JK Cement WORKS
MUDDAPUR
(Unit : J. K. Cement Ltd.)

Phone : +91-8350-289000
Fax : +91-8350-289001
E-mail : factory.muddapur@jkcement.com

Works : P.O. Muddapur - 587 122
Dist. Bagalkot (Karnataka) India

No. JKCW / ENV./E.C./ (PLANT)/11/04 Date- 25-10-2013

The Scientist-F
Ministry of Environment & Forest
Govt. of India, Paryavaran Bhavan
Lodhi Road, New Delhi- 110 003

Kind Attn: **Dr. P.L. Ahujarai Ji**

Sub: **Half Yearly Environmental Clearance Compliance report for the period from April-2013 to September-2013 for our Cement Plant (2.20 MTPA) Clinker & 2.50 MTPA OPC and Captive Power Plant (2 x 25 MW) and expanded Cement Grinding Unit (2.50 MTPA to 3.5 MTPA)**

Ref: **For existing plant MoEF Letter F. No. J-11011 / 489 / 2006-1A.II (I) / dtd. 14th September 2007 & for expanded Cement Grinding Unit MoEF Letter No. F.No. J-11011/263/2009-IA II (I) dated 21-06-2010**

Dear Sir,

With reference to your above cited environmental clearance letter of our Cement Plant, We are sending here with enclosed point wise compliance report for the period from **April-2013 to September-2013** for our Cement Plant (2.20 MTPA) Clinker & 2.50 MTPA OPC and Captive Power Plant (2 x 25 MW) and expanded Cement Grinding Unit (2.50 MTPA to 3.5 MTPA) at Village Muddapur, Taluka Mudhol, District Bagalkot, Karnataka for your kind information and record please.

Thanking you

Yours faithfully
For J.K. Cement Works

S.K. Jain
Head (O & M)

Encl. - Compliance report for both existing and expanded capacity, Socio-economic development report & six monthly AAQ monitoring, stack and fugitive emission report

CC: 1- The Addl. Principal Chief Conservator of Forest (C) - for kind information please
Ministry of Environment & Forest
Regional Office (South Zone), 4th floor, E&F Wings
Kendriya Sadan, 17th Main Road, IInd Block, Koramangala, Bangalore
2- Chairman, Central Pollution Control Board, Parivesh Bhavan, East Arjun Nagar, New Delhi
3- Scientist 'D' & Incharge,
Central Pollution Control Board, 1st & 2nd Floors, Nisarga Bhavan , A-Block, Thimmaiah Main Road, 7th D Cross, Shivanagar, Opp. Pushpanjali Theatre, Bengaluru –560 010
4- Member Secretary, Karnataka Pollution Control Board, Church Street, Bangalore
5- The Environmental officer, Karnataka State Pollution Control Board, Sector no.07, by pass road, Navanagar Bagalkot– 587102

Registered Office :
Kamla Tower, Kanpur - 208 001 (U.P.)
Ph. : 0512-2371478-81 Fax : 0512-2399854
E-mail : admin@jkcements.com
Website : www.jkcement.com

Central Marketing Office :
4th Floor, Krsna Chambers, Plot No. 11, Galaxy Garden
North Main Road, Koregaon Park, Pune - 411001
Ph. : 020 - 41350000 Fax : 020 - 41350099
E-mail : cmo.south@jkcement.com

Half Yearly Compliance Report for the period from April-2013 to September-2013

Name of Project: **J.K. Cement Works (Unit: J.K. Cement Ltd.), Muddapur (Karnataka)**

EC to expansion of Cement Grinding Unit (2.50 MTPA to 3.5 MTPA) at Village Muddapur, Taluka Mudhol, District Bagalkot, Karnataka

Ref: MoEF Letter No. F.No. J-11011/263/2009-IA II (I) dated 21-06-2010

A. SPECIFIC CONDITIONS:

Sr. No.	CONDITION	REPLY
i)	All other necessary statutory clearances from the concerned departments including No Objection Certificate from the Karnataka State Pollution Control Board (KSPCB) shall be obtained prior to commencement of construction and / or operation.	Complied, We have obtained all other necessary statutory clearances from concerned departments including No Objection Certificate from the Karnataka State Pollution Control Board (KSPCB).
ii)	Compliance to all the specific and general conditions stipulated for the existing plant by the Central/State Govt. shall be ensured and regular reports submitted to the Ministry and its regional Office at Bangalore.	Complying, We are complying with all the specific and general conditions stipulated for the existing plant and reports are being submitted to the Ministry and its Regional office at Bangalore. As per **Annexure-1**
iii)	Adequate pollution control measures viz. bag filters shall be provided to control emissions from various sources within 50 mg/Nm^3. At no time, particulate emissions from the grinding unit shall exceed 50 mg/Nm^3. Interlocking facility shall be provided in the pollution control equipments so that in the event of the pollution control equipment not working, the respective unit (s) is shut down automatically.	Complied, Adequate pollution control measures viz. bag filters have been provided to control emission from various sources within 50 mg/Nm^3 and no time, particulate emissions from the grinding unit is being exceeded 50 mg/Nm^3 and interlocking facility has been provided in the pollution control equipment.
iv)	Cement grinding shall be carried out in closed circuit and shall have highly efficient reverse pulse jet type bag filters.	Complying, Cement grinding is being carried out in closed circuit and highly efficient pulse jet type bag filters have been installed.
v)	Ambient air quality monitoring stations (AAQMS) shall be set up as per statutory	Complied, Ambient air quality monitoring stations (AAQMS) have been set up in

	requirement in consultation with the Karnataka Pollution Control Board (KSPCB). 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 shall be carried out regularly in consultation with KSPCB and must not exceed the standards stipulated under EPA or by the State Authorities. Monitoring reports for ambient air, stack and fugitive emissions shall be submitted to the Ministry's regional Office at Bangalore, Central Pollution Control Board (CPCB) and KSPCB half-yearly. The instrument used for ambient air quality monitoring shall be calibrated time to time.	consultation with the Karnataka Pollution Control Board (KSPCB). Ambient air quality including ambient noise levels is not exceeding the standards stipulated under EPA or by the State authorities. ambient air quality is being carried out regularly as per consent order and results are not exceeding the NAAQM standards. Air, stack and fugitive emission reports are being sent to Ministry's regional Office at Bangalore, Central Pollution Control Board (CPCB) and KSPCB half-yearly. Instruments, used for ambient air quality monitoring are being calibrated time to time. Six monthly AAQM, stack and fugitive emission monitoring report has been enclosed **As per Annexure-2**
vi)	The company shall install adequate dust collection and extraction system to control fugitive dust emissions at loading/unloading points and all the transfer points. Dust extraction system with bag filters at raw material handling areas shall be provided, collected in bag filters and recycled back to the process. Storage of raw material shall be in closed roof sheds. Water sprinkling arrangement shall be made in the raw material stock yard and cement bag loading areas.	Complied, We have installed adequate dust collection and extraction system to control fugitive dust emissions at loading/unloading points and transfer points. The dust, collected in bag filters is recycled back to the process. Raw material is being stored in closed roof sheds. We are sprinkling the water in raw material stock yard and cement bag loading areas through water tankers.
vii)	Secondary fugitive emissions shall be controlled and shall be within the prescribed limits and regularly monitored. Guidelines / Code of Practice issued by the CPCB in this regard shall be followed. Transportation of raw materials shall be covered means.	Complying, Secondary fugitive emissions has been controlled and monitored as per KSPCB requirement and results are well within the prescribed limits. We are following the Guidelines of CPCB. Transportation of raw materials is covered means.
viii)	Total ground water requirement shall not exceed 200 m^3/day. No waste water shall be generated from the cement grinding unit.	Complying, Total ground water is not abstracting more than 200 m^3/day. No waste water is being generated from the cement grinding unit.
ix)	All the solid waste viz. fly ash and dust etc. should be properly recycled and reutilized in the process itself.	Complying, All the solid waste viz. fly ash and dust etc. is being properly recycled and reutilized in the process itself.

x)	As proposed, green belt shall be developed in at least 34.5 ha of land area to mitigate the impact of fugitive emissions in and around the expansion project as per the CPCB guidelines in consultation with the local DFO.	Complying, We are continuously developing the green belt in surrounding the area to mitigate the impact of fugitive emissions.
xi)	Proper housekeeping and adequate occupational health programmes shall be taken up.	Complying, We are giving our best efforts for proper housekeeping. Adequate occupational health programmes are being taken up time to time.
xii)	All the recommendations made in the charter on Corporate Responsibility for Environment Protection (CREP) for the cement plants shall be implemented.	Recommendations made in the charter on Corporate Responsibility for Environment Protection (CREP) for the cement plants are being implemented.
xiii)	Rainwater harvesting measures shall be adopted. The company must also harvest the rainwater from the roof tops 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.	Complied, Rainwater harvesting measures in cement plant and residential colony have been adopted. We are harvesting the rainwater from the roof tops and storm water drains to recharge the ground water but rain fall is very less so rain water quantity is no more.
xiv)	At least 5% of the total cost of the project should be earmarked towards the corporate social responsibility and item-wise details along with time bound action plan should be prepared and submitted to the Ministry's Regional Office at Bangalore. Implementation of such program should be ensured accordingly in a time bound manner.	It has been prepared and submitted to the Ministry.
xv)	The company shall provide housing for construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	The project has been completed but during project, all facilities had been provided to labour.
B. GENERAL CONDITION:		
i)	The project authorities must strictly adhere to the stipulations made by the Karnataka State Pollution Control Board	Agree, We are adhering to the stipulations made by the Karnataka State Pollution Control Board and the State Government.

	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.	Agreed. We have obtained the permission for manufacturing the cement based adhesive via MoEF letter no J-11011/263/2009-IA II (I) dated 26 September 2012.
iii)	The gaseous emissions from various process units shall conform to the load/mass based standards notified by this Ministry on 19th may, 1993 and standard prescribed from time to time. The State Board may specify more stringent standards for the relevant parameters keeping in view the nature of the industry and its size and location.	Agreed. The gaseous emissions are well within the standard. The concerned SPCB also stipulates its more stringent standards in combined consent order.
iv)	At least four ambient air quality monitoring stations should be established in the downward direction as well as where maximum ground level concentration of PM10, SO_2 and NOx are anticipated in consultation with the SPCB. Data on ambient air quality and stack emission shall be regularly submitted to this Ministry including its regional Office at Bangalore and the SPCB/CPCB once in six Months.	Complied, We have established four (AAQMS) monitoring stations and data on ambient air quality and stack emission are being regularly submitted to the Ministry including its regional Office at Bangalore and the SPCB/CPCB once in six Months.
v)	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 form time to time. The treated wastewater shall be utilized for plantation purpose.	Complying, Waste water generated in power plant is treated in neutralization pit and Treated waste water of power plant is being used for gardening purpose. Quality of treated water is as per standard.
vi)	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 should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (daytime) and 70 dBA (nighttime).	Complying, The noise levels in and around plant are well within the standards (85 dBA) by providing noise control measures. The ambient noise levels are also within the standards prescribed under EPA Rules, 1989 viz. 75 dBA (daytime) and 70 dBA (nighttime).

Vii)	Occupational health surveillance of the workers should be done on a regular basis and records maintained as per the Factory Act.	Complying, Occupational health surveillance of the workers are being done on a regular basis and records maintained as per the Factory Act.
viii)	The company shall develop surface water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.	Complied, Surface water harvesting structures has been developed to harvest the rain water for utilization in the lean season besides recharging the ground water table
ix)	The Project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report. Further, the company must undertake socio-economic development activities in the surrounding villages like community development programme, educational programmes, drinking water supply and health care etc.	Complying, We are also complying with all environmental protection measures and safeguards recommended in the EIA/EMP report. Company is involved in doing socio-economic development activities in the surrounding villages. **As per Annexure-3**
X)	As proposed, Rs 431 lakhs and Rs. 117.95 lakhs shall be earmarked towards capital cost and recurring cost/annum for environment pollution control measures to implement the conditions stipulated by the Ministry of Environment and Forests 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 Bangalore. The funds so provided shall not be diverted for any other purpose.	Agreed
xi)	A copy of 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 the proposal. The clearance letter shall also be put on the web site of the company by the proponent.	Complied, A copy of clearance letter had been sent by us to concerned, No suggestions and representation received. The clearance letter has been put on the web site of the company.
xii)	The project proponent shall upload the status of compliance of the stipulated	Complying, Status of compliance and monitored data has been uploaded on

	environment clearance 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 the MoEF at Bangalore, The respective Zonal Office of CPCB and the CECB. The criteria pollutant levels namely; PM_{10}, SO_2, NO_x (ambient for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	company website and reports are being sent to the regional Office of the MoEF at Bangalore and the respective Zonal Office of CPCB. Monitored data is being displayed at near the main gate of the company in the public domain.
xiii)	The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional Office of this Ministry at Bangalore/CPCB/SPCB shall monitor the stipulated conditions.	Agreed, We are submitting six monthly compliance reports of the conditions, stipulated in environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional Office of this Ministry at Bangalore/CPCB/SPCB.
xiv)	The environmental 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, 19086, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental conditions and shall also be sent to the	Complying, Environmental statement report in Form-V is being sent regularly to the concerned State Pollution Control Board. Environmental Statement Report of J.K. Cement Works, Village- Muddapur, Dist.- Bagalkot (Karnataka) for the financial year April-2012 to March-2013 has been submitted to board via letter no. JKCW/ENV./CFO (Plant)/5/11 dated 30-07-2013**.** Status of compliance of

	respective regional Office of the MoEF at Bangalore by e-mail.	environmental conditions is being sent to the respective regional Office of the MoEF at Bangalore by e-mail and has been put on company website.
xv)	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 SPCB 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 at Bangalore.	Complied, Copy of environmental clearance has been sent to KSPCB and it has been advertised in two local newspapers that are widely circulated in the region of which one was in the vernacular language of the locality concerned and copy of same has been forwarded to the Regional Office at Bangalore.
xvi)	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 commencing the land development work.	Project already completed

We hope, you will find our reply in order.

With best regards,

Yours faithfully
For J.K. Cement Works, Muddapur (Karnataka)

S.K. Jain
(Head-Q & M)

Annexure-1

Name of Project: **M/s J.K. Cement Works, Muddapur (Karnataka)**

Ref: - MoEF Letter F. No. J-11011 / 489 / 2006-1A.II (I) / dtd. 14th September 2007

EC to Cement Plant (2.20 MTPA) Clinker & 2.50 MTPA OPC and Captive Power Plant (2 x 25 MW) at Village- Lokapur, Mudhol, District Bagalkot, Karnataka

i.	Electrostatic precipitator (ESP) to cooler, Bag House to Raw mill, Bag filter to coal kiln burner and pre calciner shall be provided. On line gas analyzer for O_2, CO, emission at kiln inlet and power House out let and on line dust monitor to kiln and cooler shall be provided. A closed clinker system shall be adopted to control fugitive emission. Water sprinkler shall be done in raw material stock yard and cement bag loading areas.	Complied. Electrostatic precipitator (ESP) to cooler, Bag House to Raw mill, Bag filter to coal kiln burner and pre calciner has been provided. On line gas analyzer for O_2, CO, emission at kiln inlet and power House out let and on line dust monitor to kiln and cooler have been provided. Clinker is stored in covered silo. Water is sprinkling done in raw material stock yard and cement bag loading areas.
ii.	The total water requirement from Ghatprabha River source shall not exceed 1046.4 m^3/day. The treated waste water shall be recycled and reused in the process and or for dust suppression, green belt development and other plant related activities etc. The Effluent generated by CPP will also be used in the cement manufacturing process. No process waste water shall be discharged outside the factory premises and zero discharge shall be adopted. Domestic effluent treated in sewage treatment plant (STP) shall be used for green belt development within the plant and colony areas.	Complied. We are not abstracting water more than 1046.4 m^3/day from Ghatprabha River. The treated waste water/treated Effluent of CPP is being used for dust suppression, green belt development, other plant related activities, cement manufacturing process etc. so there is no process waste water and zero discharge is being adopted. Domestic effluent is being treated in STP and treated water is being used for greenbelt development within the plant and colony areas.
iii.	The fly ash and bottom ash generated from the power plant shall be used in the process itself for manufacturing PPC. All the cement dust collected from the pollution control devices shall be recycled and reuse in the process and used for cement manufacturing. The fly ash utilization shall be as per the provision stipulated in the fly ash notification of September, 1999 and amended in august, 2003. STP sludge shall be used as manure	Complied, The fly ash and bottom ash generated from the power plant is being used in the process during manufacturing of PPC. All the cement dust collected from the pollution control devices is being recycled and reuse in the process and used for cement manufacturing. The fly ash utilization is being as per

	for green belt development. Used oil shall be sold to authorized recycler / re processor only.	the provision stipulated in the fly ash notification of September, 1999 and amended in august, 2003. STP's Sludge is being used as manure for green belt development. Some quantity of Used oil is being used in lubrication purpose in cement plant and rest of quantity is sold out to authorize recycler / re processor only.
iv.	High calorific hazardous waste shall be utilized in the cement plant.	Will be utilized soon. We have obtained the permission from KSPCB for co-processing the plastic waste and municipal solid waste via letter no. PCB/SEO/EO-1/WMC/2012-13/3576 dated 10 September 2012.
v.	As proposed in EIA / EMP, green belt shall be developed in 80 ha. (30%) out of total 256.3 Acres. As per the CPCB Guidelines to mitigate the effect of air emission in consultation with local DFO.	As a part of green belt development, We have received a certificate from forest department via. Letter no. B2.GFL/Mines/2007-08/597 dated 30-08-2007 regarding availability of local Flora and Fauna in Mudhol Taluk. We have planted a number of plants in and around cement plant, colony and mines area and covered a wide area from plantation out of total 256.3 Acres.
General Condition :		
i.	The project authorities shall adhere to the stipulation made by Karnataka State Pollution Control Board and State Government.	Agreed
ii.	No further Expansion or modification of the plant shall be carried out without prior approval of Ministry or rules made there under.	Agreed. We have obtained environmental clearance for expansion of Cement Grinding Unit (2.50 MTPA to 3.5 MTPA) via. MoEF Letter No. F.No. J-11011/263/2009-IA II (I) dated 21-06-2010.

iii.	The gaseous and particulate matter emission from various units shall confirm to the standards prescribed by the KSPCB. Interlocking facilities shall be provided in the pollution control so that in the event of the pollution control equipment not working, the respective unit(s) is shutdown automatically.	Complied, The gaseous and particulate matter emissions from various units are within the standard prescribed by the KSPCB. Interlocking facilities have been provided in most of the pollution control equipments.
iv.	One Ambient Air Quality Monitoring station shall be installed in down wind direction. Ambient air quality including Ambient Noise Level shall not exceed the standard stipulated under EPA or by the state authorities. Monitoring of Ambient air quality and stack emission shall be carried out regularly in consultation with KSPCB and report submitted to the KSPCB quarterly and to the Ministry Regional Office at Bangalore Half Yearly.	Complied, we have installed total 4 Nos. of monitoring station in cement plant, out of them, one is in down wind direction and ambient air quality including ambient Noise level is not exceeding the standard stipulated under EPA or by the state authorities. Ambient air quality and stack emission is being monitored as per consent order and regular reports are being submitted to the KSPCB quarterly and to the Ministry Regional Office at Bangalore Half Yearly.
v.	The Company shall install adequate dust collection and extraction system to control fugitive dust handling (Unloading, conveying, transporting, and stacking) vehicular movement, bagging and packing areas etc. Asphalting / concreting of roads and water spray all around the stock yard and loading / unloading areas shall be carried out to control fugitive emission. Covered sheds for storage of raw materials and fully covered conveyors for transportation of materials shall be provided besides coal, cement, fly ash and clinker shall be stored in silos.	Complied, Pollution control equipments have been provided at all transfer points of raw material conveying, stacking, and packing of finish product for controlling the fugitive dust emission. Asphalt has been done on maximum roads. Water spraying is being carried out to control fugitive emission all around the stock yard and loading / unloading areas. Raw materials are being stored in covered sheds and Fully covered conveyors have been provided for transportation of all the raw materials. Coal is stored in covered shed and cement, fly ash and clinker is stored in covered silos.
vi.	Prior permission from the State Ground water Board, Central Ground Water Authority (SGWB / CGWA) regarding drawl of ground water shall be obtained.	Ground water abstract permission has been obtained from Central / State ground water Authority vide letter No. 21-4 SWR/ CGWA/ 2008/ 1568 dtd. 11.12.2008. It was valid

		upto 28-11-2010 so it has been renewed via letter no. 21-4(70)/SWR/CGWA/2008-1489 dated 10/10/2011.
vii.	The company must harvest the rain water from the roof tops and storm water drains recharge the ground water and use the same water for the various activities of the project to conserve fresh water.	Complied, We are harvesting the rain water from roof tops. Storm water drains are recharging the ground water in colony and cement plant but rain fall is not more. So no more water is stored in the rain water recharging pit.
viii.	The company shall undertake eco-development measures including community welfare measures in the project areas.	We are undertaking eco-development measures including community welfare measures.
ix.	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 confirm to the standards prescribed under Environments (Protection) Act, 1986 Rules 1989 viz 75 dBA (Day Time) and 70 dBA at (Night Time).	Being complied. The overall noise levels in and around the plant area is well within the standards (85 dBA) by providing noise control measures. The ambient noise levels are well within the standard prescribed under Environments (Protection) Act, 1986 Rules 1989.
x.	All recommendations made in the Corporate Responsibilities for Protection (CREP) for cement plants shall be implemented.	Complying, Recommendations made in the charter on Corporate Responsibility for Environment Protection (CREP) for the cement plants are being implemented.
xi.	Proper housekeeping and adequate occupational health program shall be taken up.	Complying, Proper housekeeping and adequate occupational health programmes are being taken up.
xii.	A separate Environmental Management cell to carry out various management and monitoring function shall be set up under control of Sr. Executive.	Complied, A separate Environmental Management cell to carry out various management and monitoring function has been set up under control of Sr. Executive.
xiii.	Rs. 8.70 crores earmarked for environmental pollution measures shall be suitable used to implement the condition stipulated by the Ministry of Environment and Forest as well as the State Government. The fund so provided shall not be diverted for any other purpose.	Complied, As a part of environmental pollution control measures, we have invested above earmarked amount.
xiv.	The Regional of this Ministry at Bangalore / CPCB	We are agreed and six monthly

	/ KSPCB shall monitor the stipulated condition. A six monthly compliance report and monitor data along with statistical interpretation shall be submitted to them regularly.	compliance report and ambient air quality monitoring data are being submitted regularly.
xv.	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 concerned authorities and the date of commencing the land development work.	Project has been completed.
xvi.	The project proponent shall inform the public that the project has been accorded environmental clearance by Ministry and copies of the clearance letter are available with the Karnataka Pollution Control Board / committee and may be seen at website of the Ministry of Environment and Forests at http: www.envfor.nic.in. This should be advertised within seven days from the date of issues of 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 shall be forwarded to the regional office at Bangalore.	Complied, it had been advertised within seven days from the date of issues of clearance letter in two local newspapers that were widely circulated in the region and a copy of the same had been forwarded to the regional office, MoEF.
6.0	The Ministry or any other competent authority may stipulate any further condition(s) on receiving reports from the project authorities. The above conditions shall be monitored by the Regional offices of this Ministry located of Bangalore.	We agreed
7.0	The Ministry may revoke or suspend the clearance if implementation of any of the above condition is not satisfactory.	We agreed
8.0	Any other condition or alteration in the above conditions shall to be implemented by the project authorities in a time bound manner.	Agreed
9.0	The above conditions shall be enforced, inter-alia under the provisions of The Water (Prevention and control of pollution) Act, 1974, the Air Act. 1981, The Environment Protection Act 1986 and	Agreed

	The Public Liability Insurance Act, 1991 along with their amendments and rules.	

Thanking you,

Yours Faithfully
J.K. Cement Works, Muddapur (Karnataka)

S.K. Jain
(Head-O&M)

Expenditure incurred on Socio-economic development during April 2013 to September 2013

S.N.	Amount (Rs.)	Expense on
1	625257	Running of school for imparting the education to rural children and employees children
2	126260	Prime Minister's Relief Fund Uttrakhand 2013 Misc.
3	5000	Shri Muranal Siddeshwar Jatra Mahotsav MetaguddaPandappa G. Bantanur Shri Murnal Siddeshwar Jathra
4	50000	Muppin Siddeshwar Jhatra Petlur 24.04.13-26.04.13Muppin Siddeshwar Trust Committee Petlur Misc.
5	5000	Shri Maruteshwar Fair Festival 27.04.2013 HebbalSatish T Nyamgoudra Drama Donation Miscellenious
6	7000	Balumama Maharaj Jathra at Ningapur 21 & 22 MayGurappa Irappa Asangi Ningapur Miscellenious
7	25000	Police Benevolvement Fund PaymentSuprintendent of Police, Bagalkot Benevolvement
8	10000	Laxmidevi Jathra of Bhajantri Community MetagudAshok S. Bhajantri Laxmi Devi Jathra Metagud
9	15000	Padayatra Allandi to Pandarpur Dindi Yatra HalkiB. D. Kencharaddi Shri Pandurang Sadbhakt Mandali
10	1000	Adv of Ananth Bhat agst armed flags
11	10000	Annaprasad Vitran on Festival of Shri RaghavendraShri Guru Raghavendra Sadbhakta Mandali Misc.
12	5000	Shri Pandurang Seva Samiti Dindi Utsav Mahaprasad,P. H. Hosamani Village Ningapur 23.08.2013 Misc.
13	6000	Bomman Budni Karemma Devi Jhatra 02.09 to 04.09.13Basappa Hyavagal Social Development Expenses Misc.
14	25000	Shri Guru Sayyadsaheb Urus 02-06.09.13 AnnaprasadR. M. Makandar Social Development Miscellenious
15	24750	Expenses agst conducting meeting by konded adjuste
16	1000	for ganesh festival
Total amount (Rs.)= 941267		

HALF YEARLY AMBIENT AIR QUALITY MONITORING REPORT (SO_2, NO_x, PM 10, SPM), APRIL - 2013 TO SEPTEMBER - 2013

(ALL VALUES IN MICROGRAMS / CUBIC METER)

Month	Sl. No.	Date	Week	SO_2				NO_x				PM 10				SPM			
				Locations				Locations				Locations				Locations			
				A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D
APRIL	1	1/4/2013	1st	11.2	10.2	11.5	11.0	13.0	11.2	13.3	12.0	61.0	67.2	64.8	59.8	126.3	139.6	133.5	123.9
	2	4/4/2013		12.5	11.5	10.7	13.0	14.0	12.5	12.3	14.5	64.2	70.0	67.1	62.1	132.3	144.5	138.4	129.3
	3	8/4/2013	2nd	12.7	11.8	11.7	13.5	13.2	13.0	13.0	15.8	67.0	69.0	63.4	65.7	138.3	141.9	131.7	135.2
	4	12/4/2013		11.7	11.3	11.0	13.0	13.0	12.3	12.8	14.5	70.2	65.4	67.0	61.4	143.4	134.7	138.3	126.8
	5	16/4/2013	3rd	10.8	13.8	13.0	12.0	13.7	15.0	14.8	15.7	65.7	70.1	71.2	64.2	135.0	144.5	146.5	132.2
	6	19/4/2013		13.0	11.2	12.0	12.5	14.8	13.0	13.5	13.8	62.7	64.2	65.4	60.3	130.0	131.9	134.7	125.9
	7	23/4/2013	4th	11.7	12.0	13.8	13.0	13.7	13.3	15.8	14.3	59.4	60.8	67.0	63.3	122.7	125.4	137.6	130.3
	8	26/4/2013		11.7	11.0	12.5	13.7	13.5	12.0	14.0	15.7	63.3	66.3	69.0	59.8	130.2	136.3	141.8	124.7
Average				**11.9**	**11.6**	**12.0**	**12.7**	**13.6**	**12.8**	**13.7**	**14.5**	**64.2**	**66.6**	**66.9**	**62.1**	**132.3**	**137.3**	**137.8**	**128.5**
Min				**10.8**	**10.2**	**10.7**	**11.0**	**13.0**	**11.2**	**12.3**	**12.0**	**59.4**	**60.8**	**63.4**	**59.8**	**122.7**	**125.4**	**131.7**	**123.9**
Max				**13.0**	**13.8**	**13.8**	**13.7**	**14.8**	**15.0**	**15.8**	**15.8**	**70.2**	**70.1**	**71.2**	**65.7**	**143.4**	**144.5**	**146.5**	**135.2**
MAY	1	2/5/2013	1st	11.0	11.8	12.5	14.0	14.2	14.0	14.8	15.8	68.2	64.5	65.7	63.9	141.4	133.0	136.1	131.9
	2	6/5/2013		11.7	10.7	10.8	12.2	14.2	13.3	13.0	14.8	72.1	68.5	69.9	66.8	150.5	142.8	144.3	138.3
	3	9/5/2013	2nd	9.8	13.8	13.2	15.0	11.0	15.3	14.7	17.5	68.8	65.4	72.7	62.5	142.1	135.6	149.9	129.3
	4	13/5/2013		11.8	11.7	14.3	12.8	13.0	13.7	16.2	14.8	65.1	70.1	75.3	65.3	135.1	144.6	155.1	136.6
	5	16/5/2013	3rd	10.5	13.0	13.0	14.0	12.2	15.0	16.5	15.8	61.1	73.0	70.7	69.3	126.8	150.3	146.1	143.5
	6	20/5/2013		12.8	12.3	13.0	11.7	13.8	14.3	14.8	13.7	64.1	69.5	73.6	64.7	132.3	143.5	151.3	134.6
	7	23/5/2013	4th	13.7	12.2	11.7	14.7	15.3	13.8	13.3	16.7	68.0	73.8	70.1	62.6	143.0	153.1	146.6	131.1
	8	27/5/2013		11.3	10.7	13.7	12.2	13.2	13.2	15.7	13.3	63.6	67.0	65.5	59.5	132.0	139.2	136.2	124.1
Average				**11.6**	**12.0**	**12.8**	**13.3**	**13.4**	**14.1**	**14.9**	**15.3**	**66.4**	**69.0**	**70.4**	**64.3**	**137.9**	**142.7**	**145.7**	**133.7**
Min				**9.8**	**10.7**	**10.8**	**11.7**	**11.0**	**13.2**	**13.0**	**13.3**	**61.1**	**64.5**	**65.5**	**59.5**	**126.8**	**133.0**	**136.1**	**124.1**
Max				**13.7**	**13.8**	**14.3**	**15.0**	**15.3**	**15.3**	**16.5**	**17.5**	**72.1**	**73.8**	**75.3**	**69.3**	**150.5**	**153.1**	**155.1**	**143.5**
JUNE	1	1/6/2013	1st	11.5	10.5	11.8	11.7	13.2	12.8	12.8	14.0	61.6	70.1	64.3	68.1	129.1	144.9	134.1	142.2
	2	5/6/2013		12.7	11.0	13.0	12.0	14.7	11.8	14.5	13.8	65.8	66.9	59.7	70.8	136.3	138.1	124.3	146.6
	3	8/6/2013	2nd	10.5	11.2	12.2	13.3	12.7	13.3	13.7	15.5	60.8	63.3	67.0	62.5	126.8	132.2	139.7	130.9
	4	12/6/2013		12.0	12.2	11.8	12.5	13.8	14.0	14.5	15.2	58.3	67.6	71.5	59.4	122.5	140.8	148.5	126.7
	5	15/6/2013	3rd	13.0	10.2	13.3	11.2	15.0	12.7	15.8	12.8	62.5	72.3	65.6	63.5	130.2	150.1	139.4	131.4
	6	19/6/2013		11.3	12.3	11.2	13.7	13.2	13.7	13.2	16.2	66.0	76.1	69.1	61.0	138.1	158.0	143.6	126.5
	7	22/6/2013	4th	12.2	11.2	12.7	11.5	14.7	13.3	15.5	13.5	61.1	67.5	63.5	58.1	127.7	140.4	132.0	120.2
	8	26/6/2013		11.3	14.0	14.5	13.7	13.2	15.3	17.7	15.8	58.6	71.8	59.8	61.3	122.1	148.5	124.8	128.5
Average				**11.8**	**11.6**	**12.6**	**12.4**	**13.8**	**13.4**	**14.7**	**14.6**	**61.8**	**69.5**	**65.0**	**63.1**	**129.1**	**144.1**	**135.8**	**131.6**
Min				**10.5**	**10.2**	**11.2**	**11.2**	**12.7**	**11.8**	**12.8**	**12.8**	**58.3**	**63.3**	**59.7**	**58.1**	**122.1**	**132.2**	**124.3**	**120.2**
Max				**13.0**	**14.0**	**14.5**	**13.7**	**15.0**	**15.3**	**17.7**	**16.2**	**66.0**	**76.1**	**71.5**	**70.8**	**138.1**	**158.0**	**148.5**	**146.6**

JULY	1	2/7/2013	1st	11.2	13.2	13.8	12.2	13.7	15.3	16.2	14.8	67.3	70.9	75.3	62.6	141.3	151.5	157.0	134.2
	2	5/7/2013		9.7	11.2	10.7	13.3	11.7	13.0	11.7	15.2	62.8	59.7	62.3	55.2	128.6	124.7	129.4	115.0
	3	9/7/2013	2nd	12.0	10.3	11.7	12.0	14.2	13.3	13.2	13.0	68.0	55.3	66.1	59.5	140.7	116.1	137.0	123.8
	4	12/7/2013		11.3	12.3	12.2	12.7	13.2	14.8	14.2	15.0	58.4	53.0	62.6	55.4	120.0	112.2	129.0	116.9
	5	16/7/2013	3rd	13.2	11.2	10.5	14.3	15.2	13.0	12.3	16.7	63.1	60.5	67.8	60.9	132.1	127.4	142.0	128.4
	6	19/7/2013		11.8	10.8	12.7	13.8	14.2	12.7	15.3	17.0	59.4	52.4	71.0	60.2	123.6	114.0	147.9	120.4
	7	23/7/2013	4th	10.7	9.8	11.5	11.0	11.8	11.0	13.7	12.7	54.2	56.8	65.5	50.2	115.5	120.1	137.0	106.6
	8	26/7/2013		12.2	11.8	10.3	11.3	14.0	13.0	11.7	12.7	46.7	52.0	60.5	43.1	99.5	108.9	126.2	96.2
Average				**11.5**	**11.3**	**11.7**	**12.6**	**13.5**	**13.3**	**13.5**	**14.6**	**60.0**	**57.6**	**66.4**	**55.9**	**125.2**	**121.9**	**138.2**	**117.7**
Min				**9.7**	**9.8**	**10.3**	**11.0**	**11.7**	**11.0**	**11.7**	**12.7**	**46.7**	**52.0**	**60.5**	**43.1**	**99.5**	**108.9**	**126.2**	**96.2**
Max				**13.2**	**13.2**	**13.8**	**14.3**	**15.2**	**15.3**	**16.2**	**17.0**	**68.0**	**70.9**	**75.3**	**62.6**	**141.3**	**151.5**	**157.0**	**134.2**
AUGUST	1	1/8/2013	1st	12.0	14.0	12.5	13.5	13.8	16.7	13.7	16.0	55.1	61.9	60.0	51.5	116.0	129.3	126.5	107.8
	2	5/8/2013		13.0	12.2	11.2	14.3	15.5	13.8	12.7	15.8	52.2	57.7	64.6	47.2	110.2	122.3	134.6	100.1
	3	8/8/2013	2nd	11.0	13.0	10.3	11.8	13.0	15.8	12.7	14.8	46.3	61.6	68.1	50.8	98.3	128.9	142.3	108.8
	4	12/8/2013		11.8	10.5	14.2	11.3	15.2	12.2	17.7	14.7	42.8	55.0	60.9	53.6	92.4	117.5	127.9	113.1
	5	16/8/2013	3rd	13.0	11.2	11.2	11.2	16.0	13.3	14.2	13.3	47.1	50.3	54.9	60.6	100.0	107.2	117.3	130.4
	6	20/8/2013		10.8	12.3	9.8	12.7	12.8	14.5	11.7	14.8	50.7	54.7	59.0	46.7	108.2	115.0	124.9	100.6
	7	23/8/2013	4th	12.3	10.0	13.0	14.8	14.3	13.0	16.2	18.0	54.8	58.7	63.4	51.0	117.9	123.3	132.1	108.4
	8	27/8/2013		10.8	12.0	13.0	13.8	13.0	14.0	17.0	16.0	60.0	63.1	66.9	55.2	126.6	132.2	140.1	117.3
Average				**11.9**	**11.9**	**11.9**	**12.9**	**14.2**	**14.2**	**14.5**	**15.4**	**51.1**	**57.9**	**62.2**	**52.1**	**108.7**	**121.9**	**130.7**	**110.8**
Min				**10.8**	**10.0**	**9.8**	**11.2**	**12.8**	**12.2**	**11.7**	**13.3**	**42.8**	**50.3**	**54.9**	**46.7**	**92.4**	**107.2**	**117.3**	**100.1**
Max				**13.0**	**14.0**	**14.2**	**14.8**	**16.0**	**16.7**	**17.7**	**18.0**	**60.0**	**63.1**	**68.1**	**60.6**	**126.6**	**132.2**	**142.3**	**130.4**
SEPTEMBER	1	2/9/2013	1st	10.8	12.8	9.8	13.7	12.3	15.2	11.7	16.8	56.7	76.5	84.0	72.3	151.9	196.9	200.7	220.1
	2	5/9/2013		11.8	14.2	12.5	11.8	13.5	16.5	15.0	14.7	47.8	78.2	66.3	64.7	182.5	206.3	190.9	172.4
	3	10/9/2013	2nd	9.7	11.8	11.0	14.0	11.7	14.2	13.0	16.7	37.3	50.6	47.0	41.5	106.6	167.1	146.6	123.1
	4	13/9/2013		9.5	11.2	13.7	10.7	12.0	13.8	16.5	12.7	43.3	65.9	58.6	52.9	125.7	195.6	164.9	158.2
	5	17/9/2013	3rd	11.8	9.3	12.7	12.8	14.2	11.2	15.3	15.5	27.0	52.1	77.0	37.3	103.6	145.7	205.6	124.4
	6	20/9/2013		9.5	10.7	12.8	9.3	12.3	13.3	16.5	12.0	40.3	64.6	84.8	46.4	149.3	177.4	226.3	162.7
	7	24/9/2013	4th	11.2	12.0	10.7	14.5	13.5	15.5	12.8	17.8	51.2	70.5	77.1	57.8	169.3	196.7	195.4	187.6
	8	27/9/2013		12.0	9.7	9.7	12.5	15.0	12.0	12.2	14.7	34.5	58.3	48.4	31.0	108.7	137.5	141.2	88.0
Average				**10.8**	**11.5**	**11.6**	**12.4**	**13.1**	**14.0**	**14.1**	**15.1**	**42.3**	**64.6**	**67.9**	**50.5**	**137.2**	**177.9**	**183.9**	**154.6**
Min				**9.5**	**9.3**	**9.7**	**9.3**	**11.7**	**11.2**	**11.7**	**12.0**	**27.0**	**50.6**	**47.0**	**31.0**	**103.6**	**137.5**	**141.2**	**88.0**
Max				**12.0**	**14.2**	**13.7**	**14.5**	**15.0**	**16.5**	**16.5**	**17.8**	**56.7**	**78.2**	**84.8**	**72.3**	**182.5**	**206.3**	**226.3**	**220.1**
Half Yearly Average				**11.6**	**11.6**	**12.1**	**12.7**	**13.6**	**13.6**	**14.2**	**14.9**	**57.6**	**64.2**	**66.5**	**58.0**	**128.4**	**141.0**	**145.4**	**129.5**

Note: A= Near Addministration B= NearLime stone crusher C= Near Cement weigh bridge D= Near Reservoir tank (CPP)

Stack monitoring report of Cement plant & 2x25 MW Thermal power plant for April-2013 to September-2013

Sl. No.	Month/ Year	Stack locations																	
		Slag mill	Cement mill - 1	Cement mill - 2	RM Transport System	Coal Mill Bag Filter	Clinker Storage tank	Kiln / Raw Mill	Cooler ESP	Packing Plant No-1	Packing Plant No-2	Packing Plant No-3	Packing Plant No-4	Clinker Transport Syste	CM Separator No-1	CM Separator No-2	Thermal Power Plant	Coal Crusher	Lime Stone Crusher Stack
1	Apr-13	23.36	24.2	33.60	29.12	26.78	27.82	8.95	12.13	25.24	30.57	17.65	15.75	20.88	30.58	24.95	36.91	28.52	22.53
2	May-13	33.05	19.22	26.19	27.56	25.61	29.35	10.17	11.76	22.64	28.2	23.67	26.74	35.81	20.44	17.11	38.61	31.04	27.42
3	Jun-13	23.52	32.93	20.27	28.22	26.29	41.6	12.81	14.21	25.08	21.58	33.87	24.58	33.42	24.14	30.29	42.13	28.04	30.39
4	Jul-13	29.80	21.8	26.93	26.2	23.18	18.03	7.95	15.72	29.15	16.44	21.87	17.29	26.89	19.31	28.92	37.6	32.3	27.97
5	Aug-13	42.16	22.87	26.42	19.77	23.53	23.76	11.16	14.55	26.87	20.49	29.55	24.61	34.72	19.53	30.64	44.28	28.01	21.37
6	Sep-13	32.06	28.43	34.85	32.76	30.1	44.28	11.72	15.86	23.84	29.33	30.93	19.5	34.49	37.97	23.26	38.11	32.16	23.67
Average Value		**30.66**	**24.91**	**28.04**	**27.27**	**25.92**	**30.81**	**10.46**	**14.04**	**25.47**	**24.44**	**26.26**	**21.41**	**31.04**	**25.33**	**25.86**	**39.61**	**30.01**	**25.56**
SD		**7.00**	**4.97**	**5.38**	**4.29**	**2.52**	**10.22**	**1.80**	**1.75**	**2.30**	**5.72**	**6.18**	**4.50**	**5.90**	**7.52**	**5.22**	**2.92**	**2.05**	**3.55**

Note: RMT= Raw material transport, CT = Clinker transport and SD= Standard deviation

Fugitive Emission Monitoring Report of Cement plant for the month of April-2013 to September-2013

SL. NO.	MONTH/YEAR	SPM ($\mu g/m^3$)					
		Gypsum Yard	Slag Yard	Flyash Yard	Cement Mill Area	Lime stone Unloading Hopper	Lime stone crushing site
1	**Apr-13**	1467.5	1538.5	1431.3	1593.7	1745.2	1353.3
2	**May-13**	1583.9	1606.8	1373.4	1491.1	1503.3	1231.9
3	**Jun-13**	1649.5	1565.8	1161.2	1296.0	1322.0	1329.9
4	**Jul-13**	1188.2	1424.8	1408.2	1669.6	1568.8	1239.6
5	**Aug-13**	980.5	1194.4	1042.0	822.2	897.3	894.4
6	**Sep-13**	1117.3	1105.2	1593.4	1369.1	755.2	1264.7
Half yearly average=		**1331.13**	**1405.92**	**1334.91**	**1373.60**	**1298.63**	**1218.98**