

**MOEF ENVIRONMENTAL CLEARANCE COMPLIANCE REPORT****MOEF EC LETTER REF: F. No. J-11011/65/2010-IA-II (I)**

<b>SI No</b>	<b>Details</b>	<b>Status as on 28.11.2011</b>
1	Expansion of the Cement Plant [Cement from 4.2 MTPA to 8.7 MTPA; Clinker from 4.7 to 9.0 MTPA], Captive Power Plant (from 58.2 to 190 MW) and expansion of Captive Limestone Mine from 6.7 MTPA to 13.4 MTPA at Aditya Nagar, P.O Malkhed Road, District Gulbarga, Karnataka by M/s Ultra Tech Cement Limited (Unit: Rajashree Cement Works) - regarding Environmental Clearance	Expansion work is in progress.
2	The total area for the cement plant and captive power plant is 453.00 ha, 733.82 ha for mine and total area is 1186.82 ha for expansion of clinker production (from 4 MTPA to 4.7 MTPA). No rehabilitation and resettlement is involved in the project. No reserve forest is located within 10 km. Kagina River flows at a distance of 6 km. Mine site is located within 2 km distance of the cement plant. No national park, wild life sanctuary and reserve forest are located within 15 km. radius. No forest land is involved. Project site falls in seismic zone-2. Limestone (13.4 MTPA), laterite/bauxite (0.88 MTPA), coal (1.055 MTPA), chemicals / gypsum (0.20 MTPA) and fly ash (2.05 MTPA) will be used as raw materials. PPC will be manufactured using fly ash from power plant. Imported as well as indigenous coal will be used. Total cost of the project is Rs. 3,000.00 Crores. Rs. 300.00 Crores is earmarked towards environment protection measures. Rs. 15.00 Crores is earmarked towards recurring cost/annum. No litigation/court case is pending against the project.	
4	It is noted that open cast mechanized method of mining will be adopted. The top soil will be removed and used for green belt development. The limestone bench of 10 m height will be drilled and blasted. The overall pit slope will be at 45°. Blasted limestone will be transported by tippers / dumpers to the crushers. The ultimate mine working depth will be 57m below ground level. The ground water table will not be intersected. The first scheme of mining was approved by Regional Controller of Mines on 17.05.2006 and was valid till 31 <sup>st</sup> March, 2011. Modified scheme of mining is under submission.	Mine working as per approved Scheme of mining. The second scheme of mining was approved by Regional Controller of Mines on 29.07.2011 and valid till 31 <sup>st</sup> March, 2016.

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5	High efficiency ESP, bag house, bag filters will be installed to mitigate particulate emissions within 50 mg/Nm <sup>3</sup> . Stack height will be provided as per CPCB guidelines. Fly ash will be stored in silos and closed shed. Dust suppression and extraction system with bag filters and atomized water sprinklers will be provided to prevent fugitive dust emissions at limestone and coal uploading hopper and handling area.	Noted please and will be complied.
6	Water requirement of 14,817m <sup>3</sup> /day will be met from the river Kagina and rain water harvesting from mine sump. Permission to draw water has been obtained. The waste water from the CPP will be recycled back to the process and used for cooling and dust suppression. Domestic effluent will be treated in the sewage treatment plant and treated effluent will be used for green belt and dust suppression in the mines. No effluent will be discharged outside the premises and 'Zero' discharge will be adopted. Excavated mine pits will be used for rain water harvesting. Rain water harvesting structures will be constructed in plant and colony area.	Noted please for compliance. Rain water is being collected in used mines pit. 4 to 5 Lakhs m <sup>3</sup> /annum is collected based on rainfall intensity.
7	No solid waste will be generated from the cement manufacturing process. Dust collected from the air pollution control equipments will be recycled in process. Fly ash will be used for manufacturing PPC cement. Sludge from STP will be used as manure for green belt. Overburden will be used for bund formation and horticulture as per approved mining plan. No mine waste will be generated. Process dust/spillages will be recycled. STP sludge will be used as manure for horticulture purpose. Waste/used/spent oil and used batteries will be sold to authorized recyclers/re-processors.	Noted please for compliance.
8	Out of 625.12 ha of plant and colony area, 100.12 ha has already been developed under green belt. It is proposed to bring 33% of total area under green belt.	Noted please for compliance.
9	The Cement, Captive Power Plant and Limestone mines are listed at S.N. 3(b) under Category 'A' and appraised by the Expert Appraisal Committee in the Ministry.	Noted please.
10	The proposal was considered by the Expert	Noted please.

**MOEF ENVIRONMENTAL CLEARANCE COMPLIANCE REPORT****MOEF EC LETTER REF: F. No. J-11011/65/2010-IA-II (I)**

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	Appraisal Committee-1 (Industry) in its 21 <sup>st</sup> meeting held during 25 <sup>th</sup> & 26 <sup>th</sup> March, 2011. The Committee recommended the proposal for environmental clearance subject to stipulation of specific conditions along with other environmental conditions. Public hearing for the project was held on 23.02.2011.	
11	Based on the information submitted by you, presentation made by you and consultant, M/s J.M. EnviroNet Pvt. Ltd., Gurgaon, the Ministry of Environment and Forests hereby accords environmental clearance to the above project under the provisions of EIA Notification dated 14 <sup>th</sup> September 2006 subject to strict compliance of the following Specific and General conditions:	Noted please.
A	SPECIFIC CONDITIONS:	
i)	The gaseous and particulate matter emissions from various units shall conform to the standards prescribed by the Karnataka Pollution Control Board. At no time, particulate emissions from the cement plant including kiln, coal mill, cement mill, cooler and captive power plant (CPP) shall not exceed 50 mg/Nm <sup>3</sup> . The company shall control particulate emissions below 100 mg/Nm <sup>3</sup> in the existing three lines in a time bound manner for which action plan shall be submitted to Ministry's Regional Office at Bangalore.	Noted please. Action plan has been already submitted to statutory authorities.
ii)	Continuous on-line monitors for particulate emissions shall be installed. Interlocking facility shall be provided in the pollution control equipment so that in the event of the pollution control equipment not working, the respective unit (s) is shut down automatically.	Noted please. Continuous on-line monitors for particulate emissions shall be installed. Interlocking facility shall be provided in the pollution control equipment.
iii)	Data on ambient air quality (PM <sub>10</sub> , SO <sub>2</sub> , NOx) shall be regularly submitted to the Ministry including its Regional office located at Bangalore and the State Pollution Control Board / Central Pollution Control Board once in six months. Further, quality of discharged water shall also be monitored [(TDS, DO, pH) and total Suspended solids (TSS)]. The	Noted please.

**MOEF ENVIRONMENTAL CLEARANCE COMPLIANCE REPORT****MOEF EC LETTER REF: F. No. J-11011/65/2010-IA-II (I)**

<b>Sl No</b>	<b>Details</b>	<b>Status as on 28.11.2011</b>
	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	
iv)	The Company shall install low NOx burner with Kiln/calcliner for control of NOx emissions.	Noted please.
v)	Secondary fugitive emissions shall be controlled within the prescribed limits and regularly monitored. Guidelines / Code of Practice issued by the CPCB in this regard shall be followed.	Noted please.
vi)	The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16 <sup>th</sup> November, 2009 shall be followed.	Noted please.
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 shall be transported in the closed containers only and shall not be overloaded. Vehicular emissions should be regularly monitored.	Noted please.
viii)	Fly ash shall be utilized as per the provisions of Fly Ash Notification, 1999, subsequently amended in 2009. Fly ash shall be stored in ash silo and 100% used in the cement manufacturing.	Noted please.
ix)	The company shall make the efforts to utilize the high calorific hazardous waste in the cement kiln and necessary provisions shall be made accordingly. The company shall keep the record of the waste utilized and shall submit the details to ministry's Regional Office at Bangalore, CPCB and SPCB.	Noted please.
x)	Rainwater harvesting measures shall be adopted for the augmentation of ground water at cement plant, colony including check dams at mine site. The company must also collect rain water in the mined out pits of captive lime stone mine and use the same water for the various activities of the project to conserve fresh water and reduce the water requirement from the ground water. An action plan shall be submitted to Ministry's Regional Office at Bangalore within three months from date of	Noted please.

**MOEF ENVIRONMENTAL CLEARANCE COMPLIANCE REPORT****MOEF EC LETTER REF: F. No. J-11011/65/2010-IA-II (I)**

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	issue of this letter. Efforts should 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)	Total requirement shall not exceed 14,817m <sup>3</sup> /day. The water stored in the artificial reservoir made in the mine pit shall be used to conserve water. No effluent shall be discharged from the mine to any water body or nearby river.	Noted please.
xii)	Top soil, if any, shall be stacked with proper slope at earmarked site(s) only with adequate measures and shall be used for reclamation and rehabilitation of mined out areas.	Noted please.
xiii)	The project proponent shall ensure that no natural water course shall be obstructed due to any mining and plant operations. The company shall make the plan for protection of the natural water course passing through the plant and mine area premises and submit to the ministry's Regional Office at Bangalore.	Noted please.
xiv)	The inter burden and other waste generated shall be stacked at earmarked dump site(s) only and shall not be kept active for long period. The total height of the dumps shall not exceed 30 m in three terraces of 10 m each and the over all slope of the dump shall be maintained to 28°. The inter burden dumps shall be scientifically vegetated with suitable native species to prevent erosion and surface run off. Monitoring and management of rehabilitated areas shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Ministry of Environment & Forests and its Regional Office, Bangalore on six monthly basis.	Noted please. Existing mines.
xv)	The void left unfilled shall be converted into water body. The higher benches of excavated void/mining pit shall be terraced and plantation to be done to stabilize the slopes. The slope of higher benches shall be made gentler for easy accessibility by local people to use the water body. Peripheral fencing shall be	Noted please.

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<b>Sl No</b>	<b>Details</b>	<b>Status as on 28.11.2011</b>
	carried out along the excavated area.	
xvi)	Catch drains and siltation ponds of appropriate size shall be constructed for the working pit, inter burden and mineral dumps to arrest flow of silt and sediment. The water so collected shall be utilized for watering the mine area, roads, green belt development etc. The drains shall be regularly desilted, particularly after monsoon, and maintained properly.	Noted please. Existing mines.
xvii)	Garland drain of appropriate size, gradient and length shall be constructed for both mine pit and inter burden dumps and sump capacity shall 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 shall 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.	Noted please. Existing mines.
Xviii)	Dimension of the retaining wall at the toe of inter burden dumps and inter burden benches within the mine to check run-off and siltation shall be based on the rain fall data.	Noted please. Existing mines.
xix)	Regular monitoring of ground water level and quality shall be carried out by establishing a network of existing wells and constructing new piezometers at	Noted please. 2 Nos of piezometers are installed at Mines site.
xx)	Wet drilling sequential and controlled blasting method and provision for the control air emissions during blasting using dust collectors etc. shall be used. The mitigative measures for control of ground vibrations and to arrest fly rocks and boulders shall be implemented.	Noted please. Existing mines.
xxi)	Bench height, width and slope for individual bench shall be properly assessed and implemented. Adequate measures should be adopted to stabilize the slope before	Noted please. Existing mines.

**MOEF ENVIRONMENTAL CLEARANCE COMPLIANCE REPORT****MOEF EC LETTER REF: F. No. J-11011/65/2010-IA-II (I)**

<b>Sl No</b>	<b>Details</b>	<b>Status as on 28.11.2011</b>
	abandonment. The fencing around the reservoir should be provided to prevent accidents.	
xxii)	Action plan for the mining, management of over burden (removal, storage, disposal etc.), reclamation of the mined out area and mine closure should be submitted to the Ministry and its Regional Office at Bangalore.	Noted please. Existing mines.
xxiii)	As proposed, green belt shall be developed in 33% of the plant and mine area as per the CPCB guidelines in consultation with DFO.	Noted please.
Xxiv)	All the recommendations of the Corporate Responsibility or Environmental Protection (CREP) for the cement plants shall be strictly followed.	Noted please.
xxv)	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.	Noted please. Existing mines. Vehicles emissions are monitored and kept under control.
xxvi)	Risk and Disaster Management Plan alongwith the mitigation measures should be prepared and a copy submitted to the Ministry's Regional Office at Bangalore, KPCB and CPCB within three months of issue of environment clearance letter.	Risk and Disaster Management Plan alongwith the mitigation measures is prepared and submitted to the Ministry's Regional Office at Bangalore, KSPCB and CPCB on 26.07.2011.
xxvii)	Final Mine Closure Plan along with details of Corpus Fund shall be submitted to the Ministry of Environment & Forests five years in advance of final mine closure, for approval.	Noted please. Present Scheme of mining is valid upto 31 <sup>st</sup> Mar -2016
xxviii)	The company shall comply with the commitments made during public hearing held on 23 <sup>rd</sup> February, 2011 and a separate budget for implementing the same shall be allocated and information submitted to the Ministry's	Noted please. A separate budget for implementing the same is submitted to the Statutory authorities.

**MOEF ENVIRONMENTAL CLEARANCE COMPLIANCE REPORT****MOEF EC LETTER REF: F. No. J-11011/65/2010-IA-II (I)**

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	Regional Office at Bangalore.	
xxix)	At least 5 % of the total cost of the project should be earmarked towards the corporate social responsibility and item-wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office at Bangalore. Implementation of such program should be ensured accordingly in a time bound manner.	Noted please. A separate budget for implementing the same is submitted to the Statutory authorities.
xxx)	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	Separate provision is made for the housing of construction labour within the site with all necessary infrastructure and facilities.
	<b>B. GENERAL CONDITIONS:</b>	
i)	The project authority shall adhere to the stipulations made by Karnataka State Pollution Control Board (KSPCB) and State Government.	Noted please.
ii)	No further expansion or modification of the plant shall be carried out without prior approval of this Ministry.	Noted please.
iii)	At least four ambient air quality monitoring stations shall be established in the down wind direction as well as where maximum ground level concentration of PM10, SO <sub>2</sub> and NO <sub>x</sub> are anticipated in consultation with the SPCB. Data on ambient air quality and stack emissions shall be regularly submitted to this Ministry including its Regional Office and SPCB / CPCB once in six months.	Noted please and complied.
iv)	Industrial wastewater shall be properly collected and treated so as to conform to the standards prescribed under GSR 422 (E) dated 19 <sup>th</sup> May, 1993 and 31 <sup>st</sup> December, 1993 or as	Noted please and complied.

**MOEF ENVIRONMENTAL CLEARANCE COMPLIANCE REPORT****MOEF EC LETTER REF: F. No. J-11011/65/2010-IA-II (I)**

<b>Sl No</b>	<b>Details</b>	<b>Status as on 28.11.2011</b>
	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 shall conform to the standards prescribed under Environmental (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	Noted please.
vi)	Proper housekeeping and adequate occupational health programmes shall be taken up. Occupational Health Surveillance programme shall be done on a regular basis and records maintained properly for at least 30-40 years. The programme shall include lung function and sputum analysis tests once in six months. Sufficient preventive measures shall be adopted to avoid direct exposure to dust etc.	Noted please.
vii)	The company shall undertake eco-development measures including community welfare measures in the project area.	Noted please.
viii)	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/ EMP.	Noted please.
ix)	A separate environmental management cell with full fledged laboratory facilities to carry out various management and monitoring functions shall be set up under the control of Senior Executive.	Noted please. Separate Env't. Management cell is existing.
x)	Adequate fund shall be allocated to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State	Noted please. A separate budget for implementing the same is submitted to

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	Government. Time bound implementation schedule for implementing all the conditions stipulated herein shall be submitted. The funds so provided shall not be diverted for any other purpose.	the Statutory authorities on 30.05.2011.
xi)	The Regional Office of this Ministry / CPCB / KSPCB shall monitor the stipulated conditions. The project authorities shall extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information / monitoring reports. A six monthly compliance report and the monitored data alongwith statistical interpretation shall be submitted to them regularly.	Noted please.
xii)	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both on hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the KSPCB.	Noted please and complied.
xiii)	The 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.	Noted please and complied.
xiv)	No change in mining technology and scope of working shall be made without prior approval of the Ministry of Environment & Forests. No change in the calendar plan including excavation, quantum of limestone and waste shall be made.	Noted please.
xv)	Measures shall be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM etc. shall be provided with ear plugs/ muffs.	Noted please.

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xvi)	Industrial waste water (workshop and waste water from the mine) 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. Oil and grease trap shall be installed before discharge of workshop effluents.	Noted please.
xvii)	Personnel working in dusty areas shall wear protective respiratory devices and they shall also be provided with adequate training and information on safety and health aspects. Occupational health surveillance program of the workers shall be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.	Adequate PPE is being provided and persons are trained.
xviii)	The project authorities shall inform to the Regional Office located regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.	Noted please and complied.
xix)	A copy of clearance letter shall be marked to concerned Panchayat / local NGO, if any, from whom suggestion/representation, if any, was received while processing the proposal.	Noted please and complied.
xx)	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 put up on the website of the Company by the proponent.	Noted please and complied.
xxi)	The project authorities shall 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	Noted please and complied. Advertised in Local newspaper English daily Deccan Herald and Kannada daily Samyutha Karnataka on 05.05.2011. Letter to

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	project has been accorded environmental clearance and a copy of the clearance letter is available with the Karnataka 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 shall be forwarded to the Regional Office of this Ministry.	on 05.05.2011. Letter to MoEf Bangalore on 09.05.2011.
xxii)	The environmental statement for each financial year ending 31 <sup>st</sup> 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 alongwith the status of compliance of EC conditions and shall also be sent to the respective regional Office of the MoEF by e-mail.	Noted please and complied.
12.	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Noted please.
13.	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	Noted please.
14.	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.	Noted please.