F. No. IA- J-11011/971/2007-IA.II(I)
Government of India
Ministry of Environment, Forest and Climate Change
(Impact Assessment Division)
Indira Paryavaran Bhawan
Jor Bagh Road, Aliganj,
New Delhi - 110003
E-mail: sharath.kr@gov.in
Tel: 011-24695319
Dated: 19th June, 2018

To
The Vice President & Corporate Head-Environment
M/s. UltraTech Cement Ltd.
‘A’ Wing Ahura Centre, 1st Floor,
Mahakali Caves Road,
Andheri East Mumbai-400093
Tel. 91 22 66917400.

Subject: Expansion of Integrated Cement Plant - Clinker (4.0 to 8.0 MTPA) & Cement (4.0 to 8.0 MTPA) along with installation of WHRS (16 MW) at Village: Mohanpura, Tehsil: Kotputli, District: Jaipur (Rajasthan) by M/s. UltraTech Cement Ltd. (Unit: Kotputli Cement Works) – Prescribing Terms of Reference

Sir,

This has reference to your online application vide proposal no. IA/RJ/IND/74775/2018 dated 26th April, 2018 along with the application in prescribed format (Form-I), copy of pre-feasibility report and proposed ToRs for undertaking detailed EIA study as per the EIA Notification, 2006 for the project mentioned above. The proposed project activity is listed at Sl. No. 3(b) cement plants under Category “A” EIA Notification, 2006 and the proposal is appraised at Central level

2.0 M/s. UltraTech Cement Ltd. (Unit: Kotputli Cement Works) has proposed an Expansion of Integrated Cement Plant - Clinker (4.0 to 8.0 MTPA) & Cement (4.0 to 8.0 MTPA) along with installation of WHRS (16 MW) at Village: Mohanpura, Tehsil: Kotputli, District: Jaipur (Rajasthan).


4.0 The plant site is located at Village: Mohanpura, Tehsil: Kotputli, District: Jaipur, State: Rajasthan.
5.0 Total existing plant area is 161.874 ha and the proposed expansion will be done within the existing plant premises. No additional land will be acquired for proposed expansion project. No forest land is involved. Of the total plant area, 54 ha (-33%) land has already been developed under greenbelt / plantation.

6.0 No National Park / Wildlife Sanctuary / Biosphere Reserve etc. exists within 10 km radius of the plant site.

7.0 Total project cost is approx. Rs. 1500 Crores. Employment generation from the proposed expansion project will be 50 persons.

8.0 The targeted production capacity of the Clinker is 8.0 MTPA, Cement 8.0 MTPA & WHRS 16 MW. The limestone for the plant would be procured from captive limestone mines. The limestone transportation will be done via covered conveyor belt. The proposed capacity for different products is given as below:

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Product</th>
<th>Existing Capacity (MTPA)</th>
<th>Additional Capacity (MTPA)</th>
<th>Total capacity after proposed enhancement (MTPA)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Clinker (MTPA)</td>
<td>4.0</td>
<td>4.0</td>
<td>8.0</td>
</tr>
<tr>
<td>2.</td>
<td>Cement (MTPA)</td>
<td>4.0</td>
<td>4.0</td>
<td>8.0</td>
</tr>
<tr>
<td>3.</td>
<td>CPP (MW)</td>
<td>46</td>
<td>Nil</td>
<td>46</td>
</tr>
<tr>
<td>4.</td>
<td>WHRS (MW)*</td>
<td>Nil</td>
<td>16</td>
<td>16</td>
</tr>
</tbody>
</table>

9.0 The existing power requirement is 45 MW. Additional 40 MW power will be required for proposed expansion project. Thus, the total power requirement after proposed expansion will be 85 MW which will be sourced from CPP, WHRS & Grid.

10.0 The raw materials required for the expansion project are Limestone which will be sourced from Captive mines; Laterite / Iron Ore which will be sourced from Narayani, Chittorgarh; Bauxite / Red Ochre / Al. Clay / China Clay which will be procured from Sawa, Chittorgarh; Gypsum from FCI (Khal Mines) & RSMM (Baller Mines), Bikaner; RSMM (Gotmanglod) - Nagore and Fly ash from CPP, JPL & APCPL (NTPC), Jhajjar; RGTPP, Hissar. Fuel required for proposed project includes Petcoke / Coal.

11.0 The existing water requirement for the project is 2640 KLD. Additional 1420 KLD water will be required for proposed expansion project. Thus, the total water requirement after proposed expansion project will be 4060 KLD which is being / will be sourced from Ground Water and Mine Sump Water. No waste water is being / will be discharged from the cement plant. Domestic wastewater generated from the plant and colony is being / will be treated in STP and treated water is being / will be used for greenbelt development / plantation.
12.0 There is no court case or violation under EIA Notification to the project or related activity.

13.0 The proposal was considered by the Expert Appraisal Committee (Industry-I) during its 32nd meeting held during 11th to 13th June, 2018 for prescribing ToRs for undertaking detailed EIA/EMP study. The PP has made detailed presentation on proposal along with EIA consultant.

14.0 After detailed deliberations, the committee recommended the ToRs along with the following specific ToRs for conducting EIA study:

1. Public Hearing to be conducted by the concerned State Pollution Control Board.

2. The issues raised during public hearing and commitment of the project proponent on the same along with time bound action plan to implement the commitment and financial allocation thereto should be clearly provided.

3. The project proponent should carry out social impact assessment of the project and submit the Corporate Environment Responsibility as per the Ministry’s Office Memorandum vide F.No. 22-65/2017-IA.III dated 1st May 2018.

4. Certificate compliance of earlier EC conditions from the Regional officer of the MoEFCC shall be submitted along with EIA/EMP.

5. Detailed Rainwater harvesting scheme for compensating additional ground water extraction

6. Details of alternate fuels to used shall be provided

7. Vibration control measures shall be provided for existing and proposed plant.

8. Explore the possibility of alge cultivation in abandoned quarry pits for utilizing as alternate fuel.

15.0 The undersigned is directed to inform that the Ministry of Environment, Forest and Climate Change (MoEF&CC) after accepting the recommendation of the EAC (Industry-I), hereby decided to accord above-said specific ToRs, in addition to the standard ToRs and Sector Specific ToRs as enclosed at Annexure I read with additional ToRs at Annexure-2 for carrying out detailed EIA/EMP for the above project.

16.0 It is requested that the draft EIA Report may be prepared in accordance with the above mentioned specific ToRs and enclosed generic ToRs and additional ToRs and thereafter further necessary action including conduct of public consultation may be taken for obtaining Environment Clearance in accordance with the procedure prescribed under the EIA Notification, 2006 as amended.

17.0 The ToRs are valid for a period of three years from today i.e. 19.06.2018 and will expire on 18.06.2021. However, this period could be further extended by a maximum period of one year provided an application is
project proponent at least three months before the expiry of the validity period, together with updated Form-I, based on proper justification.

This issues with the approval of competent authority.

(Sharath Kumar Pallerla)
Scientist ‘F’/Director

Copy to:-

i. **The Secretary**, Department of Environment, Government of Rajasthan, Secretariat Jaipur.

ii. **The Additional Principal Chief Conservator of Forests (C)**, Ministry of Environment, Forest and Climate Change, Regional Office (CZ), Kendriya Bhawan, 5th Floor, Sector “H”, Aliganj, Lucknow – 226020.

iii. **The Chairman**, Central Pollution Control Board, Parivesh Bhawan, CBD-Cum-Office Complex, East Arjun Nagar, New Delhi-110 032.

iv. **The Chairman**, Rajasthan State Pollution Control Board, 4, Institutional area, Jhalana, Doongri, Jaipur.

v. **The Member Secretary**, Central Ground Water Authority, A2, W-3 Curzon Road Barracks, K.G. Marg, New Delhi-110001.

vi. **The District Collector, Jaipur** District, Government of Rajasthan.

vii. Guard File/Record File/Monitoring File.

viii. MoEF&CC Website

(Sharath Kumar Pallerla)
Scientist ‘F’/Director
ANNEXURE -I

GENERIC TERMS OF REFERENCE (ToR) IN RESPECT OF INDUSTRY SECTOR

1. Executive Summary
2. Introduction
   i. Details of the EIA Consultant including NABET accreditation
   ii. Information about the project proponent
   iii. Importance and benefits of the project

3. Project Description
   i. Cost of project and time of completion.
   ii. Products with capacities for the proposed project.
   iii. If expansion project, details of existing products with capacities and whether adequate land is available for expansion, reference of earlier EC if any.
   iv. List of raw materials required and their source along with mode of transportation.
   v. Other chemicals and materials required with quantities and storage capacities
   vi. Details of Emission, effluents, hazardous waste generation and their management.
   vii. Requirement of water, power, with source of supply, status of approval, water balance diagram, man-power requirement (regular and contract)
   viii. The project proponent shall furnish the requisite documents from the competent authority in support of drawl of ground water and surface water and supply of electricity.
   ix. Process description along with major equipment and machineries, process flow sheet (Quantative) from raw material to products to be provided
   x. Hazard identification and details of proposed safety systems.
   xi. Expansion/modernization proposals:
      a. Copy of all the Environmental Clearance(s) including Amendments thereto obtained for the project from MoEF&CC/SEIAA shall be attached as an Annexure. A certified copy of the latest Monitoring Report of the Regional Office of the Ministry of Environment, Forest and Climate Change as per circular dated 30th May, 2012 on the status of compliance of conditions stipulated in all the existing environmental clearances including Amendments shall be provided. In addition, status of compliance of Consent to Operate for the ongoing /existing operation of the project from SPCB/PCC shall be attached with the EIA-EMP report.
      b. In case the existing project has not obtained environmental clearance, reasons for not taking EC under the provisions of the EIA Notification 1994 and/or EIA Notification 2006 shall be provided. Copies of Consent to Establish/No Objection Certificate and Consent to Operate (in case of units operating prior to EIA Notification 2006, CTE and CTO of FY 2005-
4. Site Details

i. Location of the project site covering village, Taluka/Tehsil, District and State, Justification for selecting the site, whether other sites were considered.

ii. A toposheet of the study area of radius of 10km and site location on 1:50,000/1:25,000 scale on an A3/A2 sheet. (including all eco-sensitive areas and environmentally sensitive places)

iii. Co-ordinates (lat-long) of all four corners of the site.

iv. Google map-Earth downloaded of the project site.

v. Layout maps indicating existing unit as well as proposed unit indicating storage area, plant area, greenbelt area, utilities etc. If located within an Industrial area/Estate/Complex, layout of Industrial Area indicating location of unit within the Industrial area/Estate.

vi. Photographs of the proposed and existing (if applicable) plant site. If existing, show photographs of plantation/greenbelt, in particular.

vii. Landuse break-up of total land of the project site (identified and acquired), government/private - agricultural, forest, wasteland, water bodies, settlements, etc shall be included. (not required for industrial area)

viii. A list of major industries with name and type within study area (10km radius) shall be incorporated. Land use details of the study area

ix. Geological features and Geo-hydrological status of the study area shall be included.

x. Details of Drainage of the project upto 5km radius of study area. If the site is within 1 km radius of any major river, peak and lean season river discharge as well as flood occurrence frequency based on peak rainfall data of the past 30 years. Details of Flood Level of the project site and maximum Flood Level of the river shall also be provided. (mega green field projects)

xi. Status of acquisition of land. If acquisition is not complete, stage of the acquisition process and expected time of complete possession of the land.

xii. R&R details in respect of land in line with state Government policy

5. **Forest and wildlife related issues (if applicable):**

i. Permission and approval for the use of forest land (forestry clearance), if any, and recommendations of the State Forest Department. (if applicable).
ii. Land use map based on High resolution satellite imagery (GPS) of the proposed site delineating the forestland (in case of projects involving forest land more than 40 ha).

iii. Status of Application submitted for obtaining the stage I forestry clearance along with latest status shall be submitted.

iv. The projects to be located within 10 km of the National Parks, Sanctuaries, Biosphere Reserves, Migratory Corridors of Wild Animals, the project proponent shall submit the map duly authenticated by Chief Wildlife Warden showing these features vis-à-vis the project location and the recommendations or comments of the Chief Wildlife Warden-thereon.

v. Wildlife Conservation Plan duly authenticated by the Chief Wildlife Warden of the State Government for conservation of Schedule I fauna, if any exists in the study area.

vi. Copy of application submitted for clearance under the Wildlife (Protection) Act, 1972, to the Standing Committee of the National Board for Wildlife

6. **Environmental Status**

   i. Determination of atmospheric inversion level at the project site and site-specific micro-meteorological data using temperature, relative humidity, hourly wind speed and direction and rainfall.

   ii. AAQ data (except monsoon) at 8 locations for PM$_{10}$, PM$_{2.5}$, SO$_2$, NO$_x$, CO and other parameters relevant to the project shall be collected. The monitoring stations shall be based CPCB guidelines and take into account the pre-dominant wind direction, population zone and sensitive receptors including reserved forests.

   iii. Raw data of all AAQ measurement for 12 weeks of all stations as per frequency given in the NAQQM Notification of Nov. 2009 along with – min., max., average and 98% values for each of the AAQ parameters from data of all AAQ stations should be provided as an annexure to the EIA Report.

   iv. Surface water quality of nearby River (60m upstream and downstream) and other surface drains at eight locations as per CPCB/MoEF&CC guidelines.

   v. Whether the site falls near to polluted stretch of river identified by the CPCB/MoEF&CC.

   vi. Ground water monitoring at minimum at 8 locations shall be included.

   vii. Noise levels monitoring at 8 locations within the study area.

   viii. Soil Characteristic as per CPCB guidelines.

   ix. Traffic study of the area, type of vehicles, frequency of vehicles for transportation of materials, additional traffic due to proposed project, parking arrangement etc.

   x. Detailed description of flora and fauna (terrestrial and aquatic) existing in the study area shall be given with special reference to rare, endemic and endangered species. If Schedule-I fauna are found within the study area, a Wildlife Conservation Plan shall be prepared and furnished.
xi. Socio-economic status of the study area.

7. Impact Assessment and Environment Management Plan

i. Assessment of ground level concentration of pollutants from the stack emission based on site-specific meteorological features. In case the project is located on a hilly terrain, the AQIP Modelling shall be done using inputs of the specific terrain characteristics for determining the potential impacts of the project on the AAQ. Cumulative impact of all sources of emissions (including transportation) on the AAQ of the area shall be well assessed. Details of the model used and the input data used for modelling shall also be provided. The air quality contours shall be plotted on a location map showing the location of project site, habitation nearby, sensitive receptors, if any.

ii. Water Quality modelling – in case, if the effluent is proposed to be discharged into the local drain, then Water Quality Modelling study should be conducted for the drain water taking into consideration the upstream and downstream quality of water of the drain.

iii. Impact of the transport of the raw materials and end products on the surrounding environment shall be assessed and provided. In this regard, options for transport of raw materials and finished products and wastes (large quantities) by rail or rail-cum road transport or conveyor-cum-rail transport shall be examined.

iv. A note on treatment of wastewater from different plant operations, extent recycled and reused for different purposes shall be included. Complete scheme of effluent treatment. Characteristics of untreated and treated effluent to meet the prescribed standards of discharge under E(P) Rules.

v. Details of stack emission and action plan for control of emissions to meet standards.

vi. Measures for fugitive emission control

vii. Details of hazardous waste generation and their storage, utilization and disposal. Copies of MOU regarding utilization of solid and hazardous waste shall also be included. EMP shall include the concept of waste-minimization, recycle/reuse/recover techniques, Energy conservation, and natural resource conservation.

viii. Proper utilization of fly ash shall be ensured as per Fly Ash Notification, 2009. A detailed plan of action shall be provided.

ix. Action plan for the green belt development plan in 33 % area i.e. land with not less than 1,500 trees per ha. Giving details of species, width of plantation, planning schedule etc. shall be included. The green belt shall be around the project boundary and a scheme for greening of the roads used for the project shall also be incorporated.

x. Action plan for rainwater harvesting measures at plant site shall be submitted to harvest rainwater from the roof tops and storm
water drains to recharge the ground water and also to use for the various activities at the project site to conserve fresh water and reduce the water requirement from other sources.

xi. Total capital cost and recurring cost/annum for environmental pollution control measures shall be included.

xii. Action plan for post-project environmental monitoring shall be submitted.

xiii. Onsite and Offsite Disaster (natural and Man-made) Preparedness and Emergency Management Plan including Risk Assessment and damage control. Disaster management plan should be linked with District Disaster Management Plan.

8. Occupational health

i. Details of existing Occupational & Safety Hazards. What are the exposure levels of above mentioned hazards and whether they are within Permissible Exposure level (PEL). If these are not within PEL, what measures the company has adopted to keep them within PEL so that health of the workers can be preserved,

ii. Details of exposure specific health status evaluation of worker. If the workers' health is being evaluated by pre-designed format, chest x rays, Audiometry, Spirometry, Vision testing (Far & Near vision, colour vision and any other ocular defect) ECG, during pre-placement and periodical examinations give the details of the same. Details regarding last month analysed data of abovementioned parameters as per age, sex, duration of exposure and department wise.


iv. Plan and fund allocation to ensure the occupational health & safety of all contract and casual workers.

9. Corporate Environment Policy

i. Does the company have a well laid down Environment Policy approved by its Board of Directors? If so, it may be detailed in the EIA report.

ii. Does the Environment Policy prescribe for standard operating process / procedures to bring into focus any infringement / deviation / violation of the environmental or forest norms / conditions? If so, it may be detailed in the EIA.

iii. What is the hierarchical system or Administrative order of the company to deal with the environmental issues and for ensuring compliance with the environmental clearance conditions? Details of this system may be given.

iv. Does the company have system of reporting of non-compliances / violations of environmental norms to the Board of Directors of the company and / or shareholders or stakeholders at large? This reporting mechanism shall be detailed in the EIA report.
10. Details regarding infrastructure facilities such as sanitation, fuel, restroom etc. to be provided to the labour force during construction as well as to the casual workers including truck drivers during operation phase.

11. Corporate Environment Responsibility (CER)

i. To address the Public Hearing issues, an amount as specified under Ministry's Office Memorandum vide F.No. 22-65/2017-IA.III dated 1st May 2018 amounting to Rs. ..........crores, shall be earmarked by the project proponent, towards Corporate Environment Responsibility (CER). Distinct CER projects shall be carved out based on the local public hearing issues. Project estimate shall be prepared based on PWD schedule of rates for each distinct item and schedule for time bound action plan shall be prepared. These CER projects as indicated by the project proponent shall be implemented along with the main project. Implementation of such program shall be ensured by constituting a Committee comprising of the project proponent, representatives of village Panchayat & District Administration. Action taken report in this regard shall be submitted to the Ministry's Regional Office. No free distribution/donations and or free camps shall be included in the above CER budget.

12. Any litigation pending against the project and/or any direction/order passed by any Court of Law against the project, if so, details thereof shall also be included. Has the unit received any notice under the Section 5 of Environment (Protection) Act, 1986 or relevant Sections of Air and Water Acts? If so, details thereof and compliance/ATR to the notice(s) and present status of the case.

13. A tabular chart with index for point wise compliance of above ToRs.

14. The ToRs prescribed shall be valid for a period of three years for submission of the EIA-EMP reports along with Public Hearing Proceedings (wherever stipulated).

The following general points shall be noted:

i. All documents shall be properly indexed, page numbered.
ii. Period/date of data collection shall be clearly indicated.
iii. Authenticated English translation of all material in Regional languages shall be provided.
iv. The letter/application for environmental clearance shall quote the MOEF&CC file No. and also attach a copy of the letter.
v. The copy of the letter received from the Ministry shall be also attached as an annexure to the final EIA-EMP Report.
vi. The index of the final EIA-EMP report must indicate the specific chapter and page no. of the EIA-EMP Report.

vii. While preparing the EIA report, the instructions for the proponents and instructions for the consultants issued by MOEF&CC vide O.M. No. J-11013/41/2006-IA.II (I) dated 4th August, 2009, which are available on the website of this Ministry shall also be followed.

viii. The consultants involved in the preparation of EIA-EMP report after accreditation with Quality Council of India (QCI)/National Accreditation Board of Education and Training (NABET) would need to include a certificate in this regard in the EIA-EMP reports prepared by them and data provided by other organization/Laboratories including their status of approvals etc. Name of the Consultant and the Accreditation details shall be posted on the EIA-EMP Report as well as on the cover of the Hard Copy of the Presentation material for EC presentation.

ix. ToRs' prescribed by the Expert Appraisal Committee (Industry) shall be considered for preparation of EIA-EMP report for the project in addition to all the relevant information as per the 'Generic Structure of EIA' given in Appendix III and IIIA in the EIA Notification, 2006. Where the documents provided are in a language other than English, an English translation shall be provided. The draft EIA-EMP report shall be submitted to the State Pollution Control Board of the concerned State for conduct of Public Hearing. The SPCB shall conduct the Public Hearing/public consultation, district-wise, as per the provisions of EIA notification, 2006. The Public Hearing shall be chaired by an Officer not below the rank of Additional District Magistrate. The issues raised in the Public Hearing and during the consultation process and the commitments made by the project proponent on the same shall be included separately in EIA-EMP Report in a separate chapter and summarised in a tabular chart with financial budget (capital and revenue) along with time-schedule of implementation for complying with the commitments made. The final EIA report shall be submitted to the Ministry for obtaining environmental clearance.

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ANNEXURE-2

ADDITIONAL ToRs FOR CEMENT INDUSTRY

i. Limestone and coal linkage documents along with the status of environmental clearance of limestone and coal mines

ii. Quantum of production of coal and limestone from coal & limestone mines and the projects they cater to;

iii. Present land use shall be prepared based on satellite imagery. High-resolution satellite image data having 1m-5m spatial resolution like Quickbird, Ikonos, IRS P-6 pan sharpened etc. for the 10 Km radius area from proposed site. The same shall be used for land used/land-cover mapping of the area.

iv. If the raw materials used have trace elements, an environment management plan shall also be included.

v. Plan for the implementation of the recommendations made for the cement plants in the CREP guidelines must be prepared.

vi. Energy consumption per ton of clinker and cement grinding

vii. Provision of waste heat recovery boiler

viii. Arrangement for co-processing of hazardous waste in cement plant.

ix. Trace metals in waste material especially slag.
Executive Summary

i. Executive summary of the report in about 8-10 pages incorporating the following:

ii. Project name and location (Village, Dist, State, Industrial Estate [if applicable])

iii. Products and capacities. If expansion proposal, then existing products with capacities and reference to earlier EC.

iv. Requirement of land, raw material, water, power, fuel, with source of supply (Quantitative)

v. Process description in brief, specifically indicating the gaseous emission, liquid effluent and solid and hazardous wastes. Materials balance shall be presented.

vi. Measures for mitigating the impact on the environment and mode of discharge or disposal.

vii. Capital cost of the project, estimated time of completion

viii. Site selected for the project – Nature of land – Agricultural (single/double crop), barren, Govt/private land, status of is acquisition, nearby (in 2-3 km.) water body, population, with in 10km other industries, forest, eco-sensitive zones, accessibility, (note – in case of industrial estate this information may not be necessary)

ix. Baseline environmental data – air quality, surface and ground water quality, soil characteristic, flora and fauna, socio-economic condition of the nearby population

x. Identification of hazards in handling, processing and storage of hazardous material and safety system provided to mitigate the risk.

xi. Likely impact of the project on air, water, land, flora-fauna and nearby population

xii. Emergency preparedness plan in case of natural or in plant emergencies

xiii. Issues raised during public hearing (if applicable) and response given

xiv. CSR plan with proposed expenditure.

xv. Occupational Health Measures

xvi. Post project monitoring plan