referred in this regard for its compliance.

- (xvii) 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.
- (xviii) 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 19th May, 1993 and 31st December, 1993 or as amended from time to time. Oil and grease trap should be installed before discharge of workshop effluents.
- (xix) 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.
- (xx) Occupational health surveillance program of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed. 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.
- (xxi) 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.
- (xxii) 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 located at Lucknow.
- (xxiii) The project authorities should inform to the Regional Office located at Lucknow regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.
- (xxiv) 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 the requisite data / information / monitoring reports.
- (xxv) The project proponent shall submit six monthly reports on the status of the implementation of the stipulated environmental safeguards to the Ministry of Environment and Forests, its Regional Office, Lucknow, Central Pollution Control Board and State Pollution Control Board.

(xxvi) 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.

(xxvii) 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.

(xxviii) 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 also at web site of the Ministry of Environment and Forests at <http://envfor.nic.in> and a copy of the same should be forwarded to the Regional Office of this Ministry located Lucknow.

10. The Ministry or any other competent authority may alter/modify the above conditions or stipulate any further condition in the interest of environment protection.

11. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.

12. 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 of Rajasthan and any other Court of Law relating to the subject matter.

13. 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.

(Dr. Saroj)
Director

Copy to:

- 1). The Secretary, Ministry of Mines, Government of India, Shastri Bhawan, New Delhi
- 2). The Department of Mines & Geology, Government of Rajasthan, Secretariat, Jaipur
- 3). The Secretary, Department of Environment, Government of Rajasthan, Secretariat, Jaipur

- 4). The Chief Conservator of Forests, Central Region, Ministry of Environment and Forests, B-1/72, Sector-A, Aliganj, Lucknow-226020.
- 5). The Member Secretary, Central Ground Water Authority, A-2, W3, Curzon Road Barracks, K.G. Marg, New Delhi-110001.
- 6). The Chairman, Rajasthan State Pollution Control Board, 4, Institutional area, Jhalana, Doongri, Jaipur.
- 7). The Controller General, Indian Bureau of Mines, Indira Bhavan, Civil Lines, Nagpur - 440 001
- 8). The District Collector, District Chittorgarh, Rajasthan.
- 9). Guard File
- 10). MoEF website

(Dr. Saroj)
Director