## HALF YEARLY COMPLIANCE REPORT OF ENVIRONMENT CLEARNACE FOR SLAG GRINDING UNIT

Slag Grinding Unit at BILAKALAGUDUR ( VILLAGE), GADIVEMULA (MANDAL) DIST. KURNOOL (AP) NAME OF THE PROJECT: Expansion of Cement grinding Unit from 2.2 MTPA to 4.8 MTPA by setting up of 2.60 MTPA

MOEF LETTER NO. & DATE: J-11011/159/2010-IA-II (I) Dt:13-05-2011

6 SI.No. PERIOD OF COMPLIANCE REPORT: 01.10.15 to 31.03.2016 P Ministry vide G.S.R.No.826 (E) dat 16th Nov ,2009 should be The national Ambient Air Quality Standards issued by the Regional Office at Bangalore, Andhra Pradesh Pollution and stack emissions shall be submitted to the Ministry's stacks of adequate height etc. Data on ambient air, fugitive Control Boards (APCB) and CPCB regularly. adequate air pollution controlled systems Viz. Bag filters and emissions shall be controlled within 50mg/Nm3 by installing SPECIFIC CONDITIONS emissions from the stacks shall be provided. Particulate Continuous stack monitoring facilities to monitor gaseous CONDITIONS have installed 3 nos. of continuous ambient air quality stations. unit exceed 30 mg/Nm3. Interlocking facility has been provided in the Online data are electronically transmitted to APPCB website. all the equipment viz. Crusher, Raw Mill, Kiln, Coal Mill, Cement/ Slag We are complying with the National Ambient Air Quality Standards and It is also ensured that at no time the particulate emissions from the grinding have also installed 3 nos. of CAAQMS for monitoring ambient air quality. Particulate emissions are maintained well within the prescribed limits. We Mills and Packing Plant. Adequate stack heights have been provided. particulate emissions from the stacks. They have provided Bag Housed in pollution control equipment. We have provided online continuous monitoring facilities to monitor COMPLIANCE

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should be followed

monitored. Guidelines/Code of practice issued by the CPCB

latest permissible limits issued by the ministry and regularly

stack emission well below the stipulated norms. Pulse bag filters are installed at all the material transfer points for controlling fugitive emissions.

We have installed latest technology Bag Houses designed to control the

In additions, water sprinklers are provided at belt conveyors, wherever required, to effectively suppress the dust during material conveying.

Emissions from stacks as well as ambient air quality parameters are

emissions from all the sources shall be controlled within the

emission levels including secondary fugitive

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Gaseous

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Water requirement from bore wells for the proposed expansion shall not exceed 200 m³/day. Efforts shall be made to further the state of the shall be made to further the state of the shall be made to further the state of the shall be made to further the state of the shall be made to further the shall be ma	Efforts shall be made to reduce impact of the transport of raw materials and end products on the surrounding environment including agriculture land. All the raw materials including flyash should be transported in the closed containers only and should not be overloaded. Vehicle emissions shall be regularly monitored.	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. Regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of PM and RSPM such as haul road ,loading 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 control board in this regard.	The company shall install adequate dust collection and extraction system to control fugitive dust emissions at various transfer points, handling (unloading, conveying, transporting, stacking), vehicular movement, bagging and packing areas etc. All the raw materials stock piles should be covered. A closed clinker stockpile system shall be provided. All Conveyors should be covered with GI sheets. Covered sheds for storage of raw materials and fully covered conveyers for transportation of materials shall be provided besides coal, cement, fly ash and clinker shall be stored in silos. Pneumatic system shall be used for fly ash handling
PUC check of company owned vehicles is regularly done whereas random PUC certificates are checked at factory gate for the vehicles entering our premises.  Our total ground water requirement is less than the permitted 200 m3/day and no waste water is being generated for	We have constructed a 10 M x 30 Km concrete road from factory to Nandyal town to reduce the impact of transport of raw material/ finished goods on the environment/ agriculture land. We are also covering the trucks carrying raw material and finished products with tarpaulin in compliance with the CPCB guidelines. Loose powdery material viz. cement /GGBS/ fine coal etc. are transported in bulkers.	We have provided concrete paved internal approach roads around the stockyard and raw material storage areas. Most of the approach roads have been concreted. We are also deploying water tankers regularly to spray water on unpaved areas for dust suppression. Roadside water sprinklers have also been provided and regularly operated for dust suppression.  The ambient air quality norms are maintained within the prescribed norms.	Pulse bag filters are installed at all the material transfer points for controlling fugitive emissions.  All the internal roads meant for vehicular movement are concrete paved. Roads are regularly swept to control fugitive emission during vehicular movement.  Gypsum and Laterite stockpiles are covered. Clinker is stored in RCC silo. All the conveyors are fully covered with GI sheets.  No fly ash is generated as, so far we have not installed CPP,

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The company shall provide housing for construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, safe drinking water,	east 5% of the total cost of the project shall be earmarked ards the corporate social responsibility and itemwise details g with time bound action plan should be prepared and mitted to the Ministry Regional office at Bangalore. ementation of such programme shall be ensured ordingly in a time bound manner	The green belt shall be developed in at least 33% area in and around the cement plant as per CPCB guidelines to mitigate the effects of air emissions in consultation with local DFO.	devices shall be be recycled and reused in the process used for cement manufacturing. Spent oil and batteries shall be sold to authorized recyclers/reprocesses only.	capacity of the reservoir shall be enhanced to meet the maximum water requirement. Only balance water requirement shall be met from the other sources.	reduce water consumption by using air cooled condensers. All the treated wastewater should be recycled and reused in the process and /or for dust suppression and greenbelt development and other plant related activities etc. No process waste waster shall be discharged outside the factory premises and zero discharge should be adopted
The project has been completed and the necessary infrastructure was provided during construction.	We have earmarked 5% of the project cost towards corporate social responsibility. Item wise details along with time bound action plan has been submitted to R.O. MoEF. We have implemented various CSR schemes during the year 2015-16 with an expenditure of Rs.216 Lakhs. Budget for 2016-17 is Rs.250 Lakhs.	Greenbelt in an area of 239 Acres (36.76%) has been developed.	All the fine dust is collected at bag filters from all operations and automatically recycled into the system.  Spent oil and batteries are sold to authorized recyclers.	We have adopted the following measures for rainwater harvesting and groundwater recharge:  - Constructed rooftop rainwater harvesting structure at Old Project Office Building, Stores Building and Bilakalagudur School building.  - 4 nos. of percolation tanks in mining area  - 11 Nos. of recharge wells inside plant premises to harvest rainwater from the storm drains. 4 nos. of additional recharge wells have also been constructed during the year 2015 17.	have also constructed & commissioned STP within the plant premises to treat the domestic waste water. The treated water is being used onland for plantation and Green belt development.

form of temporary structure to be removed after the completion	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Of the project
	e removed after the completion	temporary

The project authorites must strictly adhere to the stipulations
and the State Government.
No further expansion or modifications in the plant shall carried out without prior approval of the ministry Environmental and Forests
The gaseous emissions from various process units shall conform to the load/mass based standards notified by this Ministry on 19 May ,1993 and standards prescribed from time to time .The State PCB may specify more stringent standards for the relevant parameters keeping in view the nature of the industry and its size and location.
industry and its size
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established in the downward direction as well as where maximum ground level concentration of PM10, SO2 and NOx are anticipated in consultation with the SPCB.Data on ambient being carried out regularly and stack emission shall be regularly submitted to quarterly and six more installed. Ambient Air Quality Monitoring stations and the ambient air quality including Ambient Noise Levels are not exceeding the standard stipulated. Monitoring of Ambient air quality and reports are being submitted to the APPCB

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5   Page   C	asis and records maintained as per the	-								kept well within the plant standards 85 dB(A) by providing noise control measures including acoustic hoods, silencers, enclosures etc.on all sources of noise generation.	The overall noise levels in and around the	Conform to the standards prescribed under GSR 422 (E) dated 19 May, 1993 and 31 <sup>st</sup> Dec,1993 or as amended from time to time.  The treated water shall be utilized for plantation purpose	this Ministry including its Regional office Bangalore and the SPCB/CPCB once in six months.
doctors, paramedical staff and all emergency arrangements including	Occupational health surveillance of the workers is being done on regular basis and records maintained as per the Factory Act. For this purpose, we have set up a dispensary inside the factory promise.	4 Near Colony Gate 54.83	Near Old Security Gate	Near MRSS Building	Near New Security Gate	# Location Nose levels dRA (ava.)	Average values of ambient noise levels for the period 01.10.2015 to 31.03.2016 are as under:	<ol> <li>Compressors are installed within enclosed rooms</li> <li>Speed limit restrictions for vehicles within plant premises</li> <li>Regular preventive maintenance of plant and machinery by competent staff.</li> </ol>	<ol> <li>All major industrial fans are fitted with silencers.</li> <li>DG sets are provided with acoustic enclosures &amp; installed in enclosed rooms.</li> </ol>	Stand 1.	+		e Continuous Ambient Air Quality Stations (CAAQMS) and the realtime data are continuously being transmitted to APPCB website on public domain.  Air Quality data are also displayed at the main for the continuously data.

	and	X The requisite funds shall be						drinking water supply and heath care	protection measures and safeguar EIA/EMP report. Further, the compar economic development programme.	ix The project proponent shall a	structures to harvest the rainwater for utilization season besides recharging the ground water table	viii The company shall de-		
	recurring cost/annum for environmental pollution control								protection measures and safeguards recommended in the EIA/EMP report. Further, the company must under take socio-economic development programme, educations programmes.	The project proponent shall also comply with all the environmental	structures to harvest the rainwater for utilization in the lean season besides recharging the ground water table.			
uncluding slag unit and mines). We also spent	As part of Environment management, we have so far invested around Rs.	We have planned to implement various schemes under the above heads to achieve their CSR objectives.	8) Need based social development activities	7) Social infrastructure development	5) Promoting gender equality and empowering women 6) Environmental sustainability	Combating HIV/ AIDS, malaria and other communicable diseases     Employment enhancing/ vocation 1	2) Reducing child mortality rate	Promotion of education  1) Promotion of education  1) Promotion of education	recommended in their EIA/EMP report. Also our company has undertaken various socio-economic development activities in the surrounding villages. The	We are possible in the pits.	tops water and storm water in cement plant. Rainwater is harvested from the storm water drains through recharge wells. In addition, rainwater in mining area is also harvested through 4 nos. of percolation tanks. The harvested water is recharged into groundwater. Rainwater is also collected	periodic health checkups are maintained at the health centre.	As part of Occupational health Surveillance programme, we are conducting 6 monthly health checkup of workers exposed to dust and noise. The health check up includes spirometry (lung function test),	also deployed one Mobile Health Care Van for providing medical aid to nearby villages.

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been accorded environmental clearance by Ministry and copies of the Ch clearance letter are available with SPCB and may also be seen at the		the ental onal	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitoring data on their website and shall update the same periodically. It shall simultaneously be sent to the regional office of MOEF at Bangalore. The respective zonal office of CPCB and SPCB. The criteria pollutant levels namely,PM 10 ,SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects shall be monitored and displayed at a convenient location near the gate of the company in the public domain.	A copy of the 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 of the proposal. The clearance letter shall be put on the web site of the company by the proponent.	measures to implement the conditions stipulated by the MOEF as well as the State Government. An implementation schedule for implementing all the conditions stipulated herein shall be submitted to the Regional Office of the Ministry at Banglore. The funds so provided shall not be diverted for any other purpose.
We have already advertised in two local newspapers (Vartha and Deccan Chronicle dated 23.09.2008) widely circulated in the region and copies of the same had been forwarded to the regional office. MoFF	We are regularly submitting the environmental statement in Form-V to the APPCB, MoEF and CPCB. Copy of the Environment Statement is also uploaded on the company website (www.jew.je)	We are regularly submitting the six monthly compliance reports and ambient air quality monitoring data. We are also uploading our six monthly compliance reports in the company's website, www.jsw.in.	Status of compliance and monitored data are regularly uploaded on the company's website (www.jswcement.in) and reports are being sent to the regional Office of the MoEF at Bangalore and the respective Zonal Office of CPCB and monitored data are being displayed through electronic display board at the main gate of the company in the public domain.	A copy of clearance letter had been sent to all the concerned and no suggestions and representation were received so far. We have also put the clearance letter on the website of the company.	Rs.105 Lakhs as recurring expenditure towards environment and pollution control during 2015-16.

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4	provisions of the Water (Prevention and Control of pollution) Act, 1974, The Air (Prevent5ion & Control of pollution) 1981 and The Environmental Protection Act, 1986, Hazardous Waste (management, handling and transboundary) Rules, 2008 and Public (Insurance) Liability Act, 1991 alongwith their amendments and Ruiles.		The ministry may revoke or suspend the clearance if Noted implementation of any of the above conditions is not satisfactory.	The project authorities shall inform the regional office as well Project has been comes the ministry date of financial closure and final approval of progress periodically. commencing the land development work.	Website of the MOEF 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 regional office at Bangalore.
	Agreed.	Noted.	Noted	Project has been completed and is ongoing and we are communicating our progress periodically.	

(Authorized Signatory)

JSW Cement Limited