F. No. J-11011/298/2012-IA-II (I)

Paryavaran Bhawan
CGO Complex, Lodhi Road
New Delhi – 110 003

E-mail: tcchand2003@yahoo.co.uk
Tele fax: 011: 2436 3963

Dated: 21st February, 2014

To

The President [Works]
M/s Wonder Cement Ltd.
R.K. Nagar, Tehsil Bimbahera,
District Chittorgarh,
Rajasthan-312601.

E-mail: smjoshi@wondercement.com wondercement@rkmarmore.com
Fax No: 01477-222422

Subject: Expansion of Integrated Cement Project Clinker (2.0 to 6.0MTPA), Cement (3.25 to 8.0 MTPA), CTPP (40 MW to 80 MW), D.G. Set (2.0 MW to 7.0 MW) & WHRB (2x9 MW) of M/s. Wonder Cement Limited at villages Sangaria, Borakheri, Peerkhera and Rasulpura, Tehsil Nimbahera, District Chittorgarh, Rajasthan - Environmental Clearance -reg

Sir,

This is with reference to your letter no. NII dated 28.6.2013 along with copies of EIA/EMP report and subsequent communication dated 22.11.2013 seeking environment clearance under the provisions of EIA Notification, 2006. Terms of Reference (TOR) for the aforesaid project was awarded by MoEF vide letter of even no. dated 18.12.2012 for preparation of EIA-EMP report. All the Cement Plants (≥ 1.0 MTPA) are listed at S.No. 3(b) under Category ‘A’ of the schedule of EIA Notification, 2006 and appraised by the Expert Appraisal Committee (Industry) of MoEF.

2. The Ministry of Environment and Forests has examined the application for the above project. It is noted that M/s. Wonder Cement Limited (WCL) have proposed to expand their cement plant (Clinker from 2.0 to 6.0MTPA, Cement from 3.25 to 8.0 MTPA, CTPP from 40 MW to 80 MW, D.G. Set from 2.0 MW to 7.0 MW and WHRB (2x9 MW) at Villages: Sangaria, Borakheri, Peerkhera and Rasulpura, Tehsil- Nimbahea, District Chittorgarh, Rajasthan. The existing plants obtained Environment Clearance from MoEF vide letter no. J-11011/506/2007-IA.III(I) dated 11.6.2008 & 4.1.2011 and vide letter no. J-11011/437/2011-IA.III(I) dated 19.6.2012. Total plant area is 191.064 ha which is already under possession of WCL. The proposed expansion will be done within the existing plant premises, thus no additional land will be acquired for the proposed expansion project. The longitude of the project site is 74° 37' 43.26"E to 74° 37' 48.56"E and latitude is 24° 39' 12.47"N to 24° 40' 14.8"N respectively. No Forest land is involved. No Defense Installation, Biosphere Reserve, National Park/Wild Life Sanctuary, Ecologically Sensitive Area is located within 10 km radius of the project site. No
court case/litigation is pending against the proposed project. One Reserved Forest falls at a
distance of 8.2 km in NW direction from the plant site. Three Protected Forests are present at
a distance of 7.0 km, 8.0 km & 9.5 km in NW, WSW & NW direction, respectively from the plant
site. The water bodies exist in the study area is Murliya dam (3.5 km in N direction), Nimbanhera
River (7.0 km in ESE direction), Kadmali River (7.5 km in ESE direction), Gambhiri Reservoir (8.0
km in ENE direction), Uncha Talav (8.5 km in SSW direction) and Gambhiri River (9.6 km in ENE
direction). Total cost of the project is Rs. 1288 crores. Rs. 205 crores and Rs. 2.1 crores is
earmarked for the capital cost and recurring cost per annum towards the environmental
pollution control measures. Rs. 65.86 crores is earmarked towards the Enterprise Social
Commitment based on Public Hearing issues over a period of ten years.

3. The details of the products along with their production capacity are given below:

<table>
<thead>
<tr>
<th>Units</th>
<th>Existing Capacity (Line I)</th>
<th>Proposed Expansion Capacity</th>
<th>Total Capacity after Expansion</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Enhancement in Existing Line I</td>
<td>New Line II</td>
</tr>
<tr>
<td>Clinker (MTPA)</td>
<td>2.0</td>
<td>1.0</td>
<td>3.0</td>
</tr>
<tr>
<td>Cement (MTPA)</td>
<td>3.25</td>
<td>0.75</td>
<td>4.0</td>
</tr>
<tr>
<td>Captive Thermal Power Plant (MW)</td>
<td>40.0</td>
<td></td>
<td>40.0</td>
</tr>
<tr>
<td>WHRB (MW)</td>
<td></td>
<td>1 x 9</td>
<td>1 x 9</td>
</tr>
<tr>
<td>D.G. Set (MW)</td>
<td>2.0</td>
<td></td>
<td>5.0</td>
</tr>
</tbody>
</table>

4. The raw materials required are Limestone (9.10 MTPA), Red Ochre (0.67 MTPA), Laterite
(0.32 MTPA), Gypsum (0.55 MTPA), fly ash (1.44 MTPA) and petcoke (3.68 MTPA) are the raw
materials that will be used. The limestone will be sourced from captive limestone mines
located at a distance of 1.5km from the project site and will be transported to the plant site
by closed conveyor. Pet coke will be used in the CPP and cement manufacturing operation.
Pet coke of 9 lakhs MT will be supplied by M/s. Indian Oil Corporation Limited (IOCL) to
M/s.WCL. The ash and sulphur content in the pet coke will be 3.20% and 4.60% respectively.
The calorific value in the pet coke would be 7784 kcal/kg. Gypsum will be sourced from
Nagaur/Bikaner and transported to the plant site by road. Total power requirement after
proposed expansion project will be sourced from existing & proposed Captive Power Plant,
WHRB, AVVNL & D.G. Set (for back-up).

5. It is noted that to control particulate emissions, all major sources of air pollution will be
provided with Bag Houses/Bag filters, ESPs to maintain the PM emission level within permissible
limits. All material transfer points will be provided with bag filters to entrap the emissions at the
source itself.

6. The existing water requirement for the project is 2571 KLD. Additional water requirement
for the proposed expansion project will be 3673 KLD, which will be sourced from Ground
Water, Mine Sump & Gambhiri Reservoir. CGWA Permission for 2470 KLD Ground Water has
already been obtained from CGWA vide letter no. 21-4(212)WR/CGWA/2007-405 dated
20.5.2011. Further, agreement with Water Resource Department, Govt. of Rajasthan has
been made to utilize 31.54 million cubic feet per annum (2446 KLD) from Gambhiri Reservoir.
No industrial waste water will be generated in the Cement Plant. Domestic waste water
generated from Cement Plant/Colony will be treated in the existing STP. The treated water
will be utilized for Greenbelt Development/Horticulture activities and in captive power plant. Rain water harvesting structures has been constructed.

7. No solid waste will be generated in cement manufacturing process. Dust collected from various pollution control equipments is being/will be recycled back to the process. STP Sludge is being/will be utilized as manure for green belt development within the plant premises. Out of the total plant and colony area of 191,064 ha, 71,31 ha (i.e. 37 %) has been proposed to be developed under green belt/plantation. A total of 23,352 trees have already been planted on 23.37 ha area and greenbelt is being developed continuously. Green belt has been developed in and around the plant area.

8. The proposal was considered by the Reconstituted Expert Appraisal Committee (Industry) in its 13th meeting held during 18-20th November 2013 and further reconsidered in its 14th meeting held during 19-20th December 2013. The Committee recommended the proposal for environmental clearance subject to stipulation of specific conditions along with other environmental conditions. Public Hearing/Public Consultation meeting was conducted by the Rajasthan State Pollution Control Board on 13.5.2013.

10. Based on the information submitted by you, presentation made by you and your consultant, M/s. J.M. EnvironNet Pvt. Limited Gurgaon, the Ministry of Environment and Forests hereby accords environmental clearance to the above project under the provisions of EIA Notification dated 14th September 2006 subject to strict compliance of the following Specific and General conditions:

A. SPECIFIC CONDITIONS:

i. Continuous stack monitoring facilities to monitor gaseous emissions from the process stacks shall be provided. After expansion, limit of PM shall be controlled within 50 mg/Nm³ by installing adequate air pollution control system. Electrostatic precipitators to clinker cooler, bag house to raw mill/kiln and bag filters to coal mill and cement mill. Low NOx burners should be provided to control NOx emissions. Regular calibration of the instruments must be ensured.

ii. Possibilities shall be explored for the proper and full utilization of gases generated from the kiln in waste heat recovery boiler (WHRB) and a feasibility report shall be prepared and submitted to the Ministry and its Regional Office at Lucknow within 3 months from the date of issue of the letter.

iii. The National Ambient Air Quality Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 shall be followed.

iv. Secondary fugitive emissions shall be controlled and shall be within the prescribed limits and regularly monitored. Guidelines / Code of Practice issued by the CPCB in this regard should be followed.

v. Arsenic and Mercury shall be monitored in emissions, ambient air and water.

vi. The coal yard shall be lined and covered.

vii. Efforts shall be made to reduce impact of the transport of the raw materials and end products on the surrounding environment including agricultural land. All the raw materials including fly ash should be transported in the closed containers only and shall not be overloaded. The company shall have separate truck parking area. Vehicular emissions should be regularly monitored.
viii. Total fresh water requirement after the proposed expansion of the cement and captive power plant shall not exceed 6244 m³/day which will be sourced from the Ground Water, Mine sump and Ghambiri reservoir. A five year water management plan should be made so as to achieve reduction in ground water withdrawal.

ix. Efforts shall be made to further reduce water consumption by using air cooled condensers. All the treated wastewater shall be recycled and reused in the process and/or for dust suppression and green belt development and other plant related activities etc. No process wastewater shall be discharged outside the factory premises and 'zero' discharge should be adopted.

x. Efforts shall be made to make use of rain water harvested, if needed, capacity of the reservoir should be enhanced to meet the maximum water requirement. Only balance water requirement shall be met from other sources.

xi. Regular monitoring of influent and effluent surface, sub-surface and ground water should be ensured and treated wastewater should meet the norms prescribed by the State Pollution Control Board or described under the Environment (Protection) Act, 1986 whichever are more stringent. Leachate study for the effluent generated and analysis should also be regularly carried out and report submitted to the Ministry’s Regional Office at Lucknow, SPCB and CPCB.

xii. All the bag filter dust, raw mill dust, coal dust, clinker dust and cement dust from pollution control devices should be recycled and reused in the process and used for cement manufacturing. Spent oil and batteries shall be sold to authorized recyclers / reprocessors only.

xiii. All the fly ash shall be utilized as per Fly ash Notification, 1999 subsequently amended in 2003 and 2008. Efforts should be made to use fly ash maximum in making Pozzolona Portland Cement (PPC).

xiv. A detailed study on chemical composition of coal used particularly heavy metal and radio activity contents shall be carried out through a reputed institute and report shall be submitted to Regional Office of the Ministry at Lucknow. Only after ascertaining its radioactive level shall fly ash be supplied for utilization in cement manufacturing.

xv. Efforts shall be made to use low-grade lime, more fly ash and solid waste in the cement manufacturing.

xvi. An effort shall be made to use of high calorific hazardous waste in the cement klin and necessary provision should be made accordingly.

xvii. As proposed, green belt over 33 % of the total project area should be developed within plant premises with at least 10 meter wide green belt on all sides along the periphery of the project area, in downward direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the DFO.

xviii. All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Cement plants should be implemented.

xix. All the commitments made to the public during the Public Hearing / Public Consultation meeting held on 13.5.2013 shall be satisfactorily implemented and a separate budget for implementing the same shall be allocated and information submitted to the Ministry’s Regional Office at Lucknow.
At least 5% of the total cost of the project shall be earmarked towards the Enterprise Social Commitment based on Public Hearing issues and item-wise details along with the time bound action plan shall be prepared and submitted to the Ministry’s Regional Office at Lucknow. Implementation of such program shall be ensured accordingly in a time bound manner.

xx. Risk and Disaster Management Plan along with the mitigation measures should be prepared and a copy submitted to the Ministry’s Regional Office at Lucknow, SPCB and CPCB within 3 months of issue of environment clearance letter.

xxi. To educate the workers, all the work places where dust may cause a hazard shall be clearly indicated as a dust exposure area through the use of display signs which identifies the hazard and the associated health effects.

xxii. 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, 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.

B. GENERAL CONDITIONS:

i. The project authorities must strictly adhere to the stipulations made by the Rajasthan State Pollution Control Board and the State Government.

ii. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests.

iii. At least four ambient air quality monitoring stations should be established in the downward direction as well as where maximum ground level concentration of PM10, PM2.5, SO2 and NOx are anticipated in consultation with the SPCB. Data on ambient air quality and stack emission shall be regularly submitted to this Ministry including its Regional Office at Lucknow and the SPCB/CPCB once in six months.

iv. Industrial wastewater shall 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. The treated wastewater shall be utilized for plantation purpose.

v. The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (daytime) and 70 dBA (nighttime).

vi. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.

vii. The company shall develop rain water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.

viii. The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report. Further, the company must undertake socio-economic development activities in the surrounding villages like community development programmes, educational programmes, drinking water supply and health care etc.
ix. Requisite funds shall be earmarked towards capital cost and recurring cost/annum for environment pollution control measures to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. An implementation schedule for implementing all the conditions stipulated herein shall be submitted to the Regional Office of the Ministry at Lucknow. The funds so provided shall not be diverted for any other purpose.

x. A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad/Municipal Corporation, Urban Local Body 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.

xi. The project proponent shall upload the status of compliance of the stipulated environment 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 MOEF at Lucknow. The respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; PM10, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.

xii. The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional Office of MOEF, the respective Zonal Office of CPCB and the SPCB. The Regional Office of this Ministry at Lucknow / CPCB / SPCB shall monitor the stipulated conditions.

xiii. The environmental statement for each financial year ending 31st 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 also be put on the website of the company along with the status of compliance of environmental conditions and shall also be sent to the respective Regional Office of the MOEF at Lucknow by e-mail.

xiv. The Project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB and may also be seen at Website of the Ministry of Environment and Forests at http://envtor.nic.in. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same should be forwarded to the Regional office at Lucknow.

xv. Project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.

11. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.

12. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.

(Dr. T. Chandini)
Director

Copy to:

1. Secretary, Department of Environment and Forests, Government of Rajasthan, Jaipur, Rajasthan.
2. Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, Delhi-110032.
3. Chairman, Rajasthan State Pollution Control Board, 4, Institutional area, Jhalana, Doongri, Jaipur, Rajasthan.
4. The Additional Principal Chief Conservator of Forests (Central), Ministry of Environment and Forests, Region Office (Central), Kendriya Bhawan, 5th Floor, Sector-H, Aliganj, Lucknow - 226 024, U.P.

(Dr. T. Chandini)
Director