

IK Cernent WORKS

MUDDAPUR

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

(Unit: J.K. Cement Ltd.)
CIN: L17229UP1994PLC017199

No. JKCW / ENV. /E.C. / (PLANT)/11/11

Date- 22-05-2017

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

Sub: Half Yearly Environmental Clearance Compliance report for the period from October-2016 to March-2017 for JK Cement Works, Village- Muddapur, Taluka- Mudhol, District- Bagalkot (Karnataka)

Ref: MoEF Letter F. No. J-11011 / 489 / 2006-1A.II (I) / dtd. 14-09-2007, MoEF Letter No. F.No. J-11011/263/2009-IA II (I) dated 21-06-2010, MoEF letter no. J-11011/263/2009-IA II (I) dated 26-09-2012 and MoEF office memorandum dated 06 April 2011

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 October-2016 to March-2017 for our JK Cement Works (Cement Plant -2.20 MTPA Clinker & 2.50 MTPA OPC and Captive Power Plant 2 x 25 MW, expanded Cement Grinding Unit i.e. Slag cement (2.50 MTPA to 3.5 MTPA) and manufacturing of cement based adhesive without increasing the production capacity at Village Muddapur, Taluka Mudhol, District Bagalkot, Karnataka for your kind information and record please.

Thanking you

Yours faithfully For J.K. Cement Works

RBM Tripathi (Unit Head)

Encl. - Compliance report for both existing and expanded capacity, Compliance report of tile fixer adhesive, Socio-economic development report & six monthly manual AAQ monitoring, stack, fugitive emission, treated effluent monitoring, noise monitoring, continuous emission monitoring and CAAQM report CC:

- 1- The Addl. Principal Chief Conservator of Forest (C), 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
- 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



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Environmental Clearance Compliance Report for the period from October, 2016 to March, 2017

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

A. SPECIFIC CONDITIONS:

S.N.	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) prior to commencement of construction and / or operation. We are renewing consent to operate from Karnataka Pollution Control Board every year.
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 ensuring that we are complying with all the specific and general conditions stipulated for the existing plant by the Central/State Govt. and six monthly compliance reports are being submitted to the Ministry and its Regional office at Bangalore.
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/Nm³ and at no time, particulate emissions from the grinding unit is being exceeded 30 mg/Nm³ 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.	Complied, 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 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 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	Complied, Ambient air quality monitoring stations (AAQMS) have been set up in 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 in consultation with KSPCB and results are not exceeding the NAAQM standards, 2009. Ambient air, stack and fugitive emission monitoring reports are being submitted to

for ambient air, stack and fugitive emissions shall be submitted to the Ministry's regional Central Pollution Control Board (CPCB)	
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. KSPCB half-yearly. The Instruments, using for ambient air quality/stack/noise/fugity monitoring are being calibrated time to time.	and ised tive
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 collection and extraction system to collection and extraction system to collected in bag filters is recycled back process. Raw material is being stored in conference of sheds. We are sprinkling the water in material stock yard and cement bag loading areas through water tankers. We have two dust sweeping machines also to sweep the from paved floors.	ontrol ading dust, to the closed n raw bading wo no.
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 emiss have been controlled and it is well within prescribed limits and regularly monitor CPCB guidelines regarding control fugitive emission is being followed. In materials are being transported through the covered means.	red. of Raw
viii) Total ground water requirement shall not exceed 200 m³/day. No waste water shall be generated from the cement grinding unit. Complying, ground water is not abstract more than 200 m³/day. No waste water being generated from the cement grin unit.	r is
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 as dust etc. is being properly recycled reutilized in the process itself. 100% fl generated in Captive power plant, is u the process.	l and y ash,
As proposed, green belt shall be developed in at least 34.5 ha of land area to land area to mitigate the impact of fugitive emissions in Complying, we have covered almost 33% of total land area from greenbelt to mitigate impact of fugitive emissions.	ite the
CPCB guidelines in consultation with the continuously developing the green belt surrounding the area as per the	CPCB
CPCB guidelines in consultation with the continuously developing the green belt surrounding the area as per the	CPCB OFO. equate being been

	Protection (CREP) for the cement plants shall be implemented.	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	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 also to
	the same water for the various activities of the project to conserve fresh water.	recharge the ground water.
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	Complying, item-wise details along with time bound action plan has been prepared and submitted to the Ministry's Regional Office at Bangalore.
xv)	ensured accordingly in a time bound manner. 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. G	ENERAL CONDITION:	
i)	The project authorities must strictly adhere to the stipulations made by the Karnataka State Pollution Control Board and the State Government.	Agreed, We are adhering to the stipulations made by the Karnataka State Pollution Control Board 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, No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests.
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 from various process units are well within the load/mass based standards notified by this Ministry on 19th may, 1993 and standard prescribed from time to time.
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	Complied, We have established four (AAQMS) monitoring stations and monitored data of 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. Six monthly report of ambient air quality, fugitive

	regularly submitted to this Ministry including its regional Office at Bangalore	and stack emission has been enclosed as per Annexure- 1
v)	and the SPCB/CPCB once in six Months. 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, No waste water is generated from cement plant and the waste water, generated in captive power plant, is collected and treated properly and treated waste water is being used in dust suppression and gardening.
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 including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels are also within the standards prescribed under EPA Rules, 1989 viz. 75 dBA (daytime) and 70 dBA (nighttime) as per Annexure- 2
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 is being done on a regular basis and records are being 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. Socio-economic development activities for the period October-2016 to March-2017 are 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	Complied. We are spending more than recurring cost/annum for environment pollution control measures. An implementation schedule for implementing all the conditions stipulated herein has been submitted to the regional Office of the Ministry at Bangalore.

	for any other purpose.	
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 concern recommended by MoEF, 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 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.	Complying, Status of compliance of the stipulated environment clearance conditions and results of monitored data are being uploaded on company website and it is updated periodically. It is simultaneously being sent to the regional Office of the MoEF at Bangalore, The respective Zonal Office of CPCB and the CECB. The pollutants levels namely; PM ₁₀ , SO ₂ , NO _x are being displayed at a convenient location 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 email) to the Regional Office of this Ministry at Bangalore/CPCB/SPCB shall monitor the stipulated conditions.	Complying, we are also submitting 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 and concerned authority monitor the stipulated conditions
xiv)	The environmental statement for each financial year ending 31 st 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 respective regional Office of the MoEF at Bangalore by e mail.	authority monitor the stipulated conditions. Complying, The environmental statement for each financial year ending 31st March in Form-V is being submitted by us to the concerned State Pollution Control Board and is also sent to the respective regional Office of the MoEF at Bangalore by e mail.
xv)	The Project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and	Complied, we had informed the public that the project has been accorded environmental clearance by the Ministry and copies of the

Environmental Clearance Compliance Report for the period from October, 2016 to March, 2017

	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	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 had been advertised within seven days from the date of issue of the clearance letter, in two local newspapers that are widely circulated in the region of which one was in the vernacular language of the locality concerned and a copy of the same had been forwarded to the regional office at Bangalore.
	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.	Complied, we had informed 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.

We hope, you will find our reply in order.

With best regards,

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

RBM Tripathi (Unit Head)

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

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 O₂, 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 have been provided. On line gas analyzer for O₂, CO, emission at kiln inlet and on line dust monitor to kiln and cooler have been provided. A closed clinker system has been adopted to control fugitive emission. Water sprinkler is done in raw material stock yard and cement bag loading areas.

The total water requirement from Ghatprabha River source shall not exceed 1046.4 m³/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 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 than 1046.4 m³/day Ghatprabha River. Dry manufacturing process has been adopted for cement manufacturing so no waste water is generated in cement plant. The treated waste water, generated in CPP, is being used for dust suppression, green belt development, other plant related activities /process. So, no process waste water is being discharged outside the factory premises and zero discharge is being adopted. Domestic effluent treated in sewage treatment plant (STP) is used for green belt 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

Complied, The fly ash and bottom ash generated from the power plant is being used in the process itself manufacturing PPC. All the cement dust collected from the pollution control devices is recycled and reused in the process and used for cement manufacturing. The fly ash utilization is as per the provision stipulated in the fly ash

	amended in august, 2003. STP sludge shall	notification of September, 1999 and
	be used as manure for green belt	amended in august, 2003. STP sludge is
	development. Used oil shall be sold to	used as manure for green belt
	authorized recycler / re processor only.	development. Used oil is sold to
		authorized recycler / re processor only.
iv.	High calorific hazardous waste shall be	Complying. We have obtained the
	utilized in the cement plant.	permission from KSPCB for co-processing
		the plastic waste, municipal solid waste
		and ETP sludge of BASF, Mangalore
		(Karnataka). BASF's ETP sludge will be co-
		processed in kiln from April-2015. Oil
V.	As proposed in EIA / EMP, green belt shall	soaked cotton waste is disposed in kiln.
٧.	be developed in 80 ha. (30%) out of total	As a part of green belt development, We have received a certificate from forest
	256.3 Acres. As per the CPCB Guidelines to	department via. Letter no.
	mitigate the effect of air emission in	B2.GFL/Mines/2007-08/597 dated 30-08-
	consultation with local DFO.	2007 regarding availability of local Flora
		and Fauna in Mudhol Taluka. We have
		planted a number of plants in and around
		cement plant and colony. We have
6		covered almost 33% area of total land
		area from plantation.
Gen	eral Condition :	
i.	The project authorities shall adhere to the	Agreed
	stipulation made by Karnataka State	*
	Pollution Control Board and State	
	Government.	
ii.	No further Expansion or modification of the	Agreed. We have obtained environmental
	plant shall be carried out without prior	clearance for expansion of Cement
	approval of Ministry or rules made there	Grinding Unit (2.50 MTPA to 3.5 MTPA)
	under.	via. MoEF Letter No. F.No. J-
		11011/263/2009-IA II (I) dated 21-06-
		2010 and also obtained permission for
		manufacturing the cement based adhesive without increasing the
		adhesive without increasing the production capacity from MoEF via F. No.
		J 11011/263/2009- IA II (I) dated 26
		September 2012.

iii.	The goodelie and northerlate metter	Complying, we have provided online
	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.	monitoring instruments at major stacks and the gaseous and particulate matter emissions from various units are within the standard prescribed by the KSPCB/CPCB/MoEF. Interlocking facilities have been provided in pollution control equipment.
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. Ambient air quality including ambient Noise level is not exceeding the standard stipulated under EPA or by the state authorities. Monitoring of Ambient air quality and stack emission is being carried out regularly in consultation with KSPCB and report is being submitted to the KSPCB monthly/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, we have installed 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 is being carried out to control fugitive emission. Covered sheds for storage of raw materials and fully covered conveyors for transportation of materials have been provided besides coal, cement, fly ash and clinker is stored in 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 via. letter No. 21-4 SWR/ CGWA/ 2008/ 1568 dtd. 11.12.2008 and It was valid upto 28-11-2010 so it had been renewed via letter no. 21-4 (70) / SWR /CGWA / 2008 - 1489 dated 10/10/2011 by CGWA.

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.	Complying, We are harvesting the rain water from roof tops. Storm water drains are recharging the ground water in colony and cement plant.
viii.	The company shall undertake eco- development measures including community welfare measures in the project areas.	Complying, We are undertaking eco- development measures like energy saving, hazardous wastes, Manufacturing of PPC/Slag cement and other wastes disposing etc. 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).	Complying, The overall noise levels in and around the plant area is 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 are well within the standard prescribed under Environments (Protection) Act, 1986 Rules 1989 viz 75 dBA (Day Time) and 70 dBA at (Night Time).
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. Blood Donation camp was arranged on 28th Feb. 2015.
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	Complied, As a part of environmental pollution control measures, we have invested above earmarked amount. The fund so provided has not been diverted for any other purpose.

	purpose.	
xiv.	The Regional of this Ministry at Bangalore / CPCB / KSPCB shall monitor the stipulated condition. A six monthly compliance report and monitor data along with statistical interpretation shall be submitted to them regularly.	Agreed, A six monthly compliance report and monitor data along with statistical interpretation is being submitted to The Regional of this Ministry at Bangalore / CPCB / KSPCB 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.	Complied, Project has been completed. We had informed 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.
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, we had informed 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 had been advertised within seven days from the date of issues of clearance letter in two local newspapers that are widely circulated in the region of which one was in the vernacular language of the locality concerned and a copy of the same has been forwarded to the regional office at Bangalore.
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 are agreeing.
7.0	The Ministry may revoke or suspend the clearance if implementation of any of the above condition is not satisfactory.	We are agreeing.
8.0	Any other condition or alteration in the above conditions shall to be implemented by the project authorities in a time bound	Complying

	manner.		
	The above conditions shall be enforced,	We are agreeing.	
9.0	inter-alia under the provisions of The Water	NA PORT STATEMENT	
	(Prevention and control of pollution) Act,		
	1974, the Air Act. 1981, The Environment		
	Protection Act 1986 and The Public Liability		
	Insurance Act, 1991 along with their		
	amendments and rules.		

Thanking you,

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

RBM Tripathi (Unit Head)

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

EC to expansion of Cement Grinding Unit (2.50 MTPA to 3.5 MTPA) at Village Muddapur, Taluka-Mudhol, District Bagalkot, Karnataka by M/s Jaykaycem Limited. Reg Change in product mix to manufacture cement based adhesive without increasing the production capacity.

Conditions are following.

S.N.	Conditions	Reply
i.	The overall capacity of the plant shall remain 3.5 MTPA.	Agreed and complying.
ii.	There shall be no increase in the water consumption and land requirement.	Agreed, we are not consuming more than permitted water consumption and land requirement has not been increased.
iii.	The company shall with all the conditions stipulated vide Ministry's letter of even number dated 21st June, 2010.	Complying. Report is being sent to regulatory authority.
iv.	In case of change in the scope of the project, fresh proposal for environmental clearance shall be submitted to the Ministry.	
enviro	ct- Stipulation of additional conditions in ronmental clearance	
Refer	ence- MoEF office memorandum dated 06 Ap	
i	Continuous monitoring of stack emissions as well as ambient air quality (as per	

i Continuous monitoring of stack emissions as well as ambient air quality (as per notified standards) shall be carried out and continuous records maintained. Based on the monitored data, necessary corrective measures as may be required from time to time shall be taken to ensure that the levels are within permissible limits. The results of monitoring shall also be submitted to the respective Regional Office of MoEF regularly. Besides, the results of monitoring will also put on the website of the company in the public domain.

systems for main stacks emissions and ambient air have been installed and continuous records maintained. All the monitored data are well within the standard. We are submitting monthly report to Regional Office of MoEF and Regional office of KSPCB. Online data is uploading at CPCB website also and monitoring reports along with compliance report are uploaded at website of the company.

The six monthly monitoring report as well as the monitored data on various parameters as stipulated in the environmental clearance conditions shall be put on the website of the company and

Complied. The six monthly monitoring report as well as the monitored data on various parameters as stipulated in the environmental clearance conditions is put on the website of the company and also

	also regularly updated. The monitored data shall also be submitted to respective State Pollution Control Board/UTPCCs and the	also submitted to respective State
	Regional Office of MoEF.	Regional Office of MoEF.
ii	The ambient air quality data as well as the	Complied. The ambient air quality data as
i	stack emission data will also be displayed in public domain at some prominent place near the main gate of the company and updated in real time.	well as the stack emission data is displayed in public domain near the main gate of the company and updated in real time

Thanking you,

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

RBM Tripathi (Unit Head)

J.K. Cement WORKS, MUDDAPUR (KARNATAKA)

(Unit: J.K. Cement Ltd)

Half Yearly Fugitive Emission Monitoring Report of Cement plant for the Period from October-2016 to March-2017

	SPM (microgram/m3)				SPM (microgram/m3)	am/m3)		
SL. NO.	MONTH/YEAR	Gypsum Yard Slag Yard Flyash Yard Cement mill	Slag Yard	Flyash Yard	Cement mill	Lime stone unloading hopper	Lime stone crushing Site	Coal Yard
_	Oct-16	499.7	572.6	509.2	516.4	526.6	467.4	832.1
2	Nov-16	504.5	591.6	518.7	540.1	538.8	470.1	836.5
w	Dec-16	519.5	540.8	533.5	542.7	524.3	464.2	851.3
4	Jan-17	506.3	525.0	601.9	564.6	437.0	564.1	891.6
5	Feb-17	531.2	514.5	538.9	418.0	536.0	522.6	853.9
6	Mar-17	430.8	512.6	490.8	421.5	388.4	468.3	862.7
	Average	498.7	542.8	532.2	500.5	491.8	492.8	854.7
,	Minimum	430.8	512.6	490.8	418.0	388.4	464.2	832.1
1	Maximum	531.2	591.6	601.9	564.6	538.8	564.1	891.6

Manjunath/K.T

Dr.Saurabh Kumar Dy.Mgr(Env)

J.K. Cement WORKS, MUDDAPUR (KARNATAKA) CEMENT PLANT & 2X25 CPP MW

HALF YEARLY AAQM REPORT (SO₂, NO₂, PM₁₀ and PM_{2.5}) FOR THE PERIOD FROM OCTOBER-2016 TO MARCH-2017 (ALL VALUES IN MICROGRAMS / CUBIC METER)

				SC		L VA	LUES	IN MI		JKAN	S/CUB	IC MET	I ₁₀			PM	1	
Month	Sl. No.	Date		Loca				Loca					tions			Loca		
WAOHEN	51. 110.	Date	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D
	1	4.10.2016	6.2	5.5	6.0	6.0	7.0	6.2	7.5	7.3	52.3	53.5	55.3	51.4	16.7	20.8	16.7	20.8
0	2	7.10.2016	5.7	6.2	5.8	5.7	6.7	7.3	6.5	6.5	54.3	56.4	57.5	55.1	20.8	16.7	16.7	29.2
C	3	12.10.2016	6.3	5.8	6.7	6.0	7.3	6.7	7.0	7.5	55.8	57.3	56.9	56.3	20.8	20.8	37.5	16.7
T	4	15.10.2016	5.5	6.3	6.7	6.5	6.8	7.0	7.5	7.5	57.1	56.9	57.9	57.7	20.8	25.0	25.0	25.0
0	5	19.10.2016	6.3	6.7	6.5	6.0	5.8	7.0	7.7	7.0	56.9	57.3	56.1	57.0	16.7	20.8	20.8	20.8
B E	6	22.10.2016	5.5	5.7	6.3	5.5	6.5	6.2	7.5	6.2	57.9	57.9	56.1	58.0	20.8	20.8	25.0	33.3
R	7	26.10.2016	5.8	6.3	5.0	6.0	7.0	7.2	6.0	7.5	56.4	56.5	57.2	57.2	16.7	25.0	20.8	16.7
IX.	8	29.10.2016	6.2	5.7	5.8	5.8	7.0	6.5	6.7	6.7	57.8	56.3	57.8	56.5	25.0	16.7	25.0	20.8
N	1	4.11.2016	6.8	6.3	6.7	6.5	7.0	7.0	7.5	7.0	57.2	55.7	57.1	56.9	20.8	16.7	33.3	16.7
0	2	8.11.2016	6.0	6.5	6.2	5.8	7.5	7.0	7.5	6.7	56.2	57.0	55.9	57.3	16.7	20.8	29.2	20.8
V	3	11.11.2016	6.0	6.2	5.5	6.5	7.0	7.3	6.3	7.0	57.2	57.2	56.0	56.0	20.8	20.8	16.7	25.0
ER	4	15.11.2016	6.8	5.8	6.2	6.3	7.2	6.7	7.5	7.0	58.8	57.9	57.7	57.2	16.7	25.0	16.7	16.7
M	5	18.11.2016	5.8	6.0	5.8	5.5	6.8	7.0	6.8	6.5	57.1	57.8	59.0	57.8	20.8	16.7	25.0	20.8
В	7	22.11.2016	6.2	6.2	6.8	5.7	7.0	7.5	7.0	6.3	56.7	55.8	56.5	56.7	16.7	20.8	25.0	25.0
E	8	25.11.2016	5.8	6.5	6.2	6.2	7.0	7.0	7.0	7.3	56.2	56.1	55.7	57.1	20.8	20.8	29.2	16.7
	1	29.11.2016	5.5 6.2	5.8 7.0	5.0	5.5 6.5	6.8 7.5	8.2	6.8 7.5	7.5	55.6	55.3	56.5	58.4	25.0	29.2	20.8	20.8
D	2	6.12.2016	6.8	5.8	7.0	6.8	7.2	6.7	8.3	7.5	55.5 57.0	56.2	56.9	54.4	20.8	20.8	20.8	16.7
E	3	9.12.2016	6.5	7.0	7.0	7.0	7.5	8.0	8.0	8.3	55.1	57.3 56.8	56.0 55.3	56.9 55.2	25.0	25.0	25.0	16.7
C	4	13.12.2016	7.2	6.5	5.5	7.0	8.3	7.5	6.5	8.2	56.3	_			12.5	29.2	25.0	20.8
E	5	16.12.2016	5.8	6.0	6.0	6.5	6.5	7.5	7.2	7.5	55.2	55.6	56.1	56.6	20.8	20.8	29.2	25.0
M	6	20.12.2016	6.5	7.0	6.3	7.0	7.2	8.0	7.5	8.0	56.2	57.9	57.3	56.0	25.0	37.5	33.3	16.7
В	7	23.12.2016	6.5	7.5	6.3	7.5	8.0	8.0	7.7	8.2	55.1	56.3	56.8	56.6	20.8	20.8	25.0	20.8
Е	8	27.12.2016	6.8	6.2	6.3	6.0	7.5	7.0	7.5	7.0	56.3	56.9	56.5	57.5	33.3	29.2	25.0	25.0
R	9	30.12.2016	5.5	5.5	6.5	5.5	7.5	6.5	7.5	6.5	58.4	56.7 59.5	57.2	58.0	20.8	37.5	20.8	25.0
	1	03.01.2017	5.8	6.2	6.8	7.2	6.8	7.0	7.5	8.2	55.6	57.9	57.5 57.5	57.5 59.8	16.7	20.8	25.0	33.3
J	2	06.01.2017	6.5	6.5	6.5	6.2	7.5	7.5	7.5	8.3	57.6	56.7	56.7	57.0	15.8	25.0	29.2	20.8
A N	3	10.01.2017	5.8	6.3	6.0	6.0	6.5	7.5	7.0	7.0	58.3	59.0	57.1	58.3	24.2	25.0	20.8	25.0 29.2
U	4	13.01.2017	6.3	6.5	7.2	6.8	7.0	8.0	8.0	8.0	55.7	57.6	58.7	55.8	20.0	20.8	25.0	16.7
A	5	17.01.2017	6.7	6.5	6.3	6.8	8.0	8.7	7.5	7.8	56.4	58.0	56.4	57.6	23.3	20.8	16.7	20.8
R	6	20.01.2017	7.5	7.2	7.5	7.0	9.0	9.5	8.8	8.5	57.5	57.3	57.1	58.5	20.8	20.8	16.7	16.7
Y	7	24.01.2017	6.7	6.5	7.5	7.5	9.5	8.7	8.7	9.5	56.0	58.6	56.8	58.5	33.3	16.7	20.8	20.8
	8	28.01.2017	6.7	7.0	7.5	6.7	8.8	8.0	8.3	8.0	57.3	57.1	57.5	57.3	16.7	20.8	16.7	20.8
F	1 2	01.02.2017	7.2	6.8	7.5	7.5	8.5	8.2	8.3	8.2	56.0	56.8	58.7	57.4	37.5	37,5	25.0	25.0
E	3	04.02.2017	6.5	7.5	7.5	6.8	7.5	8.5	8.5	7.5	55.7	56.8	57.1	58.4	29.2	41.7	37.5	29.2
B R	4	08.02.2017 11.02.2017	7.5	7.5	6.5	7.5	6.8	8.2	7.5	8.2	57.9	57.3	58.1	57.5	25.0	37.5	33.3	33.3
U	5		7.5	7.5	6.8	6.5	8.5	8.5	7.5	8.2	58.3	58.1	57.7	59.9	20.8	25.0	29.2	20.8
A	6	15.02.2017 18.02.2017	6.7	6.5	7.5	7.8	7.5	7.5	8.5	8.2	59.3	57.1	61.6	60.1	79.2	37.5	37.5	33.3
R	7	22.02.2017	7.5 6.5	7.5	7.5	7.5 6.5	8.5	8.5	8.5	8.5	57.9	58.9	58.9	58.0	20.8	29.2	25.0	37.5
Y	8	25.02.2017	7.5	6.5	7.5	7.5	8.0	8.5	8.2	7.5	58.7	56.7	60.0	56.5	25.0	20.8	20.8	45.8
	1	01.03.2017	7.5	6.5	6.5	7.5	9.0	7.8	8.2 6.9	8.2	57.1	57.1	58.9	59.2	29.2	25.0	41.7	25.0
	2	04.03.2017	7.5	7.5	7.2	7.1	7.9	7.8	7.5	7.9	58.2	57.3	57.5	57.5	29.2	16.7	39.6	34.4
M	3	08.03.2017	6.5	6.9	7.5	7.4	7.5	7.5	7.8	7.5	57.7 59.6	58.8	57.5	59.1	37.5	25.0	33.3	37.5
A	4	11.03.2017	7.5	7.3	6.8	7.5	7.7	7.5	7.0	7.9	59.0	57.7	58.5	58.2	45.8	33.3	25.0	41.7
R	5	15.03.2017	7.4	7.4	7.3	7.4	7.8	7.5	7.5	7.8	57.3	58.6	57.9	57.8 59.4	29.2 40.8	44.6	33.4	18.8
C	6	18.03.2017	7.8	7.5	7.4	7.0	7.9	7.9	8.1	7.5	57.8	59.5	59.0	58.4	40.8	12.5	28.5	50.0
H	7	22.03.2017	6.5	7.6	7.5	7.2	7.4	8.0	7.9	7.8	58.8	59.4	58.5	57.0	27.5	16.7 25.0	33.1 41.7	33.3
	8	25.03.2017	6.8	7.8	6.8	7.5	7.5	8.1	7.5	8.1	57.7	59.8	59.2	58.5	19.2	20.8	37.5	24.0 35.2
	9	30.03.2017	7.5	7.9	6.5	7.6	7.9	8.2	7.0	8.0	58.4	59.9	59.2	57.1	15.0	25.0	33.3	11.5
	Avg		6.6	6.6	6.6	6.7	7.5	7.5	7.5	7.6	57.0	57.4	57.4	57.4	24.9	24.5	26.6	25.1
	Mir		5.5	5.5	5.0	5.5	5.8	6.2	6.0	6.2	52.3	53.5	55.3	51.4	12.5	12.5	16.7	11.5
	Ma	х.	7.8	7.9	7.5	7.8	9.5	9.5	8.8	9.5	59.6	59.9	61.6	60.1	79.2	44.6	41.7	50.0
														-	0.835-			

Manjunath.K.T Monitored By

Dr. Saurabh Kumar Dy. Mgr (Env)

J.K. Cement WORKS, MUDDAPUR (KARNATAKA) (Unit: J.K. Cement Ltd.)

Half Yearly Stack monitoring report of Cement plant & 2x25 MW Thermal power plant for October-2016 to March-2017

_	_	_	_	_						
			6	5	4	w	2	1	Sl. No.	
Max	Min	Avg	Mar-17	Feb-17	Jan-17	Dec-16	Nov-16	Oct-16	Month/Year	
15.3	13.3	14.3	13.9	15.3	14.3	13.3	14.7	14.2	Thermal Power Plant	
12.3	10.3	11.2	12.3	11.3	10.3	11.8	10.6	11.1	Kiln / Raw Mill	
12.8	10.0	11.3	10.01	10.1	10.7	11.4	12.7	12.8	Kiln / Coal Mill Raw Mill Bag Filter	
13.4	10.0	11.7	13.4	12.3	11.3	10.0	11.2	12.2	Cooler ESP	
11.8	11.0	11.5	11.7	11.0	11.6	11.7	11.8	11.3	LSC	
13.0	10.1	11.9	11.4	10.1	12.3	12.1	13.0	12.3	CM-1	
14.9	10.9	12.4	10.9	11.1	11.1	14.9	13.5	12.6	CM-1 CM-2	
16.7	15.5	16.1	15.8	Shutdown	15.8	15.5	16.7	16.7	Slag mill	
12.6	11.0	11.5	11.5	11.4	11.0	12.6	11.6	11.1	Coal crusher	
12.4	11.1	11.8	11.1	11.8	11.5	12.4	12.2	11.5	Packing plant No-1	Stack locations
12.4	10.6	11.5	11.3	10.6	10.7	11.5	12.4	12.4	Packing plant No-2	tions
13.9	10.3	12.0	10.3	11.8	12.1	13.9	11.8	12.0	Packing plant No-3	
11.5	11.0	11.3	Shutdown	Shutdown	Shutdown	11.5	11.0	11.3	ng Packing Packing RMT o-2 plant No-3 plant No-4 System	
12.8	10.0	11.5	12.3	12.8	12.0	10.3	10.0	11.7	RMT System	
12.8	10.5	11.8	12.0	12.8		12.1	12.2	10.5	Clinker Transport	
13.0	10.2	11.4	10.3	11.2	10.2	12.4	11.1	13.0	Clinker Storage	
13.5	10.1	11.9	11.3	10.1	12.3	12.1	13.5	12.3	CM Sep-1 CM Sep-2	
14.9	11.1	12.5	11.4	11.1	III	14.9	13.5	12.6	CM Sep-2	

Dr. Saurabh Kumar Dy.Mgr(Env)

Manjunath K.T
Monitored By

J.K. Cement WORKS, MUDDAPUR (KARNATAKA) (Unit: J.K. Cement Ltd.)

Half Yearly Noise monitoring report of Cement & Power Plant for the month of October 2016 to March-2017

			T			_			,							
15	14	13	12	=	10	9	00	7	6	O.	4	3	2	1	SI. No.	
DG House (2- meter distance)	DG House (1- meter distance)	General Store	Packing Plant	Dispensary	Plant main gate	Near Canteen	Coal Yard	Near QC Lab.	Despatch weigh bridge	Power Plant	Kiln/ Cooler Office	Lime Stone Crusher	Administrative Building	Boundary side	Location Name	
70.40	72.50	60.50	55.20	52.90	53.60	58.40	56.80	54.60	57.50	58.40	71.50	72.40	55.60	52.40	Day (dB) Leq	00
,		48.90	49.50	41.50	40.50	47.60	46.20	50.20	52.60	52.10	62.50	55.90	43.50	42.60	Night (dB) Leq	Oct-16
68.50	72.60	62.70	66.50	57.50	55.60	58.30	56.40	60.40	61.80	65.20	68.50	64.20	60.30	58.60	Day (dB) Leq	No
,	ı	43.50	55.40	42.60	42.80	46.80	46.20	49.50	51.40	48.50	52.60	48.50	46.40	44.50	Night (dB) Leq	Nov-16
71.50	70.10	50.40	52.80	54.40	52.80	58.60	58.80	64.80	58.60	66.20	68.50	60.20	56.40	54.80	Day (dB) Leq	De
		40.50	41.40	43.80	42.60	46.20	44.30	50.80	42.20	54.60	60.50	55.40	42.80	44.60	Night (dB) Leq	Dec-16
58.90	60.00	47.50	51.40	42.50	47.50	44.20	47.80	46.40	50.60	55.80	57.60	49.80	44.40	46.20	Day (dB) Leq	Jai
,	6	36.40	41.80	32.60	35.50	31.40	36.60	37.50	41.80	42.60	41.80	39.60	32.40	37.80	Night (dB) Leq	Jan-17
57.40	59.60	46.80	50.20	41.70	46.80	45.70	48.40	47.50	49.60	56.70	58.50	50.20	45.70	45.80	Day (dB) Leq	Fel
1		37.80	40.90	32.70	31.60	30.80	35.40	38.70	40.20	43.70	44.50	42.80	31.50	38.60	Night (dB) Leq	Feb-17
56.90	58.60	47.10	51.30	42.10	47.30	46.20	49.20	46.50	48.90	54.80	57.60	50.40	45.50	45.60	Day (dB) Leq	Ma
418		38.40	41.20	33.50	31.80	31.30	35.60	38.50	39.90	42.80	43.50	43.10	32.50	37.90	Night (dB) Leq	Mar-17
56.90	58.60	46.80	50.20	41.70	46.80	44.20	47.80	46.40	48.90	54.80	57.60	49.80	44.40	45.60	Day (dB) Leq	Mini
0.00		36.40	40.90	32.60	31.60	30.80	35.40	37.50	39.90	42.60	41.80	39.60	31.50	37.80	Night (dB) Leq	Minimum
71.50	72.60	62.70	66.50	57.50	55.60	58.60	58.80	64.80	61.80	66.20	71.50	72.40	60.30	58.60	Day (dB) Leq	Maxi
r		48.90	55.40	43.80	42.80	47.60	46.20	50.80	52.60	54.60	62.50	55.90	46.40	44.60	Night (dB) Leq	Maximum
63.93	65.57	52.50	54.57	48.52	50.60	51.90	52.90	53.37	54.50	59.52	63.70	57.87	51.32	50.57	Day (dB) Leq	Average
r.		40.92	45.03	37.78	37.47	39.02	40.72	44.20	44.68	47.38	50.90	47.55	38.18	41.00	Night (dB) Leq	rage

Manjunath.K.T Monitored By

Dr.Saurabh Kumar Dy.Manager-Environment

Annexure-3
Social Development Expenses for the period from October 2016 to March 2017

S.N.	Subject	Amount (Rs.)
1	Durga Pooja Exp	11000.00
2	Sir Padampat Primary School Salary October 2016	140000.00
3	Padayatra To Shri Kshetra Pandarpur Lord Pandurang	3001.00
4	Ganesh Temple Construction 40 Bag Cement	13600.00
5	Sir Padampat Primary School Salary November 2016	100000.00
6	100 Bag Cement Shri Mahalaxmi Devasthan Trust Comm	30000.00
7	Physically Handicapped Activity In Dec.2016 Mudhol	10000.00
8	Sir Padampat Primary School Salary December 2016	100000.00
9	Koti Japyatna Programme & Vedant Mahotsav	21000.00
10	Ro Service Bill Agst School Adjusted	520.00
11	Sir Padampat Primary School Salary January 2017	150000.00
12	Utsaha 2017 Talent Hunt(Shri Sai International)	15000.00
13	Ashwini Hippali Lord Palace School 10th Topper	5000.00
14	Chaitra Muddapur Lord Palace School 10th Top Ranke	5000.00
15	Vivek Adavi Lord Palace School 10th Top Ranker	5000.00
16	Bagalkot Zilla Wrestling Association (R) Mudhol	10000.00
17	Shri Lokeshwar Jathra Lokapur 04.03.17 To 12.03.17	11000.00
18	Hindu Jagran Vedike Rss 05.03.2017 Mudhol	50000.00
19	Sir Padampat Primary School Salary February 2017	134000.00
20	Paid For Yamanureshwar Jatra, Muddapur	175000.00
21	Pandurang Rukmini Devasthan Jathra Annaprasad	25000.00
22	Laying Of Cable 5cx2.5 Sqmm	321.85
23	Laying Of Cable 4cx16 Sqmm	703.00
24	Termination Of Cable 4cx16 Sqm	409.82
25	Making Of Earth Pit	2927.42
26	Fixing Of Earth Patti	562.24
27	Erection Of Control Panel With Frame	7333.09
28	Termination Of Cable5cx2.5sqmm	1756.78
29	Fixing Of Light Fitting 120 Watt Led	2933.23
30	Erection Of High Mast Tower With Complete	8711.06
31	Fixing Of Aviation Fitting	217.44
32	Fixing Of Lightening Arrestor	850.84
33	Termination Of Cable 4cx16 Sqm	819.64
34	Erection Of Control Panel With Frame	14666.19
35	Making Of Earth Pit	5854.85
36	Fixing Of Earth Patti	1124.47
37	Laying Of Cable 4cx16 Sqm	1406.00
38	Laying Of Cable 5cx2.5 Sqm	643.70
39	Termination Of Cable5cx2.5 Sgm	3513.56
40	Fixing Of Light Fitting 120 Watt Led	5866.47
41	Erection Of High Mast Tower With Complete	17422.12
42	Fixing Of Aviation Fitting	434.88
43	Fixing Of Lightening Arrestor	1701.69

7	Total	3200.00 1398954.88
71	Kasba Jambagi	137000.00
70	Sir Padampat Primary School Salary March 2017	60000.00
69	Durga Devi Jathra Mahotsav Petlur 31.03.2017 Uniform Exp Agst Lokapur Police Bill	11000.00
68	Kannada Sahithya Sammelan At Sameerwadi 28 June 16	25000.00
67	Paid For Revayya Shivayogi Math Jatra, Hebbal	15000.00
66	Fixing Of Aviation Fitting	217.44
65	Erection Of High Mast Tower With Complete	8711.06
64	Fixing Of Light Fitting 120 Watt Led	2933.23
62	Termination Of Cable5cx2.5 Sqm	1756.78
61	Laying Of Cable 5cx2.5 Sqmm	321.85
60	Termination Of Cable 4cx16 Sqm	409.82
59	Laying Of Cable 4cx16 Sqm	703.00
58	Erection Of Control Panel With Frame	7333.09
57	Fixing Of Earth Patti	562.24
56	Making Of Earth Pit	2927.42
55	Fixing Of Lightening Arrestor	850.84
54	Laying Of Cable 5cx2.5 Sqm	321.85
53	Termination Of Cable 4cx16 Sqm	409.82
52	Laying Of Cable 4cx16 Sqm	703.00
51	Erection Of Control Panel With Frame	7333.09
50	Fixing Of Earth Patti	562.24
49	Making Of Earth Pit	2927.42
48	Fixing Of Lightening Arrestor	850.84
47	Fixing Of Aviation Fitting	217.44
46	Erection Of High Mast Tower With Complete	8711.06
45	Fixing Of Light Fitting 120 Watt Led	2933.23



J.K. Cement WORKS, MUDDAPUR (KARNATAKA)

(Unit: J.K. Cement Ltd.)

Monthly Average ETP Water Analysis report for the Period from October-2016 to March-2017

Sl.No.	SLIVO.	1	2	3	4	5												
Parameters	I AI AIIICICIIS	Colour (Hazen)	Odour	Suspended Solids (mg/L)	Particle of Suspended Solids(mg/L)	Dissolved Solids (mg/L)	Temperature (°C) max		pH value	pH value Oils and Grease (mg/L)	pH value Oils and Grease (mg/L) Total Residual Chlorine (mg/L)	pH value Oils and Grease (mg/L) Total Residual Chlorine (mg/L) Biochemical Oxygen Demand (mg/L)	pH value Oils and Grease (mg/L) Total Residual Chlorine (mg/L) Biochemical Oxygen Demand (mg/L) Chemical Oxygen Demand (mg/L)	pH value Oils and Grease (mg/L) Total Residual Chlorine (mg/L) Biochemical Oxygen Demand (mg/L) Chemical Oxygen Demand (mg/L)	pH value Oils and Grease (mg/L) Total Residual Chlorine (mg/L) Biochemical Oxygen Demand (mg/L) Chemical Oxygen Demand (mg/L) Percent Sodium (mg/L) Chloride as Cl (mg/L)	pH value Oils and Grease (mg/L) Total Residual Chlorine (mg/L) Biochemical Oxygen Demand (mg/L) Chemical Oxygen Demand (mg/L) Percent Sodium (mg/L) Chloride as Cl (mg/L) Dissolved Phosphates as(P) (mg/L)	pH value Oils and Grease (mg/L) Total Residual Chlorine (mg/L) Biochemical Oxygen Demand (mg/L) Chemical Oxygen Demand (mg/L) Percent Sodium (mg/L) Chloride as Cl (mg/L) Dissolved Phosphates as (P) (mg/L) Sulphate as SO ₄ (mg/L)	pH value Oils and Grease (mg/L) Total Residual Chlorine (mg/L) Biochemical Oxygen Demand (mg/L) Chemical Oxygen Demand (mg/L) Percent Sodium (mg/L) Chloride as Cl (mg/L) Dissolved Phosphates as (P) (mg/L) Sulphate as SO ₄ (mg/L)
Permissible limit	I VI IIIIOSINIC IIIIII	5	Odourless	100	Shall pass 850µ IS Sieve	2100	Not < 5 °C than intake		5.5 to 9	5.5 to 9 10	5.5 to 9 10 0.5	0.5 30	3.5 to 9 10 0.5 30 250	3.5 to 9 10 0.5 30 250	3.5 to 9 10 0.5 30 250 1000	5.5 to 9 10 0.5 30 250 2 1000	5.5 to 9 10 0.5 30 250 2 1000 1000	5.5 to 9 10 0.5 30 250 2 1000 5 1000 18
	Oct-16	1.0	O.L.	52.5	Pass	1685.0	0.8	8.1	Z		Nil	Nii Nii	NI NI NI	Nil Nil Nil 0.48	Nil Nil Nil Nil 0.48 548.7	Nil Nil Nil 0.48 548.7	Nil Nil Nil 0.48 548.7 Nil	Nil Nil Nil 0.48 548.7 Nil 48.3
**	Nov-16	1.4	0.L.	61.4	Pass	1875.9	0.8	8.0	Nil		Nil	Nii Nii	Nii Nii Nii	Nii Nii Nii 0.61	Nil Nil Nil 0.61 487.1	Nil Nil Nil 0.61 487.1	Nil Nil Nil 0.61 487.1 Nil	Nil Nil Nil 0.61 487.1 Nil 59.8
Monthly Average	Dec-16	1.2	0.L.	67.9	Pass	1881.7	0.9	7.7	Nil		Nil	Nii	Nii Nii	Nil Nil Nil 0.61	Nil Nil Nil 0.61 504.3	Nil Nil Nil 0.61 504.3	Nil Nil Nil 0.61 504.3 Nil 60.5	Nil Nil Nil 0.61 504.3 Nil 60.5
Average	Jan-17	1.2	0.L.	49.9	Pass	1484.4	0.4	8.0	N:		Ni	NI NI		Nii Nii 0.49	Nii Nii Nii 0.49	Nii Nii Nii 0.49 372.7	Nii Nii Nii 0.49 372.7 Nii	Nii Nii Nii 0.49 372.7 Nii 54.6
T. L. 17	Feb-17	1.2	O.L.	49.9	Pass	1484.5	0.4	8.0	Nil		Nii	Nii Nii	Nii Nii	Nil Nil Nil 0.49	Nil Nil Nil 0.49 372.7	Nil Nil Nil 0.49 372.7	Nil Nil Nil 0.49 372.7 Nil	Nil Nil Nil 0.49 372.7 Nil 54.6
17	Mar-17	1.3	0.L.	53.3	Pass	1499.5	0.6	8.0	Ni	CONTRACTOR OF THE PERSON OF TH	NII.	Nii Nii		Nil Nil 0.51	Nil Nil Nil 0.51 497.6	Nil Nil Nil 0.51 497.6	Nil Nil Nil 0.51 497.6 Nil	Nil Nil Nil 0.51 497.6 Nil 53.1

Manjunath.K.T
Analysed by

Dy,Mgr (Env) Dr. Saurabh Kumar

J.K. Cement WORKS, MUDDAPUR (KARNATAKA)

(Unit: J.K. Cement Ltd.)

Monthly Average STP Water Analysis report for the Period from October-2016 to March-2017

3	2	1	Sl. No.
BOD	PH	Suspended Solids	Parameters
20	6 to 9	30	Sl. No. Parameters Permissible limit
15.61	7.36	22.12	Oct-16
15.21	7.34	23.29	Nov-16
16.01	7.31	22.50	Dec-16
14.68	7.18	21.60	Jan-17
19.03	10.39	22.79	Feb-17
15.57	7.60	22.56	Mar-17

Manjunath.K.T

Monitored By

Dr.Saurabh Kumar Dy.Manager

Station: AAQMS1 Periodically: October 2016 - March 2017 Type: AVG Monthly [15 Mins.]

STD	Data[%]	Num	Avg	MaxDate	Maximum	MinDate	Minimum	March 2017	February 2017	January 2017	December 2016	November 2016	October 2016		Date & Time
10.5	100	6	77	December 2016	91	October 2016	65	66	72	90	91	80	65	µg/m3	PM 10
6.7	100	6	28	January 2017	36	March 2017	19	19	22	36	33	33	22	µg/m3	PM2.5
2.1	100	6	5.97	March 2017	8.39	December 2016	2.8	8.39	7.55	3.69	2.8	7.71	5.69	µg/m3	S02
0.6	100	6	3.21	November 2016	4.38	March 2017	2.47	2.47	3.64	ယ	3.17	4.38	2.6	µg/m3	NO
5.1	100	တ	13.54	November 2016	24.72	December 2016	9.19	12.77	12.57	10.9	9.19	24.72	11.09	µg/m3	NO2
5.7	100	0	16.68	November 2016	29.1	December 2016	12.35	15.18	16.16	13.63	12.35	29.1	13.67	µg/m3	NOX
0.1	100	6	0.48	December 2016	0.61	October 2016	0.3	0.41	0.42	0.6	0.61	0.54	0.3	mg/m3	CO

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STD	Data[%]	Num	Avg	MaxDate	Maximum	MinDate	Minimum	March 2017	February 2017	January 2017	December 2016	November 2016	October 2016		Date & Time	Sta
15.7	100	6	71	January 2017	91	March 2017	49	49	59	91	90	75	62	µg/m3	PM 10	tion: AAQMS:
9.4	100	9	28	December 2016	39	March 2017	15	15	19	36	39	35	21	µg/m3	PM2.5	Station: AAQMS2 Periodically: October 2016 - March 2017 Type:
3.6	100	6	7.8	March 2017	13.1	January 2017	4.8	13.1	12.7	4.8	5.3	5.3	5.6	μg/m3	S02	October 2016
1	100	6	2.6	October 2016	4.5	March 2017	1.6	1.6	1.7	1.8	2.8	3.2	4.5	µg/m3	NO	- March 2017
1.9	100	6	8.1	March 2017	10.6	January 2017	5.1	10.6	9.5	5.1	6.9	9.6	6.8	µg/m3	NO2	Type: AVG I
1.9	100	6	10.7	November 2016	12.8	January 2017	6.9	12.2	11.2	6.9	9.7	12.8	11.3	µg/m3	NOX	: AVG Monthly [15 Mins.]
0.1	100	6	0.4	November 2016	0.5	October 2016	0.3	0.5	0.3	0.5	0.5	0.5	0.3	mg/m3	CO	s.]

285		Station	Station: CEMS Periodically: October 2016 - March 2017 Type	ically: October	2016 - Marc	th 2017 Typ	be: AVG Mo	e: AVG Monthly [15 Mins.]	ns.]		
Date & Time	KILN & RM Stack SPM	KILN & RM Stack SO2	KILN & RM Stack NOx KILN & RM Stack O2	KILN & RM Stack O2	CPP/ESP SPM	CPP/ESP SO2	CPP/ESP NOx	CPP/ESP 02	CEMENT MILL Stack SPM	Cooler ESP SPM Coal Mill SPM	Coal Mill SPM
	mg/m3	mg/m3	mg/m3	%	mg/m3	mg/m3	mg/m3	%	mg/m3	mg/m3	mg/m3
October 2016	11.04	29.78	554.01	10.96	24.34	319.48	453.34	11.4	6.4	11.9	8.3
November 2016	15.4	26.79	427.24	13.08	23.57	293.56	263.22	13.3	6	12.4	7.3
December 2016	9,44	31.83	330.8	14.62	20.4	78.71	30.1	5.6	8.4	7.9	7.8
January 2017	10.67	23.67	382.11	12.78	21.1	139.07	112.5	17.2	4.2	14.1	28.9
February 2017	11.99	31.81	446.2	12.32	19.64	413.69	207.61	12.1	0.6	7.1	5.7
March 2017	8.52	27.41	295.9	15.16	14.44	273.12	138.09	15.3	1.5	3.7	2.8
Minimum	8.52	23.67	295.9	10.96	14.44	78.71	30.1	5.6	0.6	3.7	2.8
MinDate	March 2017	January 2017	March 2017	October 2016	March 2017	December 2016	December 2016	December 2016	February 2017	March 2017	March 2017
Maximum	15.4	31.83	554.01	15.16	24.34	413.69	453.34	17.2	8.4	14.1	28.9
MaxDate	November 2016	December 2016	October 2016	March 2017	October 2016	February 2017	October 2016	January 2017	December 2016	January 2017	January 2017
Avg	11.18	28.55	406.04	13.15	20.58	252.94	200.81	12.5	4.5	9.5	10.1
Num	6	6	6	o	6	6	6	6	6	6	6
Data[%]	100	100	100	100	100	100	100	100	100	100	100
STD	2.2	2.9	84	1.4	3.2	112.3	134.5	3.6	2.7	3.6	8.6

Many !