

SCCL/MOEF/1002/2015

Date : 10<sup>th</sup> February, 2015

The Dy. Director  
Ministry of Environment, Forest & Climate Change  
First & Second Floors, HEPC Building  
34, Cathedral Garden Road  
Nungambakkam  
CHENNAI - 600 034.

Dear Sir

Sub: Expansion of Clinker Plant (0.297 MTPA - 0.66 MTPA) and Limestone production from 0.20 MTPA - 1.35 MTPA at village Sri Narasimhapuri, Karampudi, Guntur district, Andhra Pradesh - Environmental Clearance - Reg. Submission of compliance report.

With reference to your letter bearing No.F.No.J-11011/677/2007-IAII(I) dated 7<sup>th</sup> January, 2008 in connection with the above subject, enclosed please find herewith the replies to the Compliance report for the specific conditions and General Conditions for the period April 2014 - Sept 2014

This is for your information please.

Thanking you

Yours faithfully  
For SRI CHAKRA CEMENT LTD

V.V.RAVI KUMAR  
Asst.General Manager - Commercial.

Copy to :The Monitoring Cell, Ministry of Environment and Forests, Paryavaran Bhavan,  
CGO Complex, New Delhi.  
The Chief Conservator of Forests (Central), Ministry of Environment &  
Forests, Regional Office (SZ), Kendriya Sadan, IV Floor, E & F Wing, 17<sup>th</sup>  
Main Road, Koramangala, BENGULURU - 560 034

**SRI CHAKRA CEMENT LIMITED  
HYDERABAD**

**Compliance Report of the Environmental Clearance  
For the period April 2014 – September 2014**

**Specific Conditions**

Sl.No	Compliance	Reply
i	Continuous Stack monitoring facilities for all the stacks and adequate air pollution control system shall be provided to keep emissions levels below 50 mg/Nm <sup>3</sup> and data submitted to the Ministry's Regional Office at Bangalore , A.P.Pollution Control Board and CPCB regularly	Stack Monitoring equipments have been provided to all the major stacks ie., stack attached to RABH, Coal, Raw Mills and Cooler subsequently connected to State PCB Server.
ii	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, begging and packing areas etc., to control fugitive emission. Crusher shall be operated with high efficiency bag filters. All conveyers shall be covered with GI Sheets. Covered sheds for storage for raw materials and fully covered conveyers for transportation of materials shall be provided beside coal, cement, fly ash and clinker shall be stored in silos. Pneumatic system shall be used for fly ash handling.	As a part of Expansion, the Company has taken all precautions by installing the dust collection and extraction systems to control the fugitive dust emission. - For controlling the fugitive emissions at various transfer points, water sprinkling systems have been provided. - Crusher and other equipment have been provided with high efficiency Bag Filters - All the major equipments viz., Raw Mills, Blending Silos, coal mill, Cement Mills and Cement Silos have been provided with Bag Filters. Kiln has been attached with RABH and Cooler with ESP. - All the major raw materials like, Gypsum, Coal, Laterite, Raw Meal and Clinker are being stored under Sheds covered with GI Sheets.. Fly Ash is being stored in Silos.
iii	Secondary fugitive emissions shall be controlled and maintained within the latest prescribed limits issued by the ministry and regularly monitored. Guidelines / code of practice issued by the CPCB in this regard shall be	Yes we will follow the guidelines as per the latest prescribed limits issued by the Ministry

	followed and data submitted to the Ministry's Regional Office at Bangalore, CPCB and APPCB.	
Iv	Efforts shall be made to reduce impact of the transport of the raw materials and end products on the surrounding environment including agricultural land.	Necessary precautions being taken to cover the material with tarpaulin before transporting to control the impact on the surroundings.
v	Digital processing of the entire lease area using remote sensing technique should be done regularly once in three years for monitoring land use pattern and report submitted to Ministry of Environment and Forests and its Regional Office, Bangalore.	We are planning to engage the officials of Geological Survey of India for Digital processing of the entire Lease Area. We are expecting to get the work completed very soon and the same will be submitted immediately to the Ministry upon receipt of the report.
vi	Regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of SPM and RPM such as haul road, loading and unloading points, transfer points and other vulnerable areas. It shall be ensured that the ambient air quality parameters conform to the norms prescribed by the Central Pollution	Regular Water Sprinkling is being carried out in the critical areas viz., haul roads, Raw Material Unloading points, and material transfer points. To this effect we have provided the water sprinklers in the plant area and water tankers meant for water sprinkling on the roads and raw material handling points.
Vii	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. The vehicles shall be covered shall be with a tarpaulin and shall not be overloaded	
viii	Asphalting/concreting of roads and water spray all around the stockyard and loading / unloading areas in the cement plant shall be carried out to control fugitive emissions.	Stocks yards and roads connecting to stock yards have been concreted and water spray is being done continuously to control the fugitive emissions. Concreting of Roads in the plant area have been completed
ix	Total ground water requirement for cement plant and mining shall not exceed 340 and 41 m <sup>3</sup> /day (including 41 m <sup>3</sup> mine water) respectively. All the treated wastewater shall be recycled and reused in the process and / or for ash quenching, dust suppression, green belt development and other plant related activities etc. No process wastewater shall be discharges outside the factory premises and Zero discharge shall be adopted. Domestic wastewater shall be treated in sewerage treatment Plant (STP).	We shall not exceed the ground water usage and shall use the same for dust suppression and green belt development.
x	Permission for the drawl of 340 m <sup>3</sup> /day from bore wells shall be obtained from SGWB/CGWA. Mined out area shall be developed as artificial reservoir. The water	Application has been made to the state Ground water department, Government of

	stored in the artificial reservoir made in the mine pit shall be used maximum to reduce ground water consumption.	Andhra Pradesh for grant of permission for drawl of ground water. Expected to get approval at the earliest. Application has been made to Central Ground Water for permission.
xi	Sewage Treatment plant (STP) shall be installed for the colony. Treatment domestic effluent shall be used for green belt development within the plant premises. Domestic waste from colony and STP shall be segregated into bio-degradable and non-biodegradable. Bio-degradable waste shall be composted and non-biodegradable waster shall be land filled at identified sites. ETP should also be provided for workshop and mineral separation plant waste water.	STP with capacity of 200 M3 per day treatment is commissioned and the treated water is be used for development of Green belt development.
xii	The project proponent shall ensure that no natural watercourse shall be obstructed due to any mining operations.	We shall ensure that project proponent will not obstruct the natural water course and we would like to inform that no natural water course is passing through our Mine..
xiii	All the bag filter dust, raw meal dust, coal dust, clinker dust & cement dust from pollution control devices shall be recycled & reused in the process and used for cement manufacturing. Other solid waste generated in mine shall be used in cement plant. Refractory bricks due to its high recycling value shall be provided to outside agencies. Sludge from domestic sources shall be used as a manure for green belt development. Waste/spend oil & automobile batteries shall be sold to authorized parties.	All the process dust is collected through the dust collecting equipments and recycled in the process. Refractory bricks would be disposed off through out side agencies for recycling. Waste oil and Batteries are being disposed to the authorized dealers by way of buy back to obtaing the new one.
xiv	An effort shall be made to use of high calorific hazardous waste in the cement kiln and necessary provision shall be made accordingly.	Efforts are being made to use high calorific Hazardous Waste in the Cement Kiln to this effect we need to change kiln feed system. As our cement is very old, it may take some time to provide the new system.
xv	Efforts shall be made to use low grade lime, more fly ash and solid waste in the cement manufacturing.	We are utilizing 10-15% of low grade limestone & 20-25% fly ash in the manufacturing process.
xvi	Action plan for the mining, management of over burden (removal, storage, disposal etc.,) reclamation of the mined out area and mine closure shall be submitted to the Ministry and its Regional Office at Bangalore.	The over burden is expected from our mine is very less and whatever the OB generated is being used in our cement manufacturing process.
xvii	The top soil and solid waste shall be stacked separately at specified dumping site with proper safeguards. Top soils	Top soil and solid waste will be stacked separately and

	shall be used for the plantation / green belt development during reclamation and solid waste for backfilling.	will be used in plantation and green belt development.
xviii	The over burden (OB), inter burden and other waste generated from mines, if any shall be stacked at the earmarked dump sites only and shall not be kept active for long period. Backfilled OB dumps shall be scientifically vegetated with suitable native species to prevent erosion and surface run off. Monitoring and management of reclaimed areas shall continue until the Vegetation becomes self sustaining. Regular compliance shall be submitted to the Ministry and its Regional Office at Bangalore on Six Monthly basis.	The OB and the waste generated from our mine is very less and it is being Dumped separated and same is being used in the process. i Vegetation has been taken up in the reclaimed areas and extent is 3-4 HA.
xix	The area for external over burden dump shall be reduced by suitably increasing the heights of the dumps with proper terracing. It shall be ensured that the over all slope of the dump does not exceed 28°.	Areas of external on Dump is minimum and dump slope is below 28 degrees.
xx	Garland drains shall be constructed to arrest silt and sediment flow from soil. The water so collected shall be used for watering the mine area, haul roads, green belt development etc. The drains shall be regularly de-silted and maintained properly.	Garland drains are provided which are de-silted during the summer months.
xxi	Suitable rainwater harvesting and conservation measure to augment ground water resources in the area on long term basis shall be planned and implemented in consultation with Regional Director, central Ground Water Board in cement plant and mining area to augment ground water resources and use for dust suppression and horticulture.	We have made sump arrangement in north east area to collect the rain water which would be utilized for dust suppression and horticulture.
xxii	Regular monitoring of ground water level and quality shall be carried out by establishing a network of existing wells and new peizometers at suitable locations by the project proponent and in and around project area in consultation with Regional Director, Central Ground Water Board during the mining operation. The ground water monitoring shall be carried out 4 times in a year ie., pre-monsoon (April-May) Monsoon (August) post-monsoon (November) and winter (January) and data thus collected shall be regularly sent to the Ministry, its Regional Office at Bangalore, Central Ground Water Authority and State Ground water Board, Bangalore	Third party people are being nominated for monitoring the ground water level and quality. M/s. Global Enviro Labs have been awarded the said work for this purpose.
xxiii	The project proponent shall take appropriate mitigative measures to prevent pollution of nearby and other surface waterbody, if any.	Precuation will be taken to prevent pollution of nearby and other surface water body.
xxiv	Deep hole wet drilling sequential blasting method shall be adopted and provision for the control air emissions during blasting using dust collectors/extractors etc. shall be made. Blasting operation shall be carried out during the daytime only and one bench at a time shall be blasted. Sharp drills bits for drilling holes shall be used.	Sequential blasting method has been adopted and the blasting operations are being carried in the day time only . Sharp drills bits for drilling holes are being used and

	The holes shall be charges by using optimum charge and using time delay detonator. The mitigative measures for control of ground vibrations and to arrest fly rocks and boulders shall be implemented. No Objection Certificate from the Chief Controller of Explosives shall be obtained.	holes are charged by using optimum charge and using time delay detonators.
xxv	Out of total 79 Ha., green belt shall be developed in 30 Ha (35%) in and around the cement plant as per the CPCB guidelines to mitigate the effects of air emissions in consultation with local DFO. In mining, plantation shall be raised in an area of 5 Ha besides 0.45 Ha. along the buffer zone and 0.4 Ha along the haul road by planting the native species around mining lease area, over dumps, around water body, roads etc., in consultation with the local DFO / Agricultural Department. At lease 1500 trees per year shall be planted with a tree density of 2000 trees per Ha. An action plant shall be submitted in this regard.	Out of the stipulated area We have developed green belt of 17 HA and we propose to go for another 4 HA which we propose to start at the earliest.
xxvi	The void left unfilled shall be converted into water body to store rain water. The higher benches of excavated void/mining pit shall be terraced and plantation 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 carried out along the excavated area.	Mining operations is in initial stage and have no voids to fill up.
xxvii	The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered fauna. Action plan for conservation of flora and fauna shall be prepared and implemented in consultation with the state forest and wildlife department. Necessary allocation of funds for implementation of the conservation plan shall be made and the funds so allocated shall be included in the project cost. Copy of the action plan may be submitted to the Ministry and its Regional Office within 3 months from the date of issue of this letter.	Precautionary measure will be taken as directed and action plan will be submitted.
xxviii	A final mine closure plan along with details of Corpus fund shall be submitted to the Ministry of Environment & Forests 5 years in advance of final mine closure for approval.	Mine closure does not arise.
xxix	Mechanized open casting shall be adopted and no change in mining technology and scope of working shall be made without prior approval of Ministry of Environment & Forest.	Mechanized open cast has been adopted and no change in mining technology is envisaged.
xxx	Consent to operate shall be obtained from APPCB before starting enhanced production from the mine.	Consent for operations from State Pollution control Board has been obtained vide their order No.APPCB/VJA/GTR/713/HO/CFO/2014-6241 dated 25.01.2014 valid upto 31.05.2014 issued by APPCB.

xxxix	Permission of the State Forest Department shall be obtained regarding impact of cement plant and mining activities on the surrounding reserve forests viz., kakirala RF (0.3 KM), Guttikonda RF (0.2 KM), Naguleru Vagu (0.3 Km) and Ballapalled RF (3.9 Km) and all the recommendations shall be followed :	Application has been forwarded to the Forest department for permission.
xxxii	The Company shall obtain necessary clearances / approval from the concerned Department ie., Indian Bureau of Mines, State Government, MOEF etc., for the linked mining component before undertaking any construction activity at the project site.	Company has obtained necessary clearances which are as mentioned below. - Consent for operations from APPCB for operating plant vide order No.APPCB/VJA/GTR/316/CFO/HO/2012-2294 dated 24.08.2012. - Scheme of Mining Approved by Indian Bureau of Mines vide their letter No.MS/AP/GNR/LST-202-SZ dated 22.07.2009.
xxxiii	Rehabilitation and Resettlement plan for the project affected population as per the policy of the State Government shall be prepared and implemented	No Rehabilitation and Resettlement is there.
xxxiv	Acoustic enclosures shall be provided to control noise wherever necessary. Mine machine shall be provided with silencers. Noise shall also be controlled from the cooler fans, compressor house, cement mill and raw mill, cement plant and drilling machines, excavator, blasting at mine site using appropriate noise control measures.	Necessary noise control measure will be adopted to prevent the noise pollution.
xxxv	All the safety norms stipulated by the Director General, Mines & Safety (DGMS) should be implemented	We shall implement all the suggestions stipulated by DGMS.

**SRI CHAKRA CEMENT LIMITED  
HYDERABAD**

Compliance Report of the Environmental Clearance for the period April 2014 to  
September 2014

**General Conditions**

Sl No	Compliance	Reply
I	The Project authority shall adhere to the stipulations made by AP.Pollution Control Board (APPCB) and State Government.	We will adhere the stipulations made by APPCB.
II	No further expansion or modification of the plant shall be carried out without approval of Ministry	No further expansion or modification of the plant will be carried without approval of the ministry
III	The gaseous and particulate mater 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 APPCB limit. Interlocking facility to be provided in the pollution equipment so that in the event of the pollution control equipment not working, the respective unit(s) is shut down automatically	Interlocking facility will be provided to the pollution control equipment RABH / ESP
IV	One ambient air monitoring station shall be installed in downwind direction. Ambient air quality including ambient noise levels shall not exceed the standard 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 report submitted to the APPCB quarterly and to the Ministry's Regional Office, Bangalore Half-yearly.	Ambient Air Monitoring has been installed and we propose to install yet another two numbers to be installed (equipment is ready to get from M/s. Swan Environmental Systems) and Stack emissions is being monitored quarterly.
V	The Company must harvest the rainwater from the rooftops and storm water drain recharges the ground water and use the same water for the various activities of the project to conserve fresh water.	Rain Harvesting from the rooftops and storm water drains have been provided in the factory and mine area to recharges the ground water.
VI	The Company shall under undertake eco-development measures including community welfare measures in the project area.	The Company has already taken measures for community welfare in the project area by way of Corporate Social Responsibility. (CSR) We have spent Rs. 5 lacs for the period Apri 14 - Sept 2014
VII	The over all 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	The noise levels will kept under control conforming to the standards under Envoronmental (protection act 1986 Rules, 1989



	generation. The ambient noise levels shall conform to the standards prescribed under Environmental (protection Act 1986 Rules, 1989 via. 75 dBA (Day Time) and 70 dBA (night time).	via. dBA (day time) & 70 dBA (night time).
VIII	All recommendations made in the corporate responsibility for Environmental Protection (CREP) for cement plants shall be implemented.	Yes we do.
IX	Proper House keeping shall be taken up. Regular annual medical examination of the employees shall be carried out from the occupational health point and records maintained.	Regular annual medical examination of the employees is being carried out.
X	A separate environmental management cell to carry out various management and monitoring functions shall be set up under the control of Senior Executive.	A Committee Headed with General Manager (W) has been formed and the following are the members of the Committee. Mines Manager Sr.Manager - Commercial Manager - Process Manager (P&A).
XI	As propose in EIA/EMP, Rs. 6.00 crores earmarked towards the environmental pollution control measures for the cement plant and Rs. 2.00 lacs for environmental pollution control measures for the mine shall be suitably used 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.	As envisaged in EIA/EMP reports, the proposed amount will be spent for environmental pollution control measures of the Cement plant and Mine.
XII	The Regional Office of this ministry at Bangalore /CPCB/APPCB shall monitor the stipulated conditions. A six monthly compliance report and the monitored data along with statistical interpretation shall be submitted to them regularly.	Forwarding herewith the compliance report half yearly as per the EC conditions.
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 concern authorities and the date of commencing the land development work	The said information has been already forwarded to the Ministry in the month of August, 2008.
XIV	The Project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry & copies of the clearance letter are available with A.P.Pollution Control Board /Committee & may also be seen at Website of the Ministry of Environment & Forest, New Delhi at <a href="http://envfor.nic.in">http://envfor.nic.in</a> . This should be advertised within seven days from the date of issue of the clearance letter atleast in two local news papers that are widely circulated in the region in which one shall be in the vernacular language of the locality concerned & a copy of the same shall be forwarded to the Regional Office at Bangalore	The advertisement has been already released in local new papers both in English and Telugu daily