

F. No. J-11011/165/2013-IA II (I)
Government of India
Ministry of Environment, Forest and Climate Change
(I.A. Division)

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Dated: 11th September, 2015

✓ To

VP & Head – Environment
Ultra Tech Cement Limited
Project Cell, Ahura Center, 1st Floor
A Wing, Mahakali Caves Road, Andheri (E)
Mumbai - 400093

Fax: 022-28244970

Subject: Proposed Expansion of Cement Plant (clinker from 3.30MTPA to 4.5 MTPA and Cement from 4.48MTPA to 6MTPA) of M/s UltraTech Cement Ltd, located at Village Awarpur, Taluka Korpana, District Chandrapur, Maharashtra-Environmental clearance regarding.

Sir,

This has reference to your letter dated 1st December, 2014 along with copies of EIA/EMP report seeking environment clearance under the provisions of the EIA Notification, 2006. The Terms of Reference (ToRs) to the project was awarded by MoEFCC vide F.No. J-11011/165/2013-IA.II(I) dated 10th September, 2013 for preparation of EIA-EMP report.

2.0 The Ministry of Environment, Forest and Climate Change has examined the application for the project. It is noted that M/s Ultra Tech Cement Limited (Unit: Awarpur Cement Works) have proposed to expand the clinker production from 3.3 MTPA to 4.5 MTPA and Cement from 4.48MTPA to 6.0 MTPA at Village - Awarpur, Taluka - Korpana, District - Chandrapur, Maharashtra. The project site lies between 19⁰ 46' 32" N to 19⁰ 47' 53" N latitude and 79⁰ 08' 18.8" E to 79⁰ 09' 20.6" E longitude. The proposed expansion will be carried out within the existing plant area of 307.35 ha. Mine is adjacent to the Plant. No additional land is required for the proposed expansion. No Forest land is involved. No National Park, Wildlife Sanctuary is exists within 10 km radius of the project site. Manikgarh reserve forest is located at a distance of 6.1 km from the project site. The water bodies located within the study area are – Pengana river (7.5km in NW direction), Bop Nallah (3 km in N direction), Amal Nallah (2.5km in W direction), Amalnala Dam (8.5 km in S direction), Chandanvayl Nala (9.0 km in SE direction), Tutra Nala (8 km in SE direction) and Lokhandi Nala (2 km in ESE direction).

No court cases/litigation is pending against the project. Total cost of the project is Rs.248.7 crores.

3.0 The existing and proposed product details are as below:-

Units	Existing Capacity	Proposed expansion capacity	Total capacity after expansion
Clinker (MTPA)	3.3 (EC obtained vide letter no.J-dated 11011/146/2003-IA.II(I) 8.4.2005)	1.2 (Phase I – 0.3 & Phase II – 0.9)	4.5
Cement (MTPA)	4.48 (EC obtained vide letter no.J-dated 11011/404/2009-IA.II(I) 2.8.2010)	1.52	6.0
Captive Power Plant (MW)	2x23 & 1x25 (EC obtained vide letter no.J-dated 13011/12/1997-IA.II(T) 2.5.2012 (amended))	Nil	71(2x23 & 1x25)
Coal Washery (MTPA)	1.2 (EC obtained vide letter no.J-dated 11015/132/2008-IA.II(I) 2.1.2009)	Nil	1.2

4.0 The detail of raw material requirement and its source for the existing and the proposed plant are given below:

S.N	Raw Material	Required Quantity (MTPA)			Source	Distance & Mode of Transportation
		Existing	Proposed expansion	Total after proposed expansion		
1.	Limestone	4.62	1.68	6.3	Captive Mine	1 Km - Covered Conveyor Belt
2.	Shale	0.06	0.015	0.075	Captive Mine	1 Km - Covered Conveyor Belt
3.	Fly ash - Raw Mill	0.05	0.011	0.06	CPP	1 km- By Road

4.	Iron Ore	0.10	0.028	0.128	Purchased/ Near-by sponge iron plant	70-600 km - By Road
5.	Laterite	0.06	0.015	0.075	Purchased/ Nearby Mines	40-60 km - By Road
6.	Gypsum / Road	0.08	0.03	0.11	Purchase CFL, Vizag	1000 km - By Rail
7.	Fly ash - Cement Mill	1.19	0.78	1.97	Purchased, Near By Power Plants	100 km - By Road

5.0 The total water requirement for the existing cement plant (including colony) is 4465 KLD. No additional water is required for the proposed expansion project; hence, the total water requirement after the proposed expansion project will remain same. Water is being / will be sourced from Amal Nallah & River Wardha. Permission for the drawl of water from River Wardha & Amal Nallah has been obtained from the concerned authority.

6.0 The Plant has a CPP, CFBC boiler, AFBC boiler and WHRB. The existing power requirement for the Cement Plant is 54.9 MW and additional power required for the Proposed Expansion Project will be 5.1 MW. The total power requirement after proposed expansion will be around 60 MW.

7.0 The aforesaid proposal was considered in the 29th EAC meeting held on 11th and 12th December 2014. The Committee recommended the project for environmental clearance subject to stipulation of specific conditions along with other environmental conditions. Public hearing for Proposed Expansion of Cement Plant by up-gradation in existing Line - I & II at Village - Awarpur, Taluka - Korpana, District - Chandrapur was conducted on 16th June, 2014 at Project Site.

8.0 All cement plants with production capacity greater than 1 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 MOEFCC.

9.0 The Ministry of Environment, Forest and Climate Change (MoEFCC) on the basis of the aforesaid recommendations of the EAC (I), hereby decided to grant Environmental Clearance to the aforesaid project under the provisions of EIA Notification dated 14th September 2006, subject to strict compliance of the following Specific and General conditions:

A. SPECIFIC CONDITION:

- (i) The project proponent should install 24x7 air monitoring devices to monitor air emission, as provided by CPCB and submit report to Ministry and its Regional Office.

- (ii) The expansion project shall comply with the new MOEFCC Standards vide GSR 612 (E) dated 25.08.2014 with respect to particulate matter, SO₂, NO_x for Cement sector.
- (iii) Continuous stack monitoring facilities to monitor gaseous emissions from the process stacks shall be provided. After expansion, limit of PM shall be controlled to meet prescribed standards 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 NO_x burners shall be provided to control NO_x emissions. Regular calibration of the instruments must be ensured.
- (iv) All the pollution control devices/equipment in raw mill/kiln, kiln feeding system, clinker cooler, coal mill, cement mill, and cement silos, shall be interlocked so that in the event of the pollution control devices/systems not working, the respective unit(s) shut down automatically.
- (v) 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 Nagpur within 3 months from the date of issue of the letter.
- (vi) Efforts shall be made to achieve power consumption of 70 units/tonne for Portland Pozzolona Cement (PPC) and 95 units/tonne for Ordinary Portland Cement (OPC) production and thermal energy consumption of 670 Kcal/Kg of clinker.
- (vii) The National Ambient Air Quality Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 shall be followed.
- (viii) AAQ Modelling shall be carried out based on proposed expansion based on the specific mitigative measures proposed for the expansion project and mitigative measures taken to keep the emissions well below the standards.
- (ix) 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 shall be followed.
- (x) Arsenic and Mercury shall be monitored in emissions, ambient air and water.
- (xi) The coal yard shall be lined.
- (xii) Efforts shall be made to reduce impact of the transport of the raw materials and end products on the surrounding environment including agricultural land. Transportation of Flyash and carbon powder/tyre powder (closed tanker/Bowser), Iron Ore, Laterite, Coal, biomass (trucks covered by tarpaulin),

gypsum (rail/road) only and shall not be overloaded. The company shall have separate truck parking area. Vehicular emissions shall be regularly monitored.

- (xiii) Total fresh water requirement after the proposed expansion of the cement and captive power plant shall not exceed 4465 m³/day which will be sourced from the Ground Water & Surface Water. A five year water management plan shall be made so as to achieve reduction in ground water withdrawal. The total water consumption of the plant and CPP would be 14681m³/d as per EC No. J-13011/12/97-IA.II(I)
- (xiv) 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 shall be adopted.
- (xv) Efforts shall be made to make use of rain water harvested. If needed, capacity of the reservoir shall be enhanced to meet the maximum water requirement. Only balance water requirement shall be met from other sources.
- (xvi) Regular monitoring of influent and effluent surface, sub-surface and ground water shall be ensured and treated wastewater shall 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 shall also be regularly carried out and report submitted to the Ministry's Regional Office at Nagpur, SPCB and CPCB.
- (xvii) All the bag filter dust, raw mill dust, coal dust, clinker dust and cement dust from pollution control devices shall be recycled and reused in the process and used for cement manufacturing. Spent oil and batteries shall be sold to authorized recyclers / reprocessors only.
- (xviii) The proponent shall implement a Plan for 100% utilisation the fly ash from the Power Plant in the Cement Plant. All the fly ash shall be utilized as per Fly ash Notification, 1999 subsequently amended in 2003 and 2008. Efforts shall be made to use fly ash maximum in making Pozzolona Portland Cement (PPC).
- (xix) The proposed cement plant kiln shall be provided with a flexible fuel feeding system to enable use of hazardous wastes such as oil sludge, cut tyres, etc along with Non-Hazardous alternate fuels such as agro-wastes (biomass, rice husk, saw dust, scrap wood), tyre powder, etc.
- (xx) The proponent shall examine and prepare a plan for utilisation of high calorific wastes such as chemical wastes, distillation residues, refuse derived fuels, etc as alternate fuels based on availability and composition. For this, the proponent shall identify suitable industries with such wastes and enter into an MOU for long-term

utilisation of such wastes as per the E(P) A Rules, 1986 and with necessary approvals.

- (xxi) Efforts shall be made to use of high calorific hazardous waste in the cement kiln and necessary provision shall be made accordingly. The PP shall enter into an MOU with units with potential for generating HW. And in accordance with HW Regulations and prior approval of the MPPCB.
- (xxii) As proposed, green belt over 33% of the total project area shall 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.
- (xxiii) All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Cement plants shall be implemented.
- (xxiv) All the commitments made to the public during the Public Hearing / Public Consultation meeting held on 16.06.2014 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 Nagpur.
- (xxv) At least 5 % of the total cost of the project shall be earmarked towards the Enterprise Social Commitment (ESC) based on local needs and action plan with financial and physical breakup/details shall be prepared and submitted to the Ministry's Regional Office at Nagpur. Implementation of such program shall be ensured accordingly in a time bound manner.
- (xxvi) The proponent shall prepare a detailed CSR Plan for every next 5 years for the existing-cum-expansion project, which includes village-wise, sector-wise (Health, Education, Sanitation, Health, Skill Development and infrastructure requirements such as strengthening of village roads, avenue plantation, etc) activities in consultation with the local communities and administration. The CSR Plan will include the amount of 2% retain annual profits as provided for in Clause 135 of the Companies Act, 2013 which provides for 2% of the average net profits of previous 3 years towards CSR activities for life of the project. A separate budget head shall be created and the annual capital and revenue expenditure on various activities of the Plan shall be submitted as part of the Compliance Report to RO, Bhopal. The details of the CSR Plan shall also be uploaded on the company website and shall also be provided in the Annual Report of the company.
- (xxvii) A Risk Assessment Study and Disaster Preparedness and Management Plan along with the mitigation measures shall be prepared with a focus of Disaster Prevention and a copy submitted to the Ministry's Regional Office at Nagpur, SPCB and CPCB within 3 months of issue of environment clearance letter.



(xxviii) 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.

(xxix) 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 Maharashtra 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, Forests and Climate Change (MoEFCC).
- 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, PM_{2.5}, SO₂ and NO_x 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 Nagpur 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 form 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, Forests and Climate Change (MoEFCC) 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 Nagpur. 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 web site 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 MOEFCC at Nagpur. The respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; PM₁₀, SO₂, NO_x (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 MOEFCC, the respective Zonal Office of CPCB and the SPCB. The Regional Office of this Ministry at Nagpur / 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 MOEFCC at Nagpur 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, Forests and Climate Change (MoEFCC) at <http://envfor.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

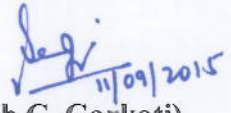
one shall be in the vernacular language of the locality concerned and a copy of the same should be forwarded to the Regional office at Nagpur.

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.

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

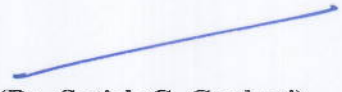
11. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.

12. The above conditions shall 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, Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008 and the Public (Insurance) Liability Act, 1991 along with their amendments and rules.


(Dr. Satish C. Garkoti)
Scientist – 'F'

Copy to:-

1. The Secretary, Department of Environment and Forests, Govt. of Maharashtra.
2. The Additional Principal Chief Conservator of Forests (C) Ministry of Environment Forest And Climate Change Regional Office Regional Office (WCZ), Nagpur .
3. The Chairman, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar New Delhi - 110 032.
4. The Chairman Maharashtra Pollution Control Board, Kalpataru Point, 3rd & 4th Floor, Sion Matunga Scheme, Road No.8, Opp. Cine Planet Cinema, Near Sion Circle, Sion(East),Mumbai- 400 022.
5. Guard File/Monitoring File/Record File.


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