

MGR/PC-21/C13

through Email

Date: 17.05.2023

To,
The Director (I),
Ministry of Environment, Forest & Climate Change,
Indira Paryavaran Bhavan,
JOR Bagh Road, Aliganj,
New Delhi-110003

Sub: Environmental Clearance Compliance report for Expansion of Clinker and Cement production, Captive power plant and WHRS of M/s J.K. Cement Works, Mangrol at Village- Mangrol, District- Chittorgarh, Rajasthan.

Ref.: EC letter no. J-11011/267/2013-IA. II (I) dated. 08.09.2016 & amendment dt. 08.03.2019.

Dear Sir,

With reference to above stated Environment Clearance (EC) accorded for our Mangrol plant, Clinker (2.90 MMTPA to 5.65 MMTPA) and Cement (3.54 MMTPA to 7.05 MMTPA) Captive Power Plant from 25 MW to 60 MW, and WHRB from 10 MW to 36 MW at our J.K. Cement Works, Mangrol. Please find attached herewith six monthly compliance for the period from **October 2022 to March 2023**.

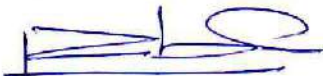
As per MoEF & CC notification no. S.O. 5845 (E) 26.11.2018 the same soft copy has been send to email id. moef@nic.in, ccb.cpcb@nic.in, member-secretary@rpcb.nic.in, cpcb.bhopal@gov.in, iro.jaipur-mefcc@gov.in, seidams2021@gmail.com for your kind reference and record please.

We trust you will find the same in order.

Thanking you,

Yours Faithfully

For J. K. Cement Works, Mangrol



R. B. M. Tripathi
President (Operations)

Encl: as above

Copy to:

1. The Deputy Director(S), Ministry of Environment, Forests & Climate Change, Integrated Regional office, Jaipur, A-218, Aranya Bhawan, Jhalana Institutional Area, **Jaipur-302004**
2. The Regional Director, Central Pollution Control Board, Paryavaran Parisar, E-5, Arera colony, **Bhopal (M.P) 462016**
3. The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-CUM office complex, East Arjun Nagar, **New Delhi 110032**.
4. The Chairman, Rajasthan State Pollution Control Board, 4, Institutional Area, Jhalana Doongri, **Jaipur - 302004 (Rajasthan)**

Corporate Office

Padam Tower, 19 DDA Community Centre
Okhla, Phase - 1, New Delhi - 110020, India
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admin.padamtower@jkcement.com
www.jkcement.com

**JK SUPER
CEMENT**
BUILD SAFE

Manufacturing Units at :

Nimbahera, Mangrol, Gotan (Rajasthan) | Muddapur (Karnataka)
Jharli (Haryana) | Katni (M.P.) | Aligarh (U.P.) | Balasinor (Gujarat)

**JK CEMENT
WallMaxX**
White Cement Wall Putty



Form for Uploading Six Monthly Compliance Report

Proposal Details

Proposal No.	IA/RJ/IND/20196/ 2013	Project Name	Expansion of existing Clinker and Cement Manufacturing Capacity of M/s. J.K. Cement Works (2.90 MMTPA to 5.65 MMTPA of Clinker Production and 3.45 MMTPA to 7.05 MMTPA of Cement Production), Captive Power Plant from 25 to 60 MW by installation of an additional Coal Based Captive Power Plant of 35 MW and WHRB from 10 to 20 MW by installing an additional Waste Heat Recovery Boiler of 10 MW, at Village - Mangrol, Tehsil-Nimbahera, District - Chittorgarh, Rajasthan, and Integrated Cement Plant (Clinker 5.65 MTPA; Cement 7.05 MTPA; CPP 60 MW - Coal Based 35 MW and WHRB 20 MW) located at Village - Mangrol, Tehsil - Nimbahera, District - Chittorgarh, Rajasthan by M/s. J.K. Cement Works - Amendment in Environmental Clearance for Expansion of WHRB from 20 MW to 30 MW under the clause 7(ii) of EIA Notification, 2006
Category	A	MoEF File No.	J-11011/267/2013-IA. II (I) dated. 08.09.2016 & Amendment dated 08.03.2019
Name of the Entity /Corporate Office*	M/s. J.K. Cement Works, Nimbahera, Kailash Nagar, District Chittorgarh-31261, Rajasthan		
Entity's PAN*	AABCJ0355R		
Entity Name as per PAN	J K CEMENT LIMITED.		

Compliance Letter/Report

Reporting Year*	2023	Reporting Period*	October-2022 to March-2023
Remarks (if any)	Submitting herewith the Six Monthly EC Compliance Report for the period: October-2022 to March-2023 of Integrated Cement Plant (Clinker 5.65 MTPA; Cement 7.05 MTPA; CPP 60 MW - Coal Based 35 MW and WHRB 20 MW) located at Village - Mangrol, Tehsil - Nimbahera, District - Chittorgarh, Rajasthan by M/s. J.K. Cement Works - Amendment in Environmental Clearance for Expansion of WHRB from 20 MW to 30 MW under the clause 7(ii) of EIA Notification, 2006.		

Details of Production and Project Area

Date of Commencement of Project /Activity:*	Line-1: 12.07.2004; Line-2: 04.07.2014 Line-3: 29.09.2019	Project Area as Per EC Granted (In Case of Mine Lease):*	149.42 ha.
Actual Project Area (In Case of Mine Lease):*	149.42 ha.		

PRODUCTION CAPACITY

Name of the Product*	Units*	As per EC granted*	Production during last financial year*: 2022-23
Clinker Production	Million Tons Per Annum	5.65	4.985310
Cement Production	Million Tons Per Annum	7.05	3.339641



CPP (Electricity Generation)	MW/Hr.	60	13388.323 Mwh
WHRB (Electricity Generation)	MW/Hr.	30	195171.490 Mwh



ENVIRONMENT CLEARANCE COMPLIANCE REPORT OF J. K. CEMENT WORKS, MANGROL (RAJASTHAN)
(Period: October 2022 to March 2023)



Expansion of existing Clinker and Cement Manufacturing Capacity of M/s. J.K. Cement Works (2.90 MMTPA to 5.65 MMTPA of Clinker Production and 3.45 MMTPA to 7.05 MMTPA of Cement Production), Captive Power Plant from 25 to 60 MW by installation of an additional Coal Based Captive Power Plant of 35 MW and WHRB from 10 to 20 MW by installing an additional Waste Heat Recovery Boiler of 10 MW, at Village - Mangrol, Tehsil-Nimbahera, District - Chittorgarh, Rajasthan and **EC Amendment:** - Integrated Cement Plant (Clinker 5.65 MTPA; Cement 7.05 MTPA; CPP 60 MW - Coal Based 35 MW and WHRB 20 MW) located at Village - Mangrol, Tehsil - Nimbahera, District - Chittorgarh, Rajasthan by M/s. J.K. Cement Works - Amendment in Environmental Clearance for Expansion of WHRB from 20 MW to 30 MW under the clause 7(ii) of EIA Notification, 2006



EC Letter No.: J-11011/267/2013-IA. II (I) dated. 08.09.2016 and Amendment dated 08.03.2019



A.	SPECIFIC CONDITION: -			
S. No.	Condition Type	Condition Details	Self Declaration	Remarks / Reason
i	Air Quality Monitoring And Preservation	The project proponent should install 24x7 air monitoring devices to monitor air emission, as provided by the CPCB and submit report to Ministry and its Regional Office.	Complied	<ul style="list-style-type: none"> Four (4) nos. of Continuous Ambient Air Quality Monitoring Station (CAAQMS) has been established at periphery of the plant for monitoring of the air quality and real time data is being transmitted to CPCB/SPCB portals.
ii	Air Quality Monitoring And Preservation	The Standard issued by the Ministry vide G.S.R. No. 612 (E) dated 25 th August, 2014 and subsequent amendment dated 9 th May, 2016 and 10 th May, 2016 regarding cement plant with respect to Particulate Matter, SO ₂ and NO _x shall be followed.	Complied	<ul style="list-style-type: none"> Unit is complying with the aforesaid stack emission standards. Unit has provided the Bag House/Bag Filter/ESP in all process stacks to control the PM emission. Unit has provided the SNCR system to control the NO_x emission. Photos of the same is given below: Detail stack emission monitoring and co-processing emission monitoring results is enclosed as Annexure-1.



																																		
iii	Air Quality Monitoring And Preservation	Continuous stack monitoring facilities to monitor gaseous emissions from 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 filter to coal mill and cement mill. Low NOx burner shall be provided to control NOx emissions. Regular calibration of the instruments must be ensured.	Complied	<ul style="list-style-type: none">CEMS system has been installed for continuous emission monitoring of the PM, SO₂ and NO_x at all process stacks.Bag house has been installed in Raw Mill & Kilns, Cement Mills and Coal Mills to control the PM emission.ESP has been installed in Coolers and Boiler to control the PM emission.Low NOx burner has been installed in Line-1, Line-2 & Line-3.SNCR system has also been installed to control the NOx emission.CEMS real time data is being uploaded regularly on CPCB & RSPCB portals.Calibration of the CEMS instruments being done on quarterly basis.																														
iv	Energy Preservation Measures	Efforts shall be made to achieve power consumption of 70 units/tonne for Portland Pozzolona Cement (PPC) and 95 units/tonnes for Ordinary Portland Cement (OPC) production and thermal energy consumption of 670 Kcal/Kg of clinker.	Complied	<ul style="list-style-type: none">All suitable measures like VVFD, high efficient motors have been adopted to reduce power consumption.The specific Power and Thermal Energy Consumption is as given below: <table><tr><th rowspan="2">Month</th><th colspan="2">Power Consumption (kwh/ton of Cement)</th><th rowspan="2">Thermal Energy Kcal/Kg. of Clinker (with loss)</th></tr><tr><th>OPC</th><th>PPC</th></tr><tr><td>Oct-22</td><td>70.7</td><td>54.8</td><td>752</td></tr><tr><td>Nov-22</td><td>70.1</td><td>55.2</td><td>749</td></tr><tr><td>Dec-22</td><td>64.5</td><td>50.3</td><td>755</td></tr><tr><td>Jan-23</td><td>68.5</td><td>55.4</td><td>764</td></tr><tr><td>Feb-23</td><td>66.6</td><td>52.8</td><td>768</td></tr><tr><td>Mar-23</td><td>65.5</td><td>52.9</td><td>765</td></tr></table>	Month	Power Consumption (kwh/ton of Cement)		Thermal Energy Kcal/Kg. of Clinker (with loss)	OPC	PPC	Oct-22	70.7	54.8	752	Nov-22	70.1	55.2	749	Dec-22	64.5	50.3	755	Jan-23	68.5	55.4	764	Feb-23	66.6	52.8	768	Mar-23	65.5	52.9	765
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Avg	67.9	53.7	756					
(v)	Air Quality Monitoring and Preservation	The National Air Quality Standards issued by the Ministry vide G.S.R. No. 826 (E) dated 16 th November, 2009 shall be followed.	Complied	<ul style="list-style-type: none">Four nos. Continuous Air Quality Monitoring Station (CAAQMS) at periphery of the plant for monitoring of ambient air quality and real time data's are being transmitted to CPCB/SPCB portals.Manual AAQ monitoring are being also done and AAQ Monitoring results are found well within the prescribed standards.Detail Ambient Air Quality Monitoring results (Manual) for the period: Oct-22 to March-23 is enclosed as Annexure-2.				
(vi)	Air Quality Monitoring And Preservation	AAQ Modelling 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.	Complied	AAQ modelling were carried out as part of the EIA report of expansion project and based on the specific mitigate measures taken to keep the emissions well within the prescribed standards.				
(vii)	Air Quality Monitoring And Preservation	Secondary fugitive emissions shall be controlled and shall be within the prescribed limits and regularly monitored. Guidelines/Code of Practice issued by the CPCB in this regard shall be followed.	Complied	Unit is follow the CPCB guidelines/ code of practice to control the secondary fugitive emissions and measures taken are as: - Bag filters installed at all material transfer points, enclosures provided at all hoppers, water spray system provided at material handling area and developed covered sheds and storage silo for intermediate & finished product. Fugitive emission monitoring report for the period: Oct-22 to March-23 is enclosed as Annexure-3 . Photographs of fugitive control measure are as below:				
								
	Bag filters installed at material transfer point		Raw material covered belt conveyor					

				
	Raw meal storage in CF silo		Clinker Storage Silo	
(viii)	Miscellaneous	<p>A statement on carbon budgeting including the quantum of equivalent CO₂ being emitted by the existing plant operations, the amount of carbon sequestered annually by the existing green belt and the proposed green belt and the quantum of equivalent CO₂ that will be emitted due to the proposed expansion shall be prepared by the project proponent and submitted to the Ministry and the Regional Office of the Ministry. This shall be prepared within a period of 6 Months and subsequently it should be prepared every year.</p>	Complied	<p>Unit is continuously making efforts to reduce the CO₂ emissions such as: -</p> <ol style="list-style-type: none"> 1. Increase the green power generation from waste heat of cement plant by Waste Heat Recovery Boiler. 2. For reduction of mineral consumption, increase the PPC production. 3. For reduction of fossil fuel consumption, Hazardous & others waste is being co-processed as AFR. In FY 2022-23: total 413718.641 MT waste material co-processed as AFR, including ARM. 4. Dense greenbelt is developed in & around the plant & colony. 5. Solar Power Plant of 7.0 MW installed at Mangrol Plant & Colony.
(ix)	Human Health Environment	<p>For the employees working in high temperature zones falling in the plant operation areas, the total shift duration would be 4 hrs. or less per day where the temperature is more than 50°C. Moreover, the jobs of these employees will be alternated in such a way that no employee is subjected to working in high temperature area for more than 1 hr. continuously. Such employees would be invariably provided with proper protective equipments, garments and gears such as head gear, clothing, gloves eye protection etc.</p>	Complied	<p>No any workmen/employee are being allowed to work more than 4 hrs. where temperature is more than 50 °C. However, during shutdown, works start only after cooling of equipment's. Adequate personal protective equipment's (PPEs) are being provided to respective worker.</p>

		There should also be an arrangement for sufficient drinking water at site to prevent dehydration etc.		
(x)	Miscellaneous	Arsenic and Mercury shall be monitored in emissions, ambient air and water.	Complied	Arsenic and mercury monitoring in stack emissions, ambient air and water quality is being carried out by MoEF&CC recognized laboratory. Kindly refer the stack, water quality and ambient air monitoring report.
(xi)	Miscellaneous	The coal yard shall be lined and covered.	Complied	Coal are being storage in covered storage yard.
				
(xii)	Miscellaneous	The project proponent shall prepare a report on impact of project on surrounding reserve forest within six months and will get it approved from the State Forest Department. A copy of the conservation with the State Forest and Wildlife Department. A copy of the same should be submitted to the Ministry and its Regional Office.	Complied	There is no Wildlife Sanctuary, National Park, within 10 Km periphery of the lease area. The same has been authenticated by Deputy Conservator of forest Chittorgarh vide letter no. AF () survey/UVS/2021-22/4089 dated 13.07.2021.
(xiii)	Statutory compliance	The project proponent shall take all precautionary measures for conservation and protection of wild fauna in the study area. A Wildlife Conservation Plan specific to this project site shall be prepared in consultation with State Forest and Wildlife Department. A copy of the Conservation plan shall be submitted to the Ministry and its Regional Office.	Complied	Combined WLCP has been prepared for 5 Nos. of captive Limestone Mines and 2 Nos. of Integrated Cement Plant of J K Cement Ltd are situated within 10 Km radius in Tehsil Nimbahera, Chittorgarh District. Wildlife Conservation Plan (WCP) has been prepared for 6 Schedule-I Species found in the buffer area during the survey i.e.: - a) Pavocristatus (Indian Peafowl),




				<p>b) Pantherapadusfusca (Indian Leopard), c) Prionailurusrubiginosus (Rusty-Spotted Cat), d) Canis lupus pallipes (Indian Wolf), e) Varanusbengalensis (Indian Monitor Lizard) f) Gyps indicus/Gyps bengalensis (Indian Vulture)</p> <p>Wild life conservation plan has been forwarded by the DFO, Chittorgarh to Divisional Chief Conservator of Forest vide letter No.: F(5) Survey/UVS/2021-22/4089 dated 13.07.2021 and accordingly 20% amount of Rs. 57.07 Lakh deposited to DFO - Chittorgarh against the total amount of WCP of Rs. 285.30/- Cr in July-2021.</p>
(xiv)	Statutory compliance	The project proponent will also provide the latest status of the environment compliances in respect of its existing plant.	Complied	Last EC compliance report submitted through email on 22.11.2022 vide our letter No.: MGR/PC/ 21/C13 dated 19.11.2022 for the period: April-22 to September-22.
(xv)	Air Quality Monitoring And Preservation	Efforts shall be made to reduce impact of the transport of the raw material and end products on the surrounding environment including agricultural land by the use of conveyors/rail mode of transport wherever feasible. The company shall have separate truck parking area. Vehicular emissions shall be regularly monitored.	Complied	Raw material like coal/petcock is being transported through rail and maximum quantity of finished product dispatch through rail. Fly ash is being sourced from nearby to reduce the transportation impact. Separate truck parking area facilitated near the factory gate and regular water spray on road & yard being done.
				
Water spraying system (fog system) at coal unloading point			Material Transportation by railway	

(xvi)	Water Quality Monitoring And Preservation	Efforts shall be made to further reduce water consumption by using air cooled condensers. All the treated waste water 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 waste water shall be discharged outside the factory premises and 'zero' discharge shall be adopted.	Complied	To reduce the water consumption, unit has already installed air cooled condensers in captive power plant & WHRS. For maintain ZERO LIQUID DISCHARGE UNIT, 100% treated water of WHRS & CPP are being utilization in cement plant for cooling purpose & dust suppression.
				
Photographs of ACC system			Photographs of ACC system	
(xvii)	Water Quality Monitoring And Preservation	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 shall be met from other sources.	Complied	Unit has taken various step on water harvesting and conservation through plant optimization and taking up various support program in and around our unit under CSR initiative also. Total 16 nos. artificial rain water harvesting structures (Injection well) & 01 Nos. artificial pond constructed in our plant, Colony for recharge the ground water.



Photographs of Rain Water Harvesting Structure (Injection Well)

(xviii)	Water Quality Monitoring And Preservation	Regular monitoring of influent and effluent surface, sub-surface and ground water shall be ensured and treated waste water shall meet the norms prescribed by the State Pollution Control Board or described under the Environment (Protection) Act, 1986.	Complied	<ul style="list-style-type: none"> • No any effluent generated from cement plant. • Only Domestic sewage generated from colony & plant, which is treated in through STP and reuse in plantation. • Effluent generated from CPP & WHRS, after neutralization reuse in cement plant. • Detail treated waste water analysis report of STP and ETP (CPP & WHRS) for the period: Oct-22 to March-23 is enclosed as <u>Annexure-4</u>.
(xix)	Miscellaneous	All the bag filter, 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 authorized recyclers/re-processors only.	Complied	Raw mill dust, Coal dust, Clinker dust and Cement dust from Pollution control equipment like Bag house / ESP are being 100% recycled in cement manufacturing process. Hazardous waste i.e.: Used Oil (5.1), Waste Oil (5.2) are being sold to authorized recyclers and Batteries return back to the supplier & sold to registered recycler.
(xx)	Miscellaneous	The kiln shall be provided with a flexible fuel feeding system to enable use of hazardous wastes and other wastes including biomass, etc.	Complied	AFR feeding system has been installed for solid as well as for liquid AFR feeding. Photos of AFR feeding system are as below:

				
(xxi)	Miscellaneous	The proponent shall examine and prepare a plan for utilization of high calorific waste 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 waste and enter into an MOU for long-term utilization of such waste as per the Environment (protection) Rules, 1986 and with necessary approvals.	Complied	<ul style="list-style-type: none">Unit is having various hazardous waste/other waste permissions from CPCB/ RSPCB to use as Alternative fuel & raw materials (AFR) in cement plant.Hazardous & others waste is being co-processed as AFR.In FY 2022-23: total 413718.641 MT waste material co-processed as AFR including ARM.
(xxii)	Miscellaneous	Efforts shall be made to use the 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 Regulation and prior approval of the MPPCB.	Complied	Unit is using various type of hazardous waste/other waste in kiln, and ARM in cement manufacturing with due permission obtained from CPCB/RSPCB.
(xxiii)	Greenbelt	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 along road sides etc. by planting native and broad leaved species in consultation with local DFO, local community and as per the CPCB guidelines.	Complied	<ul style="list-style-type: none">Total area of Plant = 126.95 ha.Green belt in plant area = 42 ha.Total nos. of tree in plant up to March 2022 = 164541 nos.Total nos. of saplings planted in plant in FY 2022-23 = 10928 nos. in gap filling.Total area of colony = 22.47 ha.

				<ul style="list-style-type: none"> • Green belt in colony = 7.44 ha. • Total nos. of tree in colony up to March 2023= 28401 nos. • Total survived plantation up to March 2023 including plant & colony = 203870 nos.
(xxiv)	Energy Preservation Measures	The project proponent shall provide for solar light system for all common areas, street light, village and parking around project area and maintain the same regularly.	Complied	Unit has installed the 7.0 MW capacity solar power plant and also solar light system installed as per feasibility of area like street, parking area & mine office roof top area etc.
(xxv)	Energy Preservation Measures	The project proponent shall provide for LED light in their offices and residential areas.	Complied	Unit has replaced existing light in the offices and residential areas by LED light.
(xxvi)	Statutory compliance	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Cement plants shall be implemented.	Complied	<p>All recommendations made in the Charter on Corporate responsibility for Environment protection (CREP) for the Cement plant & Captive power plant.</p> <ul style="list-style-type: none"> • All material belt conveyors are covered with metal sheet. • All road in cement plant are paved & cleaning by vacuum sweeping machine for minimize the fugitive dust emission. • High efficient bag filters install at all material transfer point. • All raw materials stored in covered storage yard & intermediate, finish product stored in silos. • Bag house at Raw mill & Kiln, Coal Mill, Cement Mill etc. stack to maintain particular matter emission level of <30 mg/Nm³. • Fly ash unloading through pneumatic system. • Water spraying system installed at source of fugitive dust emission points. • ESP's installed at cooler & Boiler stack.
(xxvii)	Corporate Environmental Responsibility	At least 2.5% of the total cost of the project shall be earmarked towards the Enterprise Social Commitment based on Public Hearing issues, locals need and items-wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office. Implementation of such program shall be ensured by constituting a Committee comprising of	Complied	<ul style="list-style-type: none"> • Various activities every year are being taken to benefit the society and address the public hearing issue. • Details of CSR activities taken in FY 2022-23 are given below:

		the proponent, representatives of village Panchayat and District Administration. Action taken report in this regards shall be submitted to the Ministry’s Regional Office.			
Detail CSR Activities Carried Out in FY: 2022-23:					
SN	Name of the project	Item from the list of activities in Schedule VII to the Act	Local Area or other	District	Amount spent for the Project (inRs.)
1	Construction of community hall at Aakya village	Infrastructure Development	AAKYA VILLAGE	Chittorgarh	₹ 23,12,619.00
2	CC road construction at Karparam ji Khedi village		KARPAM JI KHEDI	Chittorgarh	₹ 14,26,219.00
3	Construction .of CC road Lalukheda-Mangrol (samshan)		Lalukheda	Chittorgarh	₹ 30,12,283.00
4	CC road construction at Mangrol Village		Mangrol	Chittorgarh	₹ 23,43,190.00
5	Mangrol Road light		Mangrol	Chittorgarh	₹ 14,16,000.00
6	Skill Training program for women & Saparsh Program	Livelihood Promotion	Mangrol & Other villages	Chittorgarh	₹ 28,36,464.00
7	Water Tanker Supply shahbad village	Drinking Water Arrangement	Shahbad	Chittorgarh	
8	CONST. OF SCHOOL BOUNDARY WALL AT MGR	Educational Charity	Mangrol	Chittorgarh	₹ 12,69,944.00
9	Boundary wall Tilakheda school		Tilakheda	Chittorgarh	₹ 13,18,735.00
10	Construction of Library at Arniya Joshi		Arniya Joshi	Chittorgarh	₹ 4,62,219.00
11	School ground filling at Arniya Joshi, construction of community center at Arniya	Sports	Arniya Joshi	Chittorgarh	₹ 7,82,619.00
12	Mangrol Playground development		Mangrol	Chittorgarh	₹ 10,97,497.00
13	Arniya toilet construction	Sanitation	Arniya Joshi	Chittorgarh	₹ 3,88,585.00
TOTAL					₹ 1,86,66,374.00
(xxviii)	Corporate Environmental Responsibility	In addition to the above provision of ESC, the proponent shall prepare a detailed CSR Plan for the next 5 years including annual physical and financial targets for the existing-cum-expansion project, which includes village-wise, sector-wise (Health, Education, Sanitation, Skill Development and infrastructure etc.) activities in consultation with the local communities and administration. The CSR Plan will include the amount of 2% retain annual profits of previous 3 years towards CSR activities for life of the project. A separate budget head shall be created and the annual capital	Complied	Kindly refer the above point.	

		and revenue expenditure on various activities of the CSR Plan shall also be uploaded on the company website and shall also be provided in the Annual Report of the company.		
(xxix)	Risk Mitigation And Disaster Management	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 3 months of issue of Environment Clearance letter.	Complied	Unit has the onsite emergency plan with respect to following objectives. <ul style="list-style-type: none"> • To overcome any emergency in its initial stage and to handle Disaster in most effective manner. • To eliminate any chance of loss to Human Life. • To minimize loss of Property in the Plant and surrounding areas. • To maintain essential supplies at the time of natural Calamities and/or Public disturbances. • Approved On-Site Emergency Plan has been submitted at concern offices.
xxx	Human Health Environment	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.	Complied	Unit display environment health & safety slogan / messages in the existing Plant premises to spread the awareness with respect to hazard and the associated health effects.
xxxi	Miscellaneous	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 structure to be removed after the completion of the project.	Complied	All necessary infrastructure and facilities such as fuel for cooking, mobile toilets, safe drinking water, medical health care, crèche etc. has provided during the construction period.
B.	GENERAL CONDITIONS:			
(i)	Statutory compliance	The Project authorities must strictly adhere to the stipulation made by the Rajasthan Pollution Control Board and the State Government.	Complied	Consent to Operate has been granted for Cement Plant L-1, L-2, L-3, Power Plant, WHRS & Residential township by Rajasthan State Pollution Board, Jaipur and complies with all conditions.

(ii)	Statutory compliance	No further expansion or modification in the plant shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change (MoEFCC).	Complied	Prior approval of the MoEF&CC will be obtained for expansion or modification in the Plant, if any.
(iii)	Air Quality Monitoring And Preservation	At least four ambient air quality monitoring stations should be established in the downward direction as well as where maximum ground level concentration of PM10, PM2.5, SO2 and NOx are anticipate 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.	Complied	Unit has installed 04 nos. of stations for monitoring of Ambient Air Quality parameters i.e.: PM ₁₀ , PM _{2.5} , SO ₂ & NO _x in consultation with the RSPCB and monitoring data are being regularly submitted to the Ministry and its regional office and the SPCB/CPCB. Please refer the above Annexure-1 and Annexure- 2 for detail Stack Emission and Ambient Air Quality monitoring results for the period: Oct-22 to March-23, respectively.
(iv)	Water Quality Monitoring And Preservation	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.	Complied	There is no waste water discharge from cement plant, hence 'Zero discharge' facility adopted and waste water generated from CPP & WHRS is being reused after treatment in dust suppression and machineries cooling purpose in the cement plant.
(v)	Noise Monitoring And Prevention	The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz. 75dBA (daytime) and 70 dBA (night time).	Complied	Silencer, acoustic hoods, enclosures etc. are provided at noise generating points and PPEs are provided to respective workmen. Detail Noise level monitoring report for the period: Oct-22 to March-23 is enclosed as <u>Annexure-5.</u>
(vi)	Human Health Environment	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Complied	Occupational health surveillance of the workers is being done periodically.
(vii)	Water Quality Monitoring And Preservation	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.	Complied	Unit has already been developed 16 nos. of injection well and 1 recharge pond in the cement plant & colony.
(viii)	Statutory compliance	The project proponent shall also comply with all the environment protection measures and safeguards recommended in the EIA/EMP report. Further, the	Complied	Kindly refer the point no. xxvii, details are mentioned as above.

		company must undertake socio-economic development activities in the surrounding villages like community development programmes, education programmes, drinking water supply and health care etc.		
(ix)	Statutory compliance	Requisite funds shall be earmarked towards capital cost and recurring cost/annum for environment pollution control measures to implement the conditions stipulated by the Ministry of Environment, 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 provide shall not be diverted for any other purpose.	Complied	Complied
(x)	Statutory compliance	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 suggestion/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the web site of the company by the proponent.	Complied	A copy of Environmental clearance letter has been sent to the SDM, Nimbahera tehsil, The Sarpanch, Gram panchayat, Mangrol, DIC, Chittorgarh, Chief Executive officer Zila parishad, Chittorgarh The District Magistrate, Chittorgarh on dated 19.09.2016 The clearance letter has uploaded on the website of the company i.e. https://www.jkcement.com/environmental-compliance
(xi)	Statutory compliance	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the MOEFCC at Lucknow. The respective zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; PM10, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	Complied	Periodical EC compliance report with monitored data are being uploaded on company website and same has been sent to MoEF&CC, CPCB & RSPCB in soft copy through email. The criteria pollutant levels namely; PM ₁₀ , SO ₂ , NO _x (ambient levels as well as stack emissions) is being displayed at main gate of the company in public domain.

(xii)	Statutory compliance	The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environment 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.	Complied	Last EC compliance report submitted vide our letter No.: MGR/PC/21/C13, dated 19.11.2022 through email on 22.11.2022 for the period: April-2022 to September- 2022.
(xiii)	Statutory compliance	The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 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.	Complied	The Environment Statement report of cement plant L-1,2,3, CPP 25MW, WHRS 10MW, 29.1 MW & Residential Colony of FY 2021-22 has submitted vide letter No.: MGR/PC/ESR/21/641 to 643, dated: 19.09.2022 to the RSPCB and Regional Office of the MoEF&CC and also uploaded on our company website, which can be assess by following link: https://www.jkcement.com/environmental-compliance
(xiv)	Statutory compliance	The Project Proponent shall inform the public that the project has been accorded environment 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, Forest and Climate Change (MoEFCC) at http://envfor.nic.in . This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspaper 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.	Complied	Unit published the notice that the project has been accorded environmental clearance by the MoEF&CC in two newspapers namely. <ul style="list-style-type: none"> • Dainik Bhaskar dated 17.09.2016 • Rajasthan Patrika dated 17.09.2016
(xv)	Miscellaneous	Project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.	Complied	Agreed.

Amended EC Letter No.: J-11011/267/2013-IA.II (I), dated 08.03.2019				
A	General Conditions			
(ii)	Miscellaneous	<p>It is mentioned that there will be no pollution load increment due to enhancement of WHRB capacity from 20 MW to 30 MW. The following measures will be implemented to increase the waste heat recovery power generation upto 10 MW:</p> <ul style="list-style-type: none"> • Gain of 2.5 MW and 2.9 MW power generation by enhancement of boiler inlet flue temperature (from 380 480 C) by recirculation of hot air in line-2 and line respectively, i.e., total gain will be 5.4 MW. • Installing a new boiler with efficient heat recovery, as there will be higher stream recovery with temperature of 440 degree with minimization of condensing temperature, with gain of 4.6 MW. 	Complied	Waste Heat Recovery Boiler (WHRB) is eco-friendly system and there is no increase pollution load by capacity enhancement of WHRB power generation.
(iii)	Miscellaneous	The certified EC compliance has been obtained from Regional Office (Lucknow) of MOEF&CC vide letter No.: IV/ENV/R/IND167/946/2017/732 dated 09.07.2018.	Complied	Noted
(iv)	Miscellaneous	The proponent has mentioned that there is no court case or violation under EIA Notification to the project or related activity.	Complied	Agreed
(v)	Miscellaneous	<p>The proposal was considered by the Expert Appraisal Committee (Industry-I) during its 34th meeting held on 6th to 7th August, 2018. After detailed deliberations, the committee recommended for the grant of amendment to the environmental clearance with the following conditions.</p> <ul style="list-style-type: none"> • The power generation from waste heat recovery boiler shall be enhanced to 20 MW to 36 MW. • The PP shall under take additional greenbelt development in 5% of the total area. • The PP shall construct 5 additional rainwater recharging pits. 	Complied	29.1 MW WHRS has been installed.

(vi)	Miscellaneous	The ministry considered the above recommendation of EAC and hereby decided to amend the Environmental Clearance vide letter F. No. J-11011/267/2013-IA.II (I) dated 08.09.2016 with the conditions as recommended by EAC in para 5 above.	Complied	Noted
(vii)	Miscellaneous	All other terms and conditions in the Environmental clearance vide letter F. No. J-11011/267/2013-IA.II (I) dated 08.09.2016 are shall remain the same.	Complied	Noted

In compliance to the MoEFCC Office Memorandum F. No. IA3-22/8/2021-1A.III [150512] dated 18.07.2022 regarding Sensitization of project proponents on implementation of ban on Single Use Plastic (SUP) – Unit has been conducted awareness program to their employee, stakeholders and to the society in nearby villages, photographs of the same is enclosed in as **Annexure-6**.

Yours Sincerely,
For J. K. Cement Works, Mangrol



(Authorized Signatory)

J.K.CEMENT WORKS ,MANGROL CHITTORGARH (RAJ.)									
PARTICULATE MATTER EMISSION MONITORING REPORT FROM POINT SOURCE (STACK EMISSION) FOR CEMENT PLANT L-I									
MONTH:	Oct-22								
Date	Name of the Stack / Duct attached with Unit	Cross Sectional Area of duct (in M2)	Stack Gases Temp. (in K)	Gaes Velocity (in M/Sec.)	Flow of gases (in Nm3/Sec.)	Dust Conc. (Mg/Nm3)	Mean Dust Conc.(in Mg/Nm3)	Emission (in Ts/Day)	Remarks
04.10.2022	LS CRUSHER-1 BAG FILTER	0.38	329	9.96	3.43	14.0	13.0	0.004	
11.10.2022		0.38	328	9.43	3.26	11.2		0.003	
18.10.2022		0.38	326	10.29	3.57	16.1		0.005	
25.10.2022		0.38	331	9.80	3.35	10.5		0.003	
04.10.2022	KILN NO.-1 BAG HOUSE	5.23	414	15.03	56.58	10.8	10.7	0.053	
11.10.2022		5.23	428	15.12	55.06	12.2		0.058	
18.10.2022		5.23	417	15.35	57.37	9.1		0.045	
25.10.2022		5.23	421	15.84	58.64	10.7		0.054	
04.10.2022	COOLER ESP-1	7.07	394	12.65	86.81	15.5	14.3	0.116	
11.10.2022		7.07	401	13.06	89.34	14.0		0.108	
18.10.2022		7.07	397	12.76	88.14	15.0		0.114	
25.10.2022		7.07	405	13.01	90.17	12.5		0.097	
04.10.2022	COAL MILL-1 BAG FILTER	0.45	356	14.04	6.15	19.3	16.1	0.010	
11.10.2022		0.45	349	13.71	5.99	12.1		0.006	
18.10.2022		0.45	358	13.53	5.93	18.6		0.010	
25.10.2022		0.45	361	13.74	6.08	14.3		0.008	
STOP	CEMENT MILL NO.-1 BAG FILTER	STOP							
STOP									
STOP									
STOP									
06.10.2022	CEMENT MILL NO.-2 BAG FILTER	0.50	356.00	15.22	7.51	11.1	10.5	0.010	
13.10.2022		0.50	353.00	15.53	7.61	8.9		0.007	
20.10.2022		0.50	352.00	14.98	7.32	11.4		0.006	
28.10.2022		0.50	355.00	14.95	7.23	10.5		0.008	

J.K.CEMENT WORKS ,MANGROL CHITTORGARH (RAJ.)									
PARTICULATE MATTER EMISSION MONITORING REPORT FROM POINT SOURCE (STACK EMISSION) FOR CEMENT PLANT L-I									
MONTH :	Nov-22								
Date	Name of Stack	Cross Sectional Area of duct (in M2)	Stack Gases Temp. (in K)	Gaes Velocity (in M / Sec.)	Flow of gases (in NM3/Sec.)	Dust Conc. (Mg/Nm3)	Mean Dust Conc.(in Mg/Nm3)	Emission (in Ts/Day)	Remarks
01.11.2022	LSCRUSHER - 1 BAG FILTER	0.38	334	10.35	3.53	9.6	10.5	0.003	
09.11.2022		0.38	333	10.76	3.68	13.3		0.004	
17.11.2022		0.38	323	10.36	3.66	8.7		0.003	
24.11.2022		0.38	321	10.50	3.73	10.2		0.003	
02.11.2022	KILN No.1 BAG HOUSE	5.23	403	15.39	59.52	10.3	10.3	0.053	
STOP		STOP	STOP	STOP	STOP	STOP		STOP	
STOP		STOP	STOP	STOP	STOP	STOP		STOP	
STOP		STOP	STOP	STOP	STOP	STOP		STOP	
02.11.2022	COOLER ESP -1	7.07	394	12.65	87.67	10.2	10.2	0.077	
STOP		STOP	STOP	STOP	STOP	STOP		STOP	
STOP		STOP	STOP	STOP	STOP	STOP		STOP	
STOP		STOP	STOP	STOP	STOP	STOP		STOP	
02.11.2022	COAL MILL - 1 BAG FILTER	0.45	348	13.88	6.10	12.6	12.6	0.007	
09.11.2022		0.45	355	13.82	6.14	8.9		0.005	
STOP		STOP	STOP	STOP	STOP	STOP		STOP	
STOP		STOP	STOP	STOP	STOP	STOP		STOP	
STOP	CEMENT MILL No. - 1 BF	STOP							
STOP									
STOP									
STOP									
02.11.2022	CEMENT MILL No. - 2 BF	0.50	357.00	15.22	7.51	9.2	9.3	0.010	
09.11.2022		0.50	364.00	15.53	7.61	7.4		0.007	
16.11.2022		0.50	354.00	14.98	7.32	9.8		0.006	
23.11.2022		0.50	351.00	14.95	7.23	10.6		0.008	

J.K.CEMENT WORKS ,MANGROL CHITTORGARH (RAJ.)

PARTICULATE MATTER EMISSION MONITORING REPORT FROM POINT SOURCE (STACK EMISSION)
FOR CEMENT PLANT L-I

MONTH :	Dec-22
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Date	Name of Stack	Cross Sectional Area of duct (in M2)	Stack Gases Temp. (in K)	Gaes Velocity (in M / Sec.)	Flow of gases (in NM3/Sec.)	Dust Conc. (Mg/Nm3)	Mean Dust Conc.(in Mg/Nm3)	Emission (in Ts/Day)	Remarks
05.12.2022	LSCRUSHER - 1 BAG FILTER	0.38	325	10.74	3.74	8.4	10.9	0.003	
12.12.2022		0.38	325	10.51	3.66	10.6		0.003	
20.12.2022		0.38	323	9.81	3.44	14.8		0.004	
26.12.2022		0.38	329	10.33	3.56	9.9		0.003	
05.12.2022	KILN No.1 BAG HOUSE	5.23	415	16.47	61.85	11.9	10.3	0.064	
12.12.2022		5.23	413	15.33	57.85	11.8		0.059	
20.12.2022		5.23	409	16.97	64.67	8.2		0.046	
26.12.2022		5.23	418	16.39	61.11	9.1		0.048	
05.12.2022	COOLER ESP -1	7.07	428	12.61	88.85	12.8	13.9	0.098	
12.12.2022		7.07	425	11.89	84.92	15.0		0.110	
20.12.2022		7.07	431	12.11	85.62	17.9		0.132	
26.12.2022		7.07	423	12.27	87.63	9.7		0.073	
05.12.2022	COAL MILL - 1 BAG FILTER	0.45	345	13.38	6.02	12.9	13.7	0.007	
12.12.2022		0.45	347	13.72	6.22	14.5		0.008	
20.12.2022		0.45	343	14.20	6.41	16.2		0.009	
26.12.2022		0.45	349	14.04	6.40	11.3		0.006	
STOP	CEMENT MILL No. - 1 BF	STOP							
STOP									
STOP									
STOP									
06.12.2022	CEMENT MILL No. - 2 BF	0.50	364.00	15.22	7.51	9.3	9.1	0.010	
12.12.2022		0.50	363.00	15.53	7.61	8.2		0.007	
20.12.2022		0.50	369.00	14.98	7.32	10.2		0.006	
26.12.2022		0.50	365.00	14.95	7.23	8.8		0.008	

J.K.CEMENT WORKS ,MANGROL
CHITTORGARH (RAJ.)

PARTICULATE MATTER EMISSION MONITORING REPORT FROM POINT SOURCE (STACK EMISSION)
FOR CEMENT PLANT L-I

MONTH : Jan-23

Date	Name of Stack	Cross Sectional Area of duct (in M2)	Stack Gases Temp. (in K)	Gaes Velocity (in M / Sec.)	Flow of gases (in NM3/Sec.)	Dust Conc. (Mg/Nm3)	Mean Dust Conc.(in Mg/Nm3)	Emission (in Ts/Day)	Remarks
03.01.2023	LSCRUSHER - 1 BAG FILTER	0.38	325	12.30	4.29	12.9	13.8	0.005	
10.01.2023		0.38	325	8.84	3.08	14.9		0.004	
16.01.2023		0.38	323	10.06	3.53	14.5		0.004	
24.01.2023		0.38	329	10.81	3.72	13.0		0.004	
03.01.2023	KILN No.1 BAG HOUSE	5.23	403	15.39	59.52	8.3	7.8	0.043	
11.01.2023		5.23	398	14.89	58.31	6.7		0.034	
17.01.2023		5.23	401	15.46	60.09	7.9		0.041	
25.01.2023		5.23	405	14.71	56.61	8.4		0.041	
04.01.2023	COOLER ESP -1	7.07	414	12.07	86.20	10.4	10.3	0.077	
12.01.2023		7.07	403	10.74	76.44	10.0		0.066	
18.01.2023		7.07	406	9.95	70.58	10.1		0.062	
28.01.2023		7.07	411	9.35	66.10	10.8		0.062	
03.01.2023	COAL MILL - 1 BAG FILTER	0.45	342	12.67	5.72	6.2	6.3	0.003	
11.01.2023		0.45	344	13.85	6.30	5.7		0.003	
17.01.2023		0.45	341	11.86	5.34	6.9		0.003	
25.01.2023		0.45	339	12.57	5.66	6.4		0.003	
STOPPED	CEMENT MILL No. - 1 BF	STOP							
06.01.2023	CEMENT MILL No. - 2 BF	0.50	363.00	15.22	7.51	16.4	12.5	0.010	
14.01.2023		0.50	365.00	15.53	7.61	11.3		0.007	
21.01.2023		0.50	367.00	14.98	7.32	12.0		0.006	
28.01.2023		0.50	368.00	14.95	7.23	10.4		0.008	

J.K.CEMENT WORKS ,MANGROL CHITTORGARH (RAJ.)									
PARTICULATE MATTER EMISSION MONITORING REPORT FROM POINT SOURCE (STACK EMISSION) FOR CEMENT PLANT L-I									
MONTH : Feb-23									
Date	Name of Stack	Cross Sectional Area of duct (in M2)	Stack Gases Temp. (in K)	Gaes Velocity (in M / Sec.)	Flow of gases (in NM3/Sec.)	Dust Conc. (Mg/NM3)	Mean Dust Conc.(in Mg/NM3)	Emission (in Ts/Day)	Remarks
02.02.2023	LSCRUSHER - 1 BAG FILTER	0.38	322	9.67	3.40	17.0	14.6	0.005	
09.02.2023		0.38	325	10.03	3.49	12.4		0.004	
16.02.2023		0.38	327	10.24	3.55	10.6		0.003	
23.02.2023		0.38	329	10.81	3.72	18.4		0.006	
03.02.2023	KILN No.1 BAG HOUSE	5.23	398	16.08	62.97	12.2	12.2	0.066	
10.02.2023		5.23	406	14.94	57.35	15.1		0.075	
17.02.2023		5.23	408	14.76	56.38	9.2		0.045	
24.02.2023		5.23	398	13.87	54.31	10.6		0.050	
01.02.2023	COOLER ESP -1	7.07	414	10.89	77.25	10.8	12.8	0.072	
08.02.2023		7.07	406	10.41	73.60	14.5		0.092	
14.02.2023		7.07	412	11.57	81.53	13.0		0.092	
23.02.2023		7.07	407	9.14	64.62	12.6		0.070	
03.02.2023	COAL MILL - 1 BAG FILTER	0.45	343	13.44	6.07	9.2	7.5	0.005	
10.02.2023		0.45	344	14.13	6.36	8.8		0.005	
17.02.2023		0.45	342	13.57	6.11	4.6		0.002	
24.02.2023		0.45	341	12.91	5.83	6.5		0.003	
STOPPED	CEMENT MILL No. - 1 BF	STOP							
04.02.2023	CEMENT MILL No. - 2 BF	0.50	367.00	13.70	6.87	14.8	12.8	0.009	
07.02.2023		0.50	361.00	14.47	7.24	22.5		0.014	
17.02.2023		0.50	362.00	11.93	5.99	16.1		0.008	
25.02.2023		0.50	366.00	12.68	6.36	12.9		0.007	

J.K.CEMENT WORKS ,MANGROL CHITTORGARH (RAJ.)									
PARTICULATE MATTER EMISSION MONITORING REPORT FROM POINT SOURCE (STACK EMISSION) FOR CEMENT PLANT L-I									
MONTH :	Mar-23								
Date	Name of Stack	Cross Sectional Area of duct (in M2)	Stack Gases Temp. (in K)	Gaes Velocity (in M / Sec.)	Flow of gases (in NM3/Sec.)	Dust Conc. (Mg/Nm3)	Mean Dust Conc.(in Mg/Nm3)	Emission (in Ts/Day)	Remarks
04.03.2023	LSCRUSHER - 1 BAG FILTER	0.38	323	10.06	3.53	11.3	12.9	0.003	
10.03.2023		0.38	328	9.50	3.28	19.3		0.005	
18.03.2023		0.38	327	9.01	3.12	8.4		0.002	
23.03.2023		0.38	324	7.46	2.61	12.6		0.003	
02.03.2023	KILN No.1 BAG HOUSE	5.23	408	15.49	59.17	8.4	9.6	0.043	
09.03.2023		5.23	411	14.60	55.36	9.2		0.044	
15.03.2023		5.23	397	13.46	52.84	10.3		0.047	
27.03.2023		5.23	393	13.90	55.12	10.6		0.050	
01.03.2023	COOLER ESP 1	7.07	411	9.09	63.00	10.2	13.2	0.056	
06.03.2023		7.07	408	9.97	69.32	11.8		0.071	
13.03.2023		7.07	414	11.67	81.15	15.0		0.105	
24.03.2023		7.07	405	8.11	56.21	15.6		0.076	
02.03.2023	COAL MILL - 1 BAG FILTER	0.45	335	11.97	5.30	8.8	8.5	0.004	
09.03.2023		0.45	333	11.66	5.16	9.3		0.004	
15.03.2023		0.45	340	12.58	5.55	6.3		0.003	
27.03.2023		0.45	338	13.96	6.14	9.6		0.005	
STOPPED	CEMENT MILL No. - 1 BF	STOP							
01.03.2023	CEMENT MILL No. - 2 BF	0.50	358.00	15.22	7.51	18.9	18.6	0.010	
11.03.2023		0.50	357.00	15.53	7.61	18.4		0.007	
14.03.2023		0.50	363.00	14.98	7.32	21.7		0.006	
25.03.2023		0.50	368.00	14.95	7.23	15.5		0.008	

J.K.CEMENT WORKS ,MANGROL CHITTORGARH (RAJ.)									
PARTICULATE MATTER EMISSION MONITORING REPORT FROM POINT SOURCE (STACK EMISSION) FOR CEMENT PLANT L-II									
MONTH : Oct-22									
Date	Name of Stack	Cross Sectional Area of duct (in M2)	Stack Gases Temp. (in K)	Gaes Velocity (in M / Sec.)	Flow of gases (in NM3/Sec.)	Dust Conc. (Mg/NM3)	Mean Dust Conc.(in Mg/NM3)	Emission (in Ts/Day)	Remarks
03.10.2022	LSCRUSHER - 2 BAG FILTER	1.23	325	11.79	14.26	8.2	9.7	0.010	
14.10.2022		1.23	323	11.43	13.69	10.5		0.012	
21.10.2022		1.23	327	12.24	14.61	10.7		0.014	
28.10.2022		1.23	326	11.59	13.97	9.3		0.011	
03.10.2022	KILN No.2 BAG HOUSE	14.18	422.00	15.28	211.01	8.4	9.0	0.153	
10.10.2022		14.18	419.00	15.49	214.61	11.0		0.204	
17.10.2022		14.18	424.00	15.16	207.99	8.6		0.155	
24.10.2022		14.18	428.00	15.50	216.16	7.9		0.148	
03.10.2022	COOLER ESP -2	8.80	393.00	15.05	130.69	6.6	8.3	0.075	
10.10.2022		8.80	391.00	15.11	130.77	12.2		0.138	
17.10.2022		8.80	399.00	15.42	132.58	7.0		0.080	
24.10.2022		8.80	397.00	15.28	130.52	7.3		0.082	
03.10.2022	COAL MILL - 2 BAG FILTER	2.00	354.00	13.95	27.35	13.3	11.6	0.031	
10.10.2022		2.00	349.00	14.28	28.00	13.1		0.032	
17.10.2022		2.00	351.00	14.46	28.44	9.0		0.022	
24.10.2022		2.00	356.00	14.84	29.00	10.8		0.027	
03.10.2022	CEMENT MILL No. -3 BF	6.60	352.00	12.75	82.22	12.8	13.6	0.091	
11.10.2022		6.60	348.00	12.99	84.32	15.4		0.112	
17.10.2022		6.60	354.00	13.00	83.56	12.4		0.090	
27.10.2022		6.60	358.00	13.43	86.89	13.9		0.104	
05.10.2022	PACKER BF-1 (L-2)	0.79	327.00	11.98	9.19	12.8	12.6	0.010	
12.10.2022		0.79	330.00	12.45	9.49	12.7		0.010	
19.10.2022		0.79	334.00	12.63	9.66	13.5		0.011	
26.10.2022		0.79	331.00	12.26	9.43	11.5		0.009	
05.10.2022	PACKER BF-2 (L-2)	0.79	324.00	11.82	9.10	12.1	12.1	0.010	
12.10.2022		0.79	335.00	11.75	8.98	10.4		0.008	
19.10.2022		0.79	331.00	12.16	9.27	12.2		0.010	
26.10.2022		0.79	342.00	12.67	9.75	13.7		0.012	
05.10.2022	PACKER BF-3	0.79	330.00	12.04	9.20	11.2	10.9	0.009	
12.10.2022		0.79	328.00	11.52	8.84	7.4		0.006	
19.10.2022		0.79	334.00	12.21	9.33	11.5		0.009	
26.10.2022		0.79	332.00	12.54	9.65	13.5		0.011	
05.10.2022	PACKER BF- 4	0.79	333.00	11.99	9.23	11.0	11.8	0.009	
12.10.2022		0.79	331.00	11.35	8.65	11.2		0.008	
19.10.2022		0.79	329.00	11.54	8.82	13.5		0.010	
26.10.2022		0.79	332.00	12.02	9.28	11.4		0.009	

J.K.CEMENT WORKS ,MANGROL CHITTORGARH (RAJ.)									
PARTICULATE MATTER EMISSION MONITORING REPORT FROM POINT SOURCE (STACK EMISSION) FOR CEMENT PLANT L-II									
MONTH :	Nov-22								
Date	Name of Stack	Cross Sectional Area of Duct (in M2)	Stack Gases Temp. (in K)	Gaes Velocity (in M / Sec.)	Flow of gases (in NM3/Sec.)	Dust Conc. (Mg/NM3)	Mean Dust Conc.(in Mg/NM3)	Emission (in Ts/Day)	Remarks
03.11.2022	LSCRUSHER - 2 BAG FILTER	1.23	325	11.79	14.36	11.6	10.5	STOP	
10.11.2022		1.23	323	11.43	13.87	10.4		0.012	
17.11.2022		1.23	327	12.24	14.81	10.6		0.014	
29.11.2022		1.23	326	11.59	14.11	9.2		0.011	
03.11.2022	KILN No.2 BAG HOUSE	14.18	426.00	15.30	215.51	7.1	7.7	0.132	
10.11.2022		14.18	417.00	14.50	202.22	6.3		0.110	
17.11.2022		14.18	429.00	14.93	209.60	9.7		0.176	
24.11.2022		14.18	423.00	14.38	201.21	7.7		0.134	
03.11.2022	COOLER ESP -2	8.80	390.00	14.74	127.99	10.7	9.4	0.118	
10.11.2022		8.80	394.00	15.12	130.86	8.1		0.092	
17.11.2022		8.80	392.00	15.18	130.95	8.8		0.100	
24.11.2022		8.80	398.00	15.45	134.60	10.1		0.117	
03.11.2022	COAL MILL - 2 BAG FILTER	2.00	356.00	13.99	27.43	9.1	10.1	STOP	
10.11.2022		2.00	363.00	14.56	28.55	8.2		0.020	
17.11.2022		2.00	350.00	13.82	27.18	11.6		0.027	
24.11.2022		2.00	357.00	13.55	26.74	11.4		0.026	
04.11.2022	CEMENT MILL No. -3 BF	6.60	354.00	13.00	84.66	10.7	11.0	0.078	
10.11.2022		6.60	348.00	13.34	86.59	12.3		0.092	
17.11.2022		6.60	357.00	12.95	84.90	9.9		0.073	
24.11.2022		6.60	351.00	13.25	86.58	11.0		0.082	
04.11.2022	PACKER BF-1 (L-2)	0.79	331.00	12.72	9.79	12.1	10.3	0.010	
11.11.2022		0.79	326.00	12.02	9.28	9.0		0.007	
18.11.2022		0.79	324.00	12.34	9.46	10.7		0.009	
25.11.2022		0.79	328.00	13.15	10.19	9.2		0.008	
04.11.2022	PACKER BF-2 (L-2)	0.79	331.00	13.01	10.04	10.9	11.9	0.009	
11.11.2022		0.79	325.00	13.04	10.03	9.8		0.008	
18.11.2022		0.79	329.00	12.17	9.43	14.1		0.011	
25.11.2022		0.79	333.00	12.81	9.89	12.7		0.011	
04.11.2022	PACKER BF-3	0.79	329.00	12.02	9.25	11.1	11.6	0.009	
11.11.2022		0.79	326.00	11.49	8.87	9.4		0.007	
18.11.2022		0.79	331.00	12.16	9.36	11.4		0.009	
25.11.2022		0.79	333.00	12.56	9.73	14.4		0.012	
04.11.2022	PACKER BF- 4	0.79	332.00	12.89	9.95	13.5	12.3	0.012	
11.11.2022		0.79	325.00	12.05	9.27	8.5		0.007	
18.11.2022		0.79	328.00	12.41	9.61	14.3		0.012	
25.11.2022		0.79	332.00	12.23	9.44	13.0		0.011	

J.K.CEMENT WORKS ,MANGROL

CHITTORGARH (RAJ.)

PARTICULATE MATTER EMISSION MONITORING REPORT FROM POINT SOURCE (STACK EMISSION) FOR CEMENT PLANT L-II

MONTH : Dec-22

Date	Name of Stack	Cross Sectional Area of Duct (in M2)	Stack Gases Temp. (in K)	Gaes Velocity (in M / Sec.)	Flow of gases (in NM3/Sec.)	Dust Conc. (Mg/NM3)	Mean Dust Conc.(in Mg/NM3)	Emission (in Ts/Day)	Remarks
06.12.2022	LSCRUSHER - 2 BAG FILTER	1.23	326	12.27	13.80	10.2	9.9	STOP	
13.12.2022		1.23	328	12.16	13.59	10.9		0.013	
26.12.2022		1.23	327	12.03	13.48	9.3		0.011	
31.12.2022		1.23	329	12.43	13.85	9.1		0.011	
07.12.2022	KILN No.2 BAG HOUSE	14.18	428.00	15.17	149.77	13.1	13.5	0.170	
14.12.2022		14.18	423.00	15.40	153.84	10.5		0.140	
21.12.2022		14.18	425.00	14.51	144.27	13.6		0.170	
28.12.2022		14.18	422.00	14.96	149.80	16.9		0.219	
07.12.2022	COOLER ESP -2	8.80	399.00	14.81	130.77	9.1	9.2	0.103	
14.12.2022		8.80	391.00	14.96	131.65	10.4		0.118	
21.12.2022		8.80	397.00	15.38	136.26	8.4		0.099	
28.12.2022		8.80	405.00	15.43	137.63	8.7		0.103	
07.12.2022	COAL MILL - 2 BAG FILTER	2.00	351.00	13.94	27.88	10.7	9.5	STOP	
14.12.2022		2.00	356.00	14.33	28.76	9.9		0.025	
21.12.2022		2.00	349.00	13.61	27.50	9.1		0.022	
28.12.2022		2.00	361.00	14.15	28.49	8.3		0.020	
07.12.2022	CEMENT MILL No. -3 BF	6.60	368.00	13.77	90.58	11.4	10.2	STOP	
14.12.2022		6.60	371.00	13.36	88.18	9.2		0.070	
21.12.2022		6.60	374.00	13.73	91.23	10.5		0.083	
28.12.2022		6.60	377.00	13.28	88.54	9.8		0.075	
06.12.2022	PACKER BF-1 (L-2)	0.79	330.00	12.65	10.03	11.7	10.1	0.010	
13.12.2022		0.79	332.00	12.89	10.12	8.7		0.008	
19.12.2022		0.79	333.00	11.93	9.40	10.7		0.009	
27.12.2022		0.79	331.00	11.90	9.31	9.2		0.007	
06.12.2022	PACKER BF-2 (L-2)	0.79	325.00	12.25	9.65	14.2	12.3	0.012	
13.12.2022		0.79	336.00	13.16	10.44	10.3		0.009	
19.12.2022		0.79	332.00	12.79	10.04	10.1		0.009	
27.12.2022		0.79	339.00	12.77	10.09	14.4		0.013	
06.12.2022	PACKER BF-3	0.79	338.00	12.13	9.59	10.6	10.7	0.009	
13.12.2022		0.79	329.00	11.59	9.13	8.5		0.007	
19.12.2022		0.79	334.00	12.06	9.56	15.1		0.012	
27.12.2022		0.79	341.00	12.65	9.93	8.7		0.007	
06.12.2022	PACKER BF- 4	0.79	330.00	12.95	10.27	9.1	10.2	0.008	
13.12.2022		0.79	325.00	13.46	10.60	11.5		0.011	
19.12.2022		0.79	329.00	13.77	10.81	8.4		0.008	
27.12.2022		0.79	327.00	13.13	10.38	11.8		0.011	

J.K.CEMENT WORKS ,MANGROL CHITTORGARH (RAJ.) <u>PARTICULATE MATTER EMISSION MONITORING REPORT FROM POINT SOURCE (STACK EMISSION) FOR CEMENT PLANT L-II</u> MONTH : Jan-23									
Date	Name of Stack	Cross Sectional Area of Duct (in M2)	Stack Gases Temp. (in K)	Gaes Velocity (in M / Sec.)	Flow of gases (in NM3/Sec.)	Dust Conc. (Mg/NM3)	Mean Dust Conc.(in Mg/NM3)	Emission (in Ts/Day)	Remarks
02.01.2023	LSCRUSHER - 2 BAG FILTER	1.23	324	11.29	12.77	16.1	12.6	0.018	
13.01.2023		1.23	327	11.98	13.43	10.3		0.012	
20.01.2023		1.23	328	12.36	13.81	9.4		0.011	
25.01.2023		1.23	323	11.59	13.15	14.5		0.016	
07.01.2023	KILN No.2 BAG HOUSE	14.18	404.00	15.41	161.18	8.1	9.6	0.113	
11.01.2023		14.18	414.00	15.34	156.57	7.4		0.100	
21.01.2023		14.18	401.00	14.69	154.80	11.5		0.154	
24.01.2023		14.18	406.00	14.18	147.59	11.2		0.143	
07.01.2023	COOLER ESP -2	8.80	388.00	6.16	54.76	21.8	16.3	0.103	
13.01.2023		8.80	389.00	8.27	73.27	18.7		0.118	
20.01.2023		8.80	398.00	7.48	66.05	11.9		0.068	
24.01.2023		8.80	381.00	6.90	60.72	12.9		0.068	
07.01.2023	COAL MILL - 2 BAG FILTER	2.00	344.00	12.61	25.22	5.3	6.5	0.012	
11.01.2023		2.00	339.00	13.70	27.68	7.4		0.018	
21.01.2023		2.00	341.00	13.55	27.28	5.0		0.012	
24.01.2023		2.00	338.00	13.12	26.42	8.1		0.018	
05.01.2023	CEMENT MILL No. -3 BF	6.60	358.00	11.81	78.47	6.1	5.6	STOP	
14.01.2023		6.60	360.00	10.87	72.47	6.7		0.042	
16.01.2023		6.60	365.00	11.45	75.82	2.8		0.018	
27.01.2023		6.60	369.00	12.65	83.49	6.8		0.049	
02.01.2023	PACKER BF-1 (L-2)	0.79	318.00	12.32	9.74	8.0	12.2	0.007	
16.01.2023		0.79	315.00	12.88	10.18	11.3		0.010	
25.01.2023		0.79	316.00	12.48	9.83	14.6		0.012	
30.01.2023		0.79	318.00	12.52	9.83	14.7		0.012	
05.01.2023	PACKER BF-2 (L-2)	0.79	320.00	12.70	10.07	12.4	11.5	0.011	
14.01.2023		0.79	321.00	12.38	9.78	9.5		0.008	
20.01.2023		0.79	318.00	12.42	9.78	14.6		0.012	
24.01.2023		0.79	318.00	12.56	9.86	9.5		0.008	
04.01.2023	PACKER BF-3	0.79	313.00	11.20	8.76	10.0	12.9	0.008	
14.01.2023		0.79	315.00	12.60	9.89	15.7		0.013	
19.01.2023		0.79	314.00	13.00	10.21	11.8		0.010	
25.01.2023		0.79	318.00	12.32	9.67	14.2		0.012	
03.01.2023	PACKER BF- 4	0.79	335.00	12.94	10.16	7.3	8.4	0.006	
19.01.2023		0.79	338.00	11.70	9.22	10.4		0.008	
27.01.2023		0.79	333.00	13.90	10.99	6.3		0.006	
31.01.2023		0.79	338.00	13.49	10.70	9.6		0.009	

J.K.CEMENT WORKS ,MANGROL CHITTORGARH (RAJ.) PARTICULATE MATTER EMISSION MONITORING REPORT FROM POINT SOURCE (STACK EMISSION) FOR CEMENT PLANT L-II MONTH : Feb-23									
Date	Name of Stack	Cross Sectional Area of duct (in M2)	Stack Gases Temp. (in K)	Gaes Velocity (in M / Sec.)	Flow of gases (in NM3/Sec.)	Dust Conc. (Mg/NM3)	Mean Dust Conc.(in Mg/NM3)	Emission (in Ts/Day)	Remarks
05.12.2019	LSCRUSHER - 2 BAG FILTER	1.23	327	12.09	13.55	11.5	13.6	0.013	
10.02.2023		1.23	329	11.70	13.04	14.2		0.016	
16.02.2023		1.23	325	11.74	13.24	12.1		0.014	
20.02.2023		1.23	327	11.61	13.01	16.6		0.019	
04.02.2023	KILN No.2 BAG HOUSE	14.18	398.00	15.10	160.32	5.3	9.3	0.073	
09.02.2023		14.18	404.00	15.31	160.14	8.5		0.118	
17.02.2023		14.18	408.00	15.59	161.47	11.9		0.166	
21.02.2023		14.18	403.00	14.88	156.02	11.3		0.152	
03.02.2023	COOLER ESP -2	8.80	381.00	6.87	60.66	14.0	12.9	0.073	
07.02.2023		8.80	389.00	5.75	50.60	12.3		0.054	
13.02.2023		8.80	394.00	6.82	60.22	12.2		0.063	
24.02.2023		8.80	377.00	8.10	71.28	13.1		0.081	
04.02.2023	COAL MILL - 2 BAG FILTER	2.00	344.00	12.13	24.42	3.3	5.3	0.007	
09.02.2023		2.00	343.00	13.49	26.89	7.0		0.016	
17.02.2023		2.00	339.00	12.92	25.93	5.7		0.013	
21.02.2023		2.00	341.00	12.11	24.22	5.2		0.011	
06.02.2023	CEMENT MILL No. -3 BF	6.60	361.00	13.18	87.28	4.9	8.4	0.037	
17.02.2023		6.60	359.00	13.75	90.75	11.2		0.088	
20.02.2023		6.60	363.00	12.92	85.27	10.0		0.074	
27.02.2023		6.60	367.00	12.73	84.30	7.5		0.055	
03.02.2023	PACKER BF-1 (L-2)	0.79	326.00	12.91	10.17	17.9	13.8	0.016	
10.02.2023		0.79	323.00	12.61	9.97	10.7		0.009	
15.02.2023		0.79	329.00	12.83	10.17	15.0		0.013	
23.02.2023		0.79	325.00	12.40	9.77	11.7		0.010	
08.02.2023	PACKER BF-2 (L-2)	0.79	318.00	12.37	9.74	15.5	14.7	0.013	
16.02.2023		0.79	321.00	12.77	10.09	14.6		0.013	
21.02.2023		0.79	323.00	12.61	10.00	13.8		0.012	
27.02.2023		0.79	318.00	12.80	10.08	14.8		0.013	
08.02.2023	PACKER BF-3	0.79	323.00	12.51	9.85	9.3	11.9	0.008	
16.02.2023		0.79	318.00	12.61	9.90	12.3		0.011	
21.02.2023		0.79	318.00	12.52	9.83	13.0		0.011	
27.02.2023		0.79	321.00	12.43	9.79	13.1		0.011	
09.02.2023	PACKER BF- 4	0.79	318.00	12.02	9.47	14.9	13.7	0.012	
16.02.2023		0.79	323.00	12.37	9.71	14.4		0.012	
23.02.2023		0.79	324.00	12.58	9.88	12.4		0.011	
28.02.2023		0.79	324.00	11.98	9.40	13.1		0.011	

J.K.CEMENT WORKS ,MANGROL CHITTORGARH (RAJ.)									
PARTICULATE MATTER EMISSION MONITORING REPORT FROM POINT SOURCE (STACK EMISSION) FOR CEMENT PLANT L-II									
MONTH : Mar-23									
Date	Name of Stack	Cross Sectional Area of Duct (in M2)	Stack Gases Temp. (in K)	Gaes Velocity (in M / Sec.)	Flow of gases (in NM3/Sec.)	Dust Conc. (Mg/NM3)	Mean Dust Conc.(in Mg/NM3)	Emission (in Ts/Day)	Remarks
01.03.2023	LSCRUSHER - 2 BAG FILTER	1.23	341	12.08	12.98	18.1	18.6	0.020	
11.03.2023		1.23	331	11.01	12.19	18.6		0.020	
14.03.2023		1.23	333	11.39	12.54	18.8		0.020	
25.03.2023		1.23	334	11.52	12.64	18.9		0.021	
01.03.2023	KILN No.2 BAG HOUSE	14.18	401.00	15.15	159.65	6.2	7.5	0.086	
06.03.2023		14.18	404.00	14.20	148.52	8.4		0.108	
17.03.2023		14.18	406.00	13.03	135.62	7.7		0.090	
23.03.2023		14.18	412.00	16.12	165.33	7.7		0.110	
02.03.2023	COOLER ESP -2	8.80	385.00	6.94	60.06	12.5	14.4	0.065	
09.03.2023		8.80	382.00	6.23	53.74	14.6		0.068	
16.03.2023		8.80	383.00	5.19	44.62	13.9		0.054	
25.03.2023		8.80	385.00	5.42	46.60	16.6		0.067	
01.03.2023	COAL MILL - 2 BAG FILTER	2.00	338.00	11.64	22.82	7.4	5.4	0.015	
06.03.2023		2.00	341.00	11.21	22.05	5.7		0.011	
17.03.2023		2.00	339.00	12.72	24.94	4.4		0.009	
23.03.2023		2.00	337.00	11.72	22.90	4.1		0.008	
11.03.2023	CEMENT MILL No. -3 BF	6.60	361.00	11.99	77.57	16.5	12.0	STOP	
18.03.2023		6.60	363.00	11.04	71.19	9.2		0.057	
25.03.2023		6.60	357.00	11.45	73.59	9.0		0.057	
30.03.2023		6.60	361.00	12.74	81.62	13.2		0.093	
10.03.2023	PACKER BF-1 (L-2)	0.79	322.00	12.88	9.91	10.6	12.3	0.009	
14.03.2023		0.79	317.00	12.20	9.36	11.0		0.009	
23.03.2023		0.79	318.00	11.34	8.70	12.6		0.009	
28.03.2023		0.79	317.00	11.33	8.72	14.8		0.011	
06.03.2023	PACKER BF-2 (L-2)	0.79	321.00	11.56	8.92	8.7	11.4	0.007	
15.03.2023		0.79	316.00	11.73	9.03	13.5		0.011	
20.03.2023		0.79	317.00	12.10	9.28	11.3		0.009	
27.03.2023		0.79	318.00	11.45	8.78	12.1		0.009	
06.03.2023	PACKER BF-3	0.79	315.00	10.75	8.22	12.4	15.8	0.009	
15.03.2023		0.79	316.00	11.09	8.51	16.4		0.012	
20.03.2023		0.79	314.00	12.24	9.42	17.2		0.014	
27.03.2023		0.79	313.00	13.34	10.30	17.3		0.015	
06.03.2023	PACKER BF- 4	0.79	338.00	12.70	9.77	12.0	14.3	0.010	
13.03.2023		0.79	340.00	11.58	8.94	15.4		0.012	
25.03.2023		0.79	339.00	12.20	9.39	16.6		0.013	
29.03.2023		0.79	337.00	13.75	10.55	13.2		0.012	

J.K.CEMENT WORKS ,MANGROL
CHITTORGARH (RAJ.)

PARTICULATE MATTER EMISSION MONITORING REPORT FROM POINT SOURCE (STACK EMISSION) FOR CEMENT PLANT L-III

MONTH : Oct-22

Date	Name of Stack	Cross Sectional Area of duct (in M2)	Stack Gases Temp. (in K)	Gaes Velocity (in M / Sec.)	Flow of gases (in NM3/Sec.)	Dust Conc. (Mg/NM3)	Mean Dust Conc.(in Mg/NM3)	Emission (in Ts/Day)	Remarks
06.10.2022	KILN-3 BAG HOUSE	12.56	424.00	14.66	129.41	10.4	10.2	0.116	
14.10.2022		12.56	430.00	14.59	127.00	9.0		0.099	
20.10.2022		12.56	427.00	15.79	138.41	11.2		0.134	
27.10.2022		12.56	436.00	15.80	135.64	10.2		0.120	
06.10.2022	COOLER ESP -2	9.61	399.00	12.73	120.71	11.1	11.8	0.116	
14.10.2022		9.61	402.00	12.22	113.99	9.7		0.096	
20.10.2022		9.61	396.00	12.56	118.32	14.2		0.145	
27.10.2022		9.61	403.00	12.55	118.62	12.0		0.123	
06.10.2022	COAL MILL-3	3.94	338.00	9.44	36.46	8.5	11.2	0.027	
14.10.2022		3.94	336.00	9.61	36.75	10.5		0.033	
20.10.2022		3.94	353.00	9.92	38.06	13.2		0.043	
27.10.2022		3.94	352.00	10.37	40.18	12.5		0.043	
06.10.2022	CEMENT MILL-4	6.15	377.00	9.83	59.46	10.3	10.9	0.053	
14.10.2022		6.15	382.00	9.45	56.60	11.5		0.056	
20.10.2022		6.15	375.00	9.59	57.62	12.8		0.064	
27.10.2022		6.15	389.00	10.49	63.45	9.0		0.049	

J.K.CEMENT WORKS ,MANGROL
CHITTORGARH (RAJ.)

PARTICULATE MATTER EMISSION MONITORING REPORT FROM POINT SOURCE (STACK EMISSION) FOR CEMENT PLANT L-III

MONTH : Nov-22

Date	Name of Stack	Cross Sectional Area of duct (in M2)	Stack Gases Temp. (in K)	Gaes Velocity (in M / Sec.)	Flow of gases (in NM3/Sec.)	Dust Conc. (Mg/NM3)	Mean Dust Conc.(in Mg/NM3)	Emission (in Ts/Day)	Remarks
05.11.2022	KILN-3 BAG HOUSE	12.56	424.00	14.94	131.88	11.1	10.0	0.126	
12.11.2022		12.56	430.00	14.65	127.52	9.1		0.100	
19.11.2022		12.56	427.00	15.79	138.41	11.7		0.140	
26.11.2022		12.56	421.00	15.53	138.07	7.9		0.094	
05.11.2022	COOLER ESP -2	9.61	421.00	13.08	124.03	14.2	11.7	0.152	
12.11.2022		9.61	429.00	13.26	126.16	11.9		0.130	
19.11.2022		9.61	418.00	12.91	122.02	9.8		0.103	
26.11.2022		9.61	433.00	13.01	122.56	10.9		0.115	
05.11.2022	COAL MILL-3	3.94	344.00	9.31	36.08	13.6	11.3	0.042	
12.11.2022		3.94	351.00	9.69	37.80	10.8		0.035	
20.11.2022		3.94	346.00	9.82	38.05	11.3		0.037	
26.11.2022		3.94	353.00	10.25	39.85	9.4		0.032	
05.11.2022	CEMENT MILL-4	6.15	384.00	10.00	60.89	12.1	11.5	0.064	
12.11.2022		6.15	378.00	9.48	57.34	11.2		0.055	
19.11.2022		6.15	375.00	9.73	59.05	11.9		0.061	
26.11.2022		6.15	381.00	10.31	62.16	10.8		0.058	

J.K.CEMENT WORKS ,MANGROL
CHITTORGARH (RAJ.)

PARTICULATE MATTER EMISSION MONITORING REPORT FROM POINT SOURCE (STACK EMISSION) FOR CEMENT PLANT L-III

MONTH : Dec-22

Date	Name of Stack	Cross Sectional Area of duct (in M2)	Stack Gases Temp. (in K)	Gaes Velocity (in M / Sec.)	Flow of gases (in NM3/Sec.)	Dust Conc. (Mg/NM3)	Mean Dust Conc.(in Mg/NM3)	Emission (in Ts/Day)	Remarks
09.12.2022	KILN-3 BAG HOUSE	12.56	434.00	15.22	131.26	9.9	9.2	0.112	
16.12.2022		12.56	421.00	14.33	127.40	11.5		0.127	
23.12.2022		12.56	428.00	15.71	137.38	8.0		0.095	
29.12.2022		12.56	426.00	15.88	139.52	7.4		0.089	
09.12.2022	COOLER ESP -2	9.61	419.00	13.41	129.74	10.6	10.1	0.119	
16.12.2022		9.61	428.00	13.31	127.91	9.4		0.104	
23.12.2022		9.61	421.00	13.32	127.15	11.4		0.125	
29.12.2022		9.61	434.00	13.34	129.50	8.8		0.098	
09.12.2022	COAL MILL-3	3.94	346.00	9.75	38.54	11.2	10.9	0.037	
16.12.2022		3.94	354.00	9.52	37.51	12.7		0.041	
23.12.2022		3.94	346.00	10.15	39.72	9.3		0.032	
29.12.2022		3.94	351.00	9.96	39.64	10.3		0.035	
09.12.2022	CEMENT MILL-4	6.15	379.00	9.85	60.99	10.9	10.4	0.057	
16.12.2022		6.15	385.00	10.43	64.14	11.6		0.064	
23.12.2022		6.15	376.00	9.95	60.58	9.0		0.047	
29.12.2022		6.15	381.00	9.66	59.81	9.9		0.051	

J.K.CEMENT WORKS ,MANGROL
CHITTORGARH (RAJ.)

PARTICULATE MATTER EMISSION MONITORING REPORT FROM POINT SOURCE (STACK EMISSION) FOR CEMENT PLANT L-III

MONTH : Jan-23

Date	Name of Stack	Cross Sectional Area of duct (in M2)	Stack Gases Temp. (in K)	Gaes Velocity (in M / Sec.)	Flow of gases (in NM3/Sec.)	Dust Conc. (Mg/NM3)	Mean Dust Conc.(in Mg/NM3)	Emission (in Ts/Day)	Remarks
03.01.2023	KILN-3 BAG HOUSE	12.56	406.00	14.07	129.71	18.0	18.1	0.202	
11.01.2023		12.56	398.00	14.58	137.11	18.0		0.213	
20.01.2023		12.56	403.00	13.96	129.65	19.3		0.216	
27.01.2023		12.56	394.00	15.07	143.16	16.9		0.209	
04.01.2023	COOLER ESP -3	9.61	371.00	5.68	54.77	15.4	15.3	0.073	
14.01.2023		9.61	378.00	6.73	64.68	17.7		0.099	
18.01.2023		9.61	394.00	6.65	64.12	14.7		0.081	
24.01.2023		9.61	376.00	6.15	59.10	13.2		0.067	
03.01.2023	COAL MILL-3	3.94	344.00	10.99	43.45	17.2	14.2	0.065	
11.01.2023		3.94	347.00	10.80	42.55	13.6		0.050	
20.01.2023		3.94	338.00	9.44	37.19	15.1		0.049	
27.01.2023		3.94	341.00	8.18	32.23	11.0		0.031	
07.01.2023	CEMENT MILL-4	6.15	372.00	6.74	41.59	6.9	5.5	0.025	
12.01.2023		6.15	366.00	7.66	47.11	6.0		0.024	
24.01.2023		6.15	375.00	7.47	45.94	4.8		0.019	
28.01.2023		6.15	374.00	5.94	36.53	4.1		0.013	

J.K.CEMENT WORKS ,MANGROL CHITTORGARH (RAJ.)									
PARTICULATE MATTER EMISSION MONITORING REPORT FROM POINT SOURCE (STACK EMISSION) FOR CEMENT PLANT L-III									
MONTH : Feb-23									
Date	Name of Stack	Cross Sectional Area of duct (in M2)	Stack Gases Temp. (in K)	Gaes Velocity (in M / Sec.)	Flow of gases (in NM3/Sec.)	Dust Conc. (Mg/NM3)	Mean Dust Conc.(in Mg/NM3)	Emission (in Ts/Day)	Remarks
06.02.2023	KILN-3 BAG HOUSE	12.56	409.00	14.99	137.18	25.7	18.6	0.305	
16.02.2023		12.56	397.00	14.56	137.27	20.9		0.248	
24.02.2023		12.56	392.00	15.03	143.51	14.0		0.174	
28.02.2023		12.56	393.00	13.84	131.81	13.6		0.155	
04.02.2023	COOLER ESP -3	9.61	406.00	7.09	68.13	17.5	17.4	0.103	
08.02.2023		9.61	414.00	5.73	54.70	19.2		0.091	
13.02.2023		9.61	381.00	7.77	74.42	18.9		0.122	
21.02.2023		9.61	388.00	7.65	73.27	14.0		0.089	
06.02.2023	COAL MILL-3	3.94	338.00	8.42	33.17	16.4	14.5	0.047	
16.02.2023		3.94	341.00	10.33	40.56	17.5		0.061	
24.02.2023		3.94	334.00	11.46	44.85	10.4		0.040	
28.02.2023		3.94	333.00	9.31	36.68	13.8		0.044	
03.02.2023	CEMENT MILL-4	6.15	375.00	7.18	44.46	6.6	6.3	0.025	
08.02.2023		6.15	378.00	7.79	47.91	4.9		0.020	
18.02.2023		6.15	379.00	6.64	40.70	5.9		0.021	
22.02.2023		6.15	371.00	6.90	42.29	7.7		0.028	

J.K.CEMENT WORKS ,MANGROL
CHITTORGARH (RAJ.)

PARTICULATE MATTER EMISSION MONITORING REPORT FROM POINT SOURCE (STACK EMISSION) FOR CEMENT PLANT L-III

MONTH : Mar-23

Date	Name of Stack	Cross Sectional Area of duct (in M2)	Stack Gases Temp. (in K)	Gaes Velocity (in M / Sec.)	Flow of gases (in NM3/Sec.)	Dust Conc. (Mg/NM3)	Mean Dust Conc.(in Mg/NM3)	Emission (in Ts/Day)	Remarks
02.03.2023	KILN-3 BAG HOUSE	12.56	391.00	13.59	130.09	12.4	15.3	0.139	
09.03.2023		12.56	400.00	12.19	114.06	15.2		0.150	
17.03.2023		12.56	403.00	13.04	121.11	14.5		0.152	
25.03.2023		12.56	405.00	14.05	129.85	19.1		0.214	
01.03.2023	COOLER ESP -3	9.61	374.00	6.01	56.43	15.7	14.5	0.077	
10.03.2023		9.61	376.00	6.50	61.23	13.4		0.071	
18.03.2023		9.61	375.00	6.81	63.73	12.0		0.066	
27.03.2023		9.61	374.00	5.89	55.30	17.0		0.081	
02.03.2023	COAL MILL-3	3.94	342.00	9.07	35.03	13.5	13.8	0.041	
09.03.2023		3.94	343.00	8.25	31.76	7.8		0.021	
17.03.2023		3.94	344.00	7.69	29.51	19.0		0.048	
25.03.2023		3.94	337.00	10.52	40.23	14.7		0.051	
01.03.2023	CEMENT MILL-4	6.15	371.00	8.66	52.04	4.2	4.9	0.019	
11.03.2023		6.15	378.00	12.13	73.13	4.9		0.031	
16.03.2023		6.15	377.00	13.73	82.23	5.1		0.036	
25.03.2023		6.15	376.00	14.14	84.97	5.4		0.040	

Vimta Labs Limited

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Driven by Quality. Inspired by Science.

ISSUED TO:**M/S. J.K. CEMENT LIMITED****Unit: - J.K. CEMENT WORKS MANGROL****C/o. KAILASH NAGAR, NIMBAHERA,****DIST: CHITTORGARH, RAJASTHAN-312617,
INDIA.**

Report Number : VLL/VLS/22/15646/015

Issue Date : 2023/01/17

P.O. Number : 4600086158

P.O. Date : 15/10/2022

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Sample Registration Date : 2023/01/03

Sampling Date : 2022/12/23

Analysis Starting Date : 2022/01/03

Analysis Completion Date : 2023/01/17

Sample Collected by Vimta Labs Ltd.

TEST REPORT**Plant Name & Address**J.K. CEMENT LIMITED
Unit: - J.K. CEMENT WORKS MANGROL
C/o. KAILASH NAGAR, NIMBAHERA**Sampling Location**

Line-2 Cooler Stack

Test protocolIS:11255 Part-1,2003, IS: Part-3, 2008, USEPA
Method No. 3A, 6C & 10B**Stack Height**

48.9m

Height of Sampling Point

42.1 m

Stack Diameter at Test Location

3.4 m

S.no	Test Id	Time (Hrs)	Temp. (°C)	Velocity (m/s)	Flow Rate (Nm³/S)	Particulate Matter (mg/Nm³)
1	1 st	09:00	105	8.6	57.14	2.1
2	2 nd	10:00	108	8.9	58.64	1.95
3	3 rd	11:00	115	8.7	56.26	2.2

Dr. SubbaReddy Mallampati
Deputy Manager-Environment

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M/S. J.K. CEMENT LIMITED
Unit: - J.K. CEMENT WORKS MANGROL
C/o. KAILASH NAGAR, NIMBAHERA,
DIST: CHITTORGARH, RAJASTHAN-312617,
INDIA.

Report Number : VLL/VLS/22/15646/016
Issue Date : 2023/01/17
P.O. Number : 4600086158
P.O. Date : 15/10/2022

Page 1 of 1

Sample Registration Date : 2023/01/03	Sampling Date : 2022/12/20
Analysis Starting Date : 2022/01/03	Analysis Completion Date : 2022/01/17
Sample Collected by Vimta Labs Ltd.	

TEST REPORT

Plant Name & Address : J.K. CEMENT LIMITED
Unit: - J.K. CEMENT WORKS MANGROL
C/o. KAILASH NAGAR, NIMBAHERA

Sampling Location : Line-3 Cooler Stack

Test protocol : IS:11255 Part-1,2003, IS: Part-3, 2008, USEPA
Method No. 3A, 6C & 10B

Stack Height : 52.1m
Height of Sampling Point : 45.5m
Stack Diameter at Test Location : 3.5m

S.no	Test Id	Time (Hrs)	Temp. (°C)	Velocity (m/s)	Flow Rate (Nm³/S)	Particulate Matter (mg/Nm³)
1	1st	09:30	124	8.9	14.71	7.1
2	2nd	10:30	125	8.9	14.75	6.9
3	3rd	11:30	124	8.9	14.84	6.2


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ISSUED TO:

M/S. J.K. CEMENT LIMITED
Unit: - J.K. CEMENT WORKS MANGROL
C/o. KAILASH NAGAR, NIMBAHERA,
DIST: CHITTORGARH, RAJASTHAN-312617,
INDIA.

Report Number : VLL/VLS/22/15646/017
Issue Date : 2023/01/17
P.O. Number : 4600086158
P.O. Date : 15/10/2022

Page 1 of 1

Sample Registration Date : 2023/01/03	Sampling Date : 2022/12/23
Analysis Starting Date : 2022/01/03	Analysis Completion Date : 2023/01/17
Sample Collected by Vimta Labs Ltd.	

TEST REPORT

Plant Name & Address	J.K. CEMENT LIMITED Unit: - J.K. CEMENT WORKS MANGROL C/o. KAILASH NAGAR, NIMBAHERA
Sampling Location	Coal mill -02 Stack
Test protocol	IS:11255 Part-1,2003, IS: Part-3, 2008, USEPA Method No. 3A, 6C & 10B
Stack Height	51.2 m
Height of Sampling Point	38.7 m
Stack Diameter at Test Location	1.6 m

S.no	Test Id	Time (Hrs)	Temp. (°C)	Velocity (m/s)	Flow Rate (Nm³/S)	Particulate Matter (mg/Nm³)
1	1st	12:00	67	11.9	45.99	0.7
2	2nd	14:00	67	11.9	45.99	0.8
3	3rd	15:00	67	11.8	45.99	4.6


Dr. Subba Reddy Mallampati
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ISSUED TO:

M/S. J.K. CEMENT LIMITED
Unit: - J.K. CEMENT WORKS MANGROL
C/o. KAILASH NAGAR, NIMBAHERA,
DIST: CHITTORGARH, RAJASTHAN-312617,
INDIA.

Report Number : VLL/VLS/22/15646/018
Issue Date : 2023/01/17
P.O. Number : 4600086158
P.O. Date : 15/10/2022

Page 1 of 1

Sample Registration Date : 2023/01/03	Sampling Date : 2022/12/21
Analysis Starting Date : 2022/01/03	Analysis Completion Date : 2023/01/17
Sample Collected by Vimta Labs Ltd.	

TEST REPORT

Plant Name & Address	J.K. CEMENT LIMITED Unit: - J.K. CEMENT WORKS MANGROL C/o. KAILASH NAGAR, NIMBAHERA
Sampling Location	Coal mill -3 Stack
Test protocol	IS:11255 Part-1,2003, IS: Part-3, 2008, USEPA Method No. 3A, 6C & 10B
Stack Height	62.2 m
Height of Sampling Point	43.6 m
Stack Diameter at Test Location	2.24 m

S.no	Test Id	Time (Hrs)	Temp. (°C)	Velocity (m/s)	Flow Rate (Nm³/S)	Particulate Matter (mg/Nm³)
1	1st	12:00	69	27.5	4.44	7.1
2	2nd	14:00	69	27.5	4.44	6.9
3	3rd	15:00	69	27.5	4.60	6.6


Dr. Subba Reddy Mallampati
Deputy Manager-Environment

ISSUED TO:

M/S. J.K. CEMENT LIMITED
Unit: - J.K. CEMENT WORKS MANGROL
C/o. KAILASH NAGAR, NIMBAHERA,
DIST: CHITTORGARH, RAJASTHAN-312617,
INDIA.

Report Number : VLL/VLS/22/15646/019
Issue Date : 2023/01/17
P.O. Number : 4600086158
P.O. Date : 15/10/2022

Page 1 of 1

Sample Registration Date : 2023/01/03	Sampling Date : 2022/12/24
Analysis Starting Date : 2022/01/03	Analysis Completion Date : 2023/01/17
Sample Collected by Vimta Labs Ltd.	

TEST REPORT

Plant Name & Address	J.K. CEMENT LIMITED Unit: - J.K. CEMENT WORKS MANGROL C/o. KAILASH NAGAR, NIMBAHERA
Sampling Location	Line-1 Cooler Stack
Test protocol	IS:11255 Part-1,2003, IS: Part-3, 2008, USEPA Method No. 3A, 6C & 10B
Stack Height	40 m
Height of Sampling Point	33 m
Stack Diameter at Test Location	3 m

S.no	Test Id	Time (Hrs)	Temp. (°C)	Velocity (m/s)	Flow Rate (Nm³/s)	Particulate Matter (mg/Nm³)
1	1st	12:00	95	21.2	116.00	21.5
2	2nd	14:00	95	21.3	116.54	20.5
3	3rd	15:00	95	21.8	119.25	19.5


Dr. SubbaReddy Mallampati
Deputy Manager-Environment

ISSUED TO:

M/S. J.K. CEMENT LIMITED
Unit: - J.K. CEMENT WORKS MANGROL
C/o. KAILASH NAGAR, NIMBAHERA,
DIST: CHITTORGARH, RAJASTHAN-312617,
INDIA.

Report Number : VLL/VLS/22/15646/020
Issue Date : 2023/01/17
P.O. Number : 4600086158
P.O. Date : 15/10/2022

Page 1 of 1

Sample Registration Date : 2023/01/03 Sampling Date : 2022/12/24
Analysis Starting Date : 2022/01/03 Analysis Completion Date : 2023/01/17
Sample Collected by Vimta Labs Ltd.

TEST REPORT

Plant Name & Address : J.K. CEMENT LIMITED
Unit: - J.K. CEMENT WORKS MANGROL
C/o. KAILASH NAGAR, NIMBAHERA
Sampling Location : Coal mill -1 Stack
Test protocol : IS:11255 Part-1,2003, IS: Part-3, 2008, USEPA
Method No. 3A, 6C & 10B
Stack Height : 30 m
Height of Sampling Point : 21.5 m
Stack Diameter at Test Location : 0.8 m

S.no	Test Id	Time (Hrs)	Temp. (°C)	Velocity (m/s)	Flow Rate (Nm³/S)	Particulate Matter (mg/Nm³)
1	1st	16:00	70	7.1	2.65	5.1
2	2nd	17:00	70	7.5	2.74	5.1
3	3rd	18:00	70	7.3	2.74	4.8


Dr. Subba Reddy Mallampati
Deputy Manager-Environment

ISSUED TO:

M/S. J.K. CEMENT LIMITED
Unit: - J.K. CEMENT WORKS MANGROL
C/o. KAILASH NAGAR, NIMBAHERA,
DIST: CHITTORGARH, RAJASTHAN-312617,
INDIA.

Report Number : VLL/VLS/22/15646/021
Issue Date : 2023/01/17
P.O. Number : 4600086158
P.O. Date : 15/10/2022

Page 1 of 1

Sample Registration Date	: 2023/01/03	Sampling Date	: 2022/12/29
Analysis Starting Date	: 2022/01/03	Analysis Completion Date	: 2023/01/17
Sample Collected by Vimta Labs Ltd.			

TEST REPORT

Plant Name & Address	: J.K. CEMENT LIMITED Unit: - J.K. CEMENT WORKS MANGROL C/o. KAILASH NAGAR, NIMBAHERA
Sampling Location	: LS Crusher-1
Test protocol	: IS:11255 Part-1,2003, IS: Part-3, 2008, USEPA Method No. 3A, 6C & 10B
Stack Height	: 30 m
Height of Sampling Point	: 23.5 m
Stack Diameter at Test Location	: 0.69 m

S.no	Test Id	Time (Hrs)	Temp. (°C)	Velocity (m/s)	Flow Rate (Nm³/S)	Particulate Matter (mg/Nm³)
1	1st	12:00	30	8.8	7.24	15.3
2	2nd	14:00	30	8.8	7.91	16.4
3	3rd	15:00	30	8.8	7.91	15.8


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C/o. KAILASH NAGAR, NIMBAHERA,
DIST: CHITTORGARH, RAJASTHAN-312617,
INDIA.

Report Number : VLL/VLS/22/15646/022
Issue Date : 2023/01/17
P.O. Number : 4600086158
P.O. Date : 15/10/2022

Page 1 of 1

Sample Registration Date : 2023/01/03	Sampling Date : 2022/12/29
Analysis Starting Date : 2022/01/03	Analysis Completion Date : 2023/01/17
Sample Collected by Vimta Labs Ltd.	

TEST REPORT

Plant Name & Address	J.K. CEMENT LIMITED Unit: - J.K. CEMENT WORKS MANGROL C/o. KAILASH NAGAR, NIMBAHERA
Sampling Location	Klin-01 Stack
Test protocol	IS:11255 Part-1,2003, IS: Part-3, 2008, USEPA Method No. 3A, 6C & 10B
Stack Height	88.3 m
Height of Sampling Point	77.5 m
Stack Diameter at Test Location	2.6 m

S.no	Test Id	Time (Hrs)	Temp. (°C)	O2 (%V/V)	CO2 (%V/V)	SO2 (mg/Nm3)	NOx (mg/Nm3)	Velocity (m/s)	Flow Rate (Nm³/s)	Particulate Matter (mg/Nm³)
1	1st	09:00	129	9.52	18.8	BDL(<1)	414.1	17.6	57.16	0.8
2	2nd	10:00	129	9.52	18.8	BDL(<1)	412.05	17.7	57.34	0.8
3	3rd	11:00	129	9.52	18.8	BDL(<1)	440.75	17.5	56.25	0.8


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Report Number : VLL/VLS/22/15646/023
Issue Date : 2023/01/17
P.O. Number : 4600086158
P.O. Date : 15/10/2022

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Sample Registration Date : 2023/01/03	Sampling Date : 2022/12/23
Analysis Starting Date : 2022/01/03	Analysis Completion Date : 2023/01/17
Sample Collected by Vimta Labs Ltd.	

TEST REPORT

Plant Name & Address	J.K. CEMENT LIMITED Unit: - J.K. CEMENT WORKS MANGROL C/o. KAILASH NAGAR, NIMBAHERA
Sampling Location	Cement mill-02 Stack
Test protocol	IS:11255 Part-1,2003, IS: Part-3, 2008, USEPA Method No. 3A, 6C & 10B
Stack Height	35 m
Height of Sampling Point	24.7 m
Stack Diameter at Test Location	1.1 m

S.no	Test Id	Time (Hrs)	Temp. (°C)	Velocity (m/s)	Flow Rate (Nm³/S)	Particulate Matter (mg/Nm³)
1	1st	16:00	101	7.7	5.56	7.9
2	2nd	17:00	101	7.8	5.63	7.1
3	3rd	18:00	101	7.6	5.48	6.9


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Report Number : VLL/VLS/22/15646/024
Issue Date : 2023/01/17
P.O. Number : 4600086158
P.O. Date : 15/10/2022

Page 1 of 1

Sample Registration Date : 2023/01/03	Sampling Date : 2022/12/21
Analysis Starting Date : 2022/01/03	Analysis Completion Date : 2023/01/17
Sample Collected by Vimta Labs Ltd.	

TEST REPORT

Plant Name & Address	J.K. CEMENT LIMITED Unit: - J.K. CEMENT WORKS MANGROL C/o. KAILASH NAGAR, NIMBAHERA
Sampling Location	Packer-01 Stack
Test protocol	IS:11255 Part-1,2003, IS: Part-3, 2008, USEPA Method No. 3A, 6C & 10B
Stack Height	30 m
Height of Sampling Point	25 m
Stack Diameter at Test Location	1 m

S.no	Test Id	Time (Hrs)	Temp. (°C)	Velocity (m/s)	Flow Rate (Nm³/S)	Particulate Matter (mg/Nm³)
1	1st	16:00	30	8.9	7.88	5.3
2	2nd	17:00	31	8.9	7.76	6.1
3	3rd	18:00	33	8.9	7.80	7.1

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Report Number : VLL/VLS/22/15646/025
Issue Date : 2023/01/17
P.O. Number : 4600086158
P.O. Date : 15/10/2022

Page 1 of 1

Sample Registration Date : 2023/01/03	Sampling Date : 2022/12/22
Analysis Starting Date : 2022/01/03	Analysis Completion Date : 2021/01/17
Sample Collected by Vimta Labs Ltd.	

TEST REPORT

Plant Name & Address	J.K. CEMENT LIMITED Unit: - J.K. CEMENT WORKS MANGROL C/o. KAILASH NAGAR, NIMBAHERA
Sampling Location	Packer - 02 Stack
Test protocol	IS:11255 Part-1,2003, IS: Part-3, 2008, USEPA Method No. 3A, 6C & 10B
Stack Height	30 m
Height of Sampling Point	25 m
Stack Diameter at Test Location	1 m

S.no	Test Id	Time (Hrs)	Temp. (°C)	Velocity (m/s)	Flow Rate (Nm³/s)	Particulate Matter (mg/Nm³)
1	1st	09:00	30	8.6	7.63	5.1
2	2nd	10:00	30	8.6	7.63	6.4
3	3rd	11:00	30	8.6	7.60	5.3

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Report Number : VLL/VLS/22/15646/026
Issue Date : 2023/01/17
P.O. Number : 4600086158
P.O. Date : 15/10/2022

Page 1 of 1

Sample Registration Date : 2023/01/03	Sampling Date : 2022/12/22
Analysis Starting Date : 2022/01/03	Analysis Completion Date : 2023/01/17
Sample Collected by Vimta Labs Ltd.	

TEST REPORT

Plant Name & Address : J.K. CEMENT LIMITED
Unit: - J.K. CEMENT WORKS MANGROL
C/o. KAILASH NAGAR, NIMBAHERA

Sampling Location : Packer -03 Stack

Test protocol : IS:11255 Part-1,2003, IS: Part-3, 2008, USEPA
Method No. 3A, 6C & 10B

Stack Height : 30 m
Height of Sampling Point : 25 m
Stack Diameter at Test Location : 1 m

S.no	Test Id	Time (Hrs)	Temp. (°C)	Velocity (m/s)	Flow Rate (Nm ³ /S)	Particulate Matter (mg/Nm ³)
1	1st	12:00	30	9.2	8.19	<5.0
2	2nd	14:00	31	9.2	8.22	7.5
3	3rd	15:00	30	9.2	8.22	<5.0

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Report Number : VLL/VLS/22/15646/027
Issue Date : 2023/01/17
P.O. Number : 4600086158
P.O. Date : 15/10/2022

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Sample Registration Date	: 2023/01/03	Sampling Date	: 2022/12/22
Analysis Starting Date	: 2022/01/03	Analysis Completion Date	: 2023/01/17
Sample Collected by Vimta Labs Ltd.			

TEST REPORT

Plant Name & Address : J.K. CEMENT LIMITED
Unit: - J.K. CEMENT WORKS MANGROL
C/o. KAILASH NAGAR, NIMBAHERA

Sampling Location : Packer-04 Stack

Test protocol : IS:11255 Part-1,2003, IS: Part-3, 2008, USEPA
Method No. 3A, 6C & 10B

Stack Height : 30 m
Height of Sampling Point : 25 m
Stack Diameter at Test Location : 1 m

S.no	Test Id	Time (Hrs)	Temp. (°C)	Velocity (m/s)	Flow Rate (Nm³/S)	Particulate Matter (mg/Nm³)
1	1st	16:00	30	8.3	7.41	<5.0
2	2nd	17:00	30	8.3	7.43	5.7
3	3rd	18:00	29	8.3	7.43	5.1


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Report Number : VLL/VLS/22/15646/028
Issue Date : 2023/01/17
P.O. Number : 4600086158
P.O. Date : 15/10/2022

Page 1 of 1

Sample Registration Date : 2023/01/03	Sampling Date : 2022/12/24
Analysis Starting Date : 2022/01/03	Analysis Completion Date : 2023/01/17
Sample Collected by Vimta Labs Ltd.	

TEST REPORT

Plant Name & Address	J.K. CEMENT LIMITED Unit: - J.K. CEMENT WORKS MANGROL C/o. KAILASH NAGAR, NIMBAHERA
Sampling Location	Kiln-02 Stack (Line-2)
Test protocol	IS:11255 Part-1,2003, IS: Part-3, 2008, USEPA Method No. 3A, 6C & 10B
Stack Height	158.5
Height of Sampling Point	104.3
Stack Diameter at Test Location	4.25

S.no	Test Id	Time (Hrs)	Temp. (°C)	O2 (%V/V)	CO2 (%V/V)	SO2 (mg/Nm3)	NOx (mg/Nm3)	Velocity (m/s)	Flow Rate (Nm³/S)	Particulate Matter (mg/Nm³)
1	1st	09:00	139	6.31	24.17	8.4	420.25	12.5	110.41	5.5
2	2nd	10:00	139	6.31	24.17	9.8	492.0	12.5	110.41	2.4
3	3rd	11:00	139	6.31	24.17	9.52	502.25	12.5	110.41	2.0


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Report Number : VLL/VLS/22/15646/029
Issue Date : 2023/01/17
P.O. Number : 4600086158
P.O. Date : 15/10/2022

Page 1 of 1

Sample Registration Date : 2023/01/03	Sampling Date : 2022/12/21
Analysis Starting Date : 2022/01/03	Analysis Completion Date : 2023/01/17
Sample Collected by Vimta Labs Ltd.	

TEST REPORT**Plant Name & Address**

J.K. CEMENT LIMITED
Unit: - J.K. CEMENT WORKS MANGROL
C/o. KAILASH NAGAR, NIMBAHERA

Sampling Location

: Kln-03 Stack (Line-3)

Test protocol

: IS:11255 Part-1, 2003, IS: Part-3, 2008, USEPA
Method No. 3A, 6C & 10B

Stack Height

: 148 m

Height of Sampling Point

: 131.5 m

Stack Diameter at Test Location

: 4 m

S.no	Test Id	Time (Hrs)	Temp. (°C)	O2 (%V/V)	CO2 (%V/V)	SO2 (mg/Nm ³)	NOx (mg/Nm ³)	Velocity (m/s)	Flow Rate (Nm ³ /S)	Particulate Matter (mg/Nm ³)
1	1st	09:00	130	8.3	22.5	BDL	225.5	17.3	153.45	17.1
2	2nd	10:00	130	8.3	22.5	BDL	229.6	17.3	153.45	17.0
3	3rd	11:00	130	8.3	22.5	BDL	256.25	17.3	153.45	17.5


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M/S. J.K. CEMENT LIMITED
Unit: - J.K. CEMENT WORKS MANGROL
C/o. KAILASH NAGAR, NIMBAHERA,
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INDIA.

Report Number : VLL/VLS/22/15646/030
Issue Date : 2023/01/17
P.O. Number : 4600086158
P.O. Date : 15/10/2022

Page 1 of 1

Sample Registration Date	: 2023/01/03	Sampling Date	: 2022/12/20
Analysis Starting Date	: 2022/01/03	Analysis Completion Date	: 2023/01/17
Sample Collected by Vimta Labs Ltd.			

TEST REPORT

Plant Name & Address	: J.K. CEMENT LIMITED Unit: - J.K. CEMENT WORKS MANGROL C/o. KAILASH NAGAR, NIMBAHERA
Sampling Location	: Cement Mill-4 (HRP)
Test protocol	: IS:11255 Part-1, 2003, IS: Part-3, 2008, USEPA Method No. 3A, 6C & 10B
Stack Height	: 61.7 m
Height of Sampling Point	: 56.10 m
Stack Diameter at Test Location	: 2.8 m

S.no	Test Id	Time (Hrs)	Temp. (°C)	Velocity (m/s)	Flow Rate (Nm³/S)	Particulate Matter (mg/Nm³)
1	1st	12:30	80	4.1	20.34	2.1
2	2nd	14:00	81	4.1	20.28	2.2
3	3rd	15:00	82	4.1	20.22	2.1


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C/o. KAILASH NAGAR, NIMBAHERA,
DIST: CHITTORGARH, RAJASTHAN-312617,
INDIA.

Report Number : VLL/VLS/22/15646/031
Issue Date : 2023/01/17
P.O. Number : 4600086158
P.O. Date : 15/10/2022

Page 1 of 1

Sample Registration Date	: 2023/01/03	Sampling Date	: 2022/12/20
Analysis Starting Date	: 2022/01/03	Analysis Completion Date	: 2023/01/17
Sample Collected by Vimta Labs Ltd.			

TEST REPORT

Plant Name & Address

J.K. CEMENT LIMITED
Unit: - J.K. CEMENT WORKS MANGROL
C/o. KAILASH NAGAR, NIMBAHERA

Sampling Location

Cement Mill Line-3

Test protocol

IS:11255 Part-1,2003, IS: Part-3, 2008, USEPA
Method No. 3A, 6C & 10B

Stack Height

: 56.0 m

Height of Sampling Point

: 49.9 m

Stack Diameter at Test Location

: 2.9 m

S.no	Test Id	Time (Hrs)	Temp. (°C)	Velocity (m/s)	Flow Rate (Nm ³ /S)	Particulate Matter (mg/Nm ³)
1	1st	16:00	89	8.6	6.43	9.6
2	2nd	17:00	90	8.6	6.41	9.9
3	3rd	18:00	89	8.6	6.43	10.1


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Report Number : VLL/VLS/22/20128/001
Issue Date : 17/03/2023
P.O. Number : 4600086158
P.O. Date : 15/10/2022

Page 1 of 1

Sample Registration Date : 2023/03/11	Sampling Date : 2023/02/23
Analysis Starting Date : 2023/03/11	Analysis Completion Date : 2023/03/17
Sample Collected by Vimta Labs Ltd.	

TEST REPORT**Plant Name & Address**

J.K. CEMENT LIMITED
Unit: - J.K. CEMENT WORKS MANGROL
C/o. KAILASH NAGAR, NIMBAHERA

Sampling Location

: Line-2 CoolerStack

Test protocol

: IS:11255 Part-1,2003, IS: Part-3, 2008, USEPA
Method No. 3A, 6C & 10B

Stack Height

: 48.9m

Height of Sampling Point

: 42.1m

Stack Diameter at Test Location

: 3.35m

Sr.No	Test Id	Time (Hrs)	Temp. (°C)	Velocity (m/s)	Flow Rate (Nm³/S)	Particulate Matter (mg/Nm³)
1	1 st	11:15	106	5.2	33.65	1.93
2	2 nd	12:00	107	5.3	33.86	2.1
3	3 rd	12:45	105	5.1	33.45	1.85

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Report Number : VLL/VLS/22/20128/002
Issue Date : 17/03/2023
P.O. Number : 4600086158
P.O. Date : 15/10/2022

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Sample Registration Date : 2023/03/11	Sampling Date : 2023/02/22
Analysis Starting Date : 2023/03/11	Analysis Completion Date : 2023/03/17
Sample Collected by Vimta Labs Ltd.	

TEST REPORT

Plant Name & Address : J.K. CEMENT LIMITED
Unit: - J.K. CEMENT WORKS MANGROL
C/o. KAILASH NAGAR, NIMBAHERA

Sampling Location : Line-3 Cooler Stack

Test protocol : IS:11255 Part-1,2003, IS: Part-3, 2008, USEPA
Method No. 3A, 6C & 10B

Stack Height : 52.1m
Height of Sampling Point : 45.5m
Stack Diameter at Test Location : 3.5m

Sr.No	Test Id	Time (Hrs)	Temp. (°C)	Velocity (m/s)	Flow Rate (Nm ³ /S)	Particulate Matter (mg/Nm ³)
1	1st	10:00	95	2.8	20.62	17.5
2	2nd	11:00	96	2.9	20.85	18.6
3	3rd	12:30	94	2.7	20.51	19.5

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Report Number : VLL/VLS/22/20128/003
Issue Date : 17/03/2023
P.O. Number : 4600086158
P.O. Date : 15/10/2022

Page 1 of 1

Sample Registration Date : 2023/03/11	Sampling Date : 2023/02/23
Analysis Starting Date : 2023/03/11	Analysis Completion Date : 2023/03/17
Sample Collected by Vimta Labs Ltd.	

TEST REPORT

Plant Name & Address	: J.K. CEMENT LIMITED Unit: - J.K. CEMENT WORKS MANGROL C/o. KAILASH NAGAR, NIMBAHERA
Sampling Location	: Coal mill -02 Stack
Test protocol	: IS:11255 Part-1,2003, IS: Part-3, 2008, USEPA Method No. 3A, 6C & 10B
Stack Height	: 51.2 m
Height of Sampling Point	: 38.7 m
Stack Diameter at Test Location	: 1.6 m

Sr.No	Test Id	Time (Hrs)	Temp. (°C)	Velocity (m/s)	Flow Rate (Nm³/S)	Particulate Matter (mg/Nm³)
1	1st	11:15	69	17.3	27.46	14.34
2	2nd	12:00	70	17.5	27.76	2.56
3	3rd	12:45	68	17.1	27.15	2.9

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M/S. J.K. CEMENT LIMITED
Unit: - J.K. CEMENT WORKS MANGROL
C/o. KAILASH NAGAR, NIMBAHERA,
DIST: CHITTORGARH, RAJASTHAN-312617,
INDIA.

Report Number : VLL/VLS/22/20128/004
Issue Date : 2023/03/17
P.O. Number : 4600086158
P.O. Date : 15/10/2022

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Sample Registration Date : 2023/03/11	Sampling Date : 2023/02/21
Analysis Starting Date : 2023/03/11	Analysis Completion Date : 2023/03/17
Sample Collected by Vimta Labs Ltd.	

TEST REPORT**Plant Name & Address**

J.K. CEMENT LIMITED
Unit: - J.K. CEMENT WORKS MANGROL
C/o. KAILASH NAGAR, NIMBAHERA

Sampling Location

: Coal mill -3 Stack

Test protocol

: IS:11255 Part-1,2003, IS: Part-3, 2008, USEPA
Method No. 3A, 6C & 10B

Stack Height

: 62.2 m

Height of Sampling Point

: 43.6 m

Stack Diameter at Test Location

: 2.24 m

Sr.No	Test Id	Time (Hrs)	Temp. (°C)	Velocity (m/s)	Flow Rate (Nm³/S)	Particulate Matter (mg/Nm³)
1	1st	15:00	74	6.1	18.56	15.67
2	2nd	15:45	72	5.9	18.93	16.5
3	3rd	17:00	73	6.0	17.87	16.96

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INDIA.

Report Number : VLL/VLS/22/20128/005
Issue Date : 2023/03/17
P.O. Number : 4600086158
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Sample Registration Date : 2023/03/11	Sampling Date : 2023/02/23
Analysis Starting Date : 2023/03/11	Analysis Completion Date : 2023/03/17
Sample Collected by Vimta Labs Ltd.	

TEST REPORT**Plant Name & Address**

J.K. CEMENT LIMITED
: Unit: - J.K. CEMENT WORKS MANGROL
C/o. KAILASH NAGAR, NIMBAHERA

Sampling Location

: Line-1 Cooler Stack

Test protocol

: IS:11255 Part-1, 2003, IS: Part-3, 2008, USEPA
Method No. 3A, 6C & 10B

Stack Height

: 40 m

Height of Sampling Point

: 33 m

Stack Diameter at Test Location

: 3 m

Sr.No	Test Id	Time (Hrs)	Temp. (°C)	Velocity (m/s)	Flow Rate (Nm ³ /S)	Particulate Matter (mg/Nm ³)
1	1st	16:45	120	11.2	54.78	25.3
2	2nd	17:30	121	11.3	54.83	24.5
3	3rd	18:15	119	11.1	54.70	24.8

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Sample Registration Date : 2023/03/11 Sampling Date : 2023/02/24
Analysis Starting Date : 2023/03/11 Analysis Completion Date : 2023/03/17
Sample Collected by Vimta Labs Ltd.

TEST REPORT

Plant Name & Address : J.K. CEMENT LIMITED
Unit: - J.K. CEMENT WORKS MANGROL
C/o. KAILASH NAGAR, NIMBAHERA

Sampling Location : Coal mill -1 Stack

Test protocol : IS:11255 Part-1,2003, IS: Part-3, 2008, USEPA
Method No. 3A, 6C & 10B

Stack Height : 30 m
Height of Sampling Point : 21.5 m
Stack Diameter at Test Location : 0.76 m

Sr.No	Test Id	Time (Hrs)	Temp. (°C)	Velocity (m/s)	Flow Rate (Nm³/S)	Particulate Matter (mg/Nm³)
1	1st	15:00	72	29.3	10.30	8.4
2	2nd	15:45	73	29.5	10.45	6.3
3	3rd	18:00	70	7.3	2.74	4.8

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Report Number : VLL/VLS/22/20128/007
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Sample Registration Date : 2023/03/11
Analysis Starting Date : 2023/03/11
Sample Collected by Vimta Labs Ltd.

Sampling Date : 2023/02/24
Analysis Completion Date : 2023/03/17

TEST REPORT**Plant Name & Address**

J.K. CEMENT LIMITED
Unit: - J.K. CEMENT WORKS MANGROL
C/o. KAILASH NAGAR, NIMBAHERA

Sampling Location

: LS Crusher-1

Test protocol

: IS:11255 Part-1,2003, IS: Part-3, 2008, USEPA
Method No. 3A, 6C & 10B

Stack Height

: 30 m

Height of Sampling Point

: 23.5 m

Stack Diameter at Test Location

: 0.69 m

Sr.No	Test Id	Time (Hrs)	Temp. (°C)	Velocity (m/s)	Flow Rate (Nm³/s)	Particulate Matter (mg/Nm³)
1	1st	16:50	43	9.36	5.66	15.3
2	2nd	17:13	41	9.30	5.82	15.0
3	3rd	17:37	42	9.35	5.71	15.7

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Report Number : VLL/VLS/22/20128/008
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TEST REPORT

Plant Name & Address

J.K. CEMENT LIMITED
Unit: - J.K. CEMENT WORKS MANGROL
C/o. KAILASH NAGAR, NIMBAHERA

Sampling Location

Kiln-01 Stack

Test protocol

IS:11255 Part-1,2003, IS: Part-3, 2008, USEPA
Method No. 3A, 6C & 10B

Stack Height

: 88.3 m

Height of Sampling Point

: 77.5 m

Stack Diameter at Test Location

: 2.6 m

Sr.No	Test Id	Time (Hrs)	Temp. (°C)	O2 (%V/V)	CO2 (%V/V)	SO2 (mg/Nm ³)	NOx (mg/Nm ³)	Velocity (m/s)	Flow Rate (Nm ³ /S)	Particulate Matter (mg/Nm ³)
1	1st	16:45	193	10.84	15.91	BDL	235.75	21.8	65.55	19.45
2	2nd	17:30	193	10.82	15.93	BDL	164.00	21.7	65.75	20.34
3	3rd	18:15	193	10.85	15.90	BDL	211.15	21.5	65.17	19.78

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Sample Collected by Vimta Labs Ltd.	

TEST REPORT

Plant Name & Address	: J.K. CEMENT LIMITED Unit: - J.K. CEMENT WORKS MANGROL C/o. KAILASH NAGAR, NIMBAHERA
Sampling Location	: Cement mill-02 Stack
Test protocol	: IS:11255 Part-1,2003, IS: Part-3, 2008, USEPA Method No. 3A, 6C & 10B
Stack Height	: 35 m
Height of Sampling Point	: 24.7 m
Stack Diameter at Test Location	: 1.1 m

S.no	Test Id	Time (Hrs)	Temp. (°C)	Velocity (m/s)	Flow Rate (Nm³/S)	Particulate Matter (mg/Nm³)
1	1st	12:45	82	11.7	8.68	5.8
2	2nd	13:30	81	11.6	8.76	5.56
3	3rd	14:15	83	11.5	8.58	5.64



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Sample Registration Date : 2023/03/11	Sampling Date : 2023/02/25
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Sample Collected by Vimta Labs Ltd.	

TEST REPORT

Plant Name & Address	: J.K. CEMENT LIMITED Unit: - J.K. CEMENT WORKS MANGROL C/o. KAILASH NAGAR, NIMBAHERA
Sampling Location	: Packer-01 Stack
Test protocol	: IS:11255 Part-1, 2003, IS: Part-3, 2008, USEPA Method No. 3A, 6C & 10B
Stack Height	: 30 m
Height of Sampling Point	: 25 m
Stack Diameter at Test Location	: 1 m

Sr.No	Test Id	Time (Hrs)	Temp. (°C)	Velocity (m/s)	Flow Rate (Nm³/S)	Particulate Matter (mg/Nm³)
1	1st	11:44	44	5.8	4.03	6.8
2	2nd	12:40	43	5.7	4.02	6.2
3	3rd	14:20	42	5.6	4.15	<5.0

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Sample Registration Date : 2023/03/11	Sampling Date : 2022/12/25
Analysis Starting Date : 2023/03/11	Analysis Completion Date : 2023/03/17
Sample Collected by Vimta Labs Ltd.	

TEST REPORT**Plant Name & Address**

J.K. CEMENT LIMITED
Unit: - J.K. CEMENT WORKS MANGROL
C/o. KAILASH NAGAR, NIMBAHERA

Sampling Location

Packer - 02 Stack

Test protocol

IS:11255 Part-1,2003, IS: Part-3, 2008, USEPA
Method No. 3A, 6C & 10B

Stack Height

: 30 m

Height of Sampling Point

: 25 m

Stack Diameter at Test Location

: 1 m

Sr.No	Test Id	Time (Hrs)	Temp. (°C)	Velocity (m/s)	Flow Rate (Nm³/S)	Particulate Matter (mg/Nm³)
1	1st	15:15	47	6.8	4.68	5.87
2	2nd	16:03	45	6.6	4.75	<5.0
3	3rd	16:45	46	6.7	4.60	6.35

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Sample Registration Date : 2023/03/11 Sampling Date : 2023/02/25
Analysis Starting Date : 2023/03/11 Analysis Completion Date : 2023/03/17
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TEST REPORT**Plant Name & Address**

J.K. CEMENT LIMITED
Unit: - J.K. CEMENT WORKS MANGROL
C/o. KAILASH NAGAR, NIMBAHERA

Sampling Location

: Packer -03 Stack

Test protocol

: IS:11255 Part-1,2003, IS: Part-3, 2008, USEPA
Method No. 3A, 6C & 10B

Stack Height

: 30 m

Height of Sampling Point

: 25 m

Stack Diameter at Test Location

: 1 m

Sr.No	Test Id	Time (Hrs)	Temp. (°C)	Velocity (m/s)	Flow Rate (Nm³/S)	Particulate Matter (mg/Nm³)
1	1st	11:00	40	5.9	4.16	<5.0
2	2nd	11:50	42	6.1	4.23	5.3
3	3rd	16:15	41	6.0	4.05	5.9

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Sample Registration Date : 2023/03/11	Sampling Date : 2023/02/25
Analysis Starting Date : 2023/03/11	Analysis Completion Date : 2023/03/17
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TEST REPORT**Plant Name & Address**

J.K. CEMENT LIMITED
Unit: - J.K. CEMENT WORKS MANGROL
C/o. KAILASH NAGAR, NIMBAHERA

Sampling Location

: Packer-04 Stack

Test protocol

: IS:11255 Part-1,2003, IS: Part-3, 2008, USEPA
Method No. 3A, 6C & 10B

Stack Height

: 30 m

Height of Sampling Point

: 25 m

Stack Diameter at Test Location

: 1 m

Sr.No	Test Id	Time (Hrs)	Temp. (°C)	Velocity (m/s)	Flow Rate (Nm ³ /S)	Particulate Matter (mg/Nm ³)
1	1st	14:30	70	6.9	6.18	<5.0
2	2nd	15:20	68	6.7	6.23	5.2
3	3rd	16:15	69	6.8	6.10	5.7

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Sample Collected by Vimta Labs Ltd.	

TEST REPORT

Plant Name & Address	: J.K. CEMENT LIMITED Unit: - J.K. CEMENT WORKS MANGROL C/o. KAILASH NAGAR, NIMBAHERA
Sampling Location	: Kiln-02 Stack (Line-2)
Test protocol	: IS:11255 Part-1, 2003, IS: Part-3, 2008, USEPA Method No. 3A, 6C & 10B
Stack Height	: 158.5
Height of Sampling Point	: 104.3
Stack Diameter at Test Location	: 4.25

Sr.No	Test Id	Time (Hrs)	Temp. (°C)	O2 (%V/V)	CO2 (%V/V)	SO2 (mg/Nm3)	NOx (mg/Nm3)	Velocity (m/s)	Flow Rate (Nm³/S)	Particulate Matter (mg/Nm³)
1	1st	15:00	123	5.03	26.46	BDL	492.0	12.05	113.66	18.45
2	2nd	15:45	124	5.15	26.32	BDL	565.8	12.40	113.98	19.6
3	3rd	16:30	122	5.10	26.37	BDL	641.67	12.01	113.26	19.2

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Issue Date : 2023/03/17
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Sample Registration Date : 2023/03/11	Sampling Date : 2023/02/21
Analysis Starting Date : 2023/03/11	Analysis Completion Date : 2023/03/17
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TEST REPORT**Plant Name & Address**

J.K. CEMENT LIMITED
Unit: - J.K. CEMENT WORKS MANGROL
C/o. KAILASH NAGAR, NIMBAHERA

Sampling Location

Kiln-03 Stack (Line-3)

Test protocol

IS:11255 Part-1,2003, IS: Part-3, 2008, USEPA
Method No. 3A, 6C & 10B

Stack Height

: 148 m

Height of Sampling Point

: 131.5 m

Stack Diameter at Test Location

: 4 m

Sr.No	Test Id	Time (Hrs)	Temp. (°C)	O2 (%V/V)	CO2 (%V/V)	SO2 (mg/Nm3)	NOx (mg/Nm3)	Velocity (m/s)	Flow Rate (Nm³/S)	Particulate Matter (mg/Nm³)
1	1st	10:00	105	7.23	22.0	BDL	348.5	18.4	161.70	18.2
2	2nd	11:00	106	7.15	22.6	BDL	323.9	18.7	162.3	19.5
3	3rd	11:45	104	7.25	21.6	BDL	352.6	18.1	161.35	16.5

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Sample Registration Date : 2023/03/11

Sampling Date : 2023/02/24

Analysis Starting Date : 2023/03/11

Analysis Completion Date : 2023/03/17

Sample Collected by Vimta Labs Ltd.

TEST REPORT**Plant Name & Address**

J.K. CEMENT LIMITED

Unit: - J.K. CEMENT WORKS MANGROL
C/o. KAILASH NAGAR, NIMBAHERA**Sampling Location**

Cement Mill-4(HRP Stack)

Test protocolIS:11255 Part-1,2003, IS: Part-3, 2008, USEPA
Method No. 3A, 6C & 10B**Stack Height**

: 61.7 m

Height of Sampling Point

: 56.10 m

Stack Diameter at Test Location

: 2.8 m

Sr.No	Test Id	Time (Hrs)	Temp. (°C)	Velocity (m/s)	Flow Rate (Nm³/S)	Particulate Matter (mg/Nm³)
1	1st	13:30	91	5.21	23.92	2.93
2	2nd	14:15	92	5.12	23.45	3.23
3	3rd	16:15	91	5.39	24.16	2.9

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Sample Registration Date : 2023/03/11	Sampling Date : 2023/02/27
Analysis Starting Date : 2023/03/11	Analysis Completion Date : 2023/03/17
Sample Collected by Vimta Labs Ltd.	

TEST REPORT

Plant Name & Address	: J.K. CEMENT LIMITED Unit: - J.K. CEMENT WORKS MANGROL C/o. KAILASH NAGAR, NIMBAHERA
Sampling Location	: Cement Mill Line-3
Test protocol	: IS:11255 Part-1, 2003, IS: Part-3, 2008, USEPA Method No. 3A, 6C & 10B
Stack Height	: 56.0 m
Height of Sampling Point	: 49.9 m
Stack Diameter at Test Location	: 2.9 m

Sr.No	Test Id	Time (Hrs)	Temp. (°C)	Velocity (m/s)	Flow Rate (Nm³/S)	Particulate Matter (mg/Nm³)
1	1st	11:00	82	6.4	32.92	2.94
2	2nd	11:45	81	6.6	33.14	2.3
3	3rd	12:30	83	6.3	32.81	2.0

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Sample Registration Date : 2023/03/11	Sampling Date : 2023/02/27
Analysis Starting Date : 2023/03/11	Analysis Completion Date : 2023/03/17
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TEST REPORT

Plant Name & Address	: J.K. CEMENT LIMITED Unit: - J.K. CEMENT WORKS MANGROL C/o. KAILASH NAGAR, NIMBAHERA
Sampling Location	: LS Crusher-2
Test protocol	: IS:11255 Part-1,2003, IS: Part-3, 2008, USEPA Method No. 3A, 6C & 10B
Stack Height	: 30 m
Height of Sampling Point	: 23.5 m
Stack Diameter at Test Location	: 1.25 m

Sr.No	Test Id	Time (Hrs)	Temp. (°C)	Velocity (m/s)	Flow Rate (Nm³/S)	Particulate Matter (mg/Nm³)
1	1st	11:22	48	5.8	6.23	16.3
2	2nd	11:58	47	5.65	6.16	14.9
3	3rd	12:32	46	5.58	6.27	15.9

Dr. Subbareddy Mallampati
Deputy Manager-Environment

J.K. Cement WORKS, MANGROL (RAJ)
AMBIENT AIR QUALITY MONITORING DATA (AVERAGE)
 (ALL VALUES IN MICROGRAMS / CUBIC METER)
 (Common for Unit 1 , Unit 2 , Unit-3 , TPP,WHRS & RESIDENTAL COLONY)
 Monthly Average Report (October-2022-March-2023)
 (2022-23)

S.No.	LOCATION	Month					
			PM10	PM2.5	SO2	NOx	CO
1	NEAR TIME OFFICE	Oct-22	50.4	35.5	14.8	26.1	702
2		Nov-22	43.7	23.4	17.1	21.9	695
3		Dec-22	43.9	31.2	20.2	21.3	639
4		Jan-23	50.9	30.6	12.3	23.6	656.9
5		Feb-23	55.2	21.6	12.4	20.7	632.6
6		Mar-23	58.0	31.9	16.2	26.1	438.0
Halfyearly Average			50.4	29.0	15.5	23.3	627.2
1	NEAR THERMAL POWER PLANT	Oct-22	50.7	32.1	19.9	28.1	724
2		Nov-22	44.6	26.1	17.7	31.5	715
3		Dec-22	46.6	30.8	22.7	23.4	714
4		Jan-23	56.4	42.3	12.3	19.8	654
5		Feb-23	57.5	26.7	15.0	28.0	568
6		Mar-23	60.3	32.7	17.5	25.3	455
Halfyearly Average			52.7	31.8	17.5	26.0	638.4
1	NEAR FACTORY GATE	Oct-22	52.1	32.9	18.1	26.5	761
2		Nov-22	38.7	27.9	11.5	22.6	603
3		Dec-22	34.7	23.6	20.7	20.7	639
4		Jan-23	61.9	31.2	12.5	21.0	657
5		Feb-23	51.5	33.0	13.9	21.8	636
6		Mar-23	60.5	35.5	19.1	26.1	477
Halfyearly Average			49.9	30.7	16.0	23.1	628.6
1	NEAR COLONY GATE	Oct-22	47.6	27.1	16.7	25.4	654
2		Nov-22	41.2	31.1	10.7	19.1	747
3		Dec-22	35.6	24.7	22.7	23.3	699
4		Jan-23	54.1	31.4	15.0	17.8	693
5		Feb-23	53.4	27.7	16.5	24.6	579
6		Mar-23	54.2	26.0	11.3	14.7	374
Halfyearly Average			47.7	28.0	15.5	20.8	624.1



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



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Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502522400003400	Date :	24-11-2022
Issued To :	M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitoring :	15-11-2022
Point of Collection :	Near Time office	Date of Receipt :	17-11-2022
Date of Test/Analysis :	17-11-2022 to 24-11-2022	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m3]	280	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	12.05	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Particulate Matter (PM2.5) [microgram/m3]	38.03	IS 5182 (Part 24) : 2019	60.00
4	Sulphur Dioxide [microgram/m3]	3.52	IS 5182 (Part 2) : 2001 RA 2017	80.00
5	Particulate Matter (PM 10) [microgram/m3]	75.43	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.

Purni Mal Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: TC502522400003400)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502522400003401	Date :	24-11-2022
Issued To :	M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera., District - Chittorgarh-312617 (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitoring :	16-11-2022
Point of Collection :	Near Thermal Power Plant	Date of Receipt :	17-11-2022
Date of Test/Analysis :	17-11-2022 to 24-11-2022	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m3]	290	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	12.43	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Particulate Matter (PM2.5) [microgram/m3]	31.29	IS 5182 (Part 24) : 2019	60.00
4	Sulphur Dioxide [microgram/m3]	3.23	IS 5182 (Part 2) : 2001 RA 2017	80.00
5	Particulate Matter (PM 10) [microgram/m3]	64.06	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: TC502522400003401)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502522400003402	Date :	24-11-2022
Issued To :	M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitoring :	15-11-2022
Point of Collection :	Near Factory Gate	Date of Receipt :	17-11-2022
Date of Test/Analysis :	17-11-2022 to 24-11-2022	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m3]	310	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	14.79	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Particulate Matter (PM2.5) [microgram/m3]	32.12	IS 5182 (Part 24) : 2019	60.00
4	Sulphur Dioxide [microgram/m3]	2.54	IS 5182 (Part 2) : 2001 RA 2017	80.00
5	Particulate Matter (PM 10) [microgram/m3]	73.5	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Purni Mal Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: TC502522400003402)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502522400003403	Date :	24-11-2022
Issued To :	M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbaheara,, District - Chittorgarh-312617 (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitoring :	16-11-2022
Point of Collection :	Near Colony Gate	Date of Receipt :	17-11-2022
Date of Test/Analysis :	17-11-2022 to 24-11-2022	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m3]	320	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	12.49	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Particulate Matter (PM2.5) [microgram/m3]	30.52	IS 5182 (Part 24) : 2019	60.00
4	Sulphur Dioxide [microgram/m3]	3.31	IS 5182 (Part 2) : 2001 RA 2017	80.00
5	Particulate Matter (PM 10) [microgram/m3]	63.14	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Purni Mal Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: TC502522400003403)



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TEST REPORT

Report No./ULR No. :	TC502523400000419	Date :	10-03-2023
Issued To :	M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	08-02-2023 16:31 to 09-02-2023 16:31
Point of Collection :	Near Time office	Date of Receipt :	28-02-2023
Date of Test/Analysis :	28-02-2023 to 10-03-2023	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m3]	330	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	15.93	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Particulate Matter (PM2.5) [microgram/m3]	32.69	IS 5182 (Part 24) : 2019	60.00
4	Sulphur Dioxide [microgram/m3]	5.48	IS 5182 (Part 2) : 2001 RA 2017	80.00
5	Particulate Matter (PM 10) [microgram/m3]	74.17	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Puran Yogi
Senior Analyst

Rakesh Maneshwar
Authorized Signatory
(Report No: TC502523400000419)



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TEST REPORT

Report No./ULR No. :	TC502523400000420	Date :	10-03-2023
Issued To :	M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbaheera,, District - Chittorgarh-312617 (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	08-02-2023 16:33 to 09-02-2023 16:33
Point of Collection :	Near Thermal Power Plant	Date of Receipt :	28-02-2023
Date of Test/Analysis :	28-02-2023 to 10-03-2023	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m3]	350	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	14.88	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Particulate Matter (PM2.5) [microgram/m3]	32.39	IS 5182 (Part 24) : 2019	60.00
4	Sulphur Dioxide [microgram/m3]	5.39	IS 5182 (Part 2) : 2001 RA 2017	80.00
5	Particulate Matter (PM 10) [microgram/m3]	73.28	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Purandhar Yogi

Senior Analyst

Rakesh
Rakesh Manoharwar

Authorized Signatory

(Report No: TC502523400000420)



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Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502523400000421	Date :	10-03-2023
Issued To :	M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbaheara,, District - Chittorgarh-312617 (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	08-02-2023 16:36 to 09-02-2023 16:36
Point of Collection :	Near Factory Gate	Date of Receipt :	28-02-2023
Date of Test/Analysis :	28-02-2023 to 10-03-2023	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m3]	310	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	15.92	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Particulate Matter (PM2.5) [microgram/m3]	38.55	IS 5182 (Part 24) : 2019	60.00
4	Sulphur Dioxide [microgram/m3]	5.56	IS 5182 (Part 2) : 2001 RA 2017	80.00
5	Particulate Matter (PM 10) [microgram/m3]	75.94	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Priyanka Mal Yogi

Senior Analyst

Rakesh Maheshwari

(Report No: TC502523400000421)



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Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502523400000422	Date :	10-03-2023
Issued To :	M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	08-02-2023 16:37 to 09-02-2023 16:37
Point of Collection :	Near Colony Gate	Date of Receipt :	28-02-2023
Date of Test/Analysis :	28-02-2023 to 10-03-2023	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m3]	340	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	14.71	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Particulate Matter (PM2.5) [microgram/m3]	32.71	IS 5182 (Part 24) : 2019	60.00
4	Sulphur Dioxide [microgram/m3]	5.62	IS 5182 (Part 2) : 2001 RA 2017	80.00
5	Particulate Matter (PM 10) [microgram/m3]	78.49	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Pulkit
Pulkit Mai rogi
Senior Analyst

Raj
Raj Arora
Authorized Signatory
(Report No: TC502523400000422)

J.K. Cement Works, Mangrol (Unit-1)					
Fugitive Emission Monitoring Report					
October" 2022 - March" 2023					
S.No.	Month/Year	SPM (... Plus)			
		NEAR COAL YARD-1	NEAR LIMESTONE CRUSHING SITE 1	NEAR STACK RECLAIMER-	NEAR GYPSUM YARD-1
1	Oct-22	1093.0	1133.0	1092.8	909.8
2	Nov-22	943.3	1074.2	1023.8	977.7
3	Dec-22	884.3	996.3	976.9	898.6
4	Jan-23	952.3	1152.6	858.6	988.0
5	Feb-23	1044.0	850.2	1256.6	1151.2
6	Mar-23	1254.1	1322.4	977.9	844.1

J.K. Cement Works, Mangrol (Unit-2)
Fugitive Emission Monitoring Report

October" 2022 - March" 2023

S.No.	Month/Year	^ W D ~ ... P l u i •				
		NEAR COAL YARD-2	NEAR LIMESTONE CRUSHING S 2	NEAR STACK RECLAIMER-	NEAR GYPSUM YARD-2	NEAR COAL YARD-Power Plant
1	Oct-22	954.8	1005.8	1196.1	862.6	933.7
2	Nov-22	1082.6	1243.8	1396.8	980.9	1118.8
3	Dec-22	1003.0	1288.4	1386.9	887.9	1062.3
4	Jan-23	1150.4	1150.2	1008.7	966.3	1147.9
5	Feb-23	1258.6	1059.6	1255.3	1190.6	1244.3
6	Mar-23	1104.2	1211.6	1047.2	987.6	995.2

J.K. Cement Works, Mangrol (Unit-3)					
Fugitive Emission Monitoring Report					
October" 2022 - March" 2023					
S.No.	Month/Year	^ W D ~ ... P l u i •			
		NEAR COAL YARD-3	NEAR ADDITIVE YARD	NEAR STACK RECLAIMER-	NEAR GYPSUM YARD-3
1	Oct-22	857.8	825.3	1047.3	962.0
2	Nov-22	659.7	700.8	784.2	550.7
3	Dec-22	576.1	711.4	739.1	544.1
4	Jan-23	998.6	966.5	1050.5	963.3
5	Feb-23	1055.2	1066.9	1188.1	855.2
6	Mar-23	1032.7	1210.3	1322.2	1055.2

J.K. Cement WORKS, Mangrol (RAJ)

Treated Domestic Effluent Analysis Report

October" 2022 - March" 2023

S.No.	PARAMETER	Standards	October-22	November-22	December-22	January-23	February-23	March-23
1	pH	Between 5.5 to 9.0	7.6	7.36	7.45	7.7	7.6	7.6
2	Chlorides as Cl	Not to exceed 1000 mg/l	85.9	137.97	110.8	140.0	137.0	152
3	Total Suspended solids	Not to exceed 100 mg/l	31	25	37	42.0	24.0	19
4	Biological Oxygen Demand (days at 27 Degree C)	Not to exceed 30 mg/l	10.55	14.25	12.4	9.6	12.0	14.2
5	Chemical Oxygen Demand	Not to exceed 250 mg/l	81.7	95.58	63.5	76.5	88.4	59.4
6	Oil & Grease	Not to exceed 10 mg/l	2.05	4	1.25	<1.0	3.0	<1.0
7	Ammonical Nitrogen (as N)	Not to exceed 50 mg/l	11.52	9.42	6.54	6.5	4.9	5.4
8	Sulphide (as S)	Not to exceed 2.0 mg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
9	Total Residual Chlorine	Not to exceed 1.0 mg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1



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Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502522200002733	Date :	01-12-2022
Issued To :	M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Liquid Effluents	Date of Sample Collection/Monitoring :	22-11-2022
Point of Collection :	STP Sushila Nagar Colony	Date of Receipt :	24-11-2022
Date of Test/Analysis :	24-11-2022 to 30-11-2022	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 Ltr	Sample Collected By :	Mahaveer singh Gurjar
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Total Suspended Solids [mg/l]	25	APHA.2017:2540-D	100
2	Ammonical Nitrogen as N [mg/l]	9.42	APHA 2017 : 4500-NH3 C	50
3	Biochemical Oxygen Demand (BOD) [mg/l]	14.25	APHA 2017:5210-B	30
4	Chloride as Cl [mg/l]	137.97	APHA 2017 : 4500- Cl- B	-
5	Chemical Oxygen Demand (COD) [mg/l]	95.58	APHA:2017 : 5220-C	250
6	pH	7.36	APHA:2017 : 4500 H+B	5.5 - 9.0
7	Sulphide as S [mg/l]	BDL (<0.1)	APHA. 2017 : 4500-S2-F	2
8	Total Kjeldahl Nitrogen (TKN) [mg/l]	18.72	APHA 2017 : 4500-Norg B	100
9	Oil & Grease [mg/l]	4	APHA 2017 : 5520 B	10
10	Total Residual Chlorine [mg/l]	BDL (<0.1)	APHA 2017 : 4500- Cl- B	1.0

Notes :-

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Sunil Kumar
Senior Analyst

Rajesh Maheshwar
Authorized Signatory
(Report No: TC502522200002733)



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Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	200002733	Date :	01-12-2022
Issued To :	M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan).	Type of Unit :	Cement Plant
Type of Sample :	Liquid Effluents	Date of Sample Collection/Monitoring :	22-11-2022
Point of Collection :	STP Sushila Nagar Colony	Date of Receipt :	24-11-2022
Date of Test/Analysis :	24-11-2022 to 30-11-2022	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 Ltr	Sample Collected By :	Mahaveer singh Gurjar
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Faecal coliform [MPN/100ml]	Not Detected	IS 1622 : 1981	-

Notes :-

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Sunil Kumar
Senior Analyst

Rakesh Maheshwari
Authorized Signatory
(Report No: 200002733)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502523200000481	Date :	10-03-2023
Issued To :	M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan),	Type of Unit :	Cement Plant
Type of sample / Discipline :	Liquid Effluents / Chemical & Biological	Date of Sample Collection/Monitoring :	23-02-2023
Point of Collection :	STP Sushila Nagar Colony	Date of Receipt :	03-03-2023
Date of Test/Analysis :	03-03-2023 to 10-03-2023	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 ltr.	Sample Collected By :	Prahlad yogi
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Total Suspended Solids [mg/l]	24	APHA.2017:2540-D	100
2	Ammonical Nitrogen as N [mg/l]	4.90	APHA 2017 : 4500-NH3 C	50
3	Biochemical Oxygen Demand (BOD) [mg/l]	12	APHA 2017:5210-B	30
4	Chloride as Cl [mg/l]	137.97	APHA 2017 : 4500- Cl- B	-
5	Chemical Oxygen Demand (COD) [mg/l]	88.4	APHA:2017 : 5220-C	250
6	pH	7.62	APHA:2017 : 4500 H+B	5.5 - 9.0
7	Sulphide as S [mg/l]	BDL(<0.1)	APHA. 2017 : 4500-S2-F	2
8	Total Kjeldahl Nitrogen (TKN) [mg/l]	15.30	APHA 2017 : 4500-Norg B	100
9	Oil & Grease [mg/l]	3	APHA 2017 : 5520 B	10
10	Total Residual Chlorine [mg/l]	BDL(<0.1)	APHA 2017 : 4500- Cl- B	1.0

Notes :-

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Sunil kumar
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: TC502523200000481)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	200000481	Date :	10-03-2023
Issued To :	M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan),	Type of Unit :	Cement Plant
Type of sample / Discipline :	Liquid Effluents / Chemical & Biological	Date of Sample Collection/Monitoring :	23-02-2023
Point of Collection :	STP Sushila Nagar Colony	Date of Receipt :	03-03-2023
Date of Test/Analysis :	03-03-2023 to 10-03-2023	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 ltr.	Sample Collected By :	Prahlad yogi
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
11	Faecal coliform [MPN/100ml]	Not Detected	IS 1622 : 1981	1000

Notes :-

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Sunil kumar
Senior Analyst

Rajesh Maheshwari
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(Report No: 200000481)



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TEST REPORT

Report No./ULR No. :	TC502522200002732	Date :	01-12-2022
Issued To :	M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbaheara,, District - Chittorgarh-312617 (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Liquid Effluents	Date of Sample Collection/Monitoring :	22-11-2022
Point of Collection :	29.1 MW ETP	Date of Receipt :	24-11-2022
Date of Test/Analysis :	24-11-2022 to 30-11-2022	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 Ltr	Sample Collected By :	Mahaveer singh Gurjar
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Total Suspended Solids [mg/l]	18	APHA.2017:2540-D	100
2	Biochemical Oxygen Demand (BOD) [mg/l]	9.75	APHA 2017:5210-B	30
3	Chemical Oxygen Demand (COD) [mg/l]	75.81	APHA:2017 : 5220-C	250
4	pH	7.51	APHA:2017 : 4500 H+B	6.5 - 8.5
5	Phosphate (total) as P [mg/l]	0.40	APHA 2017 : 4500-P C	5
6	Chromium Total [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	0.2
7	Copper [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	1.0
8	Iron [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	1.0
9	Zinc [mg/l]	0.05	APHA :2017 :3111- B	1.0
10	Oil & Grease [mg/l]	3	APHA 2017 : 5520 B	10
11	Total Residual Chlorine [mg/l]	BDL (<0.1)	APHA 2017 : 4500- Cl- B	1.0

Notes :-

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Sunil Kumar
Senior Analyst

Rajesh Maheshwari
Authorized Signatory

(Report No: TC502522200002732)



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TEST REPORT

Report No./ULR No. :	200002732	Date :	01-12-2022
Issued To :	M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Liquid Effluents	Date of Sample Collection/Monitoring :	22-11-2022
Point of Collection :	29.1 MW ETP	Date of Receipt :	24-11-2022
Date of Test/Analysis :	24-11-2022 to 30-11-2022	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 Ltr	Sample Collected By :	Mahaveer singh Gurjar
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Temperature [°C]	28	APHA 2017 :2550A	-
2	Free available chlorine [mg/l]	BDL (<0.1)	APHA 2017 : 4500- Cl- B	0.5

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Sunil Kumar
Senior Analyst

Rajesh Maneshwar
Authorized Signatory
(Report No: 200002732)



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TEST REPORT

Report No./ULR No. :	TC502523200000480	Date :	10-03-2023
Issued To :	M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan),	Type of Unit :	Cement Plant
Type of sample / Discipline :	Liquid Effluents / Chemical	Date of Sample Collection/Monitoring :	23-02-2023
Point of Collection :	29.1 MW ETP	Date of Receipt :	03-03-2023
Date of Test/Analysis :	03-03-2023 to 10-03-2023	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 ltr.	Sample Collected By :	Prahlad yogi
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Total Suspended Solids [mg/l]	22	APHA.2017:2540-D	100
2	Biochemical Oxygen Demand (BOD) [mg/l]	9	APHA 2017:5210-B	30
3	Chemical Oxygen Demand (COD) [mg/l]	70.72	APHA:2017 : 5220-C	250
4	pH	7.30	APHA:2017 : 4500 H+B	5.5 - 9.0
5	Phosphate (total) as P [mg/l]	BDL (<0.1)	APHA 2017 : 4500-P C	5
6	Chromium Total [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	0.2
7	Copper [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	1.0
8	Iron [mg/l]	0.02	APHA :2017 :3111- B	1.0
9	Zinc [mg/l]	0.05	APHA :2017 :3111- B	1.0
10	Oil & Grease [mg/l]	3	APHA 2017 : 5520 B	10
11	Total Residual Chlorine [mg/l]	BDL(<0.1)	APHA 2017 : 4500- Cl- B	1.0

Notes :-

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Sunil kumar
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: TC502523200000480)



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TEST REPORT

Report No./ULR No. :	200000480	Date :	10-03-2023
Issued To :	M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan),	Type of Unit :	Cement Plant
Type of sample / Discipline :	Liquid Effluents / Chemical	Date of Sample Collection/Monitoring :	23-02-2023
Point of Collection :	29.1 MW ETP	Date of Receipt :	03-03-2023
Date of Test/Analysis :	03-03-2023 to 10-03-2023	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 ltr.	Sample Collected By :	Prahlad yogi
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
12	Temperature [°C]	25	APHA 2017 :2550A	-
13	Free available chlorine [mg/l]	BDL(<0.1)	APHA 2017 : 4500- Cl- B	0.5

Notes :-

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Sunil kumar
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 200000480)

J.K. Cement WORKS, Mangrol (RAJ)

Noise Monitoring Report

Month	Mangrol Plant FY 2022-23(Unit - 1 , 2 & 3)							
	Near Time office		Near Thermal Power Plant		Near Factory Gate		Near Colony Gate	
	Day	Night	Day	Night	Day	Night	Day	Night
Oct-22	61.6	49.3	60.2	46.5	65.7	52.6	61.4	44.8
Nov-22	61.3	49.6	59.7	46.3	64.9	52.4	60.2	43.1
Dec-22	60.7	48.8	59.5	46.1	64.4	52.2	60.1	43.3
Jan-23	69.5	52.3	62.6	52.1	68.8	50.8	61.2	48.6
Feb-23	65.2	55.3	69.1	50.1	67.3	54.5	65.4	53.3
Mar-23	65.4	51.8	64.3	52.1	68.9	53.1	60.1	45.01



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Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502522600002283	Date :	24-11-2022
Issued To :	M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Ambient Noise Level Monitoring	Date of Sample Collection/Monitoring :	16-11-2022
Point of Collection :	Near Time office	Date of Receipt :	17-11-2022
Date of Test/Analysis :	17-11-2022 to 23-11-2022	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	63.5	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	54.8	IS 9989	70

Notes :-

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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: TC502522600002283)



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



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Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502522600002284	Date :	24-11-2022
Issued To :	M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Ambient Noise Level Monitoring	Date of Sample Collection/Monitoring :	16-11-2022
Point of Collection :	Near Thermal Power Plant	Date of Receipt :	17-11-2022
Date of Test/Analysis :	17-11-2022 to 23-11-2022	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Krashna Murari
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	62.1	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	52.1	IS 9989	70

Notes :-

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Puran Mal Yogi
Senior Analyst

Rajesh Chaturvedi
Authorized Signatory
(Report No: TC502522600002284)



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Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502522600002285	Date :	24-11-2022
Issued To :	M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Ambient Noise Level Monitoring	Date of Sample Collection/Monitoring :	16-11-2022
Point of Collection :	Near Factory Gate	Date of Receipt :	17-11-2022
Date of Test/Analysis :	17-11-2022 to 23-11-2022	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	64.9	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	48.9	IS 9989	70

Notes :-

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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: TC502522600002285)



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Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502522600002286	Date :	24-11-2022
Issued To :	M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Ambient Noise Level Monitoring	Date of Sample Collection/Monitoring :	16-11-2022
Point of Collection :	Near Colony Gate	Date of Receipt :	17-11-2022
Date of Test/Analysis :	17-11-2022 to 23-11-2022	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	53.1	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	41.8	IS 9989	70

Notes :-

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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: TC502522600002286)



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Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502523600000320	Date :	10-03-2023
Issued To :	M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan),	Type of Unit :	Cement Plant
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	08-02-2023 16:39 to 09-02-2023 16:39
Point of Collection :	Near Time office	Date of Receipt :	28-02-2023
Date of Test/Analysis :	28-02-2023 to 10-03-2023	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	64.2	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	54.9	IS 9989	70

Notes :-

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Purni Mal Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: TC502523600000320)



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Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502523600000321	Date :	10-03-2023
Issued To :	M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	08-02-2023 16:41 to 09-02-2023 16:41
Point of Collection :	Near Thermal Power Plant	Date of Receipt :	28-02-2023
Date of Test/Analysis :	28-02-2023 to 10-03-2023	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	67.4	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	57.4	IS 9989	70

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Puran Mar Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: TC502523600000321)



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Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502523600000322	Date :	10-03-2023
Issued To :	M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	08-02-2023 16:42 to 09-02-2023 16:43
Point of Collection :	Near Factory Gate	Date of Receipt :	28-02-2023
Date of Test/Analysis :	28-02-2023 to 10-03-2023	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	65.2	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	56.2	IS 9989	70

Notes :-

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Senior Analyst
Puran Mal Yogi

Authorized Signatory
(Report No: TC502523600000322)



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Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502523600000323	Date :	10-03-2023
Issued To :	M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	08-02-2023 16:44 to 09-02-2023 16:44
Point of Collection :	Near Colony Gate	Date of Receipt :	28-02-2023
Date of Test/Analysis :	28-02-2023 to 10-03-2023	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	53.4	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	42.5	IS 9989	70

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Purni Mal Yogi
Senior Analyst

Rakesh Mohashwan
Authorized Signatory
(Report No: TC502523600000323)

Awareness Program on Ban of Single Use Plastic

By

J K Cement Works

Nimbahera & Mangrol

Dist. Chittorgarh (Rajasthan)

August 2022











जे. के. सीमेन्ट , निम्बाहेड़ा

सिंगल यूज प्लास्टिक के प्रयोग पर रोक लगाने के संबंध में।

क्या उपयोग नहीं करना है ?

केंद्रीय पर्यावरण, वन और जलवायु परिवर्तन मंत्रालय द्वारा अगस्त 2021 में अधिसूचित संशोधित प्लास्टिक अपशिष्ट प्रबंधन नियम 2021 के अनुसार निम्नलिखित एकल उपयोग प्लास्टिक वस्तुओं को प्रतिबंधित किया गया है।

-  सजावट के लिये प्लास्टिक व थर्माकोल (पॉलिस्टीरिन)
-  मिठाईयों के डिब्बे, निमंत्रण पत्रिका व सिगरेट के पैकेट और उनके कवर
-  प्लास्टिक की छड़ों के साथ कानकोरनी, गुब्बारों के लिए प्लास्टिक के झंड़े, कैड़ी के छड़े, आईस्क्रीम छड़े
-  प्लेट्स, कप, ग्लासेस, कटलरी जैसे कि चम्मच, चाकू पिने के लिए स्ट्रॉ, ट्रे, घुलानी (स्टिर्स)
-  100 माइक्रोन से पतले पीवीसी बेन्स इन पर प्रतिबंध हैं।
-  कंपोस्टेबल प्लास्टिक (कचरा और नर्सरी की थैलियों छोड़कर)
-  सभी प्रकार के प्लास्टिक की थैलियाँ (कैरी बैग्स, नॉन वुवन बैग्स के साथ) हैण्डल वाली और बिना हैण्डल वाली
-  बर्तन, कटोरी और डिब्बे






J. K. Cement Works, Nimbahera



सुनो पापा !
अब भारत सरकार
ने सिंगल यूज
प्लास्टिक को बैन
कर दिया है।

बाजार जाते समय जूट या कपड़े का बैग लेकर जाएँ।

Display Board on Ban of SUP at Kailash Nagar1



Display Board on Ban of SUP placed at Kailash Nagar



Awareness or Ban of Single Use Plastic conducted at Nimbahera Town





Awareness or Ban of SUP conducted at Sahabad Village



Awareness or Ban of SUP conducted at Arniya Paliwal Village



DisplayBoard onBan ofSingle Use Plastic placed at
Sushila Nagar Colony, Mangrol



Awareness on Ban of SUP conducted at Mangrol
Village



Awareness or Ban of SUR conducted at Mangrol Village



Awareness or Ban of SUP conducted at Tilakhera Village



Awareness or Ban of SUP conducted at Badoli Madhopur Village



Awareness or Ban of SUP conducted at Arniya Joshi Village



Awareness or Ban of Single Use Plastic Conducted Falwa Village



Awareness or Ban of SUP conducted at Maliakheri Village



Awareness or Ban of SUP conducted at Rasulpura



Awareness or Ban of SUP conducted at Charlia Gadiya Village



dZ vI z}p

