

F. No. J-11011/403/2006-IA-II (I)
Government of India
Ministry of Environment & Forests
(IA Division)

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

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Dated 7th February, 2007

To,

Shri A. Sekar
Sr. General Manager
M/s Madras Cement Ltd.
Kumarasamy Raja Nagar
Jaggayapet, Krishna – 521457
Andhra Pradesh

Fax No. : 08654- 222532/044-28478676

E-mail : meljpm@madrascements.co.in / pmr@madrascements.co.in

Subject : Expansion of Cement Plant (1.60 MTPA to 2.60 MTPA) with Coal based Captive Power Plant (2x18 MW) at Kummsasamyraja Nagar, Jaggaiapet, Krishna, A.P. by M/s Madras Cement Ltd. - Environmental clearance reg.

Sir,

This has reference to your letter no. LAB/7068/2006 dated 11th November, 2006 along with project documents including Application form, Questionnaire and EIA/EMP seeking environmental clearance and subsequent clarifications furnished vide communications dated 12th December, 2006 and 14th December, 2006 regarding the above mentioned project.

2.0 The Ministry of Environment and Forests has examined your application. It is noted that the proposal is for environmental clearance for the expansion of cement plant at Kumarasamayaraaja Nagar, Jaggaiapet, Krishna, A. P. Total land for the existing cement plant is 248 ha and expansion will be carried out in 9.5 ha on the existing land. No additional land will be required. Details of existing and expansion project are as follows:

Product	Existing	Proposed	Total
Cement Clinker Kiln (TPD)	3250	4000	7250
Power Generation (MW)	10 (DG set stand by after commissioning of thermal power plant)	2 x 18 (Thermal)	36
Cement capacity (MTPA) (OPC, PPC & PSC)	16,00,0000	10,00,0000	26,00,0000

2.0 Modern dry process technology will be adopted for the expansion project. Dust extraction / suppression system will be provided to control the fugitive emissions. ESP to AFBC boilers, CPP and coolers and bag filters to kiln/raw mill and coal mill will be provided to control gaseous emissions less than 50 mg/Nm³. The emissions from CPP will be less than 100 mg/Nm³. Total ground water requirement for the expansion project will be 5,519.60 m³/d. No process wastewater will be generated due to use of treated effluent for ash conditioning, dust suppression, green belt development etc. 'Zero' discharge will be adopted. Dust from bag filters and entire ash generated from the power plant will be pneumatically conveyed to the cement plant and used for manufacturing of PPC.

3.0 Public hearing meeting was held on 28th September, 2006. 'Consent for Establishment' has been accorded by the APPCB vide letter no. 253/PCB/CFE/HO/RO-VJA/2006 dated 7th September, 2006. Total cost of the project is Rs. 434.00 Crores.

5.0. 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 to the following specific and general conditions:

A. Specific Conditions :

- i. The gaseous and particulate matter emissions from various units shall conform to the standards prescribed by the A.P. Pollution Control Board. At no time, the particulate emissions from the cement plant shall exceed 50 mg/Nm³. The emissions from CPP shall be less than 100 mg/Nm³. Continuous on-line monitors for particulate emissions shall be carried out as per the recommendations of the CREP guidelines and on-line data shall be submitted to the APPCB and CPCB regularly. 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.
- ii. Ambient air quality including ambient noise levels shall not exceed the standards stipulated under EPA or by the State authorities. Monitoring of ambient air quality and stack emissions shall be carried out regularly in consultation with APPCB and report submitted to the APPCB quarterly and to the Ministry's Regional Office at Bangalore half-yearly. One ambient air quality monitoring station shall be installed in downwind direction.
- iii. The company shall install adequate dust collection and extraction system to control fugitive dust emissions at various transfer points, raw mill handling (unloading, conveying, transporting, stacking), vehicular movement, bagging and packing areas etc. Bag filters will be provided in the kiln/raw mill and coal mill and ESP to AFBC boilers and coolers to control air emissions less than 50 mg/Nm³. The dust collected from the pollution control equipments shall be recycled back into the process. Storage of raw material shall be in closed roof sheds. Water spray system shall be provided all around the coal stockpiles and dust suppression system around the coal conveyor system.
- iv. Asphaltting/concreting of roads and water spray all around the coal stockpiles shall be carried out to control fugitive emissions.

- v. Total water requirement from the ground water source shall not exceed 5,519.60 m³/d and prior permission for the drawl of ground water from the SGWB / CGWA shall be obtained. No process wastewater shall be discharged due to its use either in the process or evaporation. All the treated wastewater shall be recycled and reused for ash conditioning, dust suppression, green belt development and other plant related activities etc. No effluent shall be discharged outside the factory premises and 'zero' discharge shall be adopted. Domestic effluent shall be used after treatment in Sewage Treatment Plant (STP) for green belt development within the plant and colony area.
- vi. The company must harvest the rainwater from the roof tops and storm water drains to recharge the ground water. 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.
- vii. As proposed in EIA/EMP, green belt shall be developed in 172.7 ha (60%) out of total 248 ha. land in consultation with the local DFO as per the CPCB guidelines.
- viii. All the cement dust collected from pollution control devices shall be recycled and reutilized in the process. The entire ash generated from the power plant will be pneumatically conveyed to the cement plant and used for manufacturing of PPC. Hazardous waste viz. Spent oil from gear boxes and automatic batteries etc. shall be properly stored in a designated area and sold to authorized recyclers/ reprocessors.
- ix. The company shall undertake eco-development measures including community welfare measures in the project area.
- x. Present requirement of limestone shall be sourced from the Ravirala Forest Mine only for which environmental clearance has been accorded by the Ministry on 16th October, 2002. The limestone required in future shall be sourced from the captive limestone mine for which prior environmental clearance has been accorded by the Ministry.
- xi. All the recommendations of the CREP guidelines shall be strictly followed.

B. General Conditions :

- i. The project authority must adhere to the stipulations made by A. P. State Pollution Control Board (APPCB) and State Government.
- ii. No further expansion or modification of the plant shall be carried out without prior approval of this Ministry.
- iii. At least four ambient air quality monitoring stations shall be established in the downward direction as well as where maximum ground level concentration of SPM, SO₂ and NO_x are anticipated in consultation with the APPCB. Data on ambient air quality and stack emissions shall be regularly submitted to this Ministry including its Regional Office at Bangalore and APPCB 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 shall conform to the standards prescribed under Environmental (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).
- vi. Proper housekeeping and adequate occupational health programmes must be taken up. Occupational Health Surveillance programme shall be done on a regular basis and records maintained. The programme must include lung function and sputum analysis tests once in six months.
- vii. The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP.
- viii. 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.
- ix. As mentioned in the EIA/EMP, Rs. 16.35 Crores and Rs. 10.00 Crores kept towards the total cost and recurring cost/annum for implementing environmental pollution control measures shall be judiciously used to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government alongwith the implementation schedule for all the conditions stipulated herein. The funds so provided should not be diverted for any other purposes.
- x. The Regional Office of this Ministry at Bangalore / Central Pollution Control Board / A. P. Pollution Control Board shall monitor the stipulated conditions. A six monthly compliance report and the monitored data along with statistical interpretation should be submitted to them regularly.
- xi. The Project Authorities should 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.
- xii. 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 A. P. Pollution Control Board / Committee and may also be seen at Website of the Ministry of Environment and Forests 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.

6.0 The Ministry or any competent authority may stipulate any further condition(s) on receiving reports from the project authorities. The above conditions will be monitored by the Regional Office of this Ministry located at Bangalore.

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

8.0 Any other conditions or alteration in the above conditions shall have to be implemented by the project authorities in a time bound manner.

9.0 The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention and Control of Pollution) Act, 1974 the Air (Prevention and Control of Pollution) Act, 1981 the Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 alongwith their amendments and rules.

(Dr. P. B. Rastogi)
Additional Director

Copy to :

1. The Secretary, State Department of Environment and Forests, Govt. of Andhra Pradesh, Mantralaya, Hyderabad, A.P.
2. The Chairman, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi – 110032.
3. The Chairman, Andhra Pradesh State Pollution Control Board, 2nd Floor, HUDA Complex, Maitrivaram, S.R. Nagar, Hyderabad – 500 038, A. P.
4. The Chief Conservator of Forests (Central), Ministry of Environment & Forest, Regional Office (SZ), Kendriya Sadan, IVth Floor, E&F Wing, 17th Main Road, Koramangla, Bangalore - 560 034, Karnataka.
5. JS (CCI-I), Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi. - 110003.
6. Monitoring Cell, Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi-110003.
7. Guard file.
8. Record file
9. Monitoring file.

(Dr. P. B. Rastogi)
Additional Director