



# SHREE CEMENT LTD.

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SCL/BWR/ENV/2011-12/

Date:-30/11/2011

**BY SPEED POST**

Dr. K.K. Garg (Director),  
Ministry of Environment & Forest,  
Regional Office (Central Region),  
Kendriya Bhawan, 5<sup>th</sup> Floor, Sector 'H' Aliganj,  
Lucknow (U.P.), Pin-226024

***Sub: - Six monthly Compliance report of environmental clearance of 300 MW (2x150 MW) Thermal Power Plant at village-Andheri Deori, Tehsil-Masuda, District-Ajmer, (Rajasthan) by Shree Cement Limited.***

***Ref: - Environment Clearance letter No.: J-13012/83/2009-IA-II (T) dated 30<sup>th</sup> November 2010.***

Dear Sir,

In reference to the above subject matter and referred letter, we are submitting herewith half yearly compliance report of above environmental clearance for the period from April, 2011 to September, 2011.

This is for your kind information please.

Thanking you,

Yours faithfully,

For Shree Cement Ltd.

(Rakesh Bhargava)

Jt. Vice President (Environment)

- Ccto:-
1. The Director (IA Div.-Thermal Power), Ministry of Environment & Forests Paryavaran Bhawan, C.G.O complex, Lodi Road, New Delhi-110003
  2. The In-Charge (Zonal Office), Central Pollution Control Board (CPCB), 3<sup>rd</sup> Floor, Sahkar Bhawan, North T.T. Nagar, Bhopal-462003(M.P.)
  3. The Member Secretary, Rajasthan Pollution Control Board, 4, Institutional Area, Jhalana Doongri,JAIPUR-302004(Rajasthan).

**SHREE CEMENT LIMITED,****Compliance Status of 300 MW (2x150 MW) Thermal Power Plant**

At Village Andheri Deori, Tehsil-Masuda, District Ajmer (Rajasthan)

ENVIRONMENT CLEARANCE LETTER No. : J-13012/83/2009-IA.II (T) dated 30<sup>th</sup> November, 2010

PERIOD OF COMPLIANCE : April, 2011 TO September, 2011

|        | <b>Conditions</b>  | <b>Compliances status</b>  |
|--------|--|--|
| (i)    | In case fuel for running the power plant is proposed to be changed from blending of Pet Coke and Imported Coal to other fuel (unblended liquid or solid or gas or any other in variance to the present proposal) the project proponent shall apply for such a change in environmental clearance along with necessary documents as required under EIA notification, 2006 (and its amendments). In such a case the necessity for holding public hearing again or otherwise will be determined by the Ministry in consultation with the Expert Appraisal Committee (Thermal Power). | Blended fuel of Pet coke & Coal is used for running the power plant.   |
| (ii)   | Vision document specifying prospective plan for the site shall be formulated and submitted to the Ministry within six months.  | After satisfactory running of boiler & turbine, possibilities will be explore for further optimize the operation to generate more power with existing resources.                                     |
| (iii)  | A stack of 220 m height shall be provided with continuous online monitoring equipments for SO <sub>x</sub> , NO <sub>x</sub> and Particulate Matter. Exit velocity of flue gases shall not be less than 22 m/sec. Mercury emissions from stack shall also be monitored on periodic basis.  | Both the boilers are attached with a stack of 220 meter height. Continuous on line monitoring system for monitoring of SO <sub>2</sub> , NO <sub>x</sub> and particulate matter have been installed. |
| (iv)   | The water requirement of 1300 m <sup>3</sup> /day shall be met from the water saved in the existing 44 MW CPP of the Cement Plant by replacing the water cooled condensers with the air cooled condensers. Water requirement is 4450m <sup>3</sup> /day of which 1300m <sup>3</sup> /day for the proposed 2x150 MW pet coke power plant and 3150 m <sup>3</sup> /day for the existing cement plant, mines and colony.  | Air cooled condenser has been installed.   |
| (v)    | Hydro geological study of the area shall be reviewed annually and report submitted to the Ministry. No water bodies including natural drainage system in the area shall be disturbed due to activities associated with the setting up / operation of the power plant.  | Hydro geological study of the area has been done, which will be reviewed annually & report shall be submitted to the Ministry.   |
| (vi)   | COC of 5.0 shall be adopted.   | Air cooled condenser has been installed.   |
| (vii)  | Local employable youth shall be trained in skills relevant to the project for eventual employment in the project itself. The action taken report and details thereof to this effect shall be submitted to the Regional Office of the Ministry and the State Govt. Dept. concerned from time to time.   | Local peoples are employed in plant & are provided relevant training.  |
| (viii) | Additional soil for leveling of the proposed site shall be generated within the sites (to the extent possible) so that natural drainage system of the area is protected and improved.  | The proposed site is flat; No soil for the leveling of site is used.   |
| (ix)   | Provision for installation of FGD shall be provided for future use.  | Adequate space for installation of FGD has been provided.  |
| (x)    | High Efficiency Electrostatic Precipitators (ESPs) shall be installed to ensure that particulate emission from the proposed power plant and cement plant does not exceed 50 mg/Nm <sup>3</sup> .   | High Efficiency Electrostatic Precipitators (ESPs) have been installed to achieve particulate emission below 50 mg/Nm <sup>3</sup> .   |
| (xi)   | Adequate dust extraction system such as cyclones/ bag filters and water spray system in dusty areas such as in coal handling and ash handling points, transfer areas and other vulnerable dusty areas  | Bag dust collectors are provided at all material transfer points. Conveyor belts are covered. Regular water spray arrangement has been provided in coal and ash handling areas.                      |

|         | <b>Conditions</b>   | <b>Compliances status</b>  |
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|         | shall be provided.  |  |
| (xii)   | Utilisation of 100% Fly Ash generated shall be made from 4th year of operation of the plant. Status of implementation shall be reported to the Regional Office of the Ministry from time to time.   | Fly ash generated from the power plant is used in existing cement plant.   |
| (xiii)  | Fly ash shall be collected in dry form and storage facility (silos) shall be provided. Unutilized fly ash shall be disposed off in the ash pond in the form of slurry form. Mercury and other heavy metals (As, Hg, Cr, Pb etc.) will be monitored in the bottom ash as also in the effluents emanating from the existing ash pond. No ash shall be disposed off in low lying area.   | Silo has been constructed to store the dry fly ash.  |
| (xiv)   | Ash pond (if any) shall be lined with HDPE/LDPE lining or any other suitable impermeable media such that no leachate takes place at any point of time. Adequate safety measures shall also be implemented to protect the ash dyke from getting breached.  | N.A.   |
| (xv)    | Green Belt consisting of three tiers of plantations of native species around plant and at least 100 m width shall be raised. Wherever 100 m width is not feasible a 50 m width shall be raised and adequate justification shall be submitted to the Ministry. Tree density shall not less than 2500 per ha with survival rate not less than 75 %.   | One row of plantation of native species along with plant boundary has been developed and 2 rows shall be developed in coming monsoon season.   |
| (xvi)   | The project proponent shall also adequately contribute in the development of the neighbouring villages. Special package with implementation schedule for free potable drinking water supply in the nearby villages and schools shall be undertaken in a time bound manner.  | Potable water is supplied in nearby villages during summer.<br>A school is run for nearby villagers in plant campus. Financial aid is given in nearby govt. schools for development of infrastructure. |
| (xvii)  | An amount of Rs 5.0 Crores shall be earmarked as one time capital cost for CSR programme. Subsequently a recurring expenditure of Rs 1.0 Crore per annum shall be earmarked as recurring expenditure for CSR activities. Details of the activities to be undertaken shall be submitted within one month along with road map for implementation.   | Rs. 9.19 cores have been incurred during the year 2010-11 under CSR activities.  |
| (xviii) | While identifying CSR programme the company shall conduct need based assessment for the nearby villages to study economic measures with action plan which can help in upliftment of poor section of society. Income generating projects consistent with the traditional skills of the people besides development of fodder farm, fruit bearing orchards, vocational training etc. can form a part of such programme. Company shall provide separate budget for community development activities and income generating programmes. This will be in addition to vocational training for individuals imparted to take up self employment and jobs. | CSR activities are based on local needs identification.  |
| (xix)   | It shall be ensured that in-built monitoring mechanism for the schemes identified is in place and annual social audit shall be got done from the nearest government institute of repute in the region. The project proponent shall also submit the status of implementation of the scheme from time to time.  | It shall be done on annual basis   |
|         | <b>General Condition</b>  |  |
| (i)     | The treated effluents conforming to the prescribed standards only shall be re-circulated and reused   | Waste water generated from RO system is being reused for ash quenching.  |

|        | Conditions  | Compliances status  |
|--------|---|---|
|        | within the plant. There shall be no discharge outside the plant boundary except during monsoon. Arrangements shall be made that effluents and storm water do not do not get mixed.  |   |
| (ii)   | A sewage treatment plant shall be provided (as applicable) and the treated sewage shall be used for raising greenbelt/plantation.   | Sewage treatment plant has already been installed for treatment of Domestic effluent and treated water is used in plantation & plant process.   |
| (iii)  | A well designed rainwater harvesting shall be constructed. Central Groundwater Authority/ Board shall be consulted for finalization of appropriate rainwater harvesting technology within a period of three months from the date of issue of clearance and details shall be furnished to the Regional Office of the Ministry.   | We have developed rainwater harvesting structures in and around the plant area. A report has already been submitted to MoEF.  |
| (iv)   | Adequate safety measures shall be provided in the plant area to check/minimize spontaneous fires in coal yard, especially during summer season. Copy of these measures with full details along with location plant layout shall be submitted to the Ministry as well as to the Regional Office of the Ministry.   | Adequate safety measures like fire extinguishers in the plant area and hydrant line have been provided in plant and coal yard area. Details have already been submitted to MoEF   |
| (v)    | Storage facilities for auxiliary liquid fuel such as LDO and/ HFO/LSHS shall be made in the plant area in consultation with Department of Explosives, Nagpur. Sulphur content in the liquid fuel will not exceed 0.5%. Disaster Management Plan shall be prepared to meet any eventuality in case of an accident taking place due to storage of oil.  | Auxiliary liquid fuel HSD is stored in plant area. License for storage has been obtained from Department of Explosives, Nagpur. Disaster Management Plan has been prepared.   |
| (vi)   | Regular monitoring of ground water level shall be carried out by establishing a network of existing wells and constructing new piezometers. Monitoring around the ash pond area shall be carried out particularly for heavy metals (Hg, Cr, As, Pb) and records maintained and submitted to the Regional Office of this Ministry. The data so obtained should be compared with the baseline data so as to ensure that the ground water quality is not adversely affected due to the project.    | Regular monitoring of ground water level is being carried out by establishing a network of existing wells/bore wells. There is no ash pond in proposed power plant.   |
| (vii)  | Monitoring surface water quantity and quality shall also be regularly conducted and records maintained. The monitored data shall be submitted to the Ministry regularly. Further, monitoring points shall be located between the plant and drainage in the direction of flow of ground water and records maintained. Monitoring for heavy metals in ground water shall be undertaken.   | There is no surface water available in the area.  |
| (viii) | First Aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.   | First Aid and sanitation arrangements are available at the site for the drivers and other contract workers.   |
| (ix)   | Noise levels emanating from turbines shall be so controlled such that the noise in the work zone shall be limited to 75 dBA. For people working in the high noise area, requisite personal protective equipment like earplugs/ear muffs etc. shall be provided. Workers engaged in noisy areas such as turbine area, air compressors etc shall be periodically examined to maintain audiometric record and for treatment for any hearing loss including shifting to non noisy/less noisy areas. | 75 dBA noise level is maintained at the boundary of the pant. Acoustic enclosures are provided for turbines. Personal protective equipment like earplugs/ear muffs have been provided to the people working in the high noise area. Audiometric examination annually carried out and corrective action taken accordingly. |
| (x)    | Regular monitoring of ground level concentration of SO <sub>2</sub> , NO <sub>x</sub> , PM <sub>2.5</sub> & PM <sub>10</sub> and Hg shall be carried out in the impact zone and records maintained. If  | Regular monitoring of ground level concentration of SO <sub>2</sub> , NO <sub>x</sub> , PM <sub>2.5</sub> & PM <sub>10</sub> is carried out.  |

|        | Conditions   | Compliances status  |
|--------|--|---|
|        | at any stage these levels are found to exceed the prescribed limits, necessary control measures shall be provided immediately. The location of the monitoring stations and frequency of monitoring shall be decided in consultation with SPCB. Periodic reports shall be submitted to the Regional Office of this Ministry. The data shall also be put on the website of the company.  | The monitored data has been displayed on company website along with compliance report.  |
| (xi)   | Provision shall be made for the housing of construction labour (as applicable) 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.  | Housing facility has been provided for construction labour with all necessary infrastructure and facilities.  |
| (xii)  | The project proponent shall 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 within seven days from the date of this clearance letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the State Pollution Control Board/Committee and may also be seen at Website of the Ministry of Environment and Forests at <a href="http://envfor.nic.in">http://envfor.nic.in</a> . | Advertised in two local news papers namely Dainik Navjyoti & Rashtrdoot on 06/12/2010. Copy has been sent to Ministry of Environment and Forests and it's Regional Office and SPCB vide letter dated 21/12/2010.  |
| (xiii) | A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parisad / Municipal Corporation, urban local Body and the Local NGO, if any, from whom suggestions/representations, if any, received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.  | Copy of EC letter has been sent to the gram panchayat Andheri Deori. Acknowledgement has been sent to Ministry of Environment and Forests and it's Regional Office and SPCB vide letter dated 21/12/2010.<br>Copy of the EC letter has been uploaded on our web site <a href="http://www.shreecement.in">www.shreecement.in</a>   |
| (xiv)  | An Environmental Cell shall be created at the project site itself and shall be headed by an officer of appropriate seniority and qualification. It shall be ensured that the Head of the Cell shall directly report to the head of the organization.   | Separate environmental management cell has already been established with qualified personnel to carry out various environmental management functions under the supervision of Jt. V. P. (Environment) and reported to Executive Director.   |
| (xv)   | The proponent shall upload the status of compliance of the stipulated EC 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 MOEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM (PM2.5 & PM10), SO2, NOx (ambient levels as well as stack emissions) shall be displayed at a convenient location near the main gate of the company in the public domain.   | Status of compliance of EC conditions has been uploaded on company's website <a href="http://www.shreecement.in">www.shreecement.in</a> and updated periodically. Compliance status have been sent to Regional Office of MOEF, the respective Zonal Office of CPCB and SPCB. The criteria pollutant levels namely; SPM, RSPM (PM2.5 & PM10), SO2, NOx as well as stack emission data shall be displayed at main gate of the company in the public domain. |
| (xvi)  | The environment 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 clearance conditions and shall also be sent to the respective Regional Offices of the Ministry by e-mail.   | Environment statement for each financial year ending 31st March will be submitted to SPCB & by e-mail to Regional Offices of the Ministry and also be uploaded on the website of the company along with the status of compliance of environmental clearance conditions.   |

|         | <b>Conditions</b>   | <b>Compliances status</b>   |
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| (xvii)  | The project proponent shall submit six monthly reports on the status of the implementation of the stipulated environmental safeguards to the Ministry of Environment and Forests, its Regional Office, Central Pollution Control Board and State Pollution Control Board. The project proponent shall upload the status of compliance of the environment of the environmental clearance conditions on their website and update the same periodically and simultaneously send the same by e-mail to the Regional Office, Ministry of Environment and Forests.  | Six monthly reports of the status of implementation of the stipulated environmental safeguards have been sent to the Ministry of Environment and Forests, its Regional Office, Central Pollution Control Board and State Pollution Control Board.<br>Status of compliance of EC conditions has been uploaded on company's website <a href="http://www.shreecement.in">www.shreecement.in</a> and updated periodically.  |
| (xviii) | Regional Office of the Ministry of Environment & Forests will monitor the implementation of the stipulated conditions. A complete set of documents including Environmental Impact Assessment Report and Environment Management Plan along with the additional information submitted from time to time shall be forwarded to the Regional Office for their use during monitoring. Project proponent will up-load the compliance status in their website and up-date the same from time to time at least six monthly basis. Criteria pollutants levels including NOx (from stack & ambient air) shall be displayed at the main gate of the power plant. | EIA/EMP report have been submitted to the Regional office of MoEF along with additional information.<br>Status of compliance of the EC conditions has been uploaded on company's website <a href="http://www.shreecement.in">www.shreecement.in</a> and updated periodically. The criteria pollutant levels namely; SPM, RSPM (PM2.5 & PM10), SO <sub>2</sub> , NO <sub>x</sub> as well as stack emission data shall be displayed at main gate of the company in the public domain. |
| (xix)   | Separate funds shall be allocated for implementation of environmental protection measures along with item-wise break-up. These cost shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes and year-wise expenditure should be reported to the Ministry.   | We have adequate fund for implementation of EMP. Year-wise expenditure shall be submitted to MOEF.  |
| (xx)    | The project authorities shall inform the Regional Office as well as the Ministry regarding the date of financial closure and final approval of the project by the concerned authorities and the dates of start of land development work and commissioning of plant.   | Project work has been started.<br>First boiler has been commissioned in October 2011 and second boiler commissioning work has been started in November 2011.  |
| (xxi)   | Full cooperation shall be extended to the Scientists/Officers from the Ministry / Regional Office of the Ministry at Bangalore / CPCB/ SPCB who would be monitoring the compliance of environmental status.   | Full cooperation is being extended to all mentioned authorities during monitoring of the project.   |