

Reg A.D

JKLCL/ENVT/MOEF/

Date: 18.06.2020

To,

Regional Director,
Ministry of Environment, Forests and Climatic Change
Regional Office (Central Region).Kendriya Bhawan,
5th Floor, Sector "H" Aliganj,
Lucknow – 226024 (UP)

Sub: Submission of Six Monthly EC Compliance Report (Oct- 2019 – March 2019) by M/s JK Lakshmi Cement Ltd., Village – Jaykapuram, Tehsil – Pindwara, Dist. Sirohi, Rajasthan

Ref: Environment Clearance No: J-11011/306/2013-I-A-II/ (I) dated, 28.10.2016 & J-11011/291/2006-I-A-II/(i)dated 24.01.2007

Dear Sir,

Please find enclosed herewith point wise Six Monthly EC Compliance status for the period from October 2019 – March 2020 of Environment Clearance condition stipulated by MoEF&CC vide letter no. J-11011/306/2013-I-A-II/ (I) dated 28.10.2016 & J-11011/291/2006-I-A-II/ (i) dated 24.01.2007

We hope you will find the above in order.

Thanking you.
Yours Faithfully,
For JK LAKSHMI CEMENT LTD.

(Rajpal Singh Shekhawat)
General Manger (Production)

- CC:
- 1) Regional Director, Central Pollution Control Board
4th Floor, Sahkar Bhawan North T.T. Nagar Bhopal
462003
 - 2) The Member Secretary, Rajasthan State
Pollution Control Board, 4 Institutional Area,
Jhalana Doongari, Jaipur 302004



**COMPLIANCE OF CONDITIONS OF ENVIRONMENTAL CLEARANCE LETTER NO. F.NO. J -11011/306/2013-IA/II(I)
DATED 28.10.2016 OF
M/s JK LAKSHMI CEMENT Ltd., JAYKAYPURAM, TEHSIL PINDWARA, DISTT. SIROHI (RAJ.)**

S.No.	CONDITIONS	COMPLIANCE STATUS
A.	SPECIFIC CONDITION	
1	The project proponent should install 24x7 air monitoring device to monitor emissions, as provided by the CPCB and submit report to Ministry and its Regional Office.	Continuous Ambient Air Quality Monitoring System has been installed for 24X7 monitoring parameters PM ₁₀ , PM _{2.5} , NO _x , SO ₂ & CO. Online CAAQMS monitoring data are being transferred to RSPCB server and CPCB server connection is under process.
2	The Standards issued by the Ministry vide G.S.R. No. 612(E) dated 25 th August 2014 regarding cement plants with respect to particulate matter, SO ₂ and NO _x shall be followed.	It is being followed and we are maintaining the emission level of particulate matter, SO ₂ and NO _x , as per the standards issued by MoEF&CC notification G.S.R No. 612 (E) dated 25 th August 2014 and as amended by MoEF&CC dated 9 th and 10 th May 2016 regarding cement plants. Stack Monitoring Report is attached as Annexure-II.
3	Continuous stack monitoring facilities to monitor gaseous emissions from the process stacks shall be provided. After expansion, limit of PM shall be controlled to meet prescribed standards by installing adequate air pollution control viz. Electrostatic precipitators to Clinker cooler, bag house to raw mill/kiln and bag filters to coal mill and cement mill. Low NO _x burners shall be provided to control NO _x emissions. Regular calibration of the instrument must be ensured.	Continuous Emission Monitoring Systems (CEMS) to monitor gaseous emissions (SO ₂ & NO _x) installed for Kiln/VRM Stacks. At present we are not going for expansion project. We have installed adequate pollution control equipment systems for existing plant viz. Electrostatic Precipitators (ESP) to clinker cooler, Reverse Air Bag House (RABH), Pulse Jet Bag House to Raw Mill/Kilns and Pulse Jet Bag House to coal mill and cement mills. We had installed Low NO _x Burner in Kiln 2. Moreover; JKLC was the first among the Indian Cement Plants to adopt SNCR technology for DeNO _x from Kiln 1. Further, we have installed SNCR in Kiln 2 & Kiln 3 also. At present we have SNCR in all three Kilns.
4	The project proponent shall take all precautionary measures during construction/operation of the project for conservation and protection of endangered fauna namely sloth bear, leopard etc. found in the project area and its surroundings. Mitigation measures including rescue and rehabilitation of wild animals coming in conflict with humans will form part of overall conservation strategy etc. Action plan for conservation of flora and fauna shall be prepared and implemented in consultation with the State Forest and Wildlife Department. Necessary allocation of fund for implementation of the conservation plan shall be made and the funds so allocated shall be included in the project cost. All the safeguard measures brought out in the Wildlife Conservation Plan so prepared specific conservation plan shall be submitted to the Ministry of Environment and Forest and its Regional Office, Lucknow.	At present we are not going for expansion project, The conservation plan has been made and submitted to DFO, Sirohi vide letter no. JKLC/Env/ToR/B77/10336 dt. 13/01/2016. Subsequent communication for approval vide letter no JKLC letter no - JKLC/ENV/Limestone/EC dated 11.11.2016. And we are pursuing the matter vide letter no : JKLC/Env/Cons/Mine/90293 dated 12/09/2019 with Dy. Conservator of Forest (Wildlife), Mount Abu, District Sirohi (Raj)

5	Efforts shall be made to achieve power consumption of 70 units/tonne for Portland Pozzolona Cement (PPC) and 95 units/tonne for Ordinary Portland Cement (OPC) production and thermal energy consumption of 670 Kcal/Kg of clinker.	We are continuously putting effort towards reducing the power consumption through process optimization. We have received Energy Efficiency Awards from reputed institute. This is continuously improvement process; we will definitely strive to achieve power consumption as prescribed in the condition.
6	The National Ambient Air Quality Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16 th November 2009 shall be followed.	The National Ambient Air Quality Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16 th November 2009 is being followed. Monitoring Report enclosed as Annexure-I
7	AAQ Modeling shall be carried out based on the specific mitigative measures taken in the existing project and proposed for the expansion project to keep the emissions well below prescribed standards.	At present we are not going for expansion project. However, we are complying with emissions standards as notified by MoEFCC vide Notification dt. 09 th May 2016 and 10 th May 2016 (with co-processing). Emissions are well within norms. CEMS are installed for all major stacks for 24x7 monitoring. Online monitoring data are being transferred to CPCB and RSPCB servers.
8	Secondary fugitive emissions shall be controlled and shall be within the prescribed limits and regularly monitored. Guideline/Code of Practice issued by the CPCB in this regard shall be followed.	We have provided adequate pollution control systems for all sources. We have covered stock pile Limestone, Coal and other raw materials. Conveyor belts are covered. Transfer towers are well equipped with bag filters. Water spray systems are provided with transfer tower at suitable locations. We are complying with CPCB fugitive dust emission guideline.
9	Arsenic and Mercury shall be monitored in emissions, ambient air and water.	Arsenic and Mercury parameters are being monitored from MoEFCC and NABL recognized lab. Report is being attached as annexure IV
10	The coal yard shall be lined and covered.	We have Coal Stock Pile properly covered by shade and paved by impervious concrete floor. It is being complied.
11	Efforts shall be made to reduce impact of the transporter of the raw materials and end products on the surrounding environment including agricultural land by use of conveyors/rail mode of transport wherever feasible. The company shall have separate truck parking area. Vehicular emissions shall be regularly monitored.	We have Captive Limestone Mines adjacent to Cement Plant. Crushed limestone is being conveyed through covered conveyor belts to cement plant. Raw materials are being received through both road and rails. All the roads inside and outside of the plant premises of factory boundary are paved and we are strictly maintaining speed limit restrictions to avoid spillage of materials. Company has provided separate truck parking area and periodic PUC camps are being organized to monitor vehicular emissions.
12	Efforts shall be made further to reduce water consumption by using air cooled condensers. All the treated wastewater shall be recycled and reused in the process and/or for dust suppression and green belt development and other plant related activities etc. No process wastewater shall be discharged outside the factory premises and 'zero' discharge shall be adopted.	Water in cement plant is used only for industrial cooling purpose and it is re-circulated in nature. We are already operating air cooled condenser in our Waste Heat Recovery based power plant and Coal Based Captive Thermal Power Plants. We are continuously striving to reduce water consumption for sustainable growth. We are maintaining ZLD from factory premises. Domestic sewage is being treated in STP (Cap. 400 m ³ /day). Treated water is being recycled and reused in industrial cooling in own cement plant.
13	Efforts shall be made to make use of rain water harvested. If needed, capacity of the reservoir shall be enhanced to meet the maximum water requirement. Only balance water requirement	We have constructed artificial groundwater recharge structures with various rainwater harvesting techniques in colony area, plant, mine and surroundings of plant premises to collect rain water

	shall be met from other sources.	and augmentation of ground water table. We have two water reservoirs of capacity 12500 m ³ and 16500 m ³ constructed in colony area for rain water harvesting. Moreover, we have channelized storm rain water into nearby artificial ponds constructed and developed by JKLC. We have constructed sufficient Nos. of ground water recharge structures in the colony (surface and roof top structures). We have also constructed 08 nos. MPit under Mukhya Mantri Jal Swavlamban Yojna in nearby Rampura village.
14	Regular monitoring of influent and effluent surface, sub-surface and ground water shall be ensured and treated wastewater shall meet the norms prescribed by the State Pollution Control Board or described under the Environment (Protection) Act, 1986 whichever are more stringent. Leachate study for the effluent generated and analysis shall also be regularly carried out and report submitted to the Ministry's Regional Office, SPCB and CPCB.	We have dry manufacturing process for cement. Water is only used for cooling purposes in cement plant. Hence, there is no generation of effluent from cement manufacturing process. In CTPPs waste water is being used in industrial cooling in own cement plant after necessary treatment. We are maintaining zero liquid discharge. Monitoring of ground water is being done periodically as per Ground Water NOC condition. Annual report is also being submitted with competent authorities. We have STP (Cap. 400 m ³ /day) for treatment of domestic sewage. Treated water is being used in industrial cooling in own cement plant. Treated water analysis is being done by approved lab. Periodically. Analysis report is being submitted with RSPCB.
15	All the bag filter dust, raw mill dust, coal dust, clinker dust and cement dust from pollution control devices shall be recycled and reused in the process and used for cement manufacturing. Spent oil and batteries shall be sold to authorize recyclers/re-processors only.	Being complied. All dust from pollution control equipments is being recycled and reused in the process for cement manufacturing. Used oil and Lead Acid Batteries are being sold to authorized recyclers only.
16	The kiln shall be provided with a flexible fuel feeding system to enable use of hazardous wastes and other wastes including biomass etc.	We have separate AFR feeding system for all lines. We are utilizing AFR and Biomass for Co-processing into cement kiln. We have obtained authorization for the same from RSPCB.
17	The proponent shall examine and prepare a plan for utilization of high calorific wastes such as chemical waste, distillation residues, refuse derived fuels, etc. as alternate fuels based on availability and composition. For this, the proponent shall identify suitable industries with such wastes and enter into an MOU for long term utilization of such wastes as per the Environment (Protection) Rules, 1986 and with necessary approvals.	We are already utilizing more than 61 types of alternate fuels based on availability and composition such as Biomass, RDF Fluff, De-oiled cake, Pulp waste, plastic waste, TDI Tar, Waste mix solids, ETP Sludge, distillation residues etc. We had obtained requisite authorization from RSPCB in this regard.
18	Efforts shall be made to use of high calorific hazardous waste in the cement kiln and necessary provision shall be made accordingly. The PP shall enter into an MOU with units with potential for generating hazardous waste and in accordance with Hazardous Waste Regulations and prior approval of the PCB.	We are already utilizing preprocessed hazardous wastes more than 61 nos. such as Distillation residue, process waste, ETP Sludge, Plastic Waste, TDI Tar and Waste mix solids etc. as fuel for co-processing into Kiln after obtained authorization from Rajasthan State Pollution Control Board.
19	Green belt over 33% of the total project area shall be developed within plant premises with at least 10 meter wide green belt on all sides along the periphery of the project area and	Green belt area developed in 33% of the total project area. We are continuously developing Green belt area wherever possible on suitable sides along the periphery of the factory premise and road side by

	along road sides etc. by planting native and broad leaved species in consultation with local DFO, local community and as per the CPCB guidelines.	planting native species as per guideline.																											
20	The project proponent shall provide for solar light system for all common areas, street lights, villages, parking around project area and maintain the same regularly.	We have installed roof top solar panels for electricity in our school building, guest house, married hostel, field hostel and Manoranjan Kendra located in colony premises. Presently we have installed solar panels with generation capacity of 264 KW. Further, we are in process to install Solar Power Plant to ensure utilization of renewable energy resource.																											
21	The project proponent shall provide for LED lights in their offices and residential areas.	We have replaced CFL with LED lights in most of the offices of cement plant, mines, captive power plant, and in residential areas.																											
22	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Cement Plants shall be implemented.	CREP for the Cement Plant is being followed. Compliance of CREP guideline for cement plant is enclosed as Annexure-V.																											
23	At least 2.5% of the total cost of the project shall be earmarked towards the Enterprise Social Commitment (ESC) based on local needs and action plan with financial and physical breakup/details shall be prepared and submitted to the Ministry's Regional Office, Implementation of such program shall be ensured accordingly in a time bound manner.	At present we are not going for expansion project. We are doing CSR towards local needs viz. Health - Integrated family welfare programmes under Naya Savera, Swaccha Kishori – Swatha Kishori, Dental Check up Camp, HIV/Aids and Silicosis Awareness Programme, Nand Ghar Yojana (Adoption of 05 Anganwadi Centres), Education Project (Adult Literacy Programme, Aarambh (Admission of new & dropout children), Sponsoring Teachers in nearby govt. Schools, Scholarship for students), Skill Development Programme (Computer Operator, Sewing, Mobile Repairing & Beautician Training Programme), Livelihood Enhancement Project (Vegetable Seeds Distribution programme), Rural Development Developing Rampura as a model village, Infrastructure Development in nearby Villages, Promotion of Sports and Games, Drinking Water facility in rural areas, Need based help to the nearby community etc.																											
24	The proponent shall prepare a detailed CSRT Plan for every year for the next 5 years for the existing – cum –expansion project, which includes village-wise, sector-wise (Health, Education, Sanitation, Health, Skill Development and Infrastructure requirements such as strengthening of village roads, avenue plantation etc) activities in consultation with the local communities and administration. The CSR Plan will include the amount of 2% retain annual profits as provided for in Clause 135 of the Companies Act, 2013 which provides for 2% of the average net profits of previous 3 years towards CSR activities for life of the project. A separate budget head shall be created and the annual capital and revenue expenditure on various activities of the plan shall be submitted as part of the Compliance Report to RO. The details of the CSR Plan shall also be uploaded on the company website and shall also be	At present we are not going for expansion project. During the October-2019 to March-2020 the Company spent Rs. 29.98 lakhs on CSR activities in the following broad areas: <table border="1" data-bbox="824 1444 1445 1890"> <thead> <tr> <th>S.No</th> <th>Particulars</th> <th>Actual (Lakhs)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Health Care</td> <td>12.34</td> </tr> <tr> <td>2</td> <td>Drinking Water</td> <td>-</td> </tr> <tr> <td>3</td> <td>Education Promotion</td> <td>1.53</td> </tr> <tr> <td>4</td> <td>Skill Development</td> <td>1.06</td> </tr> <tr> <td>5</td> <td>Livelihood Initiatives</td> <td>0.53</td> </tr> <tr> <td>6</td> <td>Rural Development</td> <td>3.45</td> </tr> <tr> <td>7.</td> <td>Distribution of ration Kits among nearby villagers and provided Sanitizer to District Administration</td> <td>10.82</td> </tr> <tr> <td></td> <td>Total</td> <td>29.98</td> </tr> </tbody> </table>	S.No	Particulars	Actual (Lakhs)	1	Health Care	12.34	2	Drinking Water	-	3	Education Promotion	1.53	4	Skill Development	1.06	5	Livelihood Initiatives	0.53	6	Rural Development	3.45	7.	Distribution of ration Kits among nearby villagers and provided Sanitizer to District Administration	10.82		Total	29.98
S.No	Particulars	Actual (Lakhs)																											
1	Health Care	12.34																											
2	Drinking Water	-																											
3	Education Promotion	1.53																											
4	Skill Development	1.06																											
5	Livelihood Initiatives	0.53																											
6	Rural Development	3.45																											
7.	Distribution of ration Kits among nearby villagers and provided Sanitizer to District Administration	10.82																											
	Total	29.98																											

	provided in the Annual Report of the company.	
25	A Risk Assessment Study and Disaster Preparedness and Management Plan along with the mitigation measures shall be prepared with a focus of Disaster Prevention and a copy submitted to the Ministry's Regional Office, SPCB and CPCB within 03 months of issue of environment clearance letter.	Risk Assessment Study and Disaster Preparedness and Management Plan along with mitigation measures have already been submitted with the previous compliance report vide letter no. JKLC/ENVT/MOEF/60003 dt.31/05/2017.
26	To educate the workers, all the work places where dust may cause a hazard shall be clearly indicated as a dust exposure area through the use of display signs which identifies the hazard and the associated health effects.	Noted. Signage boards are mounted at suitable locations. It is being followed.
27	Pre-placement medical examination and periodical medical examination of the workers engaged in the project shall be carried out and records maintained. For the purpose, schedule of health examination of the workers should be drawn and followed accordingly.	At present we are not going for expansion project. Pre-placement medical examination is being carried out at the time of recruitment and records are being maintained. At present we are not going for expansion project but we will surely carry out periodical medical examination of the workers going to be engaged in the project with proper scheduling of health examination of the workers.
28	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, Safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	At present no expansion project work started. If required same shall be complied.
S.No.	CONDITIONS	COMPLIANCE STATUS
B.	GENERAL CONDITIONS:	
1	The project authorities must strictly adhere to the stipulation made by the Rajasthan Pollution Control Board and the State Government.	Noted. We are complying time to time with order published from RSPCB as applicable with us.
2	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEFCC).	Noted. We will not carry out any further expansion or modification without prior approval of the MoEFCC.
3	At least four ambient air quality monitoring stations should be established in the downward direction as well as where maximum ground level concentration of PM ₁₀ , PM _{2.5} , SO ₂ and NO _x are anticipated in consultation with the SPCB. Data on ambient air quality and stack emission shall be regularly submitted to this Ministry including its Regional Office at Lucknow and the SPCB/CPCB once in six months.	It is being complied. Third Party Ambient Air & Stack Monitoring Reports are attached as annexure IV .
4	Industrial wastewater shall be properly collected, treated so as to conform to the standards prescribed under GSR 422(E) dated 19 th May, 1993 and 31 st December 1993 or as amended from time to time. The treated wastewater shall be utilized for plantation purpose.	Cement manufacturing is a dry process. Our process does not generate Industrial wastewater from factory premises. The treated water generated from STP is only recycled and reused in industrial cooling in own cement plant. Wastewater generated from captive power plant is recycled and reused for industrial cooling purposes after necessary treatment. We are maintaining ZLD.

5	The overall noise level in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosure etc. on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dB A (day time) and 70 dB A (nighttime).	Being complied. The overall noise level in and around the plant area is maintained well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosure etc. on all sources of noise generation. Efforts are made to confirm the standards within 75 dB A (day time) and 70 dB A (night time). Noise Monitoring Report is enclosed Annexure-III .
6	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	It is being complied.
7	The company shall develop rain water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.	We are harvesting rain water through various techniques & we have developed different rain water harvesting structures solely to recharge the ground water table as per hydrogeology of area. We have channelized storm rain water from hillocks into artificial ponds (support and constructed by JKLC) in nearby villages. Moreover, we had constructed 08 nos. MPIT in Rampura village under Mukhya Mantri Jal Swavlamban Yojna. We are recipient of 2nd best position National Water Excellence Award – 2018 from QCFI, CMA, NCCBM Hyderabad Chapter.
8	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 surroundings villages like community development programmes, educational programmes, drinking water supply and health care etc.	Noted. At present we are not going for expansion project. We will comply all the environmental protection measures and safeguards recommended in the EIA/EMP report. JKLC is doing CSR activities in nearby villages under different verticals.
9	Requisite funds shall be earmarked towards capital cost and recurring cost/annum for environmental pollution control measures to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change (MoEFCC) 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 Lucknow. The funds so provided shall not be diverted for any other purpose.	Noted. At present we are not going for expansion project.
10	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/representation, 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.	The public notice was notified in the two local news papers viz. Dainik Bhaskar & Rajasthan Patrika dt. 5th November 2016 and copies of the same were submitted to RO, MOEFCC, Lucknow. The Environmental Clearance letter was submitted to concern authorities vide letter dated 22.11.2016. It is also put on the company's Official website which is accessible to everyone
11	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	We are periodically uploading compliance of the stipulated environmental clearance conditions including monitoring data report to our website. It is being submitted periodically to MoEFCC, Lucknow office.

	simultaneously be sent to the Regional Office of the MoEFCC at Lucknow. The respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; PM ₁₀ , SO ₂ , NO _x (ambient levels as well as stack emission) or critical sectoral parameters, indicating for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	AAQMs and Stack CEMS data are being monitored and displayed near the factory's main gate in the public domain.
12	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 MoEFCC, the respective Zonal Office of CPCB and the SPCB. The Regional Office of this Ministry at Lucknow/CPCB/SPCB shall monitor the stipulated conditions.	We are 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 MoEFCC, the respective Zonal Office of CPCB and the SPCB without delay.
13	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, 1986, 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 MoEFCC at Lucknow by e-mail.	Environmental statement for each financial year ending 31 st March in Form – V as is mandated is timely submitted to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986 and also sent to the respective Regional Office of the MoEFCC at Lucknow by e-mail. As amended subsequently, We also put the same on the website of the company along with the status of compliance of environmental conditions and shall be complied.
14	The Project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB and may also be seen at Website of the Ministry of Environment, Forests and Climate Change (MoEFCC) at http://envfornic.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 Lucknow.	The public notice was notified in the two local news papers viz. Dainik Bhaskar & Rajasthan Patrika dt. 5th November 2016 and copies of the same were submitted to RO, MOEFCC, Lucknow.
15	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.	At present expansion project yet not started. As soon as we implement expansion project same will be submitted to your good office.

**COMPLIANCE CONDITIONS OF ENVIRONMENTAL CLEARANCE LETTER NO. F.NO. J -11011/291/2006-IA/II(I)
DATED 24.01.2007 OF
M/s JK LAKSHMI CEMENT Ltd., JAYKAYPURAM, TEHSIL PINDWARA, DISTT. SIROHI (RAJ.)**

S.No.	CONDITIONS	COMPLIANCE STATUS
A.	SPECIFIC CONDITION	
1	The gaseous and particulate matter emission from various units shall conform to the standards prescribed by the Rajasthan State Pollution Control Board. At no time particulate emissions from the cement plant including kiln, coal mill, cement mill, Cooler and captive power plant (CPP) shall exceed 50mg/Nm ³ . Continuous on-line monitors for particulate emissions shall be installed. Interlocking facility shall be provided in the pollution control equipment so that in the event of the pollution control equipment not working, the respective unit(s) is shut down automatically.	An emission level below 30 mg/Nm ³ (As per the MoEF CC notification dt, 09.05.2017) from all the major stacks attached to Kiln/Raw Mill, Coal Mill, Cement Mill, Clinker Cooler and below 50 mg/Nm ³ for captive power plant is being maintained as standards prescribed by the RSPCB. Continuous on-line monitors for particulate emissions are installed on all major stacks. Inter locking of main plant is provided with major pollution control equipment so that in case of non-functioning of pollution control equipment the main plant will get automatically shut down and can't be restarted till the rectification of problem in PCE's. Stack Monitoring Report is attached as Annexure-II.
2	Ambient air quality including ambient noise levels shall not exceed the standards stipulated under EPA or by the state authorities. Monitoring of ambient air quality and shall be carried out regularly in consultation with RSPCB and data for air emissions shall be submitted to the CPCB and RSPCB regularly. The instruments used for ambient air quality monitoring shall be calibrated time to time.	Ambient air quality including ambient noise levels are well within standards stipulated under EPA/State authorities. Monitoring of ambient air quality is being carried out regularly. Quarterly monitoring report is being submitted to RSPCB. The instruments used for ambient air quality monitoring are calibrated as per the norms. Ambient Air Quality Monitoring Report enclosed as Annexure-I & Ambient Noise Monitoring Report is enclosed Annexure-III.
3	The company shall install adequate dust collection and extraction system to control fugitive dust emissions at coal and limestone unloading points and at all the transfer points. Atomized water spray system with reclaimers shall be installed in silo used for the storage of ash. Storage of other raw materials shall be in closed roof sheds. Covered conveyer belts shall be used to reduce fugitive emissions. ESPs shall be installed in captive thermal power plant and clinker cooler. Bag filters shall be provided in process plant and power plant and bag house in new cement mills, vertical rolling mill (VRM) and new coal mill to control air emissions.	JK Lakshmi Cement (JKLC) has adequate dust collection and extraction system to control fugitive dust emissions at coal and limestone unloading points and at all the material unloading, transfer points, hopper chute to conveyor belt. Atomized water spray system is installed at unloading points. Clinker, Raw meal, Fly ash are stored in silos. Raw materials, coal, gypsum are stored in closed roof sheds. Covered conveyer belts are provided to reduce fugitive emissions. Cemented road has provided to entire approach in cement plant & power plant etc. 01 nos. of Road vacuum sweeper machines are deployed for cleaning of paved roads of the entire plant area. Bag houses are installed for kiln/vrm, coal mills and cement mills sections to control air emissions. ESPs are installed at Boiler for Captive power plant, at Clinker cooler in cement plant.
4	All the recommendations of the Corporate Responsibility for Environmental Protection (CREP) shall be strictly followed and SPM concentrations below 50 mg/Nm ³ shall be maintained in kiln, coal mill, cement mill and clinker cooler.	CREP recommendations are being followed. SPM concentrations is being maintained below 30 mg/Nm ³ for all major stacks attached to Kiln / Raw Mill, Coal Mill, Cement Mill and Clinker Cooler as per notifications and consents issued by RPCB/ CPCB.

5	<p>Total water requirement from West Banas Dam and ground water sources shall not exceed 3,700 KI/days per the permission accorded by the Irrigation Department, Govt of Rajasthan and Central Ground Water Authority. The treated wastewater from STP and CPP shall be reutilized for green belt development and other plant related activities i.e. cooling etc. after necessary treatment. 'Zero' discharge shall be strictly adopted and no effluent from the process shall be discharged outside the premises.</p>	<p>Total water consumption in the cement plants, mine activities, captive power plant and domestic activities is below 3700 KI/days as permission accorded by the Irrigation Department and Central Ground Water Authority.</p> <p>JKLC has STP of capacity 400 m³/day based on "Activated Sludge Process" technology. Treated waste water from STP and CPP is being reutilized 100% for cooling in cement plant and after necessary treatment.</p> <p>No effluent is being discharged from the plant.</p> <table border="1" data-bbox="829 470 1442 747"> <thead> <tr> <th>Month</th> <th>Average Water Consumption in KL/Day</th> </tr> </thead> <tbody> <tr> <td>Oct 19</td> <td>1738.5</td> </tr> <tr> <td>Nov 19</td> <td>1662.0</td> </tr> <tr> <td>Dec 19</td> <td>1648.7</td> </tr> <tr> <td>Jan 20</td> <td>1896.2</td> </tr> <tr> <td>Feb 20</td> <td>1807.0</td> </tr> <tr> <td>Mar 20</td> <td>1578.8</td> </tr> </tbody> </table>	Month	Average Water Consumption in KL/Day	Oct 19	1738.5	Nov 19	1662.0	Dec 19	1648.7	Jan 20	1896.2	Feb 20	1807.0	Mar 20	1578.8
Month	Average Water Consumption in KL/Day															
Oct 19	1738.5															
Nov 19	1662.0															
Dec 19	1648.7															
Jan 20	1896.2															
Feb 20	1807.0															
Mar 20	1578.8															
6	<p>As per the rain water harvesting water plan submitted, augmentation of ground water storage at cement plant, colony and mine site shall be strictly adhered. Besides, company must also harvest the rainwater from the roof tops and storm water drains to recharge the ground water. The company must also collect rain water in the mined out pits of captive lime stone mine and use the same water for the various activities of the project to conserve fresh water.</p>	<p>JKLC has installed various ground water recharge system for augmentation/harvest of rain water. 10 nos of roof top, 03 Surface Runoff utilization, 02nos, water reservoirs were constructed having 12500 m³/16500 m³ near the transit house and opposite to Dispensary, located along with both side of colony to increase capacity of rain water harvesting and collection of rain water.</p> <p>The company has 06 Nos Anicut in mining lease area for augmentation of ground water, to conserve fresh water.</p> <p>JKLCL has installed sufficient no. of latest scientific based recharge ground water system in Town Ship/ Plant Area. Periodically reconditioning & renovation work carried out to maintain the above for augmentation the ground water recharge.</p> <p>JKLCL also exploring the work to augmentation the ground water recharge at nearby area of plant. In 2017, JKLC has successfully designed 10 NOs of KFP rain water harvesting structures in association with "VARSHA JAL" with the capacity to recharge 3 crore liters of ground water annually.</p>														
7	<p>Although company has already done plantation in 50 ha, further plantation shall be ensured in 25 ha as proposed in EIA/EMP to carry out plantation in 75 ha out of total 184 ha. Land available for the cement plant. Further efforts shall be made to maintain the area properly already afforested.</p>	<p>JKLCL has continuous ongoing programme of plantation In and around the plant area and it is being complied</p>														
8	<p>Solid waste in the form of fly ash generated from the proposed CTPP shall be stored in ash silo and 100% used in the cement manufacturing. The dust generated shall also be</p>	<p>Fly ash quantity generated from CTPP is stored in silos and is 100% used in cement manufacturing. Sludge generated from STP is used for green belt development. The used oil generated from the plant</p>														

	properly recycled and reutilized in the cement plant itself ETP sludge shall be used into kiln. STP sludge shall be used for green belt development. Used oil and grease will be sold to the authorized recycler/preprocessors.	equipments is sold to the CPCB authorized recyclers. Clinker dust generated from the plant is being 100% recycled after its collection through bag filters. Dust collected in PC Equipment is being recycled back in the process. Used oil and grease being sold to the authorized recycler/preprocessors.
9	The company shall undertake eco-development measures including community welfare measures in the project area.	<p>JKLC has developed the watershed towards uphill side to maintain the Biodiversity in nearby area. Water hole management also developed in colony area. Plantation in mine at restoration area is continuous ongoing programme.</p> <p>JKLCL has identified location/ space in project area for plantation and plantation carried out.</p> <p>JKLCL is actively contributing in improving the Socio-economic condition of the area and is participating in implementing Government schemes for the welfare of the society. Like adult literacy program, HIV/AIDS awareness programme with technical support of International Labor Organization (ILO). However, step at present are being under taken in the field of Education, Health, Drinking water and in the creation of durable Community/ Public assets.</p> <p>Provided free of cost drinking water to Nearby Adarsh Village by laying separate pipe line or through water takers.</p> <p>Medical Assistance is being provided to the nearby Villagers free of cost in the Company's Dispensary. Also the Company's Ambulance Service provided to the villagers in case of an emergency.</p> <p>Financial aid to Govt. Schools nearby villages, for organizing the games cultural activity & tournament.</p> <p>Adult Literacy Centers and Health awareness for nearby village (belonging to ST & OBC) are conducted time to time by JKLCL.</p> <p>The Company's Naya Savera Project is running successfully providing medical assistance to the villagers by the Medical Team comprising a Doctor, Female Nurse, Assistant, Social Worker and attendant with medically well-equipped Ambulance. We have also organized several medical health check-up camps in recent months by conducting eyes check-up dental check-up for betterment of nearby villagers</p> <p>We have adopted Govt Hospital (Community Health Centre) Pindwara under the PPP Model.</p>
S.No.	CONDITIONS	COMPLIANCE STATUS
B.	GENERAL CONDITIONS:	
1	The project authority shall adhere to the stipulations made by Rajasthan State Pollution Control Board (RSPCB) and State Government.	JKLCL is strictly following all the stipulated consent's conditions issued by the RSPCB. The status of various consents is given below.
2	No further expansion or modification of the plant shall be carried out without prior approval of this Ministry.	Noted

3	At least four ambient air quality monitoring stations shall be established in the down wind direction as well as where maximum ground level concentration of SPM, SO ₂ and NO _x are anticipated in consultation with the RSPCB. Data on ambient air quality and stack emissions shall be regularly submitted to this Ministry including its Regional Office at Lucknow and RSPCB/CPCB once in six months.	JKLCL has established four ambient air quality monitoring stations. Regular monitoring is being carried out at these four stations. Quarterly monitoring report is being submitted to RSPCB and half yearly to the Ministry. Monitored data for stack, ambient air quality and noise level are attached In Annexure I, II & III				
4	Industrial wastewater shall be properly collected and treated so as to conform to the standards prescribed under GSR 422 (E) dated 19 th May, 1993 and 31 st December, 1993 or as amended from time to time. The treated wastewater shall be utilized for plantation purpose.	No industrial Waste water is generated from the unit. STP wastewater is properly collected and treated as per the stipulated norms and treated Water is being reused in industrial cooling purpose.				
5	The overall noise levels in and around the plant area shall be kept well within the standards (85 dB) by providing noise control measures including acoustic hoods., silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environmental (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	The overall noise level in and around the plant area is well within the standard (85 dB). Noise control measures including acoustic hoods, silencers, enclosures etc. are provided. The ambient noise level is well within limit as per standard prescribed under EPA. Ambient noise level data are attached as Annexure-III				
6	Proper housekeeping and adequate occupational health programmes shall be taken up. Occupational Health Surveillance programme shall be done on a regular basis and records maintained properly for at least 30-40 years. The programme shall include lung function and sputum analysis tests once in six months. Sufficient preventive measures shall be adopted to avoid direct exposure to dust etc.	Proper housekeeping and adequate Occupational health programmers is being done. Occupational health surveillance programme of the workers is periodically monitored and record is being maintained. No any such disease is found so far. All required PPEs are provided to avoid direct dust exposure. Necessary training is also imparted to the employees/ along with contractor's manpower on environmental issues/ safety and awareness at training centre/at their working place also.				
7	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP.	JKLCL has installed all environmental protection measures and safe guards recommended in the EIA/EMP.				
8	A separate environmental management cell with full fledged laboratory facilities to carry out various management and monitoring functions shall be set up under the control of Senior Executive.	JKLCL has set up separate environmental management cell with full-fledged laboratory facilities and qualified personnel to carry out various management and monitoring functions under the control of GM (Prod.) and Sr. VP (Works).				
9	As mentioned in the EIA/EMP, Rs. 66.50 Crores and Rs. 5.60 Crores allocated towards the capital cost and recurring cost/annum shall be used exclusively to implement the conditions stipulated by the Ministry of Environment & Forests as well as the State Government. Time bound implementation schedule for implementing all the conditions stipulated herein shall be submitted. The funds so provided shall not be diverted for any other purpose.	The budget allocated towards capital cost and recurring cost/ annum is used exclusively for Environmental protection Measure and same funds was not used for any other purpose. The details as under. <table border="1" data-bbox="852 1724 1419 1885"> <thead> <tr> <th data-bbox="852 1724 1060 1818">PERIOD</th> <th data-bbox="1060 1724 1419 1818">Budget Allocation incurred on compliance of Environmental conditions (Rs. In Lakhs)</th> </tr> </thead> <tbody> <tr> <td data-bbox="852 1818 1060 1885">Apr 2019 to Mar 2020</td> <td data-bbox="1060 1818 1419 1885">173.29</td> </tr> </tbody> </table>	PERIOD	Budget Allocation incurred on compliance of Environmental conditions (Rs. In Lakhs)	Apr 2019 to Mar 2020	173.29
PERIOD	Budget Allocation incurred on compliance of Environmental conditions (Rs. In Lakhs)					
Apr 2019 to Mar 2020	173.29					

10	The Regional Office of this Ministry at Lucknow/CPCB/RSPCB shall monitor the stipulated conditions. A six monthly compliance report and the monitored data along with statistical interpretation shall be submitted to them regularly.	Six monthly compliance reports for the period April 2019 to September, 2019 was submitted vide letter no: JKLC/ENVT/ MoEF/110542,dated,28.11.2019. The compliance report for the period from October, 2019 to March, 2020 is enclosed herewith.
11	The project Authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.	The project is done in the existing factory premises
12	The project Proponent shall inform the public that has been accorded environmental clearance by the Ministry of Environmental and Forests at http://envfor.nic.in . This should be advertised within seven days from the date of issue of the clearance letter at least in two local newspaper that are widely circulated in the region of which one shall be in the vernacular language of the locally concerned and a copy of the same shall be forwarded to the Regional Office at Lucknow.	Advertised in Rajasthan Patrika and Dainik Bhaskar on 30/01/2007 and copy of advertised had been submitted to MoEF, Lucknow.

JK Lakshmi Cement Ltd.,Sirohi,Rajasthan

AMBIENT AIR QUALITY MONITORING RESULTS : OCTOBER-2019 to MARCH-2020

S. NO	MONITORING STATIONS	Month	PM 10	PM 2.5	SO ₂	NOX	Month	PM 10	PM 2.5	SO ₂	NOX
			AVG	AVG	AVG	AVG		AVG	AVG	AVG	AVG
1	Near mine Magizne Area	Oct-19	64.6	29.1	10.0	10.2	Jan-20	85.9	47.6	17.7	14.1
		Nov-19	54.9	26.6	6.5	7.8	Feb-20	70.7	40.5	16.1	13.0
		Dec-19	37.0	24.0	9.5	11.2	Mar-20	68.7	34.2	8.2	10.0
2	Field Hostel	Oct-19	49.3	19.2	9.6	8.6	Jan-20	62.7	30.1	12.2	9.8
		Nov-19	18.4	21.2	7.2	6.4	Feb-20	66.6	37.0	12.9	11.4
		Dec-19	49.0	33.0	6.8	10.6	Mar-20	65.0	30.9	10.1	10.4
3	Up Hill(Near Ply Ground)	Oct-19	51.0	18.0	16.0	10.0	Jan-20	75.0	37.4	14.6	12.2
		Nov-19	33.0	20.0	9.0	4.2	Feb-20	65.3	35.1	15.2	11.4
		Dec-19	42.0	37.0	9.0	10.0	Mar-20	68.6	35.6	7.7	7.9
4	Near New Colony	Oct-19	65.0	22.0	12.2	12.5	Jan-20	76.6	36.9	13.6	11.2
		Nov-19	25.0	19.0	5.0	8.0	Feb-20	69.0	41.0	13.6	12.2
		Dec-19	24.0	29.0	8.0	11.0	Mar-20	64.4	32.2	7.6	8.8

JK LAKSHMI CEMENT LTD, JAYKAYPURAM

STACK MONITORING REPORT (October 2019 to March 2020)

S/N	Stack Attached to	Kiln 1												
		Parameter	October 2019		November 2019		December 2019		January 2020		February 2020		March 2020	
			Date	Result	Date	Date	Result	Date	Date	Result	Date	Result	Date	Result
1.	Kiln – RM Hybrid	PM	03.10.2019	23.32	04.11.2019	21.48	6.12.2019	19.22	13.01.2020	22.8	11.02.2020	19.0	03.03.2020	14.3
2.	Kiln – VRM RABH	PM	16.10.2019	12.6	06.11.2019	11.2	9.12.2019	9.6	14.01.2020	13.2	11.02.2020	5.8	14.03.2020	8.4
		SO ₂		7.2		6.8		7.9		BDL		10.2		6.8
		NO _x		469		487		512		735.2		733.3		635.7
3.	Cooler ESP 1	PM	07.10.2019	12.05	08.11.2019	11.8	12.12.2019	7.3	27.01.2020	18.0	21.02.2020	12.4	13.03.2020	14.7
4.	Coal Mill 1	PM	04.10.2019	10.79	09.11.2019	8.43	23.12.2019	10.57	28.01.2020	12.8	22.02.2020	5.30	07.03.2020	5.49
5.	Cement Mill 1	PM	14.10.2019	14.44	14.11.2019	10.23	27.12.2019	12.14	09.01.2020	12.5	24.02.2020	6.0	15.03.2020	8.7
6.	Cement Mill 3	PM	26.10.2019	6.38	24.12.2019	7.32	8.12.2019	6.78	15.01.2020	6.1	25.02.2020	9.1	13.03.2020	9.2

S/N	Stack Attached to	Kiln 2												
		Parameter	October 2019		November 2019		December 2019		January 2020		February 2020		March 2020	
			Date	Result	Date	Date	Result	Date	Date	Result	Date	Result	Date	Result
1.	Kiln – VRM RABH	PM	12.10.2019	18.23	7.11.2019	19.12	09.12.2019	21.68	14.01.2020	12.9	18.02.2020	22.4	13.03.2020	24.5
		SO ₂		14.25		13.24		10.45		BDL		18.0		64.2
		NO _x		367		510		493		896.3		858.2		806.1
2.	Cooler ESP	PM	8.10.2019	13.23	5.11.2019	17.2	11.12.2019	12.4	30.01.2020	9.8	14.02.2020	10.2	08.03.2020	13.7
3.	Coal Mill 2	PM	16.10.2019	18.23	23.11.2019	12.21	23.12.2019	16.75	22.01.2020	11.3	04.02.2020	14.2	13.03.2020	7.6
4.	Cement Mill 2	PM	26.10.2019	10.4	15.11.2019	9.3	10.12.2019	8.5	07.01.2020	10.0	23.02.2020	6.0	06.03.2020	16.6
3.	Cement Mill 4	PM	13.10.2019	BDL	22.11.2019	6.5	28.12.2019	BDL	-	-	22.02.2020	6.2	11.03.2020	5.8

S/N	Stack Attached to	Kiln 3												
		Emission (mg/Nm3)												
		Parameter	October 2019		November 2019		December 2019		January 2020		February 2020		March 2020	
			Date	Result	Date	Date	Result	Date	Date	Result	Date	Result	Date	Result
1.	Kiln – VRM RABH	PM	12.10.2019	25.5	02.11.2019	21.4	27.12.2019	18.4	06.01.2020	13.8	21.02.2020	20.3	13.03.2020	18.4
		SO2		23		15		18		18.6		7.2		18
		NOx		608		576		590		734.3		677.4		590
2.	Cooler ESP	PM	08.10.2019	12.35	01.11.2019	14.6	29.12.2019	10.6	12.01.2020	23.5	10.02.2020	9.8	08.03.2020	10.6
3.	Coal Mill 3	PM	19.10.2019	14.7	04.11.2019	9.9	31.12.2019	12.11	06.01.2020	5.7	17.02.2020	10.1	13.03.2020	12.11
4.	Cement Mill 5	PM	15.10.2019	10.0	09.11.2019	8.4	07.12.2019	9.1	19.01.2020	6.3	27.02.2020	5.5	06.03.2020	9.1
3.	Cement Mill 6	PM	07.10.2019	8.9	13.11.2019	7.2	05.12.2019	10.5	19.01.2020	8.4	28.02.2020	17.4	11.03.2020	10.5

S/N	Stack Attached to	Captive Power Plant (40 MW & 18 MW)				
		October 2018 - March 2020				
		Emission (mg/Nm3)				
		Parameter	Date	Result	Date	Result
1.	18 MW	PM	18.12.2019	21.72	18.12.2019	15.06
		SO2		534		560
		NOx		259		254
2.	40 MW	PM	05.03.2020	15.88	07.03.2020	19.18
		SO2		526		578
		NOx		245		279

JK LAKSHMI CEMENT LTD, JAYKAYPURAM**AMBIENT NOISE MONITORING REPORT (October 2019 - March 2020)**

PERIOD	Oct-19		Nov-19		Dec-19		Jan-20		Feb-20		Mar-20	
LOCATION	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time
Near Play ground.	66.9	50.4	62.7	42.8	67.9	51.4	62.1	44.8	60.2	40.9	66.1	42.7
Near New C Type Colony	60.1	48.6	61.2	49.7	62.1	42.3	59.4	43.5	64.2	41.3	59.2	44.9
Near Mine Magazine.	63.5	44.1	62.3	39.2	66.1	54.1	70.1	52.4	66.2	45.3	62.1	52.1
Near CPP	62.7	51.7	64.3	56.2	63.1	58.1	66.4	52.3	64.5	52.8	60.4	52.3



TEAM TEST HOUSE

(Unit of Team Institute of Science & Technology Pvt. Ltd.)

Approved by Ministry of Environment and Forest, Government of India as Environmental Laboratory

RSPCB

ISO 9001:2015

OSHAS 18001:2007

JDA/UDH

Office : E-65 Chitrangan Marg,
C-Scheme, Jaipur - 302001, Rajasthan
Phone : 0141-2369980, 9414077379
Website : www.teamtesthouse.com
Email : team.bdhead@gmail.com

Lab : G1-584, RIICO Industrial Area,
Sitapura, Jaipur - 302022, Rajasthan
Phone : 9460222039, 9460222049
Email : director@teamtesthouse.com
marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502520500000327P	Date :	06-05-2020
Issued To :	M/s J.K. Lakshmi Cement Ltd. (Cement plant) Jaykaypuram, Sirohi (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Stack Emission Level	Date of Sample Collection/Monitoring :	05-03-2020
Point of Collection :	18 MW Boiler ESP Stack [24*42'20"N 72*59'38"E]	Date of Receipt :	07-03-2020
Date of Test/Analysis :	07-03-2020 to 24-04-2020	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Hitesh Shukwal	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Particulate matter [mg/Nm ³]	15.88	IS 11255 (Part 1):1985 Reaffirmed 2014	50
2	Sulphur Dioxide [mg/Nm ³]	526	IS 11255(Part 2) :1985 Reaffirmed 2014	-
3	Oxides of Nitrogen [mg/Nm ³]	245	IS 11255 (Part 7) :1985 Redffirmed 2012	-
4	Carbon monoxide [mg/Nm ³]	198	IS 5182 (Part 10) : 1999 RA 2019	-
5	Mercury & its Compounds [mg/Nm ³]	BDL(<0.001)	USEPA method 29	0.03
6	Arsenic [mg/Nm ³]	BDL(<0.2)	USEPA method 29	-

Notes :-

- # Parameter No. 1,2,3,4 covered under NABL scope and Parameter No. 5,6 does not cover under NABL scope
- # Parameter No. NONE outsourced for testing.
- # The results listed refer only to the tested sample (s) & parameters (s). Endorsement of products is neither inferred nor implied.
- # This report is not to be reproduced wholly or in part and can not be used evidence in the court of law and should not be used in any advertising media without our special permission in writing.
- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.

Puran
Puran Mal Yogi

Rajesh
Rajesh Maheshwan



TEAM TEST HOUSE
(Unit of Team Institute of Science & Technology Pvt. Ltd.)

Approved by Ministry of Environment and Forest, Government of India as Environmental Laboratory

RSPCB

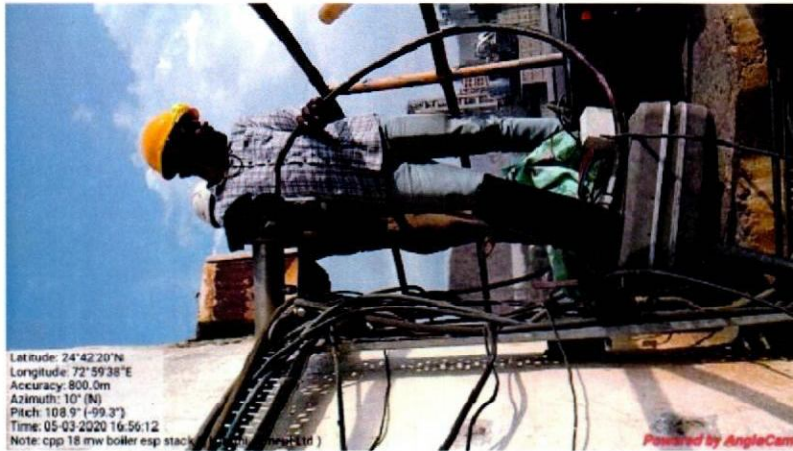
ISO 9001:2015

OSHAS 18001:2007

JDA/UDH

Office : E-65 Chitrangan Marg,
C-Scheme, Jaipur - 302001, Rajasthan
Phone : 0141-2369980, 9414077379
Website : www.teamtesthouse.com
Email : team.bdhead@gmail.com

Lab : G1-584, RIICO Industrial Area,
Sitapura, Jaipur - 302022, Rajasthan
Phone : 9460222039, 9460222049
Email : director@teamtesthouse.com
marketinglab@teamtesthouse.com



Latitude: 24°42'20"N
Longitude: 72°59'38"E
Accuracy: 800.0m
Azimuth: 10° (N)
Pitch: 108.9° (-99.3°)
Time: 05-03-2020 16:56:12
Note: cpp 18 mw boiler esp stack (05032020) (10)

Powered by AngleCam

18 MW Boiler ESP Stack [24°42'20"N 72°59'38"E]

Puran
Puran Mal Yogi
Senior Analyst

Rajesh
Rajesh Maheshwan
Authorized Signatory
(Report No: TC502520500000327P)



TEAM TEST HOUSE

(Unit of Team Institute of Science & Technology Pvt. Ltd.)



Approved by Ministry of Environment and Forest, Government of India as Environmental Laboratory

RSPCB

ISO 9001:2015

OHSAS 18001:2007

JDA/UDH

Office : E-65, Chitrangan Marg,
C-Scheme, Jaipur - 302001, Rajasthan
Phone : +91 6377210064, 9414077379,
Email : team.bdhead@gmail.com
Website : www.teamtesthouse.com

Laboratory : G1-584, RIICO Industrial Area,
Sitapura, Jaipur - 202022, Rajasthan
Phone : +91 9460222039, 9460222049,
Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502520500000326P	Date :	21-05-2020
Issued To :	M/s J.K. Lakshmi Cement Ltd. (Cement plant) Jaykaypuram, Sirohi (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Stack Emission Level	Date of Sample Collection/Monitoring :	05-03-2020
Point of Collection :	40 MW Boiler ESP Stack [24*41'45"N 73*0'3"E]	Date of Receipt :	07-03-2020
Date of Test/Analysis :	07-03-2020 to 24-04-2020	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Hitesh Shukwal	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Particulate matter [mg/Nm ³]	19.18	IS 11255 (Part 1):1985 Reaffirmed 2014	50
2	Sulphur Dioxide [mg/Nm ³]	578	IS 11255(Part 2) :1985 Reaffirmed 2014	-
3	Oxides of Nitrogen [mg/Nm ³]	279	IS 11255 (Part 7) :1985 Redfirmed 2012	-
4	Carbon monoxide [mg/Nm ³]	185	IS 5182 (Part 10) : 1999 RA 2019	-
5	Mercury & its Compounds [mg/Nm ³]	BDL(<0.001)	USEPA method 29	0.03
6	Arsenic [mg/Nm ³]	BDL(<0.2)	USEPA method 29	-

Notes :-

- # Parameter No. 1,2,3,4 covered under NABL scope and Parameter No. 5,6 does not cover under NABL scope
- # Parameter No. NONE outsourced for testing.
- # The results listed refer only to the tested sample (s) & parameters (s). Endorsement of products is neither inferred nor implied.
- # This report is not to be reproduced wholly or in part and can not be used evidence in the court of law and should not be used in any advertising media without our special permission in writing.
- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.

Rajesh
Rajesh Mal Yogi
Senior Analyst

Rajesh
Rajesh Maheshwari
Authorized Signatory

(Report No: TC502520500000326P)



TEAM TEST HOUSE

(Unit of Team Institute of Science & Technology Pvt. Ltd.)



Approved by Ministry of Environment and Forest, Government of India as Environmental Laboratory

RSPCB

ISO 9001:2015

OSHAS 18001:2007

JDA/UDH

Office : E-65 Chitrangan Marg,
C-Scheme, Jaipur - 302001, Rajasthan
Phone : 0141-2369980, 9414077379
Website : www.teamtesthouse.com
Email : team.bdhead@gmail.com

Lab : G1-584, RIICO Industrial Area,
Sitapura, Jaipur - 302022, Rajasthan
Phone : 9460222039, 9460222049
Email : director@teamtesthouse.com
marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502520500000317F	Date :	06-05-2020
Issued To :	M/s J.K. Lakshmi Cement Ltd. (Cement plant) Jaykaypuram, Sirohi (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Stack Emission Level	Date of Sample Collection/Monitoring :	06-03-2020
Point of Collection :	Cement Mill No.1 [24°41'31"N 73°0'12"E]	Date of Receipt :	07-03-2020
Date of Test/Analysis :	07-03-2020 to 24-04-2020	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Hitesh Shukwal	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Particulate matter [mg/Nm ³]	13.66	IS 11255 (Part 1):1985 Reaffirmed 2014	30

Notes :-

- # Parameter No. 1 covered under NABL scope and Parameter No. NONE does not cover under NABL scope
- # Parameter No. NONE outsourced for testing.
- # The results listed refer only to the tested sample (s) & parameters (s). Endorsement of products is neither inferred nor implied.
- # This report is not to be reproduced wholly or in part and can not be used evidence in the court of law and should not be used in any advertising media without our special permission in writing.
- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.

Purnan Mal Yogi
Senior Analyst

Rajesh Maheshwan
Authorized Signatory

(Report No: TC502520500000317F)



TEAM TEST HOUSE

(Unit of Team Institute of Science & Technology Pvt. Ltd.)



Approved by Ministry of Environment and Forest, Government of India as Environmental Laboratory

RSPCB

ISO 9001:2015

OSHAS 18001:2007

JDA/UDH

Office : E-65 Chitrangan Marg,
C-Scheme, Jaipur - 302001, Rajasthan
Phone : 0141-2369980, 9414077379
Website : www.teamtesthouse.com
Email : team.bdhead@gmail.com

Lab : G1-584, RIICO Industrial Area,
Sitapura, Jaipur - 302022, Rajasthan
Phone : 9460222039, 9460222049
Email : director@teamtesthouse.com
marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502520500000318F	Date :	06-05-2020
Issued To :	M/s J.K. Lakshmi Cement Ltd. (Cement plant) Jaykaypuram, Sirohi (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Stack Emission Level	Date of Sample Collection/Monitoring :	02-03-2020
Point of Collection :	Cement Mill No.2 [24°41'32"N 73°0'10"E]	Date of Receipt :	07-03-2020
Date of Test/Analysis :	07-03-2020 to 24-04-2020	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Hitesh Shukwal	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Particulate matter [mg/Nm ³]	10.14	IS 11255 (Part 1):1985 Reaffirmed 2014	30

Notes :-

- # Parameter No. 1 covered under NABL scope and Parameter No. NONE does not cover under NABL scope
- # Parameter No. NONE outsourced for testing.
- # The results listed refer only to the tested sample (s) & parameters (s). Endorsement of products is neither inferred nor implied.
- # This report is not to be reproduced wholly or in part and can not be used evidence in the court of law and should not be used in any advertising media without our special permission in writing.
- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.

Puran Mal Yogi

Rajesh Manishwari



TEAM TEST HOUSE
(Unit of Team Institute of Science & Technology Pvt. Ltd.)



Approved by Ministry of Environment and Forest, Government of India as Environmental Laboratory

RSPCB

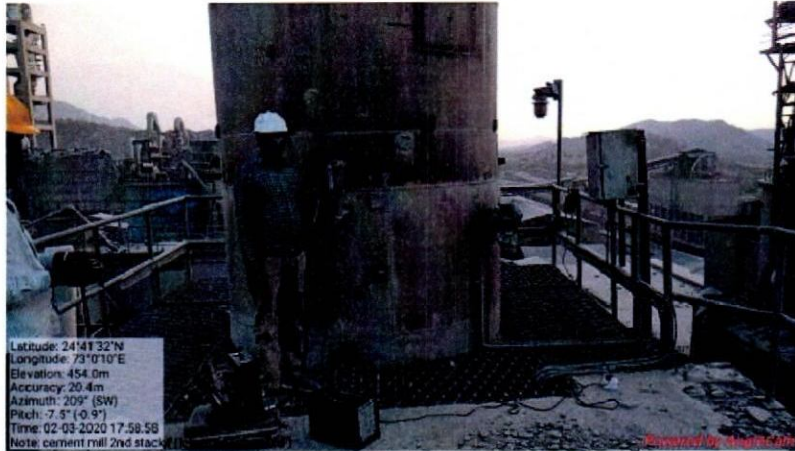
ISO 9001:2015

OSHAS 18001:2007

JDA/UDH

Office : E-65 Chitrangan Marg,
C-Scheme, Jaipur - 302001, Rajasthan
Phone : 0141-2369980, 9414077379
Website : www.teamtesthouse.com
Email : team.bdhead@gmail.com

Lab : G1-584, RIICO Industrial Area,
Sitapura, Jaipur - 302022, Rajasthan
Phone : 9460222039, 9460222049
Email : director@teamtesthouse.com
marketinglab@teamtesthouse.com



Cement Mill No.2 [24*41'32"N 73*0'10"E]

Purush
Senior Analyst
Purush Yogi

Rajesh
Rajesh Maheshwari
Authorized Signatory
(Report No: TC502520500000318F)



TEAM TEST HOUSE

(Unit of Team Institute of Science & Technology Pvt. Ltd.)



Approved by Ministry of Environment and Forest, Government of India as Environmental Laboratory

RSPCB

ISO 9001:2015

OSHAS 18001:2007

JDA/UDH

Office : E-65 Chitranjan Marg,
C-Scheme, Jaipur - 302001, Rajasthan
Phone : 0141-2369980, 9414077379
Website : www.teamtesthouse.com
Email : team.bdhead@gmail.com

Lab : G1-584, RIICO Industrial Area,
Sitapura, Jaipur - 302022, Rajasthan
Phone : 9460222039, 9460222049
Email : director@teamtesthouse.com
marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502520500000319F	Date :	06-05-2020
Issued To :	M/s J.K. Lakshmi Cement Ltd. (Cement plant) Jaykaypuram, Sirohi (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Stack Emission Level	Date of Sample Collection/Monitoring :	02-03-2020
Point of Collection :	Cement Mill No.3 [24°41'29"N 73°0'12"E]	Date of Receipt :	07-03-2020
Date of Test/Analysis :	07-03-2020 to 24-04-2020	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Hitesh Shukwal	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Particulate matter [mg/Nm ³]	18.5	IS 11255 (Part 1):1985 Reaffirmed 2014	30

Notes :-

- # Parameter No. 1 covered under NABL scope and Parameter No. NONE does not cover under NABL scope
- # Parameter No. NONE outsourced for testing.
- # The results listed refer only to the tested sample (s) & parameters (s). Endorsement of products is neither inferred nor implied.
- # This report is not to be reproduced wholly or in part and can not be used evidence in the court of law and should not be used in any advertising media without our special permission in writing.
- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.

Puran
Puran Mal Yogi

Rajesh
Rajesh Maneshwari



TEAM TEST HOUSE
(Unit of Team Institute of Science & Technology Pvt. Ltd.)



Approved by Ministry of Environment and Forest, Government of India as Environmental Laboratory

RSPCB

ISO 9001:2015

OSHAS 18001:2007

JDA/UDH

Office : E-65 Chitrangan Marg,
C-Scheme, Jaipur - 302001, Rajasthan
Phone : 0141-2369980, 9414077379
Website : www.teamtesthouse.com
Email : team.bdhead@gmail.com

Lab : G1-584, RIICO Industrial Area,
Sitapura, Jaipur - 302022, Rajasthan
Phone : 9460222039, 9460222049
Email : director@teamtesthouse.com
marketinglab@teamtesthouse.com



Cement Mill No.3 [24*41'29"N 73*0'12"E]

Puran
Puran Mal Yogi
Senior Analyst

Rajesh
Rajesh Maheshwari
Authorized Signatory

(Report No: TC502520500000319F)



TEAM TEST HOUSE

(Unit of Team Institute of Science & Technology Pvt. Ltd.)



Approved by Ministry of Environment and Forest, Government of India as Environmental Laboratory
RSPCB **ISO 9001:2015** **OHSAS 18001:2007** **JDA/UDH**

Office : E-65, Chitranjan Marg,
 C-Scheme, Jaipur - 302001, Rajasthan
 Phone : +91 6377210064, 9414077379,
 Email : team.bdhead@gmail.com
 Website : www.teamtesthouse.com

Laboratory : G1-584, RIICO Industrial Area,
 Sitapura, Jaipur - 202022, Rajasthan
 Phone : +91 9460222039, 9460222049,
 Email : director@teamtesthouse.com,
 Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502520500000354F	Date :	20-05-2020
Issued To :	M/s J.K. Lakshmi Cement Ltd. (Cement plant) Jaykaypuram, Sirohi (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Stack Emission Level	Date of Sample Collection/Monitoring :	15-03-2020
Point of Collection :	Cement Mill No.4 [24*41'31"N 73*0"9"E]	Date of Receipt :	16-03-2020
Date of Test :	16-03-2020 to 04-05-2020	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Hitesh Shukwal	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Particulate matter [mg/Nm ³]	19.47	IS 11255 (Part 1):1985 Reaffirmed 2014	30

Notes :-

- # Parameter No. 1 covered under NABL scope and Parameter No. NONE does not cover under NABL scope
- # Parameter No. NONE outsourced for testing.
- # The results listed refer only to the tested sample (s) & parameters (s). Endorsement of products is neither inferred nor implied.
- # This report is not to be reproduced wholly or in part and can not be used evidence in the court of law and should not be used in any advertising media without our special permission in writing.
- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.


Purnan May Yogi
 Senior Analyst


Rajesh Maheshwan
 Authorized Signatory
 (Report No: TC502520500000354F)



TEAM TEST HOUSE

(Unit of Team Institute of Science & Technology Pvt. Ltd.)



Approved by Ministry of Environment and Forest, Government of India as Environmental Laboratory

RSPCB

ISO 9001:2015

OSHAS 18001:2007

JDA/UDH

Office : E-65 Chitrangan Marg,
C-Scheme, Jaipur - 302001, Rajasthan
Phone : 0141-2369980, 9414077379
Website : www.teamtesthouse.com
Email : team.bdhead@gmail.com

Lab : G1-584, RIICO Industrial Area,
Sitapura, Jaipur - 302022, Rajasthan
Phone : 9460222039, 9460222049
Email : director@teamtesthouse.com
marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502520500000320F	Date :	06-05-2020
Issued To :	M/s J.K. Lakshmi Cement Ltd. (Cement plant) Jaykaypuram, Sirohi (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Stack Emission Level	Date of Sample Collection/Monitoring :	02-03-2020
Point of Collection :	Cement Mill No.5 [24*41'30"N73*0'8"E]	Date of Receipt :	07-03-2020
Date of Test/Analysis :	07-03-2020 to 24-04-2020	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Hitesh Shukwal	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Particulate matter [mg/Nm ³]	13.44	IS 11255 (Part 1):1985 Reaffirmed 2014	30

Notes :-

- # Parameter No. 1 covered under NABL scope and Parameter No. NONE does not cover under NABL scope
- # Parameter No. NONE outsourced for testing.
- # The results listed refer only to the tested sample (s) & parameters (s). Endorsement of products is neither inferred nor implied.
- # This report is not to be reproduced wholly or in part and can not be used evidence in the court of law and should not be used in any advertising media without our special permission in writing.
- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.

Puran Mal Yogi
Puran Mal Yogi

Rajesh Maheshwari
Rajesh Maheshwari



TEAM TEST HOUSE
(Unit of Team Institute of Science & Technology Pvt. Ltd.)



Approved by Ministry of Environment and Forest, Government of India as Environmental Laboratory

RSPCB

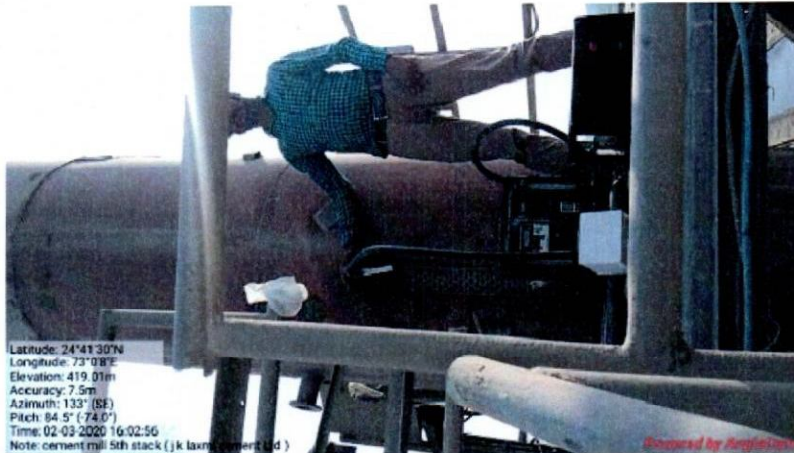
ISO 9001:2015

OSHAS 18001:2007

JDA/UDH

Office : E-65 Chitranjan Marg,
C-Scheme, Jaipur - 302001, Rajasthan
Phone : 0141-2369980, 9414077379
Website : www.teamtesthouse.com
Email : team.bdhead@gmail.com

Lab : G1-584, RIICO Industrial Area,
Sitapura, Jaipur - 302022, Rajasthan
Phone : 9460222039, 9460222049
Email : director@teamtesthouse.com
marketinglab@teamtesthouse.com



Latitude: 24°41'30"N
Longitude: 73°0'8"E
Elevation: 419.01m
Accuracy: 7.5m
Azimuth: 133° (SE)
Pitch: 84.5° (74.0°)
Time: 02-03-2020 16:02:56
Note: cement mill 5th stack (jk laxmi cement Ltd)

Cement Mill No.5 [24°41'30"N73°0'8"E]

Puran
Puran Mal Yogi
Senior Analyst

Rajesh
Rajesh Maheshwar
Authorized Signatory
(Report No: TC502520500000320F)



TEAM TEST HOUSE

(Unit of Team Institute of Science & Technology Pvt. Ltd.)



Approved by Ministry of Environment and Forest, Government of India as Environmental Laboratory

RSPCB

ISO 9001:2015

OSHAS 18001:2007

JDA/UDH

Office : E-65 Chitrangan Marg,
C-Scheme, Jaipur - 302001, Rajasthan
Phone : 0141-2369980, 9414077379
Website : www.teamtesthouse.com
Email : team.bdhead@gmail.com

Lab : G1-584, RIICO Industrial Area,
Sitapura, Jaipur - 302022, Rajasthan
Phone : 9460222039, 9460222049
Email : director@teamtesthouse.com
marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502520500000321F	Date :	06-05-2020
Issued To :	M/s J.K. Lakshmi Cement Ltd. (Cement plant) Jaykaypuram, Sirohi (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Stack Emission Level	Date of Sample Collection/Monitoring :	02-03-2020
Point of Collection :	Cement Mill No.6 [24°41'27"N 73°0'11"E]	Date of Receipt :	07-03-2020
Date of Test/Analysis :	07-03-2020 to 24-04-2020	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Hitesh Shukwal	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Particulate matter [mg/Nm ³]	16.79	IS 11255 (Part 1):1985 Reaffirmed 2014	30

Notes :-

- # Parameter No. 1 covered under NABL scope and Parameter No. NONE does not cover under NABL scope
- # Parameter No. NONE outsourced for testing.
- # The results listed refer only to the tested sample (s) & parameters (s). Endorsement of products is neither inferred nor implied.
- # This report is not to be reproduced wholly or in part and can not be used evidence in the court of law and should not be used in any advertising media without our special permission in writing.
- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.

Puran Mal Yogi

Rajesh Maneshwari



TEAM TEST HOUSE
(Unit of Team Institute of Science & Technology Pvt. Ltd.)



Approved by Ministry of Environment and Forest, Government of India as Environmental Laboratory

RSPCB

ISO 9001:2015

OSHAS 18001:2007

JDA/UDH

Office : E-65 Chitrangan Marg,
C-Scheme, Jaipur - 302001, Rajasthan
Phone : 0141-2369980, 9414077379
Website : www.teamtesthouse.com
Email : team.bdhead@gmail.com

Lab : G1-584, RIICO Industrial Area,
Sitapura, Jaipur - 302022, Rajasthan
Phone : 9460222039, 9460222049
Email : director@teamtesthouse.com
marketinglab@teamtesthouse.com



Cement Mill No.6 [24*41'27"N 73*0'11"E]

Puran
Puran MaYogi
Senior Analyst

Rajesh
Rajesh Maheshwari
Authorized Signatory
(Report No: TC502520500000321F)



TEAM TEST HOUSE

(Unit of Team Institute of Science & Technology Pvt. Ltd.)



Approved by Ministry of Environment and Forest, Government of India as Environmental Laboratory

RSPCB

ISO 9001:2015

OSHAS 18001:2007

JDA/UDH

Office : E-65 Chitrangan Marg,
C-Scheme, Jaipur - 302001, Rajasthan
Phone : 0141-2369980, 9414077379
Website : www.teamtesthouse.com
Email : team.bdhead@gmail.com

Lab : G1-584, RIICO Industrial Area,
Sitapura, Jaipur - 302022, Rajasthan
Phone : 9460222039, 9460222049
Email : director@teamtesthouse.com
marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502520500000314F	Date :	06-05-2020
Issued To :	M/s J.K. Lakshmi Cement Ltd. (Cement plant) Jaykaypuram, Sirohi (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Stack Emission Level	Date of Sample Collection/Monitoring :	04-03-2020
Point of Collection :	Coal Mill 1 [24*41'26"N 73*0'14"E]	Date of Receipt :	07-03-2020
Date of Test/Analysis :	07-03-2020 to 24-04-2020	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Hitesh Shukwal	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Particulate matter [mg/Nm ³]	10.05	IS 11255 (Part 1):1985 Reaffirmed 2014	30

Notes :-

- # Parameter No. 1 covered under NABL scope and Parameter No. NONE does not cover under NABL scope
- # Parameter No. NONE outsourced for testing.
- # The results listed refer only to the tested sample (s) & parameters (s). Endorsement of products is neither inferred nor implied.
- # This report is not to be reproduced wholly or in part and can not be used evidence in the court of law and should not be used in any advertising media without our special permission in writing.
- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.

Puran Mal Yogi
Puran Mal Yogi

Rajesh Maneshwari
Rajesh Maneshwari



TEAM TEST HOUSE
(Unit of Team Institute of Science & Technology Pvt. Ltd.)



Approved by Ministry of Environment and Forest, Government of India as Environmental Laboratory

RSPCB

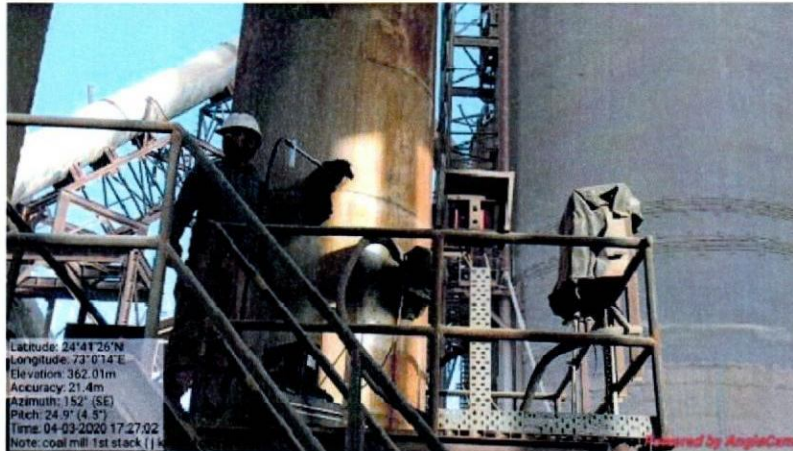
ISO 9001:2015

OSHAS 18001:2007

JDA/UDH

Office : E-65 Chitrangan Marg,
C-Scheme, Jaipur - 302001, Rajasthan
Phone : 0141-2369980, 9414077379
Website : www.teamtesthouse.com
Email : team.bdhead@gmail.com

Lab : G1-584, RIICO Industrial Area,
Sitapura, Jaipur - 302022, Rajasthan
Phone : 9460222039, 9460222049
Email : director@teamtesthouse.com
marketinglab@teamtesthouse.com



Coal Mill 1 [24°41'26"N 73°0'14"E]


Puran Mal Yogi
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: TC502520500000314F)



TEAM TEST HOUSE

(Unit of Team Institute of Science & Technology Pvt. Ltd.)



Approved by Ministry of Environment and Forest, Government of India as Environmental Laboratory

RSPCB

ISO 9001:2015

OSHAS 18001:2007

JDA/UDH

Office : E-65 Chitrangan Marg,
C-Scheme, Jaipur - 302001, Rajasthan
Phone : 0141-2369980, 9414077379
Website : www.teamtesthouse.com
Email : team.bdhead@gmail.com

Lab : G1-584, RIICO Industrial Area,
Sitapura, Jaipur - 302022, Rajasthan
Phone : 9460222039, 9460222049
Email : director@teamtesthouse.com
marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502520500000315F	Date :	06-05-2020
Issued To :	M/s J.K. Lakshmi Cement Ltd. (Cement plant) Jaykaypuram, Sirohi (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Stack Emission Level	Date of Sample Collection/Monitoring :	04-03-2020
Point of Collection :	Coal Mill 2 [24*42'8"N 72*58'2"E]	Date of Receipt :	07-03-2020
Date of Test/Analysis :	07-03-2020 to 24-04-2020	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Hitesh Shukwal	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Particulate matter [mg/Nm ³]	10.98	IS 11255 (Part 1):1985 Reaffirmed 2014	30

Notes :-

- # Parameter No. 1 covered under NABL scope and Parameter No. NONE does not cover under NABL scope
- # Parameter No. NONE outsourced for testing.
- # The results listed refer only to the tested sample (s) & parameters (s). Endorsement of products is neither inferred nor implied.
- # This report is not to be reproduced wholly or in part and can not be used evidence in the court of law and should not be used in any advertising media without our special permission in writing.
- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.

Purran
Purran Maurya

Rajesh
Rajesh Maheshwari



TEAM TEST HOUSE

(Unit of Team Institute of Science & Technology Pvt. Ltd.)



Approved by Ministry of Environment and Forest, Government of India as Environmental Laboratory

RSPCB

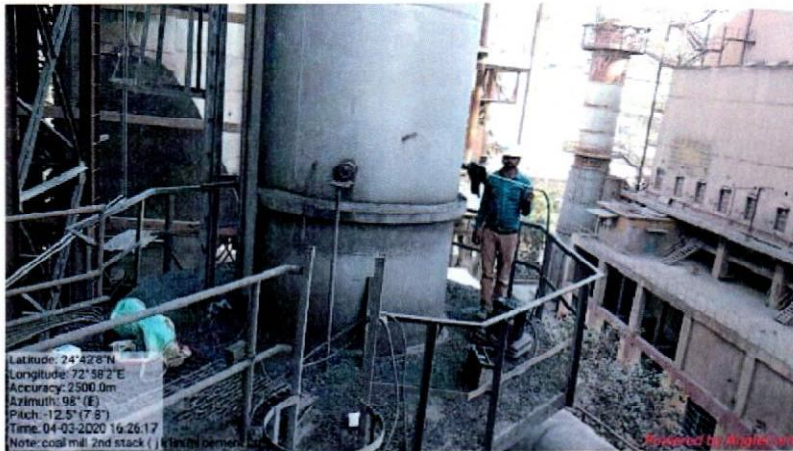
ISO 9001:2015

OSHAS 18001:2007

JDA/UDH

Office : E-65 Chitrangan Marg,
C-Scheme, Jaipur - 302001, Rajasthan
Phone : 0141-2369980, 9414077379
Website : www.teamtesthouse.com
Email : team.bdhead@gmail.com

Lab : G1-584, RIICO Industrial Area,
Sitapura, Jaipur - 302022, Rajasthan
Phone : 9460222039, 9460222049
Email : director@teamtesthouse.com
marketinglab@teamtesthouse.com



Coal Mill 2 [24°42'8"N 72°58'2"E]

Puran
Puran Mal Yogi
Senior Analyst

Rajesh
Rajesh Maheshwari
Authorized Signatory
(Report No: TC502520500000315F)



TEAM TEST HOUSE

(Unit of Team Institute of Science & Technology Pvt. Ltd.)



Approved by Ministry of Environment and Forest, Government of India as Environmental Laboratory

RSPCB

ISO 9001:2015

OSHAS 18001:2007

JDA/UDH

Office : E-65 Chitrangan Marg,
C-Scheme, Jaipur - 302001, Rajasthan
Phone : 0141-2369980, 9414077379
Website : www.teamtesthouse.com
Email : team.bdhead@gmail.com

Lab : G1-584, RIICO Industrial Area,
Sitapura, Jaipur - 302022, Rajasthan
Phone : 9460222039, 9460222049
Email : director@teamtesthouse.com
marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502520500000316F	Date :	06-05-2020
Issued To :	M/s J.K. Lakshmi Cement Ltd. (Cement plant) Jaykaypuram, Sirohi (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Stack Emission Level	Date of Sample Collection/Monitoring :	04-03-2020
Point of Collection :	Coal Mill 3 [24*42'8"N 72*58'2"E]	Date of Receipt :	07-03-2020
Date of Test/Analysis :	07-03-2020 to 24-04-2020	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Hitesh Shukwal	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Particulate matter [mg/Nm ³]	12.1	IS 11255 (Part 1):1985 Reaffirmed 2014	30

Notes :-

- # Parameter No. 1 covered under NABL scope and Parameter No. NONE does not cover under NABL scope
- # Parameter No. NONE outsourced for testing.
- # The results listed refer only to the tested sample (s) & parameters (s). Endorsement of products is neither inferred nor implied.
- # This report is not to be reproduced wholly or in part and can not be used evidence in the court of law and should not be used in any advertising media without our special permission in writing.
- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.

Puran Mal Yogi
Puran Mal Yogi

Rajesh Maheshwari
Rajesh Maheshwari



TEAM TEST HOUSE
(Unit of Team Institute of Science & Technology Pvt. Ltd.)



Approved by Ministry of Environment and Forest, Government of India as Environmental Laboratory

RSPCB

ISO 9001:2015

OSHAS 18001:2007

JDA/UDH

Office : E-65 Chitrangan Marg,
C-Scheme, Jaipur - 302001, Rajasthan
Phone : 0141-2369980, 9414077379
Website : www.teamtesthouse.com
Email : team.bdhead@gmail.com

Lab : G1-584, RIICO Industrial Area,
Sitapura, Jaipur - 302022, Rajasthan
Phone : 9460222039, 9460222049
Email : director@teamtesthouse.com
marketinglab@teamtesthouse.com



Coal Mill 3 [24°42'8"N 72°58'2"E]

Purani
Puran Mai Yogi
Senior Analyst

Raj
Rajesh Maheshwari
Authorized Signatory
(Report No: TC502520500000316F)



TEAM TEST HOUSE

(Unit of Team Institute of Science & Technology Pvt. Ltd.)



Approved by Ministry of Environment and Forest, Government of India as Environmental Laboratory

RSPCB

ISO 9001:2015

OSHAS 18001:2007

JDA/UDH

Office : E-65 Chitrangan Marg,
C-Scheme, Jaipur - 302001, Rajasthan
Phone : 0141-2369980, 9414077379
Website : www.teamtesthouse.com
Email : team.bdhead@gmail.com

Lab : G1-584, RIICO Industrial Area,
Sitapura, Jaipur - 302022, Rajasthan
Phone : 9460222039, 9460222049
Email : director@teamtesthouse.com
marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502520500000311F	Date :	06-05-2020
Issued To :	M/s J.K. Lakshmi Cement Ltd. (Cement plant) Jaykaypuram, Sirohi (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Stack Emission Level	Date of Sample Collection/Monitoring :	04-03-2020
Point of Collection :	Kiln 1 Cooler ESP 24*41'28"N 73'0'9"E	Date of Receipt :	07-03-2020
Date of Test/Analysis :	07-03-2020 to 24-04-2020	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Hitesh Shukwal	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Particulate matter [mg/Nm ³]	10.5	IS 11255 (Part 1):1985 Reaffirmed 2014	30

Notes :-

- # Parameter No. 1 covered under NABL scope and Parameter No. NONE does not cover under NABL scope
- # Parameter No. NONE outsourced for testing.
- # The results listed refer only to the tested sample (s) & parameters (s). Endorsement of products is neither inferred nor implied.
- # This report is not to be reproduced wholly or in part and can not be used evidence in the court of law and should not be used in any advertising media without our special permission in writing.
- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.

Puran Mal Yogi
Puran Mal Yogi

Rajesh Maheshwari
Rajesh Maheshwari



TEAM TEST HOUSE
(Unit of Team Institute of Science & Technology Pvt. Ltd.)



Approved by Ministry of Environment and Forest, Government of India as Environmental Laboratory

RSPCB

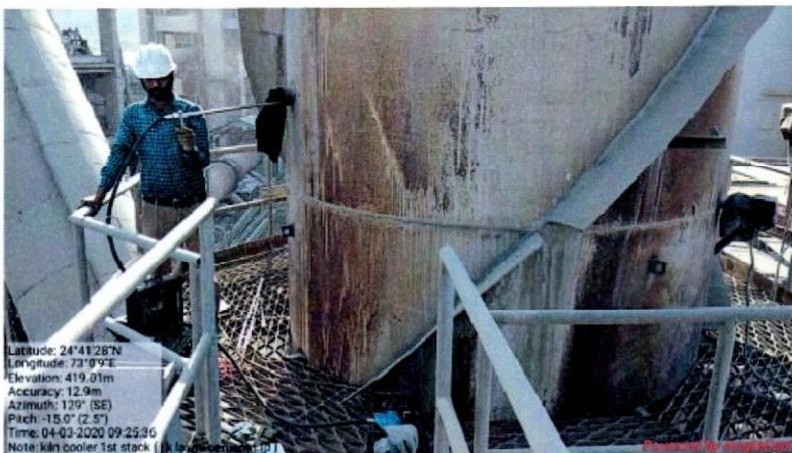
ISO 9001:2015

OSHAS 18001:2007

JDA/UDH

Office : E-65 Chitranjan Marg,
C-Scheme, Jaipur - 302001, Rajasthan
Phone : 0141-2369980, 9414077379
Website : www.teamtesthouse.com
Email : team.bdhead@gmail.com

Lab : G1-584, RIICO Industrial Area,
Sitapura, Jaipur - 302022, Rajasthan
Phone : 9460222039, 9460222049
Email : director@teamtesthouse.com
marketinglab@teamtesthouse.com



Latitude: 24°41'28"N
Longitude: 73°0'9"E
Elevation: 419.01m
Accuracy: 12.9m
Azimuth: 129° (SE)
Pitch: -15.0° (2.5°)
Time: 04-03-2020 09:25:36
Note: kiln cooler 1st stack (level: 0.00m)

Kiln 1 Cooler ESP 24°41'28"N 73°0'9"E


Puran Mai Yogi
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: TC502520500000311F)



TEAM TEST HOUSE

(Unit of Team Institute of Science & Technology Pvt. Ltd.)



Approved by Ministry of Environment and Forest, Government of India as Environmental Laboratory

RSPCB

ISO 9001:2015

OSHAS 18001:2007

JDA/UDH

Office : E-65 Chitranjan Marg,
C-Scheme, Jaipur - 302001, Rajasthan
Phone : 0141-2369980, 9414077379
Website : www.teamtesthouse.com
Email : team.bdhead@gmail.com

Lab : G1-584, RIICO Industrial Area,
Sitapura, Jaipur - 302022, Rajasthan
Phone : 9460222039, 9460222049
Email : director@teamtesthouse.com
marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502520500000322P	Date :	06-05-2020
Issued To :	M/s J.K. Lakshmi Cement Ltd. (Cement plant) Jaykaypuram, Sirohi (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Stack Emission Level	Date of Sample Collection/Monitoring :	03-03-2020
Point of Collection :	KILN -1 (Hybrid) VRM [24°41'37"N 73°0'14"E]	Date of Receipt :	07-03-2020
Date of Test/Analysis :	07-03-2020 to 24-04-2020	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Hitesh Shukwal	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Particulate matter [mg/Nm ³]	11.7	IS 11255 (Part 1):1985 Reaffirmed 2014	30
2	Sulphur Dioxide [mg/Nm ³]	BDL(<2.0)	IS 11255(Part 2) :1985 Reaffirmed 2014	-
3	Oxides of Nitrogen [mg/Nm ³]	785	IS 11255 (Part 7) :1985 Redfirmed 2012	-
4	Carbon monoxide [mg/Nm ³]	170	IS 5182 (Part 10) : 1999 RA 2019	-
5	Mercury & its Compounds [mg/Nm ³]	BDL(<0.001)	USEPA method 29	0.05
6	Arsenic [mg/Nm ³]	BDL(<0.2)	USEPA method 29	-

Notes :-

- # Parameter No. 1,2,3,4 covered under NABL scope and Parameter No. 5,6 does not cover under NABL scope
- # Parameter No. NONE outsourced for testing.
- # The results listed refer only to the tested sample (s) & parameters (s). Endorsement of products is neither inferred nor implied.
- # This report is not to be reproduced wholly or in part and can not be used evidence in the court of law and should not be used in any advertising media without our special permission in writing.
- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.

Puran
Puran Mal Yogi

Rajesh
Rajesh Maheshwari



TEAM TEST HOUSE
(Unit of Team Institute of Science & Technology Pvt. Ltd.)



Approved by Ministry of Environment and Forest, Government of India as Environmental Laboratory

RSPCB

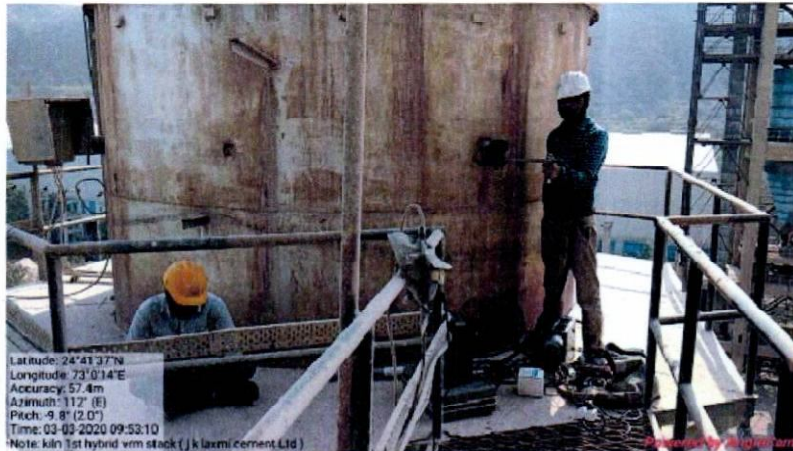
ISO 9001:2015

OSHAS 18001:2007

JDA/UDH

Office : E-65 Chitranjan Marg,
C-Scheme, Jaipur - 302001, Rajasthan
Phone : 0141-2369980, 9414077379
Website : www.teamtesthouse.com
Email : team.bdhead@gmail.com

Lab : G1-584, RIICO Industrial Area,
Sitapura, Jaipur - 302022, Rajasthan
Phone : 9460222039, 9460222049
Email : director@teamtesthouse.com
marketinglab@teamtesthouse.com



KILN -1 (Hybrid) VRM [24°41'37"N 73°0'14"E]

Puran Mal Yogi
Senior Analyst

Rajesh Maheshwan
Authorized Signatory
(Report No: TC502520500000322P)



TEAM TEST HOUSE

(Unit of Team Institute of Science & Technology Pvt. Ltd.)



Approved by Ministry of Environment and Forest, Government of India as Environmental Laboratory

RSPCB

ISO 9001:2015

OSHAS 18001:2007

JDA/UDH

Office : E-65 Chitranganj Marg,
C-Scheme, Jaipur - 302001, Rajasthan
Phone : 0141-2369980, 9414077379
Website : www.teamtesthouse.com
Email : team.bdhead@gmail.com

Lab : G1-584, RIICO Industrial Area,
Sitapura, Jaipur - 302022, Rajasthan
Phone : 9460222039, 9460222049
Email : director@teamtesthouse.com
marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502520500000323P	Date :	06-05-2020
Issued To :	M/s J.K. Lakshmi Cement Ltd. (Cement plant) Jaykaypuram, Sirohi (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Stack Emission Level	Date of Sample Collection/Monitoring :	03-03-2020
Point of Collection :	KILN-1 (China Mil) VRM 24*41'22.1" N 73*00'14.7" E]	Date of Receipt :	07-03-2020
Date of Test/Analysis :	07-03-2020 to 24-04-2020	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Hitesh Shukwal	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Particulate matter [mg/Nm ³]	10.29	IS 11255 (Part 1):1985 Reaffirmed 2014	30
2	Sulphur Dioxide [mg/Nm ³]	BDL(<2.0)	IS 11255(Part 2) :1985 Reaffirmed 2014	-
3	Oxides of Nitrogen [mg/Nm ³]	516	IS 11255 (Part 7) :1985 Redffirmed 2012	-
4	Carbon monoxide [mg/Nm ³]	195	IS 5182 (Part 10) : 1999 RA 2019	-
5	Mercury & its Compounds [mg/Nm ³]	BDL(<0.001)	USEPA method 29	0.05
6	Arsenic [mg/Nm ³]	BDL(<0.2)	USEPA method 29	-

Notes :-

- # Parameter No. 1,2,3,4 covered under NABL scope and Parameter No. 5,6 does not cover under NABL scope
- # Parameter No. NONE outsourced for testing.
- # The results listed refer only to the tested sample (s) & parameters (s). Endorsement of products is neither inferred nor implied.
- # This report is not to be reproduced wholly or in part and can not be used evidence in the court of law and should not be used in any advertising media without our special permission in writing.
- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.

Puran
Puran Mal Yogi

Rajesh
Rajesh Maheshwari



TEAM TEST HOUSE

(Unit of Team Institute of Science & Technology Pvt. Ltd.)



Approved by Ministry of Environment and Forest, Government of India as Environmental Laboratory

RSPCB

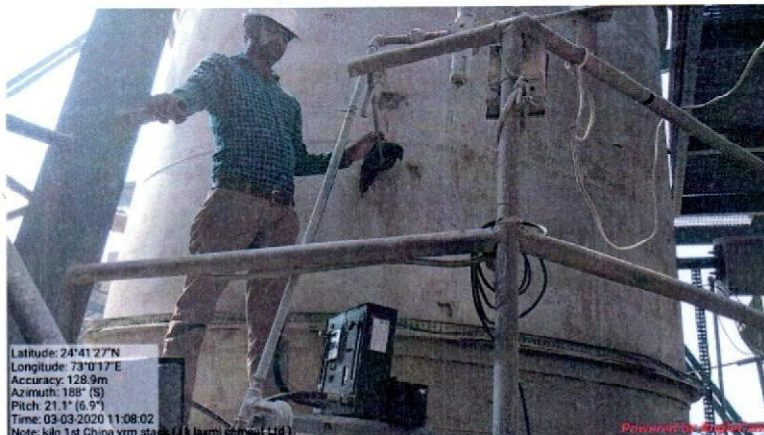
ISO 9001:2015

OSHAS 18001:2007

JDA/UDH

Office : E-65 Chitrangan Marg,
C-Scheme, Jaipur - 302001, Rajasthan
Phone : 0141-2369980, 9414077379
Website : www.teamtesthouse.com
Email : team.bdhead@gmail.com

Lab : G1-584, RIICO Industrial Area,
Sitapura, Jaipur - 302022, Rajasthan
Phone : 9460222039, 9460222049
Email : director@teamtesthouse.com
marketinglab@teamtesthouse.com



Latitude: 24°41'27"N
Longitude: 73°00'17"E
Accuracy: 128.9m
Azimuth: 188° (S)
Pitch: 21.1° (6.9°)
Time: 03-03-2020 11:08:02
Note: kiln 1st China vrm sta (Team Institute Ltd)

KILN-1 (China Mil) VRM 24°41'22.1" N 73°00'14.7" E]


Puran Mal Yogi
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: TC502520500000323P)



TEAM TEST HOUSE

(Unit of Team Institute of Science & Technology Pvt. Ltd.)



Approved by Ministry of Environment and Forest, Government of India as Environmental Laboratory

RSPCB

ISO 9001:2015

OSHAS 18001:2007

JDA/UDH

Office : E-65 Chitrangan Marg,
C-Scheme, Jaipur - 302001, Rajasthan
Phone : 0141-2369980, 9414077379
Website : www.teamtesthouse.com
Email : team.bdhead@gmail.com

Lab : G1-584, RIICO Industrial Area,
Sitapura, Jaipur - 302022, Rajasthan
Phone : 9460222039, 9460222049
Email : director@teamtesthouse.com
marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502520500000312F	Date :	06-05-2020
Issued To :	M/s J.K. Lakshmi Cement Ltd. (Cement plant) Jaykaypuram, Sirohi (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Stack Emission Level	Date of Sample Collection/Monitoring :	04-03-2020
Point of Collection :	Kiln 2 Cooler ESP 24*41'26"N 73*0'7"E	Date of Receipt :	07-03-2020
Date of Test/Analysis :	07-03-2020 to 24-04-2020	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Hitesh Shukwal	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Particulate matter [mg/Nm ³]	10.44	IS 11255 (Part 1):1985 Reaffirmed 2014	30

Notes :-

- # Parameter No. 1 covered under NABL scope and Parameter No. NONE does not cover under NABL scope
- # Parameter No. NONE outsourced for testing.
- # The results listed refer only to the tested sample (s) & parameters (s). Endorsement of products is neither inferred nor implied.
- # This report is not to be reproduced wholly or in part and can not be used evidence in the court of law and should not be used in any advertising media without our special permission in writing.
- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.

Puran Mal Yogi
Puran Mal Yogi

Rajesh Maneshwari
Rajesh Maneshwari



TEAM TEST HOUSE
(Unit of Team Institute of Science & Technology Pvt. Ltd.)



Approved by Ministry of Environment and Forest, Government of India as Environmental Laboratory

RSPCB

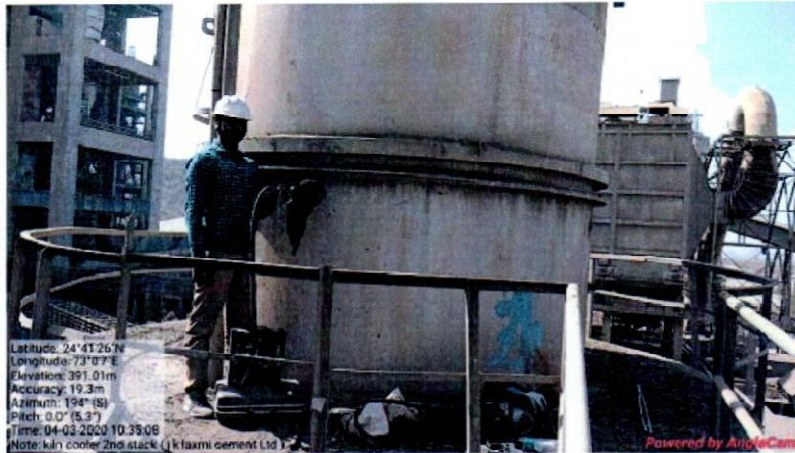
ISO 9001:2015

OSHAS 18001:2007

JDA/UDH

Office : E-65 Chitrangan Marg,
C-Scheme, Jaipur - 302001, Rajasthan
Phone : 0141-2369980, 9414077379
Website : www.teamtesthouse.com
Email : team.bdhead@gmail.com

Lab : G1-584, RIICO Industrial Area,
Sitapura, Jaipur - 302022, Rajasthan
Phone : 9460222039, 9460222049
Email : director@teamtesthouse.com
marketinglab@teamtesthouse.com



Kiln 2 Cooler ESP 24*41'26"N 73*0'7"E

Puran
Puran Mal Yogi
Senior Analyst

Rajesh
Rajesh Maheshwari
Authorized Signatory
(Report No: TC502520500000312F)



TEAM TEST HOUSE

(Unit of Team Institute of Science & Technology Pvt. Ltd.)



Approved by Ministry of Environment and Forest, Government of India as Environmental Laboratory

RSPCB

ISO 9001:2015

OSHAS 18001:2007

JDA/UDH

Office : E-65 Chitrangan Marg,
C-Scheme, Jaipur - 302001, Rajasthan
Phone : 0141-2369980, 9414077379
Website : www.teamtesthouse.com
Email : team.bdhead@gmail.com

Lab : G1-584, RIICO Industrial Area,
Sitapura, Jaipur - 302022, Rajasthan
Phone : 9460222039, 9460222049
Email : director@teamtesthouse.com
marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502520500000324P	Date :	06-05-2020
Issued To :	M/s J.K. Lakshmi Cement Ltd. (Cement plant) Jaykaypuram, Sirohi (Rajasthan).	Type of Unit :	Cement Plant
Type of Sample :	Stack Emission Level	Date of Sample Collection/Monitoring :	03-03-2020
Point of Collection :	KILN-2 (RABH) VRM 24°41'22"N 73°0'12"E	Date of Receipt :	07-03-2020
Date of Test/Analysis :	07-03-2020 to 24-04-2020	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Hitesh Shukwal	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Particulate matter [mg/Nm ³]	22.66	IS 11255 (Part 1):1985 Reaffirmed 2014	30
2	Sulphur Dioxide [mg/Nm ³]	12	IS 11255(Part 2) :1985 Reaffirmed 2014	-
3	Oxides of Nitrogen [mg/Nm ³]	735	IS 11255 (Part 7) :1985 Redfirmed 2012	-
4	Carbon monoxide [mg/Nm ³]	158	IS 5182 (Part 10) : 1999 RA 2019	-
5	Mercury & its Compounds [mg/Nm ³]	BDL(<0.001)	USEPA method 29	0.05
6	Arsenic [mg/Nm ³]	BDL(<0.2)	USEPA method 29	-

Notes :-

- # Parameter No. 1,2,3,4 covered under NABL scope and Parameter No. 5,6 does not cover under NABL scope
- # Parameter No. NONE outsourced for testing.
- # The results listed refer only to the tested sample (s) & parameters (s). Endorsement of products is neither inferred nor implied.
- # This report is not to be reproduced wholly or in part and can not be used evidence in the court of law and should not be used in any advertising media without our special permission in writing.
- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.

Puran
Puran Mal Yogi

Rajesh
Rajesh Maheshwan



TEAM TEST HOUSE

(Unit of Team Institute of Science & Technology Pvt. Ltd.)



Approved by Ministry of Environment and Forest, Government of India as Environmental Laboratory

RSPCB

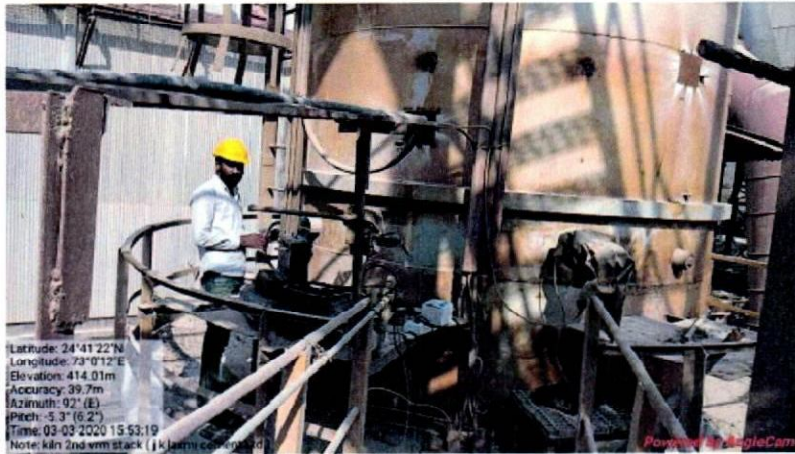
ISO 9001:2015

OSHAS 18001:2007

JDA/UDH

Office : E-65 Chitrangan Marg,
C-Scheme, Jaipur - 302001, Rajasthan
Phone : 0141-2369980, 9414077379
Website : www.teamtesthouse.com
Email : team.bdhead@gmail.com

Lab : G1-584, RIICO Industrial Area,
Sitapura, Jaipur - 302022, Rajasthan
Phone : 9460222039, 9460222049
Email : director@teamtesthouse.com
marketinglab@teamtesthouse.com



Latitude: 24°41'22"N
Longitude: 73°0'12"E
Elevation: 414.01m
Accuracy: 39.7m
Azimuth: 92° (E)
Pitch: -5.3° (6.2°)
Time: 03-03-2020 15:53:19
Note: kiln 2nd x m stack (jk jami.com) d

KILN-2 (RABH) VRM 24°41'22"N 73°0'12"E


Puran Mal Yogi
Senior Analyst


Rajesh Maheshwar
Authorized Signatory

(Report No: TC502520500000324P)



TEAM TEST HOUSE

(Unit of Team Institute of Science & Technology Pvt. Ltd.)



Approved by Ministry of Environment and Forest, Government of India as Environmental Laboratory

RSPCB

ISO 9001:2015

OSHAS 18001:2007

JDA/UDH

Office : E-65 Chitranjan Marg,
C-Scheme, Jaipur - 302001, Rajasthan
Phone : 0141-2369980, 9414077379
Website : www.teamtesthouse.com
Email : team.bdhead@gmail.com

Lab : G1-584, RIICO Industrial Area,
Sitapura, Jaipur - 302022, Rajasthan
Phone : 9460222039, 9460222049
Email : director@teamtesthouse.com
marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502520500000313F	Date :	06-05-2020
Issued To :	M/s J.K. Lakshmi Cement Ltd. (Cement plant) Jaykaypuram, Sirohi (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Stack Emission Level	Date of Sample Collection/Monitoring :	05-03-2020
Point of Collection :	Kiln 3 Cooler ESP 24°41'22"N 73°0'5"E	Date of Receipt :	07-03-2020
Date of Test/Analysis :	07-03-2020 to 24-04-2020	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Hitesh Shukwal	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Particulate matter [mg/Nm ³]	19.84	IS 11255 (Part 1):1985 Reaffirmed 2014	30

Notes :-

- # Parameter No. 1 covered under NABL scope and Parameter No. NONE does not cover under NABL scope
- # Parameter No. NONE outsourced for testing.
- # The results listed refer only to the tested sample (s) & parameters (s). Endorsement of products is neither inferred nor implied.
- # This report is not to be reproduced wholly or in part and can not be used evidence in the court of law and should not be used in any advertising media without our special permission in writing.
- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.

Puran
Puran Mal Yogi

Rajesh
Rajesh Maheshwari



TEAM TEST HOUSE

(Unit of Team Institute of Science & Technology Pvt. Ltd.)



Approved by Ministry of Environment and Forest, Government of India as Environmental Laboratory

RSPCB

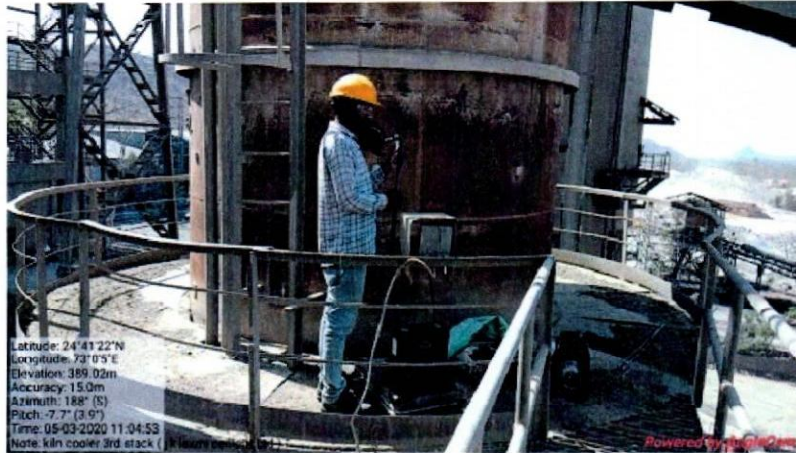
ISO 9001:2015

OSHAS 18001:2007

JDA/UDH

Office : E-65 Chitrangan Marg,
C-Scheme, Jaipur - 302001, Rajasthan
Phone : 0141-2369980, 9414077379
Website : www.teamtesthouse.com
Email : team.bdhead@gmail.com

Lab : G1-584, RIICO Industrial Area,
Sitapura, Jaipur - 302022, Rajasthan
Phone : 9460222039, 9460222049
Email : director@teamtesthouse.com
marketinglab@teamtesthouse.com



Latitude: 24°41'22"N
Longitude: 73°0'5"E
Elevation: 389.02m
Accuracy: 15.0m
Azimuth: 188° (S)
Pitch: -7.7° (3.9°)
Time: 05-03-2020 11:04:53
Note: kiln cooler 3rd stack

Kiln 3 Cooler ESP 24*41'22"N 73*0'5"E

Purans
Puran Mal Yogi
Senior Analyst

Raj
Rajesh Maheshwari
Authorized Signatory
(Report No: TC502520500000313F)



TEAM TEST HOUSE

(Unit of Team Institute of Science & Technology Pvt. Ltd.)



Approved by Ministry of Environment and Forest, Government of India as Environmental Laboratory

RSPCB

ISO 9001:2015

OSHAS 18001:2007

JDA/UDH

Office : E-65 Chitrangan Marg,
C-Scheme, Jaipur - 302001, Rajasthan
Phone : 0141-2369980, 9414077379
Website : www.teamtesthouse.com
Email : team.bdhead@gmail.com

Lab : G1-584, RIICO Industrial Area,
Sitapura, Jaipur - 302022, Rajasthan
Phone : 9460222039, 9460222049
Email : director@teamtesthouse.com
marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502520500000325P	Date :	06-05-2020
Issued To :	M/s J.K. Lakshmi Cement Ltd. (Cement plant) Jaykaypuram, Sirohi (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Stack Emission Level	Date of Sample Collection/Monitoring :	05-03-2020
Point of Collection :	KILN-3 (RABH) VRM 24*41'21N 73*0'11"E	Date of Receipt :	07-03-2020
Date of Test/Analysis :	07-03-2020 to 24-04-2020	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Hitesh Shukwal	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	
1	Particulate matter [mg/Nm ³]	15.78	IS 11255 (Part 1):1985 Reaffirmed 2014	30
2	Sulphur Dioxide [mg/Nm ³]	21.9	IS 11255(Part 2) :1985 Reaffirmed 2014	-
3	Oxides of Nitrogen [mg/Nm ³]	740	IS 11255 (Part 7) :1985 Redffirmed 2012	-
4	Carbon monoxide [mg/Nm ³]	180	IS 5182 (Part 10) : 1999 RA 2019	-
5	Mercury & its Compounds [mg/Nm ³]	BDL(<0.001)	USEPA method 29	0.05
6	Arsenic [mg/Nm ³]	BDL(<0.2)	USEPA method 29	-

Notes :-

- # Parameter No. 1,2,3,4 covered under NABL scope and Parameter No. 5,6 does not cover under NABL scope
- # Parameter No. NONE outsourced for testing.
- # The results listed refer only to the tested sample (s) & parameters (s). Endorsement of products is neither inferred nor implied.
- # This report is not to be reproduced wholly or in part and can not be used evidence in the court of law and should not be used in any advertising media without our special permission in writing.
- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.

Purah Mal Yogi
Purah Mal Yogi

Rajesh Maheshwari
Rajesh Maheshwari



TEAM TEST HOUSE

(Unit of Team Institute of Science & Technology Pvt. Ltd.)



Approved by Ministry of Environment and Forest, Government of India as Environmental Laboratory

RSPCB

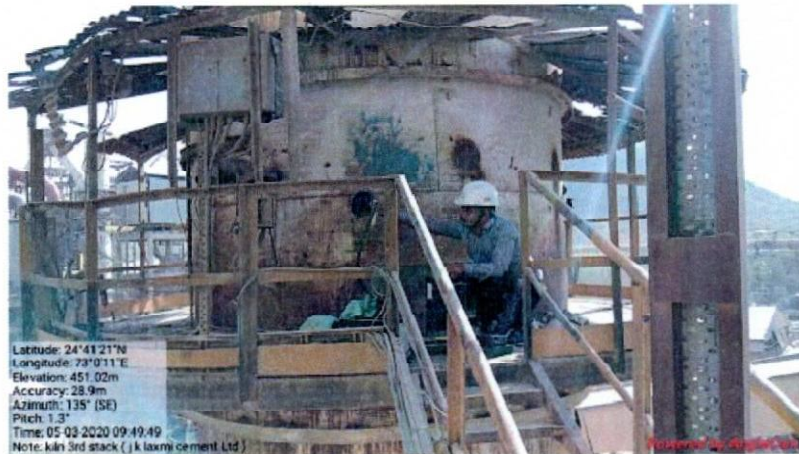
ISO 9001:2015

OSHAS 18001:2007

JDA/UDH

Office : E-65 Chitrangan Marg,
C-Scheme, Jaipur - 302001, Rajasthan
Phone : 0141-2369980, 9414077379
Website : www.teamtesthouse.com
Email : team.bdhead@gmail.com

Lab : G1-584, RIICO Industrial Area,
Sitapura, Jaipur - 302022, Rajasthan
Phone : 9460222039, 9460222049
Email : director@teamtesthouse.com
marketinglab@teamtesthouse.com



KILN-3 (RABH) VRM 24*41'21N 73*0'11"E

Puram
Puram Mal Yogi
Senior Analyst

Rajesh
Rajesh Maheshwan
Authorized Signatory
(Report No: TC502520500000325P)



TEAM TEST HOUSE
(Unit of Team Institute of Science & Technology Pvt. Ltd.)

Approved by Ministry of Environment and Forest, Government of India as Environmental Laboratory

RSPCB

ISO 9001:2015

OSHAS 18001:2007

JDA/UDH

Office : E-65 Chitrangan Marg,
C-Scheme, Jaipur - 302001, Rajasthan
Phone : 0141-2369980, 9414077379
Website : www.teamtesthouse.com
Email : team.bdhead@gmail.com

Lab : G1-584, RIICO Industrial Area,
Sitapura, Jaipur - 302022, Rajasthan
Phone : 9460222039, 9460222049
Email : director@teamtesthouse.com
marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502520400000654P	Date :	06-05-2020
Issued To :	M/s J.K. Lakshmi Cement Ltd. (Cement plant) Jaykaypuram, Sirohi (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitoring :	02-03-2020
Point of Collection :	Near Mines Magazine Area [24°41'15"N 73°0'17"E]	Date of Receipt :	07-03-2020
Date of Test/Analysis :	07-03-2020 to 24-04-2020	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Hitesh Shukwal	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL (<10.0)	CPCB Guidelines	400.00
2	Carbon Monoxide [microgram/m3]	260	IS 5182 (Part 10) : 1999 RA 2019	4000
3	Lead [microgram/m3]	0.19	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	14.36	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m3]	35.1	APHA 1977,Part 819	100.00
6	Particulate Matter (PM2.5) [microgram/m3]	37.85	CPCB Guidelines	60.00
7	Sulphur Dioxide [microgram/m3]	4.89	IS 5182 (Part 2) : 2001 RA 2017	80.00
8	Particulate Matter (PM 10) [microgram/m3]	74.48	IS 5182 (Part 23)-2006 RA 2017	100.00

Note:

Continue to next page...

Raj



TEAM TEST HOUSE

(Unit of Team Institute of Science & Technology Pvt. Ltd.)

Approved by Ministry of Environment and Forest, Government of India as Environmental Laboratory

RSPCB

ISO 9001:2015

OSHAS 18001:2007

JDA/UDH

Office : E-65 Chitrangan Marg,
C-Scheme, Jaipur - 302001, Rajasthan
Phone : 0141-2369980, 9414077379
Website : www.teamtesthouse.com
Email : team.bdhead@gmail.com

Lab : G1-584, RIICO Industrial Area,
Sitapura, Jaipur - 302022, Rajasthan
Phone : 9460222039, 9460222049
Email : director@teamtesthouse.com
marketinglab@teamtesthouse.com

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
9	Benzene [microgram/m3]	BDL (<1.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
10	Benzo-alfa- Pyrene [ng/m3]	BDL (<0.5)	CPCB Guidelines	1.00
11	Arsenic [ng/m3]	BDL (<2.0)	IS 5182 (Part 22) : 2004 Reaffirmed 2019	6.00
12	Nickel [ng/m3]	5	IS 5182 (Part 22) : 2004 Reaffirmed 2019	20.00
13	Mercury as Hg [ng/m3]	Not detected	IS 5182 (Part 22) : 2004 Reaffirmed 2019	-

Notes :-

- # Parameter No. 1,2,3,4,5,6,7,8,11,12 covered under NABL scope and Parameter No. 9,10,13 does not cover under NABL scope
- # Parameter No. NONE outsourced for testing.
- # The results listed refer only to the tested sample (s) & parameters (s). Endorsement of products is neither inferred nor implied.
- # This report is not to be reproduced wholly or in part and can not be used evidence in the court of law and should not be used in any advertising media without our special permission in writing.
- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.



Near Mines Magazine Area [24°41'15"N 73°0'17"E]

Puran
Puran Mali Yogi
Senior Analyst

Rajesh
Rajesh Maneshwari
Authorized Signatory
(Report No: TC502520400000654P)



TEAM TEST HOUSE

(Unit of Team Institute of Science & Technology Pvt. Ltd.)

Approved by Ministry of Environment and Forest, Government of India as Environmental Laboratory

RSPCB

ISO 9001:2015

OSHAS 18001:2007

JDA/UDH

Office : E-65 Chitrangan Marg,
C-Scheme, Jaipur - 302001, Rajasthan
Phone : 0141-2369980, 9414077379
Website : www.teamtesthouse.com
Email : team.bdhead@gmail.com

Lab : G1-584, RIICO Industrial Area,
Sitapura, Jaipur - 302022, Rajasthan
Phone : 9460222039, 9460222049
Email : director@teamtesthouse.com
marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502520400000656P	Date :	06-05-2020
Issued To :	M/s J.K. Lakshmi Cement Ltd. (Cement plant) Jaykaypuram, Sirohi (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitoring :	02-03-2020
Point of Collection :	Near CPP [24°41'45"N72°59'59"E]	Date of Receipt :	07-03-2020
Date of Test/Analysis :	07-03-2020 to 24-04-2020	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Hitesh Shukwal	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL (<10.0)	CPCB Guidelines	400.00
2	Carbon Monoxide [microgram/m3]	250	IS 5182 (Part 10) : 1999 RA 2019	4000
3	Lead [microgram/m3]	0.28	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	12.47	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m3]	32.5	APHA 1977, Part 819	100.00
6	Particulate Matter (PM2.5) [microgram/m3]	31.22	CPCB Guidelines	60.00
7	Sulphur Dioxide [microgram/m3]	3.78	IS 5182 (Part 2) : 2001 RA 2017	80.00
8	Particulate Matter (PM 10) [microgram/m3]	68.73	IS 5182 (Part 23)-2006 RA 2017	100.00

Note:

Continue to next page...

Bej



TEAM TEST HOUSE

(Unit of Team Institute of Science & Technology Pvt. Ltd.)

Approved by Ministry of Environment and Forest, Government of India as Environmental Laboratory

RSPCB

ISO 9001:2015

OSHAS 18001:2007

JDA/UDH

Office : E-65 Chitranganj Marg,
C-Scheme, Jaipur - 302001, Rajasthan
Phone : 0141-2369980, 9414077379
Website : www.teamtesthouse.com
Email : team.bdhead@gmail.com

Lab : G1-584, RIICO Industrial Area,
Sitapura, Jaipur - 302022, Rajasthan
Phone : 9460222039, 9460222049
Email : director@teamtesthouse.com
marketinglab@teamtesthouse.com

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
9	Benzene [microgram/m3]	BDL (<1.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
10	Benzo-alfa- Pyrene [ng/m3]	BDL (<0.5)	CPCB Guidelines	1.00
11	Arsenic [ng/m3]	BDL (<2.0)	IS 5182 (Part 22) : 2004 Reaffirmed 2019	6.00
12	Nickel [ng/m3]	6.6	IS 5182 (Part 22) : 2004 Reaffirmed 2019	20.00
13	Mercury as Hg [ng/m3]	Not detected	IS 5182 (Part 22) : 2004 Reaffirmed 2019	-

Notes :-

- # Parameter No. 1,2,3,4,5,6,7,8,11,12 covered under NABL scope and Parameter No. 9,10,13 does not cover under NABL scope
- # Parameter No. NONE outsourced for testing.
- # The results listed refer only to the tested sample (s) & parameters (s). Endorsement of products is neither inferred nor implied.
- # This report is not to be reproduced wholly or in part and can not be used evidence in the court of law and should not be used in any advertising media without our special permission in writing.
- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.



Near CPP [24*41'45"N72*59'59"E]

Purani Maheshwari
Purani Maheshwari
Senior Analyst

Rajesh Maheshwari
Rajesh Maheshwari
Authorized Signatory
(Report No: TC502520400000656P)



TEAM TEST HOUSE

(Unit of Team Institute of Science & Technology Pvt. Ltd.)

Approved by Ministry of Environment and Forest, Government of India as Environmental Laboratory

RSPCB

ISO 9001:2015

OSHAS 18001:2007

JDA/UDH

Office : E-65 Chitrangan Marg,
C-Scheme, Jaipur - 302001, Rajasthan
Phone : 0141-2369980, 9414077379
Website : www.teamtesthouse.com
Email : team.bdhead@gmail.com

Lab : G1-584, RIICO Industrial Area,
Sitapura, Jaipur - 302022, Rajasthan
Phone : 9460222039, 9460222049
Email : director@teamtesthouse.com
marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502520400000655P	Date :	06-05-2020
Issued To :	M/s J.K. Lakshmi Cement Ltd. (Cement plant) Jaykaypuram, Sirohi (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitoring :	06-03-2020
Point of Collection :	Near NC Type Quarter [24*42'4"N73*0'23"E]	Date of Receipt :	07-03-2020
Date of Test/Analysis :	07-03-2020 to 24-04-2020	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Hitesh Shukwal	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL (<10.0)	CPCB Guidelines	400.00
2	Carbon Monoxide [microgram/m3]	270	IS 5182 (Part 10) : 1999 RA 2019	4000
3	Lead [microgram/m3]	0.21	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	10.96	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m3]	33.2	APHA 1977,Part 819	100.00
6	Particulate Matter (PM2.5) [microgram/m3]	27.44	CPCB Guidelines	60.00
7	Sulphur Dioxide [microgram/m3]	5.54	IS 5182 (Part 2) : 2001 RA 2017	80.00
8	Particulate Matter (PM 10) [microgram/m3]	59.65	IS 5182 (Part 23)-2006 RA 2017	100.00

Note:

Continue to next page...

Baj-



TEAM TEST HOUSE
(Unit of Team Institute of Science & Technology Pvt. Ltd.)

Approved by Ministry of Environment and Forest, Government of India as Environmental Laboratory

RSPCB

ISO 9001:2015

OSHAS 18001:2007

JDA/UDH

Office : E-65 Chitrangan Marg,
C-Scheme, Jaipur - 302001, Rajasthan
Phone : 0141-2369980, 9414077379
Website : www.teamtesthouse.com
Email : team.bdhead@gmail.com

Lab : G1-584, RIICO Industrial Area,
Sitapura, Jaipur - 302022, Rajasthan
Phone : 9460222039, 9460222049
Email : director@teamtesthouse.com
marketinglab@teamtesthouse.com

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
9	Benzene [microgram/m ³]	BDL (<1.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
10	Benzo-alfa- Pyrene [ng/m ³]	BDL (<0.5)	CPCB Guidelines	1.00
11	Arsenic [ng/m ³]	BDL (<2.0)	IS 5182 (Part 22) : 2004 Reaffirmed 2019	6.00
12	Nickel [ng/m ³]	3.7	IS 5182 (Part 22) : 2004 Reaffirmed 2019	20.00
13	Mercury as Hg [ng/m ³]	Not detected	IS 5182 (Part 22) : 2004 Reaffirmed 2019	-

Notes :-

- # Parameter No. 1,2,3,4,5,6,7,8,11,12 covered under NABL scope and Parameter No. 9,10,13 does not cover under NABL scope
- # Parameter No. NONE outsourced for testing.
- # The results listed refer only to the tested sample (s) & parameters (s). Endorsement of products is neither inferred nor implied.
- # This report is not to be reproduced wholly or in part and can not be used evidence in the court of law and should not be used in any advertising media without our special permission in writing.
- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.


Puran Maheshwari
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: TC50252040000655P)



TEAM TEST HOUSE

(Unit of Team Institute of Science & Technology Pvt. Ltd.)

Approved by Ministry of Environment and Forest, Government of India as Environmental Laboratory

RSPCB

ISO 9001:2015

OSHAS 18001:2007

JDA/UDH

Office : E-65 Chitranganj Marg,
C-Scheme, Jaipur - 302001, Rajasthan
Phone : 0141-2369980, 9414077379
Website : www.teamtesthouse.com
Email : team.bdhead@gmail.com

Lab : G1-584, RIICO Industrial Area,
Sitapura, Jaipur - 302022, Rajasthan
Phone : 9460222039, 9460222049
Email : director@teamtesthouse.com
marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502520400000657P	Date :	06-05-2020
Issued To :	M/s J.K. Lakshmi Cement Ltd. (Cement plant) Jaykaypuram, Sirohi (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitoring :	06-03-2020
Point of Collection :	Near Play Ground [24°41'57"N73°0'38"E]	Date of Receipt :	07-03-2020
Date of Test/Analysis :	07-03-2020 to 24-04-2020	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Hitesh Shukwal	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m ³]	BDL (<10.0)	CPCB Guidelines	400.00
2	Carbon Monoxide [microgram/m ³]	240	IS 5182 (Part 10) : 1999 RA 2019	4000
3	Lead [microgram/m ³]	0.25	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO ₂ [microgram/m ³]	15.38	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m ³]	32.7	APHA 1977, Part 819	100.00
6	Particulate Matter (PM _{2.5}) [microgram/m ³]	36.43	CPCB Guidelines	60.00
7	Sulphur Dioxide [microgram/m ³]	5.02	IS 5182 (Part 2) : 2001 RA 2017	80.00
8	Particulate Matter (PM ₁₀) [microgram/m ³]	78.97	IS 5182 (Part 23)-2006 RA 2017	100.00

Note:

Continue to next page...

Page



TEAM TEST HOUSE
(Unit of Team Institute of Science & Technology Pvt. Ltd.)

Approved by Ministry of Environment and Forest, Government of India as Environmental Laboratory

RSPCB

ISO 9001:2015

OSHAS 18001:2007

JDA/UDH

Office : E-65 Chitranjan Marg,
C-Scheme, Jaipur - 302001, Rajasthan
Phone : 0141-2369980, 9414077379
Website : www.teamtesthouse.com
Email : team.bdhead@gmail.com

Lab : G1-584, RIICO Industrial Area,
Sitapura, Jaipur - 302022, Rajasthan
Phone : 9460222039, 9460222049
Email : director@teamtesthouse.com
marketinglab@teamtesthouse.com

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
9	Benzene [microgram/m3]	BDL (<1.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
10	Benzo-alfa- Pyrene [ng/m3]	BDL (<0.5)	CPCB Guidelines	1.00
11	Arsenic [ng/m3]	BDL (<2.0)	IS 5182 (Part 22) : 2004 Reaffirmed 2019	6.00
12	Nickel [ng/m3]	5.9	IS 5182 (Part 22) : 2004 Reaffirmed 2019	20.00
13	Mercury as Hg [ng/m3]	Not detected	IS 5182 (Part 22) : 2004 Reaffirmed 2019	-

Notes :-

- # Parameter No. 1,2,3,4,5,6,7,8,11,12 covered under NABL scope and Parameter No. 9,10,13 does not cover under NABL scope
- # Parameter No. NONE outsourced for testing.
- # The results listed refer only to the tested sample (s) & parameters (s). Endorsement of products is neither inferred nor implied.
- # This report is not to be reproduced wholly or in part and can not be used evidence in the court of law and should not be used in any advertising media without our special permission in writing.
- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.


Puran Mal Yogi
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: TC50252040000657P)



TEAM TEST HOUSE

(Unit of Team Institute of Science & Technology Pvt. Ltd.)



Approved by Ministry of Environment and Forest, Government of India as Environmental Laboratory

RSPCB

ISO 9001:2015

OSHAS 18001:2007

JDA/UDH

Office : E-65 Chitrangan Marg,
C-Scheme, Jaipur - 302001, Rajasthan
Phone : 0141-2369980, 9414077379
Website : www.teamtesthouse.com
Email : team.bdhead@gmail.com

Lab : G1-584, RIICO Industrial Area,
Sitapura, Jaipur - 302022, Rajasthan
Phone : 9460222039, 9460222049
Email : director@teamtesthouse.com
marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502520200000279F	Date :	05-05-2020
Issued To :	M/s J.K. Lakshmi Cement Ltd. (Cement plant) Jaykaypuram, Sirohi (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Wastewater Sample	Date of Sample Collection/Monitoring :	06-03-2020
Point of Collection :	STP OUTLET	Date of Receipt :	07-03-2020
Date of Test/Analysis :	07-03-2020 to 24-04-2020	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 Ltr.	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Hitesh Shukwal	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Total Dissolved Solids [mg/l]	1011	APHA 2017 : 2540 C	-
2	Total Suspended Solids [mg/l]	13	APHA.2017:2540-D	100
3	Ammonical Nitrogen as N [mg/l]	2.80	APHA 2017 : 4500-NH3 C	50
4	Biochemical Oxygen Demand (BOD) [mg/l]	10	APHA 2017:5210-B	30
5	Chemical Oxygen Demand (COD) [mg/l]	47.79	APHA:2017 : 5220-C	250
6	Nitrate Nitrogen as NO3-N [mg/l]	7.14	APHA 2017 : 4500-NO3- B	10
7	pH	7.40	APHA:2017 : 4500 H+B	5.5 - 9.0
8	Oil & Grease [mg/l]	4	APHA 2017 : 5520 B	10
9	Total Residual Chlorine [mg/l]	BDL (< 0.1)	APHA:2017 : 4500-CI B	1.0

Notes :-

- # Parameter No. 1,2,3,4,5,6,7,8,9 covered under NABL scope and Parameter No. NONE does not cover under NABL scope
- # Parameter No. NONE outsourced for testing.
- # The results listed refer only to the tested sample (s) & parameters (s). Endorsement of products is neither inferred nor implied.
- # This report is not to be reproduced wholly or in part and can not be used evidence in the court of law and should not be used in any advertising media without our special permission in writing.
- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.

Prady
Senior Analyst
Prady Mal Yogi

Raj
Rajesh Maheshwari
Authorized Signatory
(Report No: TC502520200000279F)

JK LAKSHMI CEMENT LTD. P.O. JAYKAYPURAM, TEHSIL PINDWARA, DISTT. SIROHI (RAJ.)**COMPLIANCE STATUS OF THE CREP MARCH 2003**
RECOMMENDATIONS

S/N	CREP CONDITION	PRESENT STATUS
1	<p>Cement plant, which are not complying with notified standards, shall do the following to meet the standards:</p> <p>Augmentation of existing Air pollution Control Devices - by July 2003.</p> <p>Replacement of existing Air Pollution Control Devices - by July 2004</p>	Not Applicable. We are already complying with notified standard as per MoEFCC notification G.S.R. 496(E) dt. 09/05/2016 and G.S.R. 497(E) dt. 10/05/2016.
2	Cement plants located in critically polluted or urban areas (including 5 Km distance outside urban boundary) will meet 100 mg/Nm ³ limit of particulate matter by December 2004 and continue working to reduce the emission of particulate matter 50 mg/Nm ³ .	Not Applicable. The plant is neither located in critically polluted area nor in urban area. However, we are complying emission standard of particulate matter <30 mg/Nm ³ as per notified standard by MoEFCC.
3	The new cement kiln to be accorded NOC/ Environmental Clearance w.e.f 1/4/03 will meet the limit of 50 mg/Nm ³ for particulate matter emission.	Complied. Particulate matter emission limit of < 30 mg/Nm ³ is being maintained and complied as per notified standard by MoEFCC.
4	CPCB will evolve load-based standards by December 2003.	Load based standards (0.125 kg/tonne of clinker) notified vide MoEFCC notification G.S.R. 612(E) dt. 25/08/2014. It is being complied.
5	CPCB and NCBM will evolve SO ₂ and NO _x emission standards by June - 2004	Emission standards (for SO ₂ & NO _x) notified vide MoEFCC notification G.S.R. 612(E) dt. 25/08/2014, G.S.R. 496(E) dt. 09/05/2016 and G.S.R. 497(E) dt. 10/05/2016. It is being complied. We had installed DeNO _x system (SNCR) for all Line I, II & III to control emissions of NO _x .
6	The cement industries will control fugitive emission from all raw material and product storage and transfer points by December 2003. However, the National Task Force will decide the feasibility for the control of fugitive emission from limestone and coal storage areas. The NTF shall submit its recommendations with in three months.	We have closed storage silo for Coal, Clinker, Fly ash and Limestone, Cement etc. and have water spraying arrangement on raw materials at identified locations. All conveyor belts are covered to avoid wind blowing of fines. All material transfer points are fully enclosed and equipped with dust extraction systems. Provided cemented concrete floor/paved road in the plant and at main gate truck parking area to mitigate fugitive dust generation. We are carrying out regular sweeping of cemented roads and floors through road vacuum sweeping machines and maintained house-keeping.
7	CPCB, NCBM, BIS and Oil refineries will jointly prepare the policy on use of petroleum cock as fuel in Cement Kiln by July 2003.	We are using petroleum coke as a fuel. We had obtained required permissions from RSPCB for the same.
8	After performance evaluation of various types of continuous monitoring	Particulate Matter Continuous Emission Monitoring Systems (PM - CEMS) are installed for all major stacks in Cement Plant as

	<p>equipment and feedback from the industries and equipment manufacturers, NTF will decide feasible unit operation/section for installation of continuous monitoring equipment.</p> <p>The industry will install the continuous monitoring system (CMS) BY December 2003.</p>	<p>well as Captive Thermal Power Plants (CTPPs). Moreover, Gaseous CEMS (for SO₂ & NO_x) are also installed for Kiln-VRM stacks and CTPPs stacks. All online continuous emissions monitoring parameter's (PM, SO₂ & NO_x) values are being transferred to RSPCB and CPCB servers and displayed at Main Gate for public domain.</p>
9	Tripping in Kiln ESP to be minimized by July 2003 as per the recommendation on NTF	Not applicable. As we have Hybrid Bag Filter-ESP, Reverse Air Bag Houses and Jet Pulse Bag Filter in Kiln-VRMs.
10	Industries will submit the target date to enhance the utilization waste material by April 2003.	At present fly ash is being consumed for PPC production. We are using biomass (agro-waste like mustard, moong, soyabean husk, sarson etc.) and various kinds of alternative fuels (liquid and solid) for partial replacement of fossil fuel into pyro-processing for Kiln 1, Kiln 2 & Kiln 3.
11	NCBM will carry out a study on hazardous waste utilization in cement kiln by December 2003.	We had obtained authorizations for utilization of various kinds of Alternative Fuels and Raw Materials for co-processing and as alternate raw materials.
12	Cement industries will carry out feasible study and submit target dates to CPCB for co-generation of power by July-2003.	Waste heat recovery power plant of capacity 15 MW installed with existing all three Kilns.

* Non complying units shall give bank guarantee to respective SPCBs.

**COMPLIANCE STATUS OF THE CORPORATE RESPONSIBILITY FOR ENVIRONMENT PROTECTION
(CREP) - THERMAL POWER PLANTS**

JK LAKSHMI CEMENT LTD. P.O. JAYKAYPURAM, TEHSIL PINDWARA, DISTT. SIROHI (RAJ.)

S/N	CREP CONDITION	COMPLIANCE STATUS
1	<p>Implementation of Environmental Standards (emission & effluent) in non-compliant* Power Plants (31 & 27)</p> <ul style="list-style-type: none"> - Submission of action plan : June 30, 2003 - Placement of order for Pollution of control equipment : September, 2003 - Installation & commission : December 31, 2005. 	<ol style="list-style-type: none"> 1. All environmental standards are compiled from beginning of the Captive Thermal Power Plant (CTPP). Boilers are attached to high efficiency 04 fields Electro Static Precipitator (ESP) and interlocked with the system. 2. Bag filters are provided over coal transfer points of the conveyors. 3. Water sprinklers are provided at coal stockpile, coal unloading hoppers and on the conveyors where dust is likely to be emitted during conveying.
2	<p>For existing thermal power plants, a feasibility study shall be carried out by Central Electricity Authority (CEA) to examine possibility to The studies shall also suggest the road map to meet 100 mg/Nm³ wherever found feasible. CEA shall submit the report by March 2004.</p>	<p>Not applicable. At present JK Lakshmi Cement is meeting out particulate matter emission <50 mg/Nm³ from boiler's stack.</p>
3	<p>New / expansion power projects to be accorded environmental clearance on or after 1.4.1.2003 shall meet the limit of 100 mg/Nm³ for particulate matter.</p>	<p>Not applicable for the project proponent. At present JK Lakshmi Cement is meeting out particulate matter emission <50 mg/Nm³ from stack.</p>
4	<p>Development of SO₂ & NO_x emission standards for coal based plants by December 2003.</p> <ul style="list-style-type: none"> - New/ expansion power projects shall meet the limit of SO₂ & NO_x w.e.f. 1.1.2005. - Existing power plants shall meet the limit of SO₂ & NO_x w.e.f. 1.1.2006. 	<p>As per MoEFCC Gazette notification dated 07.12.2015, PM emission standard is being complied. Regarding SO₂ & NO_x standards action plan was submitted for compliance.</p>
5	<p>Install/activate opacity meters/ continuous monitoring system in all the units by December 31, 2004 with proper calibration system.</p>	<p>Continuous Emission Monitoring System (CEMS) for gaseous and PM are already installed over stacks.</p>
6	<p>Development of guidelines/ standards for mercury and other toxic heavy metals emissions by December 2003.</p>	<p>As per MoEFCC Gazette notification dated 07.12.2015 emission standard for mercury was prescribed. Emission standards of Hg is within prescribed limit.</p>
7	<p>Review of stack height requirement and guidelines for power plants based on micro meteorological data by June 2003.</p>	<p>Provided common stack for two units for 40 MW (2x20 MW) with stack height 93 Mtrs and 1x18 MW with stack height 90 Mtrs. and diameter – 2.3 Mtrs of each stack.</p>

8	<p>Implementation of use of beneficiated coal as per GOI Notification: Power plants will sign fuel supply agreement (FSA) to meet the requirement as per the matrix prepared by CEA for compliance of the notification as short term measure. Options/mechanism for setting up of coal washeries as a long term measure * Coal India will up its own washery * State Electricity Board to set up its own washery * Coal India to ask private entrepreneurs to set up washeries for CIL and taking washing charges</p> <p>* SEBs to select a private entrepreneur to set up a washery near pit- head installation of coal beneficiation plant</p>	Not applicable for the project proponent.
9	Power plants will indicate their requirement of abandoned coal mines for ash disposal & Coal India/ MOC shall provide the list of abandoned mines by June 2003 to CEA.	Not applicable for the project proponent.
10	Power plants will provide dry ash to the users outside the premises or uninterrupted access to the users within six months.	Entire fly ash generated from the CPPs is being used in own cement manufacturing process.
11	Power Plants should provide dry flyash free of cost to the users.	100% of the fly ash is being used in our own cement plant located in the same premises.
12	State P.W.Ds/ construction & development agencies shall also adhere to the specifications/Schedules of CPWD for ash based products utilization MoEF will take up the matter with State Governments.	Not applicable for the project proponent
13	<p>(i) New plants to be accorded environmental clearance on or after 1.04.2003 shall adopt dry flyash extraction or dry disposal system or Medium (35-40%) ash concentration slurry disposal system or Lean phase with hundred percent ash water re-circulation system depending upon site specific environmental situation. (ii) Existing plants shall adopt any of the systems mentioned in 13 (i) by December 2004.</p>	Fly ash is being stored in separate silo through close pneumatic pipe system. Further, it is being used in cement manufacturing process in own cement plant.
14	Fly ash Mission shall prepare guidelines/manuals for fly ash utilization by March 2004.	Captive power plant's fly ash (100%) is being used in cement manufacturing process.
15	New plants shall promote adoption of clean coal and clean power generation technologies.	In power plant JK Lakshmi Cement has installed Air Cooler Condenser in place of water cooled condenser. JK Lakshmi Cement had installed 15 MW cap. Waste Heat Recovery Boiler Based Power Plant under Clean Power generation technology.