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भारत सरकार
पर्यावरण एवं वन मंत्रालय
GOVERNMENT OF INDIA
MINISTRY OF ENVIRONMENT & FORESTS

Telefax: 24360488
e-mail- sanchita@~~ment~~.nic.in
sansom_2859@yahoo.co.in

File No.- J-11011/76/2007-IA-II (I)(T)

Date: 5th April 2007

To,

Shri Y.P. Sharma
Senior Manager (Business Development)
Eswar Cements Private Limited
H. No. 3-5-874/4, II Floor
Hyderguda
Hyderabad - 500029
Andhra Pradesh

Subject: Environmental Clearance to 4.06 MTPA Cement Manufacturing Plant along with 40 MW Coal-Based Captive Power Plant at Nawabpet, Mylavaram Mandal, Kadapa, Andhra Pradesh by M/s Eswar Cements Pvt. Ltd.

Sir,

This has reference to your letter no. ND/Eswar/EIA/ dated 19th December 2006 seeking environmental clearance for the above-mentioned project.

2. The Ministry of Environment and Forests has examined the proposal and clarifications submitted by you vide your letter dated 6th February 2007. It is noted that the proposal is to set up a new 4.06 Million TPA (MMTPA) (2.6 MTP clinker) Cement plant and a 40 MW Captive Power Plant in Kadapa, Andhra Pradesh. 100% PPC will be produced by you. The Area required for the project is 120 ha. River Pennar is at 12 km from the project site. No ecologically sensitive area exists in 7 km periphery of the project site. It is reported that the project does not involve any R & R. The cement plant will have Dry process and Precalcination Technology. The raw material requirements for the proposed plant will be 3.8 MTA of Limestone, 580 TPD of Bauxite, 90 TPD of Iron ore and 600 TPD of Gypsum, 3636 TPD of Fly ash, 1300 TPD of Coal for the clinker and 400 TPD of Coal for the CPP which will be met from captive mines, NTPC plant and Singareni coal fields. The power demand for the proposed plant has been estimated at about 45 MW which will be met by CPP and partly through the State grid. DG sets of 12 MW shall be installed for emergency use. The CPP will be based on AFBC Boiler and will have Air Cooled Condenser system for cooling of water for CPP. Water requirement of 2,500 KLD, including 648 m³/d, would be met from the Mylavaram Reservoir/ Borewell. Water from Borewell will be used only if required.



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पर्यावरण भवन, सी.जी.ओ. कॉम्प्लेक्स, लोदी रोड, नई दिल्ली - 110 003
PARYAVARAN BHAWAN, C.G.O. COMPLEX, LODHI ROAD, NEW DELHI - 110 003

About 372 m³/d of effluent (waste water) will be generated which will be used, after treatment in ETP, for green belt development in the plant and colony, spraying on clinker, for wetting in coal yard etc. 22 m³/day of effluent will be disposed off in septic tanks. The colony will generate domestic wastewater at the rate of 188 m³/day, which will be treated in Sewage Treatment Plant (STP) and then reused for green belt development. The solid waste generated from the plant will be transported through tractor/lorry and dumped in the low-lying areas. The area thus filled up / reclaimed shall be used for tree plantation. Solid waste generated from colony and sewage treatment plant will be disposed after segregating the waste into biodegradable and non-biodegradable streams. Vermi-composting technique shall be adopted for disposing the biodegradable waste and non-degradable waste will be land filled at identified areas. The total ash produced from CPP would be about 180 TPD which shall be transported pneumatically to the cement plant flyash silo and shall be used in manufacturing of PPC. Waste oil and grease and scrapped automobile batteries will be sold off to the authorized vendors. The waste oil is also proposed to be disposed off by burning it in cement kiln under controlled conditions after seeking proper permissions from the regulatory bodies. It is proposed to build about 200 houses in the first phase of the township and it is estimated that water requirement for the colony would be about 265 m³ /d and waste water generation will be around 188 m³/d. The township will have an STP of 500 m³/d treatment capacity. The township will be expanded in phases. Public hearing of the project was held on 26.11.2006. Cost of the project is reported as Rs.1010.43 Crores out of which Rs. 31.05 Crores will be earmarked for environmental protection measures as capital cost and Rs. 4.28 Crores as recurring cost.

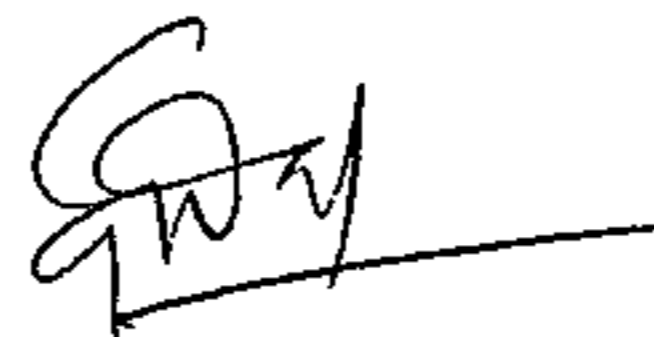
3. The Project was received under the EIA Notification, 2006 however, was considered as per the EIA Notification, 1994 in accordance with sub-Para (i) of Para 2.1.1. of the Interim Operational Guidelines dated 13th October 2006 issued by the Ministry of Environment and Forests under Para 12 of the EIA Notification 2006.

4. Based on the information submitted by you, the Ministry of Environment and Forests hereby accords environmental clearance to above project under the provisions of EIA Notification, 2006 subject to the compliance of the following Specific and General conditions:

A. SPECIFIC CONDITIONS:

- i. The gaseous emissions from various units shall conform to the standards prescribed by the concerned State Pollution Control Board (SPCB) or by the Ministry, whichever is stringent. Bag filter system shall be provided for flue gas instead of conditioning towers. SPM emission from all the stacks, including CPP will be <50 mg/m³. The CPP will be based on AFBC technology and will have Air Cooled Condenser System for cooling of water for CPP.

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- ii. The unit shall use the high calorific hazardous waste in their kiln. The relevant designed factors shall be incorporated at the inception stage itself.
- iii. The height of the stack for kiln and raw mill will be 90 m and for CPP, it will be 110 m. Bag house will be installed at all other emission points except the cooler exhaust. Bag filters will be provided at all material handling and transfer locations. Low NO_x burners shall be installed to control NO_x emissions and lime injection shall be carried out to reduce SO_2 emissions, if required.
- iv. Continuous On-line monitors for particulate emissions, SO_2 and NO_x in Raw Mill /Kiln, clinker cooler, coal mill, cement mill etc. shall be provided and shall make necessary arrangements for submission of On-line real time emission data to CPCB website. Interlocking facility shall be provided between pollution control equipment and the process operation so that in the event of the pollution control equipment not working, the respective unit (s) is shut down automatically.
- v. Acoustic enclosures will be provided at all high noise equipment and place to limit the noise levels below 85 dBA.
- vi. Regular Ambient Air Quality Monitoring shall be carried out. The monitoring stations will be set up in consultation with the State Pollution Control Board. It will be ensured that at least one monitoring station is set up in up-wind & in down-wind direction along with those in other directions. On-line data for air emissions shall be transferred to the CPCB and APPCB regularly. The instruments used for ambient air quality monitoring shall be calibrated regularly.
- vii. Fugitive emission shall be $<500 \text{ mg/m}^3$. Bag filters shall be provided for all stacks except CPP Boiler and Cooler where ESP shall be provided.
- viii. The regular monitoring of fugitive emission shall be carried out by the unit as per the CPCB guidelines.
- ix. Raw material will be stored in covered yards and clinker in Silos to control fugitive emissions. Fugitive emissions from cement mill, packing area and coal yard shall also be controlled.
- x. Vacuum dust cleaning system will be provided to evacuate dust on floors. All roads will be swept with sweeping machines. Material will be transported in



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tippers, covered trucks, covered containers, covered rail wagons etc. Dust collectors and extraction system (suction apparatus) shall be installed to control fugitive dust emissions at coal and lime stone unloading points, at all the transfer points, stockpiles to arrest free release of dust.

- xi. Windbreakers will be installed to restrict fugitive dust.
- xii. Water sprinkling arrangement should be made in the raw material stock yard and cement bag loading areas. Regular water sprinkling shall be carried out at all areas where fugitive dust can be generated.
- xiii. For cooling towers of CPP will have Air Cooled Condensers.
- xiv. Copy of water withdrawal permission from the relevant authority shall be submitted before starting the project.
- xv. No wastewater will be generated in cement manufacture. The wastewater from CPP and domestic activities shall be treated in Effluent Treatment Plant (ETP) and Sewage Water Reclamation Plant (SWRP) respectively and recycled/reused in cement plant for make-up, in CPP for cooling, dust suppression, other plant related activities and green belt development. No wastewater will be released outside the premises. 'Zero' discharge shall be strictly adopted. During monsoon, the waste water will be stored in the mine pit. Separate storm water drains will be provided and storm water from CPP area will be stored in a settling tank before discharging into the nallah.
- xvi. Solid waste generated shall be 100 % recycled and reutilized in the process and no solid waste shall be disposed off outside the plant premises. The solid waste will be dumped in the low lying areas and the area thus filled up/reclaimed shall be used for tree plantation.
- xvii. Vermi Compositing shall be adopted for disposing off bio-degradable waste from the domestic sources.
- xviii. 180 TPD of fly ash generated from CPP will be transported pneumatically to the cement plant fly ash silos and shall be 100% utilized in Portland Pozzolana Cement production. Bottom ash shall be used in the raw mill and used for land filling. Treated STP sludge shall be used as manure for green belt development. Waste oil sludge shall be reused in the plant and finally burnt in the kiln or sold to authorized recyclers/ re-processors.



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- xix. The company shall strictly follow all the recommendations mentioned in the Charter on Corporate Responsibility for Environmental Protection (CREP).
- xx. 33% of the total area shall be developed as green belt.
- xxi. The company must harvest surface as well as rainwater from the rooftops of the buildings proposed in the expansion project and storm water drains to recharge the ground water and use the same water for the various activities of the project to conserve fresh water.
- xxii. Studies on noise dosimetry and audiometry to assess the noise induced hearing loss in case of exposed employees will be carried out and appropriate ameliorative measures will be taken, wherever necessary.

B. GENERAL CONDITIONS:

- i. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board (SPCB) 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. Adequate number of influent and effluent quality monitoring stations shall be set up in consultation with the SPCB. Regular monitoring shall be carried out for relevant parameters.
- iv. The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report.
- v. Industrial wastewater shall be properly collected and 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.
- vi. The overall noise levels in and around the plant area shall be limited within the prescribed standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation.
- vii. Proper House keeping and adequate occupational health programs shall be taken up. Regular Occupational Health Surveillance Programme shall be carried and records shall be maintained properly for at least 30-40 years. The programme



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shall include lung function and sputum tests once in six months. Sufficient preventive measures shall be adopted to avoid direct exposure to dust etc.

- viii. A separate environment management cell with full fledged laboratory facilities to carry out various management and monitoring functions shall be set up under the control of a Senior Executive.
 - ix. As proposed in the EIA/EMP, Rs. 31.05 Crores and Rs. 04.28 Crores/annum earmarked to meet the capital and recurring cost/annum respectively for the environmental protection measures shall be used judiciously to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. The funds so provided shall not be diverted for any other purpose.
 - x. The concerned Regional Office of this Ministry / State Pollution Control Board / Central Pollution Control Board shall monitor the implementation of the stipulated conditions. Six monthly compliance status report and monitoring data along with statistical interpretation shall be submitted to them regularly.
 - xi. The Project Proponent should advertise in at least two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned informing that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the State Pollution Control Board / Committee and may also be seen at Website of the Ministry and Forests at <http://envfor.nic.in>. The advertisement should be made within 7 days from the date of issue of the clearance letter and a copy of the same should be forwarded to the Ministry's Regional Office at Bangalore.
 - xii. 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 start of land development work.
5. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
 6. The Ministry reserves the right to stipulate additional conditions if found necessary. The company will implement these conditions in a time bound manner.
 7. The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of

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Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Public Liability Insurance Act, 1991, Hazardous Waste (Management & Handling) Rules, 1989 and Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 along with their amendments and rules.



(Sanchita Jindal)
Additional Director

Copy to :

1. The Secretary, Department of Environment and Forests, Government of Andhra Pradesh, Secretariat, Hyderabad- 500 022, A.P.
2. The Chief Conservator of Forests, Regional Office (Southern Zone) , Ministry of Environment & Forests, Kendriya Sadan ,4th Floor , C& F Wing, 17 Main Road, II Block , Kormangla, Bangalore- 560 034, Karnataka .
3. The Chairman, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi - 110 032.
4. The Chairman, A.P. Pollution Control Board, Paryavaran Bhawan, A-3, Industrial Estate, Sanath Nagar, Hyderabad- 500 018, A.P.
5. Joint Secretary (CC-I), Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, Lodhi Road, New Delhi.
6. Monitoring Cell, Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi.
7. Guard File.
8. Monitoring File.
9. Record File.

(Sanchita Jindal)
Additional Director

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GOVERNMENT OF INDIA
MINISTRY OF ENVIRONMENT & FORESTS

BY SPEED POST

Telefax: 24360488
e-mail- sanchita@menf.nic.in
sansom_2859@yahoo.co.in

File No- J-11011/76/2007-IA-II (I)

Date: 5th September 2007

To,

M/s Dalmia Cement (Bharat) Ltd.
Hansalaya (11th & 12th Floor)
15, Barakamba Road
Post Box- 364
New Delhi-110 001

Subject: Transfer of Environment Clearance to M/s Eswar Cements Pvt. Ltd to M/s Dalmia Cement (Bharat) Ltd. for 4.06 MTPA Cement Manufacturing Plant along with 40 MW Coal-Based Captive Power Plant at Nawabpet, Mylavaram Mandal, Kadapah, Andhra Pradesh.

Sir,

This is with reference to your letter No. Nil dated 6th August 2007 requesting this Ministry for the transfer of environment clearance dated 5th April 2007 issued to M/s Eswar Cement Pvt. Ltd. for the above mentioned project in favour of M/s Dalmia Cement (Bharat) Ltd. You have further submitted 'No Objection' for this transfer from M/s Eswar Cements Pvt. Ltd. vide their letter No. Nil dated 1st August 2007.

2. I am directed to convey that the Ministry hereby transfers the above mentioned environment clearance issued in the name of M/s Eswar Cements Pvt. Ltd. to M/s Dalmia Cement (Bharat) Ltd subject to the same site, conditions and validity of the earlier clearance No. J-11011/76/2007-IA(II) (I) dated 5th April 2007.

3. This has approval of the Competent Authority.

Yours Faithfully


(Sanchita Jindal)
Additional Director

Copy to:

1. Senior Manager (Business Development), Eswar Cements Private Limited, H. No. 3-5-874/4 II Floor, Hyderguda, Hyderabad - 500029, Andhra Pradesh.
2. The Secretary, Department of Environment and Forests, Government of Andhra Pradesh, Secretariat, Hyderabad- 500 022, A.P.

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पर्यावरण भवन, सी.जी.ओ. कॉम्प्लेक्स, लोदी रोड, नई दिल्ली - 110 003
PARYAVARAN BHAWAN, C.G.O. COMPLEX, LODHI ROAD, NEW DELHI - 110 003

3. The Chief Conservator of Forests, Regional Office (Southern Zone) , Ministry of Environment & Forests, Kendriya Sadan ,4th Floor , C& F Wing, 17 Main Road, II Block , Kormangla, Banglore- 560 034, Karnataka .
4. The Chairman, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi - 110 032.
5. The Chairman, A.P. Pollution Control Board, Paryavaran Bhawan, A-3, Industrial Estate, Sanath Nagar, Hyderabad- 500 018, A.P.
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(Sanchita Jindal)
Additional Director