

IK COMENT WORKS

MUDDAPUR

Phone +91-8350-289000 Fax +91-8350-289001

E-mail: factory.muddapur@jkcement.com

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

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

No. JKCW / ENV. /E.C. / (PLANT)/11/12

Date- 15-11-2017

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 April-2017 to September-2017 for JK Cement Works, Village- Muddapur, Taluka- Mudhol, District- Bagalkot (Karnataka)

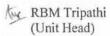
Ref: MoEF Letter F. No. J-11011 / 489 / 2006-1A.II (I) / dtd. 14-09-2007, MoEF Letter No. F.No. J-11011/263/2009-IA II (I) dated 21-06-2010, MoEF letter no. J-11011/263/2009-IA II (I) dated 26-09-2012 and MoEF office memorandum dated 06 April 2011

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 April-2017 to September-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



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



Registered & Corporate Office

Kamla Tower, Kanpur - 208 001 (U.P.) Ph.: 0512-2371478-81 Fax: 0512-2399854

E-mail: ho.grey@jkcement.com Website: www.jkcement.com Central Marketing Office

4th Floor, Krsna Chambers, Plot no. 11. Galaxy Garder-North Main Road, Koregaon Park, Pune - 411001 Ph.: 020 -41350000 Fax: 020 - 41350099

E-mail: cmo.south@jkcement.com

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.

from total water requirement ii. The 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 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 1046.4 m³/day than 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 other plant related development, 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 for 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

NE DEL SERVE

	was a first than the control of the	
ív.	amended in august, 2003. STP sludge shall be used as manure for green belt development. Used oil shall be sold to authorized recycler / re processor only. High calorific hazardous waste shall be utilized in the cement plant.	notification of September, 1999 and amended in august, 2003. STP sludge is used as manure for green belt development. Used oil is sold to authorized recycler / re processor only. Complying. We have obtained the 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-
v.	As proposed in EIA / EMP, green belt shall be developed in 80 ha. (30%) out of total	processed in kiln from April-2015. Oil soaked cotton waste is disposed in kiln. As a part of green belt development, We
	256.3 Acres. As per the CPCB Guidelines to mitigate the effect of air emission in consultation with local DFO.	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 Taluka. We have planted a number of plants in and around cement plant and colony. We have covered almost 33% area of total land area from plantation.
Gen	eral Condition :	area from plantation.
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 and also obtained permission for manufacturing the cement based adhesive without increasing the production capacity from MoEF via F. No. J 11011/263/2009- IA II (I) dated 26 September 2012.

iv. One shall autility quality	gaseous and particulate matter sion from various units shall confirm to standards prescribed by the KSPCB. rlocking facilities shall be provided in the ution control so that in the event of the ution control equipment not working, respective unit(s) is shutdown omatically. Ambient Air Quality Monitoring station libe installed in down wind direction. bient air quality including Ambient Noise el shall not exceed the standard ulated under EPA or by the state horities. Monitoring of Ambient air ality and stack emission shall be carried regularly in consultation with KSPCB and nort submitted to the KSPCB quarterly and the Ministry Regional Office at Bangalore if Yearly.	Complying, we have provided online 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. 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
col fug cor veh are and car Co an tra be sh	ensportation of materials shall be provided sides coal, cement, fly ash and clinke hall be stored in silos.	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.
Wa Au	ior permission from the State Ground ater Board, Central Ground Wate athority (SGWB / CGWA) regarding draw ground water shall be obtained.	been obtained from Central / State

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.
xili,	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.	U U U U U U U U U U U U U U U U U U U
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.	in the vernacular language of the locality
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.	
8.0	Any other condition or alteration in the above conditions shall to be implemented by the project authorities in a time bound	

	manner.	
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 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)

Environmental Clearance Compliance Report for the period from April, 2017 to September, 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
)	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 carrie out in closed circuit and highly efficient puls 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	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

	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.	Ministry's regional Office at Bangalore, Central Pollution Control Board (CPCB) and KSPCB half-yearly. The Instruments, used for ambient air quality/stack/noise/fugitive monitoring are being calibrated time to time.
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 all the 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. We have two no. dust sweeping machines also to sweep the dust from paved floors.
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 have been controlled and it is well within the prescribed limits and regularly monitored. CPCB guidelines regarding control of fugitive emission is being followed. Raw materials are being transported through 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, 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. 100% fly ash, generated in Captive power plant, is used in the process.
x)	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 and around the expansion project as per the CPCB guidelines in consultation with the local DFO.	Complying, we have covered almost 33% area of total land area from greenbelt to mitigate the impact of fugitive emissions. We are continuously developing the green belt in and surrounding the area as per the CPCB guidelines in consultation with the local DFO.
xi)	Proper housekeeping and adequate occupational health programmes shall be taken up.	Complying, Proper housekeeping and adequate occupational health programmes are being taken up time to time. Our plant has been certified with ISO 14001, ISO 9001 and OHSAS 18001 also.
xii)	All the recommendations made in the charter on Corporate Responsibility for Environment	Complying, Recommendations made in the Charter on Corporate Responsibility for

D 11	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 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 also to 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 ensured accordingly in a time bound manner.	Complying, item-wise details along with time bound action plan has been prepared and submitted to the Ministry's Regional Office at Bangalore.
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.
	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 the SPCB/CPCB once in six Months.	and stack emission has been enclosed as per Annexure- 1
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, 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 April-2017 to September-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 e-mail) 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
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 April, 2017 to September, 2017

	copies of the clearance letter are available	clearance letter are available with the SPCB
	with the SPCB and may also be seen at	and may also be seen at website of the
	website of the Ministry of Environment and	Ministry of Environment and Forests at
	Forests at http://envfor.nic.in. This shall be	http:/envfor.nic.in. This had been advertised
	advertised within seven days from the date of	within seven days from the date of issue of the
	issue of the clearance letter, at least in two	clearance letter, in two local newspapers that
	local newspapers that are widely circulated	are widely circulated in the region of which
	in the region of which one shall be in the	one was in the vernacular language of the
	vernacular language of the locality	locality concerned and a copy of the same had
	concerned and a copy of the same should be	been forwarded to the regional office at
	forwarded to the regional office at	Bangalore.
	Bangalore.	
xvi)	Project authorities shall inform the Regional	Complied, we had informed the Regional
	Office as well as the Ministry, the date of	Office as well as the Ministry, the date of
	financial closure and final approval of the	financial closure and final approval of the
	project by the concerned authorities and the	project by the concerned authorities and the
	date of commencing the land development	date of commencing the land development
	work.	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 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.	Noted and agreed.
enviro	ct- Stipulation of additional conditions in re onmental clearance ence- MoEF office memorandum dated 06 Apr	
i	Continuous monitoring of stack emissions	

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.

Complied. Continuous monitoring 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 Regional Office of MoEF.	regularly updated. The monitored data is also submitted to respective State Pollution Control Board/UTPCCs and the Regional Office of MoEF.
ii	The ambient air quality data as well as the 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.	Complied. The ambient air quality data as 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)

				000	CONTRACTOR OF THE PERSON	P10	EME	PLA	NT & 2	X25 C	PP MW	V	OF APR		7 TO S	EPTEN	BER-2	017	
	HALI	F YEARLY A	AQM R	EPORT	r (SO ₂	, NO ₂	PM _B	MICI	ROGR	AMS	/ CUE	BIC MI	ETER)	11.7201					
_				(-	SO ₂	ALC	215 315	19144.1	NO ₁	2 817 810			PM ₁	0 - (1.5		SOUTHWARE	PM ₂	ALAM MARKET MARK	
onth	St. No.	Date	Week	1	ocatio	ons		L	ocatio	ns			Location	-			Locati		-
		UUD - O		A	В	MARKET BEAUTY	-	-	-	***************************************	D	A	B	C	D	A 20.1	31.0	C 22.4	D 21.9
	1	4.4.2017	lst	_			-			-	-	-			57.5 57.6	17.8	30.7	15.8	19.7
	2	6.4.2017	3,113		-		-	-		-	-	59,0	-		58.8	58.3	29.2		47.5
A	3	10.4.2017	2nd	-	-	-	-	_	-	-	-	-	-		58.1	58.3	66.7	37.5	60.0
P	4	13.4.2017	197,01100	-		-			-	-	-	57.7	57.5	57.6	57.2	16.7	87.5	41.7	30.8
R	5	15.4.2017	3rd	7.2	-			-	-	-	-	56.9	57.7	57.4	56.7	37.5	75.0	45.8	35.0
I L	6	18.4.2017		7.5	-	-	-		-	-	-	57.8	58.0	58.7	57.2	29.2	37.5	54.2	29.2
14	7	22.4.2017		7.1	7.6	-	-	-	-	-		58.9	57.9	58.7	56.2	45.8	45.8	45.8	52.1
	8	25.4.2017	4th	7.3	7.4	_	-		-		-	58.2	58.9	58.5	57.0	50.0	54.2	29.2	45.8
	1	30.4.2017		-	7.2	-	-		-	-		59.4	58.7	57.2	57.9	39.1	24.2	23.0	48.5
		1.5,2017	lst	6.5	6.5		7.5	-	-	-	8.5	56.7	57,4	56.6	57.4	16.7	33.3	29.2	41.
	2	4.5.2017		7.5	7.5	-	6.7	-	-		8.5	81.7	81.1	80.3	81.0	20.8	25.0	20.8	25.0
(2021	3	8.5.2017	2nd	7.5	7.0	-	6.7	8.5		_	7.5	77.8	75.3	74.1	79.9	16.7	33,3	29.2	36.
M A	5	11.5.2017		7.8	6,5	-	7.5	8.5	7.5	8.2	8.3	48,6	46.2	42.7	47.4	24.2	37.5	25.0	33.
Y	6	18.5.2017	3rd	6.5	7.5		6.8	7.8	8.2	7.5	8.5	66.7	64.8	69.2	65.1	33.3	29.2	29.2	37.
1	7	22.5.2017	-	7.0	7.2	-	5.7	8.2	8.5	8.2	7.5	84.2	87.2	86.0	83.4	20.8	25.0	20.8	33.
	8	25.5.2017	4th	6.5	6.5	7.3	6.5	7.3	8.5	8.5	8.0	66.3	61.8	63.8	65.1	33.3	29.2	33.3	40.
	9	29.5.2017		5.5	5,5	5.5	5.5	7.5	6.5	6.5	7.5	70.7	60.9	64.2	64.5	29.2	33.3	25.0	25
	1	1.6.2017		6.5	6.5	7.5	6.5	7.7	7.5	8.5	7.5	60.4	64.2	62.7	58,6	37.5	37.5	16.7	48.
	2	5.6.2017	lst	6.7	7.5	6.7	7.5	8.7	8.5	8.0	8.2	57.7	58.6	58.6	62.9	10,4	41.7	20.8	41
	3	8.6.2017		7.5	8.5	7.5	7.8	9.0	9.8	9.5	8.2	61.3	69.0	60.2	56.0	16.7	29.2	25.0	25
J	4	12.6.2017	- 2nd	7.0	7.5	8.0	6.5	8,5	8.5	9.5	7.8	45.5	62.4	57.8	50.4	25.0	45.8	37.5	36
U	5	15.6.2017	1	8.2	7.0	7.8	7.5	9.2	8.3	8.5	8.5	57.0	59.3	50.7	53.3	29.2	33.3	25.0	33
N	6	19.6.2017	3rd	6.5	7.3	7.5	7.3	7,5	9.3	8.7	8.7	58.3	57.7	58.0	50.2	16.7	25,0	33.3	3.7
Е	7	22.6.2017		7.5	7.5	8.5	7.5	9.3	8.5	9.5	9.5	53.4	48.9	61.7	62.3	12.5	25.0	37.5	33
	8	26.6.2017	4th	7.8	6.5	7.2	6.7	8.2	7.8	8.2	8.0	61.3	53,4	67.2	56.8	16.7	37.5	25.0	40
	9	29.6.2017		8.5	8.5	8.0	8.5	10.5	10.5	11.8	11.5	58.1	60.1	59.6	58.3	20.8	33,3	37.5	25
	1		-	8.7	6.5	7.0	6.5	4.8	7.5	9.5	8.2	45.1	62.3	54.5	57.1	33.3	20.0	33.3	41
	2	3.7.2017	- 1st	-	5.5	7.5	7.5	3.0	6.0	8.0	8.2	40.5	55.3	49.8	53.2	12.5	25.0	37.5	16
		6,7,2017		9.3	-	-						30.1	46,3	44.8	48.0	8,3	33.3	41.7	33
1	3	10,7,2017	- 2nd	10.5	6.5	6.7	6.7	4.5	7.5	8.2	8.2	-	-	-	-	-	-	-	-
Ü	4	13.7.2017	-	6.5	5.7	6.5	6.0	3,8	7,5	9.5	7.5	24.9	52.6	51.5	40.0	37.5	20.8	45.8	20
L	5	17.7.2017	3rd	2.7	6.7	5.5	6.7	2.0	7.8	8,5	7.0	40.3	48.8	59.1	53.3	29,2	25.0	33.3	12
Y	6	20.7.2017		5.7	6,8	7.5	8.2	6,5	8.8	8.3	9.3	50.9	61.1	46.9	55.3	25.0	20.8	20.8	16
	7	24.7.2017		6.2	7.5	6.5	6.5	7.5	9.5	7.5	7.5	52.5	55.6	56.7	47.2	45.8	29.2	16.7	3
	8	27.7.2017	4th	1.8	7.5	7.0	7.2	5.0	8.2	8.5	9.0	48.1	56.8	54.0	45,2	25.0	33.3	25.0	25
	9	31.7.2017	7	0.5	5.5	6.5	5.5	3.5	6.0	8.3	7.5	39.2	65.4	50.2	57.9	25.0	37.5	20,8	20
	1	2.8.2017	lst	1,7	6,0	5.5	5.3	4.2	7.0	6.5	6.3	33.8	46.2	62.0	41.6	12.5	16.7	29.2	2
	2	5.8.2017	Ist	0.8	5.8	6.5	6.5	4.5	6.5	7.5	7.5	41.5	57.8	56.6	59.5	8.3	25.0	16.7	20
A	3	9.8.2017	T	1.0	6.0	5.5	6.0	3.3	7.3	6.5	7.0	31.4	48,6	48.7	56.6	16.7	29.2	20.8	2
U	4	12.8.201	2nd	1.2	6.5	6.5	6.2	4.2	7.2	7.0	7.5	36.4	52.1	50.2	50.0	16.7	16.7	29.2	2
G		16.8.201	7	2.0	+	-	5.8	4.0	7.8	6.5	6.5	-	-	-	57.8	-	_	-	-
S			3rd	2.1	-	-	5.5	3.3	6.5	7.0	6.2	57.9		-	1			-	
T		A. C. C. C. C. C.	-	1.2	-	-	6.0	4.2	7.0	7.5	7.0	-	-	-		-	-	-	-
'	8	mer (Grant C.)	_	-		-	6.7	4.0	7.2	7.0	7.2	-	-	-	-	-	-	-	
	9	20,0,201	-	0.5	+	-	5.0	2.5	-	-	7.5	-		-	-			-	-
-	1			_	-	-	-	-	6.0	6.0	-	-		-	-		-		-
5			- Ist		-	-	+	-	6.0	7.5	7.5	-	-	-	-			-	-
	2	0.5.051	_	1.3	-	-	-	-	4.5	6.7	5.5	-	-	-	-		-	-	3
1	P 3		2nd	1 1.8	-	-	-	-	6.7	5.5	3.0	-	-	-	-		24.2	3 3	
	r 4	10,5,50	7	2.3	2 2.7	3.8	3.7	9.7	4.3	5.2	3.7	40.	27.1	29.7	27.5	9 12.4	20.0	Go 3	
	E 5	10.7.401	- 3rc	1.3	3 2.3	2,8	2.5	4.5	3.5	4.3	3.5	17.5	24.3	28.7	22.	7 4.1	33.3	200	
	M 6	2000000	7	1.5	5 3.5	3.8	5.2	2.8	4.5	6.7	7.5	19.	29.1	35.5	30.6	6 8.3	24.7	20.8	
	E 7	23.9.201	7	2.3	2 6.1	5.2	6.5	7.5	7.2	6.0	7.5	40.	2 54.9	40.2	2 41.0	6 16.	5 20,8	29.3	
	R 8	27.9.201	7 4th	6,	8 2.5	5 2.3	2.5	9.2	4.5	5.0	3.5	42.	8 17.3	20.2	2 24.	_	-	-	-
	5	30.9.201	17	1.	0 1.3	5 5.5	6.5	1.5	3.5	6.5	9.0	12.		-	-	-			-
		Half Avg.		5.	1 6.	2 6.4	6,4	-	-	-	-	-	-	-	-		_	-	
		Half Min.	21	0.			-												
		Half Max.	100	10						_	-	-				-			+



Dr. Saut (201a)

J.K. Cement WORKS, MUDDAPUR (KARNATAKA)

(Unit: J.K. Cement Ltd.)

Half Yearly Noise monitoring report of Cement & Power Plant for the month of April-2017 to September-2017

St. No.	Location Name	Apr-17	1																
	Lacation Name		77-1	Ma	May-17	J.	Jun-17	Lon	In1.17	-	1.00		-			man rearry	carry		
	AND A STREET							2	/ 1-11	Aug	Aug-1/	36	Sep-17	A	Avg.	Minimum	mnm	Maximum	mnm
Adr		Day (dB) Leq	Day (dB) Night (dB) Day (dB) Night Leq Leq (dB) Leq	Day (dB) Leq	proper .	Day (dB) Leq	Night (dB) Leq		Day (dB) Night (dB)	Day (dB) Leq	Night (dB) Lea	Day (dB)	Night (dB)	Day (dB)	Night	Day (dB)		Day (dB)	Night
Adr	Boundary side	44.7	36.8	46.7	27.3	20.4	701	200						har .	har (on)	har	har (an)	harr	(qp) 17cd
7 1977	Administrative Building	0.37	200	400	7.15	30.4	47.0	27.3	44.6	50.8	43.6	48.6	40.5	48.9	40.9	44.7	36.8	3 63	116
-	Minimum of the Confidence	40.6	33.3	44.3	34.6	42.6	31.5	40.8	30.2	42.6	31.5	40.5	20.7	9 CF	33.0	40.5	2000	0.00	0.1
Ī	Lime Stone Crusher	49.56	42.8	49.9	41.5	54.6	44.7	E 63 A	41.2	610	40.0	200	1 0	0 0	34.0	40.5	30.4	45.8	34.0
×	Kiln/ Cooler Office	56.8	44.1	8 98	457	8 95	356	25.7	0 7.7	21.7	70.7	22.3	47.3	21.8	42.2	49.6	40.2	54.6	44.7
	Power Plant	55.1	3 CF	1 23	42.1	0.00	10.0	33.1	44.8	53.7	42.0	52.7	40.4	55.4	43.8	52.7	40.4	56.8	45.6
Des	Desnatch weigh bridge	47.0	300	1000	1.00	3777	40.5	51.7	41.6	52.4	40.5	50.2	39.8	52.8	41.3	50.2	39.8	55.1	43.1
	Man Oct 1	41.7	20.3	45.05	39.7	24.6	45.7	53.4	43.7	50.9	42.4	516	46.8	50.7	43.7	45.7	30 €	24.5	46.0
	Near QL Lab.	45.8	37.9	45.8	36.9	40.2	30.2	47.8	38.4	31.7	375	100	200	100	177.1	1.0+	20,3	24.0	40.8
	Coal Yard	48.6	36.1	47.2	375	3 44	36.0	200	200	1111	21.2	40.3	30.0	8.74	50.3	40.2	30.2	45.8	38.4
	Near Canteen	45.3	30.6	44.2	31.3	404	33.5	32.7	41.0	21.5	40.6	54.6	41.5	50.2	39.1	46.5	36.1	54.6	41.8
	Plant main gate	46.8	31.2	43.5	7.10	101	32.1	40.1	30.7	42.8	31.5	52.2	40.2	44.2	32.7	40.1	30.6	52.2	40.2
	-	0.04	31.4	43.3	55.4	20.7	41.6	50.2	40.8	49.9	38.8	46.7	356	47.0	27.7	42 €	21.3	202	711
	Uispensary	43.7	32.3	42.8	33.2	41.5	33.3	46.7	32.8	15.5	30.5	101	30.0	200	37.4	43.3	1 1 1	30.5	41.0
	Packing Plant	50.8	42.1	51.6	43.5	54.6	46.9	0 92	40 6	21.0	20.00	720.1	30.0	43.0	32.2	41.5	30.5	46.7	33.3
	General Store	48.3	1.65	47.8	36.4	31.3	7.44	20.0	40.3	24.2	45.6	97.6	43.7	53.4	45.0	50.8	42.1	56.8	48.5
DG	DG House (1-meter			2	10.4	7 12	57.4	6775	32.6	40.8	30.8	38.5	29.6	43.2	33.8	38.5	29.6	483	101
	distance)	67.5	-	58.3	1	56.9	-	62.5		60.4		58.2		0 65	#DIV/OI	56.0	0	2 63	5
200	DG House (2-meter							-					0					0.20	>
	distance)	55.37	ſ	56.7	1	58.4	ı	8.09	1	62.8		9.09		59.1	#DIV/01	55 27	C	0 63	<

Dr. Saurabh Kumar Mgr. (Env.)

Social Development Expenses for the period from April 2017 to Seramber 2017

S.N.	Subject	mount (Rs.)
1	Sir Padampat Primary School Salary May 2017	137000.00
2	Sir Padampat Primary School Salary June 2017	135000.00
3	Sir Padampat Primary School Salary June 2017	30000.00
4	Sir Padampat Primary School Salary September 2017	188000.00
5	Donation to Sightsavers for Blind Persons	10000.00
6	High Mast Towers in Villages	24105.14
7	High Mast Towers in Villages	175 52.70
8	High Mast Towers in Villages	33891.00
9	High Mast Towers in Villages	104 191.25
10	High Mast Towers in Villages	470 00.25
11	High Mast Towers in Villages	62 25.00
12	Hanuman temple Hebbal	81448.77
13	Hanuman temple Hebbal	70010.25
14	Hanuman temple Hebbal	57 58.40
15	Hanuman temple Hebbal	21 70.51
16	ganesh festival exp at lokapur police stn	5000.00
17	Hanuman temple Hebbal	42 52.82
18	Muppin Siddeshwar Jhatra Petlur 10.04.17-12.04.17	25000.00
19	Soil Testing Lab at Haliyal Taluka CSR	3000000.00
20	Panch Kalyan Pooja 28.04.17 - 02.05.17	50000.00
21	Shri Kashilingeshwar Jathra 30.04.17 to 02.05.17	50000.00
22	Director, Deptt. of Sainik Welfare & Resettlement	5010.00
23	Guru Sadashiv Muttya & Chandrigiri Jatra, Petlur	12000.00
24	Balumama Maharaj Jathra at Ningapur	5000.00
25	Police Benevolvement Fund Payment	25000 .00
26	Pandurang Dindi PaadYatra at Halki	15000.00
27	Shakti Siddapur Studying Help for Navodaya School	20000.00
28	Gram Devi Jhatra Hebbal for Annaprasad 29.06.2017	15000. 00
29	Laxmidevi Jathra of Bhajantri Community Metagud	16/160.00
30	Ramappa H. Ittannavar Poor Student Finance Help	5000.00
31	Mounesh Badiger Poor Student Finance Help	20000.00
32	Daughter of Driver Suresh Pattar Medical Help	15000.00
33	Shree Guru raghavendra Swami Aradhana Mahotsav	250-0.00
34	Shree Pandurang Dindi Utsav Meals Arrangement	5017-10
35	Poor & Aged People Help for Pilgrims at Holy Place	00
36	Sweets to School Childrens on 15.08.2017 Mudhol	00
37	K. H. Sabarad - Kalyan Darshan Pravachan Mudhol	00
38	'Raas Garbha & Dandiya' Programe 2017	200 10
39	Durga Devi Puja at Worker's Colony Muddapur	0
40	Ganesh Chaturthi Singing Programme at Metgud	1 0
41	Holabasu Kushal Hebbal wrestling Coach Sponsorship	. 00
	Total	0:

J.K. Cement WORKS, MUDDAPUR (KARNATAKA)

Half Yearly Fugitive Emission Monitoring Report of Cement plant for the Period from April-2017 to September-2017

					SPM (microgram/m3)	ram/m3)		
NO.	SL. NO. MONTH/YEAR	Gypsum Yard Slag Yard Flyash Yard Cement mill	Slag Yard	Flyash Yard	Cement mill	Lime stone	Lime stone	Lucy Ioo
							crushing Site	Coal Iaiu
_	April	418.7	515.2	486.0	414.1	3736	455 5	2 000
7	May	424.8	520.9	476.6	414.8	367.3	456.6	0.000
3	June	493.5	470.9	488 1	506.1	400 7	460.4	0.000
*	Inly	4103	0000	0.001	1.000	1777.1	+07.4	4.760
T.	ymy	410.3	77866	538.0	531.9	485.5	612.7	570.6
	August	412.2	486.5	533,3	2 299	598.4	5653	4417
	September	534.0	5722	1566	6610	2000	0.000	441./
	Automote	0.00	7.7	0.000	301.0	5/3.3	421.7	456.1
	Average	448.9	520.6	496.4	516.0	483.0	0 707	2007
	Minimum	410.3	470.9	456.6	414.1	367.3	1212	0.63.3
2	Waximum	0 7 6 2	0 011	0.00	77.7.7	0./00	471./	441.7
1.0	TIID III KAN	0.400	2/7.7	538.0	667.2	598.4	612.7	808 5



Dr.Saurabh Kumar

Mgr(Env)

J.K. Cement WORKS, MUDDAPUR (KARNATAKA)

(Unit : J.K. Cement Ltd.)

Half Yeariy Stack monitoring report of Cement plant & 2x25 MW Thermal power plant for April-2017 to September-2017

- 1		Stack	Stack locations				
Kiln / Raw Coa	Coal Mill Bag Cool	Cooler ESP	LSC	CM-1	CM-2	Slag mill	Coal
12.5	13.4	14.0	11.7	11.7	10.7	15.6	13.9
12.2	14.9	13.3	13.5	12.4	13.0	14.4	13.0
11.2	10.9	13.7	13.8	12.4	13.0	12.5	11.2
12.6	12.3 P	14.0	13.8	13.4	14.8	11.5	13.0
14.7	14.8	15.7	13.0	13.2	10.2	14.4	14.0
12.3	11.3	11.2	11.4	13.2	13.5	13.39	13.82
12.6	12.9	13.6	12.9	12.7	12.5	13.6	13.1
11.2	10.9	11.2	11.4	11.7	10.2	11.5	11.2
14.7	077	15.7	13.8	13.4	14.8	15.6	14.0

	CM Sep-1 CM Sep-2	11.7 10.7	12.4 13.0	13.8 12.4	13.4 14.8
	Clinker Storage	10.3	10.1	11.3	11.9
	Clinker	13.1	Shutdown	Shutdown	Shutdown
Stack locations	RMT	12.6	11.1	13.7	12.6
Stack	Packing plant No-4	Shutdown	Shutdown	Shutdown	Shutdown
		15.4	10.7	11.2	13.0
	Packing plant Packing plant No-2 No-3	11.0	12.6	14.0	146
	Packing plant No-1	11.4	13.5	13.0	13.9
	Month/Year	Apr-17	May-17	Jun-17	Jul-17
	SI. No.	-	2	м	4

Dr. Saurabh Kumar Mgr(Env)



J.K. Cement WORKS, MUDDAPUR (KARNATAKA)

(Unit: J.K. Cement Ltd.)

Oils and Grease (mg/L) EFFLUENT WATER ANALYSIS REPORT (Monthly Average) FOR THE MONTH OF APRIL-2017 TO SEPTEMBER-2017 #DIV/0! 5.5 to 9 0.0 0.0 Z Z Z Z Z Z pH value 18.07 8.20 8.10 8.10 100 7.91 8.6 7.9 18.1 Suspended Solids (mg/L) | Temperature (°C) max Unobjectionable 16.58 0.58 0.62 0.52 0.48 0.48 9.91 3.2 0.5 50.53 26.29 50.09 48.13 84.77 52.8 26.3 Half Yearly Minimum Half YearlyMaximum Permissible limit Half Yearly Avg Constituents Apr-17 Aug-17 May-17 Jun-17 Sep-17 Jul-17



Dr.Saurabh Kumar Mgr. (Env.)

Vari Patif Analysed by

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

N. IS	Month	Suspended Solids	PH	PH BOD COD NH4-N	COD	NH4-N	N-total	Fecal Coliform	PO4-P,
1	Tollamondo limit	01	6 to 9	10	50	32	10	<,230	2
Loici	Anr-17	202	2 68	989	37.11	3.75	7.45	IN	89:0
	N. 17	0.03	1,00	684	06 92	3.73	7.45	Ē	89.0
1	May-17	5.49	7.08	0,04			ict	Z	0.65
	Jun-17	7.08	7.23	6.85	37.49	3.01	1.0.7		2000
	Jul-17	7.46	7.12	06.90	32.66	3.84	7.08	Z	0.67
4	A 17		CAL	LE 3	3163	3.96	7.71	Z	77.0
	Aug-1/	7.02	0.58	0.17	2017			50	700
	Sep-17	6.82	6.59	6.70	28.88	3.73	7.38	III.	0.70
Tolf V	Half Vearly Min	v	9.9	6.7	28.9	3.6	7.0	0.0	9.0
Lalf V.	Half Vanely May	45	7.7	6.9	37.5	4.0	7.7	0.0	8.0
T. IC V.	THE IEV.		1	8.9	34.1	3.8	7.3	#DIV/0!	0.7

Dr. Saurabh Kumar Mgr. (Env.)

Vaei Patiil Analysed by

Date & Time	PM 10	PM2.5	802	ON	NO2	XON	00
	µg/m3	µg/m3	µg/m3	hg/m3	ng/m3	uq/m3	ma/m3
Apr-17	66.78	19.35	12.92	2.01	10.58	12.67	0.41
May-17	57.47	21.91	5.89	0.58	7.59	8.05	0.28
Jun-17	31.29	22.25	9.03	0.66	2.49	3.09	0.31
Jul-17	35.8	12.56	4.95	0.98	2.84	4.03	0.49
Aug-17	36.11	11.55	2.1	1.15	4.01	4.96	0.41
Sep-17	34.105	14.8	3,55	1.58	5.85	6.8	0.51
Minimum	31.29	11.55	2.01	0.58	2.49	3.09	0.31
Maximum	86.78	22.25	12.92	2.01	10.58	12.67	0.51
Avg	43.59	17.07	6.41	1.16	5.56	6.60	0.40
Num	9	9	9	9	9	9	9
Data[%]	100	100	100	100	100	100	100

		3 (3.3)	600	ON	NOX NOX	XON	
Date & Time	PM 10	PM2.5	202	2	102		'mare land
	1100/m2	ind/m3	ua/m3	hg/m3	µg/m3	µg/m3	CIII/BIII
	hamma	7.07	44.0	1.0	56	11.5	0.8
Apr-17	5/.1	13.4	7.11	7:	000	40.6	0.7
1 NA 17	59.4	19.2	10.6	2.6	10.0	0.71	500
Ividy-17		100	0 3	3.5	6.7	10.2	0.5
Jun-17	47.6	9.1	0.0	000	1 5	103	0.5
111-17	40.1	11.4	9.6	6.7	4.0	5.7	300
	27.4	0.7	96	10.3	4.9	15.2	0.0
Aug-1/	4.70	3.6	10.4	0.4	3.2	11.4	0.4
Sep-17	33.8	12.4	10.7	0.0	4.0	40.0	DA
Adinimitan	33.8	7.60	8.0	1.2	3.2	10.2	5
	200	40.5	110	10.3	10.0	15.2	0.8
Maximum	59.4	3.6	7.1.1		A A	12.2	9.0
Ava	45.1	12.6	10.0	5.6	0.0	-9:-7	0
SAC :		0.0	08	60	6.0	6.0	6.0
Num Num	0.0	0.0	0.0	9	0 000	000+	1000
Link	0.0	200	0000	0 007	1000		100.0

Station: CEMS Periodically: April 2017 - Ser

1		· Current	100	- ספלונווות	Soli Soli Soli Soli Soli Ighe. Ave Monthly 13 Miles.		III S.
Date & Time	CPP/ESP SPM	CPP/ESP SO2	CPP/ESP NOx	CPP/ESP 02	CEMENT MILL Stack SPM	Cooler ESP SPM	Coal Mill SPM
	mg/m3	ma/m3	ma/m3	T	ma/m3		The second second
Anr-17	26 84	255 17	07 700	2000	CILIBILI	CIII/gill	mg/m3
1 1 1 1 1 1 1	10.02	333.17	221.40	13.23	4.40	11.24	4.88
May-1/	26.46	462.50	256.72	12.34	13.40	15.28	0 88
Jun-17	27.46	295.04	175.96	12.87	10.01	4.20	9.00
Jul-17	27.80	207 57	047.00	44.00	17.7	4.30	77.0
A 47	25.70	10.103	77.717	14.30	4.82	15.66	8.55
Aug-1/	42.14	312.07	189.50	16.12	7 89	15.45	1217
Sep-17	23.50	310 70	470 00	44.47		27:02	2.5.
	00:01	013.10	17.039	14.45	3.50	15.90	13.16
Minimum	23.50	207.57	173.89	12.34	3.50	4 30	4 88
Maximum	27.80	462.50	256.72	16 12	13.40	15.00	40.41
Avg	26.20	325.34	205 78	13 93	7.70	10.00	13.17
Num	00.9	6.00	8.00	000	00.0	18.71	9.61
Date 10/7	00000		0,0	0.00	00.00	90.9	00.9
Dala 70	100.00	100.00	100.00	100.00	100.00	100 00	100 00
			The second secon			00.00	00.00

Station: CEMS Periodically: April 2017 - Septe

-		- containing the manage was the manage - containing the minimal	in ober and in in	in the minus of
Date & Time	KILN & RM Stack SPM	KILN & RM Stack SO2	KILN & RM Stack NOx	KILN & RM Stack 02
	mg/m3	mg/m3	mg/m3	%
Apr-17	24.88	51.02	431.26	14.95
May-17	18.03	37.12	462.00	15.16
Jun-17	5.29	49.40	463.02	14.05
Jul-17	13.91	45.78	426.75	13.77
Aug-17	7.27	18.06	339.24	15.18
Sep-17	16.12	37.58	480.12	15.08
Minimum	5.29	18.06	339.24	13.77
Maximum	24.88	51.02	480.12	15.18
Avg	14.25	39.83	433.73	14.70
Num	6.00	6.00	6.00	6.00
Data[%]	100.00	100.00	100.00	100.00