

MGR/PC-21/C13**through Email****Date: 19.11.2022**

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 **April 2022 to September 2022.**

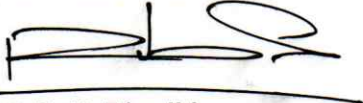
As per MoEF & CC notification no. S.O. 5845 (E) 26.11.2018 the same soft copy has been send to email id. moef@nic.in, ccb.cpcb@nic.in, member-secretary@rpcb.nic.in, cpcb.bhopal@gov.in, iro.jaipur-mefcc@gov.in for your kind reference and record please.

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
- +011-49220000
- 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
WallMax
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*	2022	Reporting Period*	April-2022 to September-2022
Remarks (if any)	Submitting herewith the Six Monthly EC Compliance Report for the period: April-2022 to September-2022 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):*	142.42 ha.
Actual Project Area (In Case of Mine Lease):*	142.42 ha.		

PRODUCTION CAPACITY

Name of the Product*	Units*	As per EC granted*	Production during last financial year*: 2021-22
Clinker Production	Million Tons Per Annum	5.65	4.816965
Cement Production	Million Tons Per Annum	7.05	6.992868



CPP (Electricity Generation)	MW/Hr.	60	164144.88 Mwh
WHRB (Electricity Generation)	MW/Hr.	30	217037 Mwh

ENVIRONMENT CLEARANCE COMPLIANCE REPORT OF J. K. CEMENT WORKS, MANGROL (RAJASTHAN)
(Period: Apr'2022 to Sept'2022)





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 for the period: Apr-22 to Sept-22 is enclosed as <u>Annexure-1</u>.


																										
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 NO_x 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>Apr-22</td><td>70.3</td><td>54.4</td><td>750.3</td></tr><tr><td>May-22</td><td>68.9</td><td>54.9</td><td>754.4</td></tr><tr><td>Jun-22</td><td>69.0</td><td>53.8</td><td>758.4</td></tr><tr><td>Jul-22</td><td>72.9</td><td>58.9</td><td>762.6</td></tr></table>	Month	Power Consumption (kwh/ton of Cement)		Thermal Energy Kcal/Kg. of Clinker (with loss)	OPC	PPC	Apr-22	70.3	54.4	750.3	May-22	68.9	54.9	754.4	Jun-22	69.0	53.8	758.4	Jul-22	72.9	58.9	762.6
Month	Power Consumption (kwh/ton of Cement)		Thermal Energy Kcal/Kg. of Clinker (with loss)																							
	OPC	PPC																								
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				<table><tr><td>Aug-22</td><td>74.3</td><td>58.8</td><td>759.6</td></tr><tr><td>Sep-22</td><td>68.8</td><td>55.8</td><td>758.9</td></tr><tr><td>Average</td><td>70.2</td><td>55.6</td><td>757.4</td></tr></table>	Aug-22	74.3	58.8	759.6	Sep-22	68.8	55.8	758.9	Average	70.2	55.6	757.4
Aug-22	74.3	58.8	759.6													
Sep-22	68.8	55.8	758.9													
Average	70.2	55.6	757.4													
(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: Apr-22 to Sept-22 is enclosed as <u>Annexure-2</u>.												
(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 mitigative 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: Apr-22 to Sept-22 is enclosed as <u>Annexure-3</u> . 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. <ul style="list-style-type: none"> • In FY 2021-22: total 1, 08,214.54 MT waste material co-processed as AFR. • In FY 2022-23 till Sept: total 136762.624 MT waste material co-processed as AFR.

				<p>4. Dense greenbelt is developed in & around the plant & colony.</p> <p>5. Solar Power Plant of 7.0 MW installed at Mangrol Plant & Colony.</p>
(ix)	Human Health Environment	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. There should also be an arrangement for sufficient drinking water at site to prevent dehydration etc.	Complied	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.
(x)	Miscellaneous	Arsenic and Mercury shall be monitored in emissions, ambient air and water.	Yet to be 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.
		 <p>Time: 20-06-2020 11:12 Note: COAL YARD MANGROL PLANT Powered by NoteCam</p>		 <p>Time: 14-07-2020 12:09 Note: RAW MATERIALS STORED IN COVERED SHED AT MANGROL PLANT Powered by NoteCam</p>
(xii)	Miscellaneous	The project proponent shall prepare a report on impact of project on surrounding reserve forest within six months and	Complied	There is no Wildlife Sanctuary, National Park, within 10 Km periphery of the lease area. The same has been

		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.		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), 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) 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.
(xiv)	Statutory compliance	The project proponent will also provide the latest status of the environment compliances in respect of its existing plant.	Complied	Periodical EC compliance is being submitted and last EC compliance report submitted vide our letter No.: MGR/PC/21/C13 dated 25.05.2022 send by email for the period: October-21 to March-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	Efforts shall be made to make use of rain water harvested. If needed capacity of the reservoir shall be enhanced to	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

	And Preservation	meet the maximum water requirement. Only balance water requirement shall be met from other sources.		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: Apr-22 to Sept-22 is enclosed as Annexure-4.
(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 2021-22: total 1, 08,214.54 MT waste material co-processed as AFR.In FY 2022-23 till Sept: total 136762.624 MT waste material co-processed as AFR.
(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 till Sept = 3850 nos. in gap filling.Total area of colony = 22.47 ha.Green belt in colony = 7.44 ha.

				<ul style="list-style-type: none"> • Total nos. of tree in colony up to March 2022= 28401 nos. • Total nos. of sapling planted in colony in FY 2022-23 till Sept = NIL. • Total survived plantation up to March 2022 including plant & colony = 192942 nos. • Photos of Greenbelt/Plantation developed in plant premises is enclosed as <u>Annexure-5</u>.
(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.	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 2021-22 are given below:

		Implementation of such program shall be ensured by constituting a Committee comprising of 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: 2021-22:					
S. No.	Name of the project	Item from the list of activities in Schedule VII to the Act	Villages	District	Amount Spent for the Project (in Rs.)
1	Drinking water supply by tankers in nearby villages and water pipeline	Water Management & Conservation	Arniya Joshi	Chittorgarh	172260
			Shahbad	Chittorgarh	99120
			Mangrol	Chittorgarh	2844604
			Tilakhera	Chittorgarh	123192
2	CC Road Construction and development work	Rural Development	Mangrol	Chittorgarh	6530039
			Tilakhera	Chittorgarh	86193
			Murlia	Chittorgarh	1843682
3	Sanitization work	Health Care	Mangrol	Chittorgarh	497000
4	Repairing of DG set at court & Construction of community hall	Community Welfare	Mangrol	Chittorgarh	4216133
		Tilakhera			1208573
Total CSR Activities and Expenditure (INR)					17620796
(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 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.	Complied	Kindly refer the above point.	

(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	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.

		submitted to this Ministry including its Regional Office at Lucknow and the SPCB/CPCB once in Six months.		Please refer the above Annexure-1 and Annexure- 2 for detail Stack Emission and Ambient Air Quality monitoring results for the period: Apr-22 to Sept-22, 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: Apr-22 to Sept-22 is enclosed as <u>Annexure-6</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 company must undertake socio-economic development activities in the surrounding villages like community development programmes, education programmes, drinking water supply and health care etc.	Complied	Kindly refer the point no. xxvii, details are mentioned as above.
(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	Complied	Unit has made expenditures of Rs. 6681515/- towards environment pollution control measures including regulatory charges, environment monitoring, water charges etc. in FY 2021-22.

		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.		Detail environment protection measures expenditure made during the FY: 2022-23 will be submitted along with next EC compliance report.
(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 25.05.2022 through email for the period: Oct-2021 to Mar- 2022 on 31.05.2022.
(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	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:

		compliance of environmental conditions and shall also be sent to the respective Regional Office of the MOEFCC at Lucknow by e-mail.		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	<u>General Conditions</u>			
(ii)	Miscellaneous	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: <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-7**.

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



(Authorized Signatory)



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/22/04982/001
Issue Date : 2022/07/07
P.O. Number : 4600082693
P.O. Date : 03/06/2022

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Sample Registration Date : 2022/06/27 Sampling Date : 2022/06/17
Analysis Starting Date : 2022/06/27 Analysis Completion Date : 2022/07/07
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 : Cooler-2Satck

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 : 42.1 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	11:00	97	14.8	104.2	<5.0
2	2 nd	11:40	98	14.8	103.7	<5.0
3	3 rd	12:20	98	14.8	103.7	<5.0

Dr. Subba Reddy Mallampati
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Vimta Labs Limited

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**ISSUED TO:**

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Unit: - J.K. CEMENT WORKS MANGROL
C/o. KAILASH NAGAR, NIMBAHERA,
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Report Number : VLL/VLS/22/04982/002
Issue Date : 2022/07/07
P.O. Number : 4600082693
P.O. Date : 03/06/2022

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Sample Registration Date : 2022/06/27	Sampling Date : 2022/06/18
Analysis Starting Date : 2022/06/27	Analysis Completion Date : 2022/07/07
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 : Cooler-3 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	10:00	87	16.14	127.4	<5.0
2	2nd	11:00	83	16.17	127.2	8.03
3	3rd	12:10	89	16.19	126.8	<5.0


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C/o. KAILASH NAGAR, NIMBAHERA,
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Report Number : VLL/VLS/22/04982/003
Issue Date : 2022/07/07
P.O. Number : 4600082693
P.O. Date : 03/06/2022

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Sample Registration Date : 2022/06/27	Sampling Date : 2022/06/18
Analysis Starting Date : 2022/06/27	Analysis Completion Date : 2022/07/07
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	14:00	67	20.9	36.46	11.8
2	2nd	15:00	68	20.1	36.35	<5.0
3	3rd	16:20	67	20.9	36.46	<5.0

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

Report Number : VLL/VLS/22/04982/004
Issue Date : 2022/07/07
P.O. Number : 4600082693
P.O. Date : 03/06/2022

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Sample Registration Date : 2022/06/27	Sampling Date : 2022/06/20
Analysis Starting Date : 2022/06/27	Analysis Completion Date : 2022/07/07
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 -3 Stack
Test protocol	: IS:11255 Part-1,2003, IS: Part-3, 2008, USEPA Method No. 3A, 6C & 10B
Stack Height	: 56 m
Height of Sampling Point	: 49.5 m
Stack Diameter at Test Location	: 2.9 m

S.no	Test Id	Time (Hrs)	Temp. (°C)	Velocity (m/s)	Flow Rate (Nm³/S)	Particulate Matter (mg/Nm³)
1	1st	10:00	99	15.1	79.06	22.4
2	2nd	11:00	100	15.2	78.9	18.4
3	3rd	12:10	99	15.3	79	19.4

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**ISSUED TO:**

M/S. J.K. CEMENT LIMITED
Unit: - J.K. CEMENT WORKS MANGROL
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Report Number : VLL/VLS/22/04982/005
Issue Date : 2022/07/07
P.O. Number : 4600082693
P.O. Date : 03/06/2022

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Sample Registration Date	: 2022/06/27	Sampling Date	: 2022/06/20
Analysis Starting Date	: 2022/06/27	Analysis Completion Date	: 2022/07/07
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	10:05	69	26.5	90.19	<5.0
2	2nd	11:15	70	26.4	89.84	<5.0
3	3rd	12:15	68	26.4	90.37	12.7


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Report Number : VLL/VLS/22/04982/006
Issue Date : 2022/07/07
P.O. Number : 4600082693
P.O. Date : 03/06/2022

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Sample Registration Date : 2022/06/27	Sampling Date : 2022/06/20
Analysis Starting Date : 2022/06/27	Analysis Completion Date : 2022/07/07
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	14:00	126	52.6	275	<5.0
2	2nd	15:10	127	52.6	274.4	<5.0
3	3rd	16:20	126	52.4	275.1	<5.0

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Report Number : VLL/VLS/22/04982/007
Issue Date : 2022/07/07
P.O. Number : 4600082693
P.O. Date : 03/06/2022

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Sample Registration Date : 2022/06/27	Sampling Date : 2022/06/20
Analysis Starting Date : 2022/06/27	Analysis Completion Date : 2022/07/07
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	13:55	65	31.3	12.34	5.96
2	2nd	15:00	66	31.2	12.3	10.46
3	3rd	16:10	66	31.3	12.32	10.59

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ISSUED TO:

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Unit: - J.K. CEMENT WORKS MANGROL
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Report Number : VLL/VLS/22/04982/008
Issue Date : 2022/07/07
P.O. Number : 4600082693
P.O. Date : 03/06/2022


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Sample Registration Date	: 2022/06/27	Sampling Date	: 2022/06/21
Analysis Starting Date	: 2022/06/27	Analysis Completion Date	: 2022/07/07
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-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	: 26.1 m
Stack Diameter at Test Location	: 1.25 m

S.no	Test Id	Time (Hrs)	Temp. (°C)	Velocity (m/s)	Flow Rate (Nm³/S)	Particulate Matter (mg/Nm³)
1	1st	14:05	37	9.1	17.43	12.5
2	2nd	14:55	37	9.1	17.4	10.3
3	3rd	15:40	37	9.1	17.36	9.4


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ISSUED TO:

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Report Number : VLL/VLS/22/04982/009
Issue Date : 2022/07/07
P.O. Number : 4600082693
P.O. Date : 03/06/2022

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Sample Registration Date : 2022/06/27	Sampling Date : 2022/06/11
Analysis Starting Date : 2022/06/27	Analysis Completion Date : 2022/07/07
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

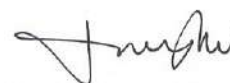
Height of Sampling Point

: 23.5 m

Stack Diameter at Test Location

: 0.69 m

S.no	Test Id	Time (Hrs)	Temp. (°C)	Velocity (m/s)	Flow Rate (Nm ³ /S)	Particulate Matter (mg/Nm ³)
1	1st	11:00	37	14.3	27.4	20.10
2	2nd	11:33	38	14.4	27.31	21.7
3	3rd	12:10	38	14.4	27.32	20.1



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ISSUED TO:

M/S. J.K. CEMENT LIMITED
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Report Number : VLL/VLS/22/04982/010
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P.O. Date : 03/06/2022

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Sample Registration Date : 2022/06/27 Sampling Date : 2022/06/21
Analysis Starting Date : 2022/06/27 Analysis Completion Date : 2022/07/07
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-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	14:30	125	11	16	34	617.1	16.2	63.78	8.7
2	2nd	15:30	126	11	16	39	615.0	16	62.92	<5.0
3	3rd	16:30	125	12.1	12.5	27	598.6	16.2	63.78	5.7


Dr. SubbaReddy Mallampati
Deputy Manager-Environment

Vimta Labs Limited

Registered Office
142, IDA Phase II, Cherlapally
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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/22/04982/011
Issue Date : 2022/07/07
P.O. Number : 4600082693
P.O. Date : 03/06/2022

Page 1 of 1

Sample Registration Date : 2022/06/27	Sampling Date : 2022/06/22
Analysis Starting Date : 2022/06/27	Analysis Completion Date : 2022/07/07
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 Stack

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 : 56.1 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	10:00	80	6	30.9	<5.0
2	2nd	11:00	80	6.1	31	11.6
3	3rd	12:01	81	6	32	11.8


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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/22/04982/012
Issue Date : 2022/07/07
P.O. Number : 4600082693
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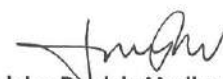
Page 1 of 1

Sample Registration Date : 2022/06/27	Sampling Date : 2022/06/22
Analysis Starting Date : 2022/06/27	Analysis Completion Date : 2022/07/07
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	14:10	85	9	7.05	11.2
2	2nd	15:00	85	9.1	7.01	13.7
3	3rd	16:00	84	9.1	7.3	13.7


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

Report Number : VLL/VLS/22/04982/013
Issue Date : 2022/07/07
P.O. Number : 4600082693
P.O. Date : 03/06/2022

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Sample Registration Date : 2022/06/27	Sampling Date : 2022/06/23
Analysis Starting Date : 2022/06/27	Analysis Completion Date : 2022/07/07
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	: Packing Plant-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	11:00	38	7	6.5	8.5
2	2nd	12:00	38	7.5	7.2	7.9
3	3rd	13:10	39	7.2	8.5	8.3

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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/22/04982/014
Issue Date : 2022/07/07
P.O. Number : 4600082693
P.O. Date : 03/06/2022

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Sample Registration Date : 2022/06/27	Sampling Date : 2022/06/23
Analysis Starting Date : 2022/06/27	Analysis Completion Date : 2022/07/07
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	: Packing Plant-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	14:05	44	4.11	10.5	6.9
2	2nd	15:15	44	4.5	11.3	7.2
3	3rd	16:25	44	4.5	10.5	7.0



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ISSUED TO:

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Report Number : VLL/VLS/22/04982/015
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P.O. Number : 4600082693
P.O. Date : 03/06/2022

Page 1 of 1

Sample Registration Date : 2022/06/27	Sampling Date : 2022/06/23
Analysis Starting Date : 2022/06/27	Analysis Completion Date : 2022/07/07
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

: Packing Plant-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	17:05	43	5.9	12.9	8.2
2	2nd	18:05	43	6.1	14	7.9
3	3rd	19:05	44	5.8	13.6	8.4



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Unit: - J.K. CEMENT WORKS MANGROL
C/o. KAILASH NAGAR, NIMBAHERA,
DIST: CHITTORGARH, RAJASTHAN-312617,
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Report Number : VLL/VLS/22/04982/016
Issue Date : 2022/07/07
P.O. Number : 4600082693
P.O. Date : 03/06/2022

Page 1 of 1

Sample Registration Date : 2022/06/27	Sampling Date : 2022/06/23
Analysis Starting Date : 2022/06/27	Analysis Completion Date : 2022/07/07
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

: Packing Plant-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	9:10	40	7.3	30.12	8.8
2	2nd	10:20	40	7.4	30.13	9.0
3	3rd	11:15	41	7.4	27.8	8.4



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**ISSUED TO:**

M/S. J.K. CEMENT LIMITED
Unit: - J.K. CEMENT WORKS MANGROL
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DIST: CHITTORGARH, RAJASTHAN-312617,
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Report Number : VLL/VLS/22/04982/017
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P.O. Number : 4600082693
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Page 1 of 1

Sample Registration Date : 2022/06/27 Sampling Date : 2022/06/22
Analysis Starting Date : 2022/06/27 Analysis Completion Date : 2022/07/07
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	10:45	128	9	12	30	622.5	14.5	206	8.5
2	2nd	11:30	128	9	12	30	636.9	14.6	206	8.6
3	3rd	12:45	129	9	12	30	675.8	14.7	207	8.9

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**ISSUED TO:**

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

Report Number : VLL/VLS/22/04982/018
Issue Date : 2022/07/07
P.O. Number : 4600082693
P.O. Date : 03/06/2022

Page 1 of 1

Sample Registration Date	: 2022/06/27	Sampling Date	: 2022/06/18
Analysis Starting Date	: 2022/06/27	Analysis Completion Date	: 2022/07/07
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-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/Nm3)	NOx (mg/Nm3)	Velocity (m/s)	Flow Rate (Nm³/S)	Particulate Matter (mg/Nm³)
1	1st	9:40	103	7	10	35	492.0	16.8	211.6	9.3
2	2nd	10:30	104	8	11	47	508.4	16.9	211.8	8.5
3	3rd	11:20	104	8	10	46.25	502.3	16.8	211.8	8.7

Dr. SubbaReddy Mallampati
Deputy Manager-Environment

FORM - X
RAJASTHAN STATE POLLUTION CONTROL BOARD
REPORT OF THE STATE BOARD ANALYST
(See Rule - 10)
Final Report

Report No. : **2151**

Report On : **15/07/2022**

I hereby certify that I **Dr Giriraj Kumar Songara**, State Board Analyst duly appointed under sub **Section(2) of Section 29 of the Air (Prevention & Control of Pollution) Act, 1981** received on the **11/07/2022** from **Surya Pratap Meena, JSO, Chittorgarh ,RSPCB Chittorgarh** a sample of **Source Emission (Stack) of M/S J.K Cement Works, Mangrol , Plant - Mangrol [735] ,Village Mangrol , City- Tilakhera and Mangrol Tehsil- Nimbahera , District- Chittorgarh M.L No- ML-26108** Collected from **Stack of cooler attached with E.S.P. Line-1** Collected on **08/07/2022**. The Sample was in a condition fit for analysis as reported below :-

I further certify that I have analyzed the aforementioned sample on **15/07/2022** and declare the result of the analysis to be as below :-

S. No.	Parameters	Result
1	Particulate Matter mg/Nm ³	10.41

The condition of the seals, fastening and container on receipt was as follows : **Intact**

Signed This On **15/07/2022**


BOARD ANALYST

Rajasthan State Pollution Control Board
Regional Office Chittorgarh
Near FCI Godown, Chanderia, Chittorgarh
Phone:01472-255077

FORM - X
RAJASTHAN STATE POLLUTION CONTROL BOARD
REPORT OF THE STATE BOARD ANALYST
(See Rule - 10)
Final Report

Report No. : **2152**

Report On : **15/07/2022**

I hereby certify that I **Dr Giriraj Kumar Songara**, State Board Analyst duly appointed **under sub Section(2) of Section 29 of the Air (Prevention & Control of Pollution) Act, 1981** received on the **11/07/2022** from **Surya Pratap Meena, JSO, Chittorgarh ,RSPCB Chittorgarh** a sample of **Source Emission (Stack) of M/S J.K Cement Works, Mangrol , Plant - Mangrol [735] ,Village Mangrol , City- Tilakhera and Mangrol Tehsil- Nimbahera , District- Chittorgarh M.L No- ~~ML-26108~~** Collected from **Stack of coal mill-1 attached with bag house**. Collected on **08/07/2022**. The Sample was in a condition fit for analysis as reported below :-

I further certify that I have analyzed the aforementioned sample on **15/07/2022** and declare the result of the analysis to be as below :-

S. No.	Parameters	Result
1	Particulate Matter mg/Nm ³	11.52

The condition of the seals, fastening and container on receipt was as follows : **Intact**

Signed This On **15/07/2022**


BOARD ANALYST

Rajasthan State Pollution Control Board
Regional Office Chittorgarh
Near FCI Godown, Chanderia, Chittorgarh
Phone:01472-255077

FORM - X
RAJASTHAN STATE POLLUTION CONTROL BOARD
REPORT OF THE STATE BOARD ANALYST
(See Rule - 10)
Final Report

Report No. : **2153**

Report On : **15/07/2022**

I hereby certify that I **Dr Giriraj Kumar Songara**, State Board Analyst duly appointed **under sub Section(2) of Section 29 of the Air (Prevention & Control of Pollution) Act, 1981** received on the **11/07/2022** from **Surya Pratap Meena, JSO, Chittorgarh ,RSPCB Chittorgarh** a sample of **Source Emission (Stack) of M/S J.K Cement Works, Mangrol , Plant - Mangrol [735] ,Village Mangrol , City- Tilakhera and Mangrol Tehsil- Nimbahera , District- Chittorgarh** ~~M.L No- ML-26108~~. Collected from **Stack of cement mill-2 attached with bag house**. Collected on **08/07/2022**. The Sample was in a condition fit for analysis as reported below :-

I further certify that I have analyzed the aforementioned sample on **15/07/2022** and declare the result of the analysis to be as below :-

S. No.	Parameters	Result
1	Particulate Matter mg/Nm ³	10.21

The condition of the seals, fastening and container on receipt was as follows : **Intact**

Signed This On **15/07/2022**


BOARD ANALYST

Rajasthan State Pollution Control Board
Regional Office Chittorgarh
Near FCI Godown, Chanderia, Chittorgarh
Phone:01472-255077

FORM - X
RAJASTHAN STATE POLLUTION CONTROL BOARD
REPORT OF THE STATE BOARD ANALYST
(See Rule - 10)
Final Report

Report No. : **2154**

Report On : **15/07/2022**

I hereby certify that I **Dr Giriraj Kumar Songara**, State Board Analyst duly appointed **under sub Section(2) of Section 29 of the Air (Prevention & Control of Pollution) Act, 1981** received on the **11/07/2022** from **Surya Pratap Meena, JSO, Chittorgarh ,RSPCB Chittorgarh** a sample of **Source Emission (Stack) of M/S J.K Cement Works, Mangrol , Plant - Mangrol [735] ,Village Mangrol , City- Tilakhera and Mangrol Tehsil- Nimbahera , District- Chittorgarh ~~M.L No ML-26108~~** Collected from **Stack of cement mill-4 attached with bag house**. Collected on **08/07/2022**. The Sample was in a condition fit for analysis as reported below :-

I further certify that I have analyzed the aforementioned sample on **15/07/2022** and declare the result of the analysis to be as below :-

S. No.	Parameters	Result
1	Particulate Matter mg/Nm ³	16.0

The condition of the seals, fastening and container on receipt was as follows : **Intact**

Signed This On **15/07/2022**


BOARD ANALYST

Rajasthan State Pollution Control Board
Regional Office Chittorgarh
Near FCI Godown, Chanderia, Chittorgarh
Phone:01472-255077

FORM - X
RAJASTHAN STATE POLLUTION CONTROL BOARD
REPORT OF THE STATE BOARD ANALYST
(See Rule - 10)
Final Report

Report No. : **2155**

Report On : **15/07/2022**

I hereby certify that I **Dr Giriraj Kumar Songara**, State Board Analyst duly appointed **under sub Section(2) of Section 29 of the Air (Prevention & Control of Pollution) Act, 1981** received on the **11/07/2022** from **Surya Pratap Meena, JSO, Chittorgarh ,RSPCB Chittorgarh** a sample of **Source Emission (Stack) of M/S J.K Cement Works, Mangrol , Plant - Mangrol [735] ,Village Mangrol , City- Tilakhera and Mangrol Tehsil- Nimbahera , District- Chittorgarh ~~M.L No- ML-26108~~** Collected from **Stack of cement mill-3 attached with bag house**. Collected on **08/07/2022**. The Sample was in a condition fit for analysis as reported below :-

I further certify that I have analyzed the aforementioned sample on **15/07/2022** and declare the result of the analysis to be as below :-

S. No.	Parameters	Result
1	Particulate Matter mg/Nm ³	3.72

The condition of the seals, fastening and container on receipt was as follows : **Intact**

Signed This On **15/07/2022**


BOARD ANALYST

Rajasthan State Pollution Control Board
Regional Office Chittorgarh
Near FCI Godown, Chanderia, Chittorgarh
Phone:01472-255077

FORM - X
RAJASTHAN STATE POLLUTION CONTROL BOARD
REPORT OF THE STATE BOARD ANALYST
(See Rule - 10)
Final Report

Report No. : **2156**

Report On : **15/07/2022**

I hereby certify that I **Dr Giriraj Kumar Songara**, State Board Analyst duly appointed **under sub Section(2) of Section 29 of the Air (Prevention & Control of Pollution) Act, 1981** received on the **11/07/2022** from **Bhupendra Kumar Soni, SO, Chittorgarh ,RSPCB Chittorgarh** a sample of **Source Emission (Stack)** of **M/S J.K Cement Works, Mangrol , Plant - Mangrol [735] ,Village Mangrol , City- Tilakhera and Mangrol Tehsil- Nimbahera , District- Chittorgarh ~~M.L No- ML-26108~~** Collected from **Stack of Raw mill klin line-3 attached with bag house.** Collected on **07/07/2022.** The Sample was in a condition fit for analysis as reported below :-

I further certify that I have analyzed the aforementioned sample on **15/07/2022** and declare the result of the analysis to be as below :-

S. No.	Parameters	Result
1	Particulate Matter mg/Nm ³	8.62

The condition of the seals, fastening and container on receipt was as follows : **Intact**

Signed This On **15/07/2022**


BOARD ANALYST

Rajasthan State Pollution Control Board
Regional Office Chittorgarh
Near FCI Godown, Chanderia, Chittorgarh
Phone:01472-255077

FORM - X
RAJASTHAN STATE POLLUTION CONTROL BOARD
REPORT OF THE STATE BOARD ANALYST
(See Rule - 10)
Final Report

Report No. : **2157**

Report On : **15/07/2022**

I hereby certify that I **Dr Giriraj Kumar Songara**, State Board Analyst duly appointed **under sub Section(2) of Section 29 of the Air (Prevention & Control of Pollution) Act, 1981** received on the **11/07/2022** from **Bhupendra Kumar Soni, SO, Chittorgarh ,RSPCB Chittorgarh** a sample of **Source Emission (Stack) of M/S J.K Cement Works, Mangrol , Plant - Mangrol [735] ,Village Mangrol , City- Tilakhera and Mangrol Tehsil- Nimbahera , District- Chittorgarh M.L No- ML-26108** Collected from **Stack of cooler line-3 attached with E.S.P.** Collected on **08/07/2022**. The Sample was in a condition fit for analysis as reported below :-

I further certify that I have analyzed the aforementioned sample on **15/07/2022** and declare the result of the analysis to be as below :-

S. No.	Parameters	Result
1	Particulate Matter mg/Nm ³	12.26

The condition of the seals, fastening and container on receipt was as follows : **Intact**

Signed This On **15/07/2022**


BOARD ANALYST

Rajasthan State Pollution Control Board
Regional Office Chittorgarh
Near FCI Godown, Chanderia, Chittorgarh
Phone:01472-255077

FORM - X
RAJASTHAN STATE POLLUTION CONTROL BOARD
REPORT OF THE STATE BOARD ANALYST
(See Rule - 10)
Final Report

Report No. : **2158**

Report On : **15/07/2022**

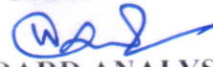
I hereby certify that I **Dr Giriraj Kumar Songara**, State Board Analyst duly appointed **under sub Section(2) of Section 29 of the Air (Prevention & Control of Pollution) Act, 1981** received on the **11/07/2022** from **Bhupendra Kumar Soni, SO, Chittorgarh ,RSPCB Chittorgarh** a sample of **Source Emission (Stack) of M/S J.K Cement Works, Mangrol , Plant - Mangrol [735] ,Village Mangrol , City- Tilakhera and Mangrol Tehsil- Nimbahera , District- Chittorgarh M.L No- ML-26108** Collected from **Stack of Coal mill-3 attached with bag house**. Collected on **07/07/2022**. The Sample was in a condition fit for analysis as reported below :-

I further certify that I have analyzed the aforementioned sample on **15/07/2022** and declare the result of the analysis to be as below :-

S. No.	Parameters	Result
1	Particulate Matter mg/Nm ³	14.48

The condition of the seals, fastening and container on receipt was as follows : **Intact**

Signed This On **15/07/2022**


BOARD ANALYST

Rajasthan State Pollution Control Board
Regional Office Chittorgarh
Near FCI Godown, Chanderia, Chittorgarh
Phone:01472-255077

FORM - X
RAJASTHAN STATE POLLUTION CONTROL BOARD
REPORT OF THE STATE BOARD ANALYST
(See Rule - 10)
Final Report

Report No. : **2159**

Report On : **15/07/2022**

I hereby certify that I **Dr Giriraj Kumar Songara**, State Board Analyst duly appointed under sub Section(2) of Section 29 of the Air (Prevention & Control of Pollution) Act, 1981 received on the **11/07/2022** from **Bhupendra Kumar Soni, SO, Chittorgarh ,RSPCB Chittorgarh** a sample of **Source Emission (Stack)** of **M/S J.K Cement Works, Mangrol , Plant - Mangrol [735] ,Village Mangrol , City- Tilakhera and Mangrol Tehsil- Nimbahera , District- Chittorgarh M.L No- ~~ML-26108~~** Collected from **Stack of Raw mill klin line-1 attached with bag house.** Collected on **07/07/2022**. The Sample was in a condition fit for analysis as reported below :-

I further certify that I have analyzed the aforementioned sample on **15/07/2022** and declare the result of the analysis to be as below :-

S. No.	Parameters	Result
1	Particulate Matter mg/Nm ³	12.43

The condition of the seals, fastening and container on receipt was as follows : **Intact**

Signed This On **15/07/2022**


BOARD ANALYST

Rajasthan State Pollution Control Board
Regional Office Chittorgarh
Near FCI Godown, Chanderia, Chittorgarh
Phone:01472-255077

FORM - X
RAJASTHAN STATE POLLUTION CONTROL BOARD
REPORT OF THE STATE BOARD ANALYST
(See Rule - 10)
Final Report

Report No. : **2160**

Report On : **15/07/2022**


I hereby certify that I **Dr Giriraj Kumar Songara**, State Board Analyst duly appointed **under sub Section(2) of Section 29 of the Air (Prevention & Control of Pollution) Act, 1981** received on the **11/07/2022** from **Bhupendra Kumar Soni, SO, Chittorgarh ,RSPCB Chittorgarh** a sample of **Source Emission (Stack) of M/S J.K Cement Works, Mangrol , Plant - Mangrol [735] ,Village Mangrol , City- Tilakhera and Mangrol Tehsil- Nimbahera , District- Chittorgarh M.L No- ML-26108** Collected from **Stack of packing plant-2 Line 2 attached with bag filter.** Collected on **08/07/2022**. The Sample was in a condition fit for analysis as reported below :-

I further certify that I have analyzed the aforementioned sample on **15/07/2022** and declare the result of the analysis to be as below :-

S. No.	Parameters	Result
1	Particulate Matter mg/Nm ³	10.40

The condition of the seals, fastening and container on receipt was as follows : **Intact**

Signed This On **15/07/2022**


BOARD ANALYST

Rajasthan State Pollution Control Board
Regional Office Chittorgarh
Near FCI Godown, Chanderia, Chittorgarh
Phone:01472-255077

FORM - X
RAJASTHAN STATE POLLUTION CONTROL BOARD
REPORT OF THE STATE BOARD ANALYST
(See Rule - 10)
Final Report

Report No. : **2161**

Report On : **15/07/2022**

I hereby certify that I **Dr Giriraj Kumar Songara**, State Board Analyst duly appointed under sub **Section(2)** of **Section 29** of the **Air (Prevention & Control of Pollution) Act, 1981** received on the **11/07/2022** from **Bhupendra Kumar Soni, SO, Chittorgarh ,RSPCB Chittorgarh** a sample of **Source Emission (Stack)** of **M/S J.K Cement Works, Mangrol , Plant - Mangrol [735] ,Village Mangrol , City- Tilakhera and Mangrol Tehsil- Nimbahera , District- Chittorgarh M.L No ~~ML-26108~~**. Collected from **Stack of packing plant-3 Line 2 attached with bag filter.** Collected on **08/07/2022**. The Sample was in a condition fit for analysis as reported below :-

I further certify that I have analyzed the aforementioned sample on **15/07/2022** and declare the result of the analysis to be as below :-

S. No.	Parameters	Result
1	Particulate Matter mg/Nm ³	12.79

The condition of the seals, fastening and container on receipt was as follows : **Intact**

Signed This On **15/07/2022**


BOARD ANALYST

Rajasthan State Pollution Control Board
Regional Office Chittorgarh
Near FCI Godown, Chanderia, Chittorgarh
Phone:01472-255077

FORM - X
RAJASTHAN STATE POLLUTION CONTROL BOARD
REPORT OF THE STATE BOARD ANALYST
(See Rule - 10)
Final Report

Report No. : **2162**

Report On : **15/07/2022**

I hereby certify that I **Dr Giriraj Kumar Songara**, State Board Analyst duly appointed **under sub Section(2) of Section 29 of the Air (Prevention & Control of Pollution) Act, 1981** received on the **11/07/2022** from **Bhupendra Kumar Soni, SO, Chittorgarh ,RSPCB Chittorgarh** a sample of **Source Emission (Stack) of M/S J.K Cement Works, Mangrol , Plant - Mangrol [735] ,Village Mangrol , City- Tilakhera and Mangrol Tehsil- Nimbahera , District- Chittorgarh M.L No- ML-26108.** Collected from **Stack of packing plant-4 Line 2 attached with bag filter.** Collected on **08/07/2022.** The Sample was in a condition fit for analysis as reported below :-

I further certify that I have analyzed the aforementioned sample on **15/07/2022** and declare the result of the analysis to be as below :-

S. No.	Parameters	Result
1	Particulate Matter mg/Nm ³	25.07

The condition of the seals, fastening and container on receipt was as follows : **Intact**

Signed This On **15/07/2022**


BOARD ANALYST

Rajasthan State Pollution Control Board
Regional Office Chittorgarh
Near FCI Godown, Chanderia, Chittorgarh
Phone:01472-255077

FORM - X
RAJASTHAN STATE POLLUTION CONTROL BOARD
REPORT OF THE STATE BOARD ANALYST
(See Rule - 10)
Final Report

Report No. : **2163**

Report On : **15/07/2022**

I hereby certify that I **Dr Giriraj Kumar Songara**, State Board Analyst duly appointed under sub Section(2) of Section 29 of the Air (Prevention & Control of Pollution) Act, 1981 received on the **11/07/2022** from **Bhupendra Kumar Soni, SO, Chittorgarh ,RSPCB Chittorgarh** a sample of Source Emission (Stack) of **M/S J.K Cement Works, Mangrol , Plant - Mangrol [735] ,Village Mangrol , City- Tilakhera and Mangrol Tehsil- Nimbahera , District- Chittorgarh** ~~M.L No- ML-26108~~ Collected from **Stack of packing plant-1 Line 2 attached with bag filter.** Collected on **08/07/2022**. The Sample was in a condition fit for analysis as reported below :-

I further certify that I have analyzed the aforementioned sample on **15/07/2022** and declare the result of the analysis to be as below :-

S. No.	Parameters	Result
1	Particulate Matter mg/Nm ³	12.56

The condition of the seals, fastening and container on receipt was as follows : **Intact**

Signed This On **15/07/2022**


BOARD ANALYST

Rajasthan State Pollution Control Board
Regional Office Chittorgarh
Near FCI Godown, Chanderia, Chittorgarh
Phone:01472-255077

J.K. Cement WORKS, MANGROL (RAJ) (Unit-1)									
DATA SHEET FOR PARTICULATE MATTER EMISSION FROM POINT SOURCE									
April" 2022 - September" 2022									
DATE	NAME OF THE STACK / DUCT ATTACHED WITH UNIT AND MONTH	CROSS SECTIONAL AREA OF DUCT (M2)	STACK GASES TEMP. (⁰ K)	STACK GASES VELOCITY (M / Sec.)	FLOW OF GASES IN STACK (NM ³ /Sec.)	DUST CONC. (Mg/NM ³)	MEAN DUST CONC. (Mg/NM ³)	EMISSION RATE (Ts/DAY)	REMARK
	April" 2022								
04.04.2022	KILN + RAW MILL (BH)	5.23	386	16.26	65.65	15.1	10.6	0.086	
13.04.2022	KILN + RAW MILL (BH)	5.23	391	15.70	62.58	8.2		0.044	
21.04.2022	KILN + RAW MILL (BH)	5.23	376	14.67	60.81	11.7		0.061	
28.04.2022	KILN + RAW MILL (BH)	5.23	402	14.00	54.28	7.4		0.035	
	May" 2022								
05.05.2022	KILN + RAW MILL (BH)	5.23	422	14.11	52.11	18.2	13.8	0.082	
10.05.2022	KILN + RAW MILL (BH)	5.23	425	14.68	53.83	9.4		0.044	
17.05.2022	KILN + RAW MILL (BH)	5.23	406	13.50	51.82	16.4		0.073	
26.05.2022	KILN + RAW MILL (BH)	5.23	399	14.75	57.62	11.0		0.055	
	June" 2022								
05.05.2022	KILN + RAW MILL (BH)	5.23	424	14.72	54.11	8.0	9.7	0.051	
10.05.2022	KILN + RAW MILL (BH)	5.23	430	15.48	56.11	14.4		0.035	
17.05.2022	KILN + RAW MILL (BH)	5.23	417	15.50	57.93	10.5		0.056	
26.05.2022	KILN + RAW MILL (BH)	5.23	435	16.05	57.50	6.0		0.048	
	July" 2022								
07.07.2022	KILN + RAW MILL (BH)	5.23	411	16.44	62.34	9.4	8.6	0.046	
13.07.2022	KILN + RAW MILL (BH)	5.23	397	16.25	63.79	6.4		0.066	
22.07.2022	KILN + RAW MILL (BH)	5.23	391	16.22	64.65	10.1		0.035	
30.07.2022	KILN + RAW MILL (BH)	5.23	415	17.14	64.37	8.6		0.057	
	August" 2022								
STOP	KILN + RAW MILL (BH)	STOP					STOP	STOP	
	KILN + RAW MILL (BH)								
	KILN + RAW MILL (BH)								
	KILN + RAW MILL (BH)								
	September" 2022								
STOP	KILN + RAW MILL (BH)	STOP					9.1	STOP	
14.09.2022	KILN + RAW MILL (BH)	5.23	415	15.05	56.52	9.1		0.044	
21.09.2022	KILN + RAW MILL (BH)	5.23	402	14.97	58.04	8.4		0.042	
30.09.2022	KILN + RAW MILL (BH)	5.23	421	15.63	57.86	9.8		0.049	

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	April" 2022								
STOP	CEMENT MILL No.-1 (B.F.)	Mill Not in operation							
	CEMENT MILL No.-1 (B.F.)								
	CEMENT MILL No.-1 (B.F.)								
	CEMENT MILL No.-1 (B.F.)								
	May" 2022								
STOP	CEMENT MILL No.-1 (B.F.)	Mill Not in operation							
	CEMENT MILL No.-1 (B.F.)								
	CEMENT MILL No.-1 (B.F.)								
	CEMENT MILL No.-1 (B.F.)								
	June" 2022								
STOP	CEMENT MILL No.-1 (B.F.)	Mill Not in operation							
	CEMENT MILL No.-1 (B.F.)								
	CEMENT MILL No.-1 (B.F.)								
	CEMENT MILL No.-1 (B.F.)								
	July" 2022								
STOP	CEMENT MILL No.-1 (B.F.)	Mill Not in operation							
	CEMENT MILL No.-1 (B.F.)								
	CEMENT MILL No.-1 (B.F.)								
	CEMENT MILL No.-1 (B.F.)								
	August" 2022								
STOP	CEMENT MILL No.-1 (B.F.)	Mill Not in operation							
	CEMENT MILL No.-1 (B.F.)								
	CEMENT MILL No.-1 (B.F.)								
	CEMENT MILL No.-1 (B.F.)								
	September" 2022								
STOP	CEMENT MILL No.-1 (B.F.)	Mill Not in operation							
	CEMENT MILL No.-1 (B.F.)								
	CEMENT MILL No.-1 (B.F.)								
	CEMENT MILL No.-1 (B.F.)								

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	April" 2022								
05.04.2022	Crusher (B.F.)	0.38	310	13.01	4.75	11.9	11.8	0.005	
12.04.2022	Crusher (B.F.)	0.38	315	12.26	4.41	9.4		0.004	
20.04.2022	Crusher (B.F.)	0.38	322	13.07	4.60	18.7		0.007	
26.04.2022	Crusher (B.F.)	0.38	313	13.74	4.97	7.1		0.003	
	May" 2022								
06.05.2022	Crusher (B.F.)	0.38	339	12.62	4.22	11.6	9.4	0.004	
14.05.2022	Crusher (B.F.)	0.38	342	13.23	4.38	6.9		0.003	
20.05.2022	Crusher (B.F.)	0.38	330	12.35	4.24	10.6		0.004	
30.05.2022	Crusher (B.F.)	0.38	335	12.99	4.39	8.5		0.003	
	June" 2022								
03.06.2022	Crusher (B.F.)	0.38	327	9.42	3.26	16.9	13.7	0.005	
10.06.2022	Crusher (B.F.)	0.38	334	9.84	3.34	8.5		0.002	
18.06.2022	Crusher (B.F.)	0.38	336	9.41	3.17	14.3		0.004	
24.06.2022	Crusher (B.F.)	0.38	329	10.33	3.56	15.2		0.005	
	July" 2022								
02.07.2022	Crusher (B.F.)	0.38	334	10.29	3.49	11.6	10.9	0.003	
12.07.2022	Crusher (B.F.)	0.38	322	10.46	3.68	9.9		0.003	
19.07.2022	Crusher (B.F.)	0.38	331	10.12	3.46	14.3		0.004	
26.07.2022	Crusher (B.F.)	0.38	327	9.87	3.42	7.9		0.002	
	August" 2022								
03.08.2022	Crusher (B.F.)	0.38	329	9.44	3.25	13.3	11.8	0.004	
13.08.2022	Crusher (B.F.)	0.38	335	9.86	3.33	8.0		0.002	
21.08.2022	Crusher (B.F.)	0.38	337	9.42	3.17	12.7		0.003	
30.08.2022	Crusher (B.F.)	0.38	331	10.36	3.54	10.2		0.003	
	September" 2022								
STOP	Crusher (B.F.)	0.38					8.1	STOP	
12.09.2022	Crusher (B.F.)	0.38	334	10.04	3.40	8.0		0.002	
19.09.2022	Crusher (B.F.)	0.38	336	10.80	3.64	10.6		0.003	
26.09.2022	Crusher (B.F.)	0.38	338	11.25	3.77	5.8		0.002	

J.K. Cement WORKS, MANGROL (RAJ) (Unit-2)
DATA SHEET FOR PARTICULATE MATTER EMISSION FROM POINT SOURCE
April" 2022 - September" 2022

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[illegible]

[illegible]

	April" 2022							
01.04.2022	CEMENT MILL (B.F.)	6.60	364.00	13.75	89.25	16.1	12.2	0.124
10.04.2022	CEMENT MILL (B.F.)	6.60	356.00	13.34	85.46	9.5		0.070
20.04.2022	CEMENT MILL (B.F.)	6.60	347.00	13.81	87.90	12.4		0.094
27.04.2022	CEMENT MILL (B.F.)	6.60	360.00	14.31	92.28	10.9		0.087
	May" 2022							
06.05.2022	CEMENT MILL (B.F.)	6.60	346.00	11.66	73.98	18.5	13.7	0.118
11.05.2022	CEMENT MILL (B.F.)	6.60	337.00	12.00	75.65	9.9		0.065
20.05.2022	CEMENT MILL (B.F.)	6.60	340.00	10.99	68.62	14.1		0.084
28.05.2022	CEMENT MILL (B.F.)	6.60	351.00	11.46	71.78	12.2		0.076
	June" 2022							
06.06.2022	CEMENT MILL (B.F.)	6.60	361.00	13.49	83.96	9.9	10.7	0.072
10.06.2022	CEMENT MILL (B.F.)	6.60	366.00	13.94	87.59	14.1		0.107
21.06.2022	CEMENT MILL (B.F.)	6.60	359.00	13.55	83.54	11.5		0.083
27.06.2022	CEMENT MILL (B.F.)	6.60	368.00	14.17	87.92	7.1		0.054
	July" 2022							
05.07.2022	CEMENT MILL (B.F.)	6.60	359.00	12.39	80.16	14.3	11.8	0.099
14.07.2022	CEMENT MILL (B.F.)	6.60	350.00	11.96	76.87	17.6		0.117
20.07.2022	CEMENT MILL (B.F.)	6.60	364.00	12.75	83.04	8.3		0.060
27.07.2022	CEMENT MILL (B.F.)	6.60	356.00	12.45	79.50	7.1		0.049
	August" 2022							
02.08.2022	CEMENT MILL (B.F.)	6.60	358.00	12.86	82.12	6.8	10.4	0.048
10.08.2022	CEMENT MILL (B.F.)	6.60	364.00	13.34	86.59	11.2		0.084
19.08.2022	CEMENT MILL (B.F.)	6.60	355.00	12.96	83.85	15.3		0.111
31.08.2022	CEMENT MILL (B.F.)	6.60	362.00	13.61	88.64	8.3		0.064
	September" 2022							
03.09.2022	CEMENT MILL (B.F.)	6.60	352.00	13.32	85.61	8.1	9.2	0.060
08.09.2022	CEMENT MILL (B.F.)	6.60	341.00	13.40	86.41	11.8		0.088
20.09.2022	CEMENT MILL (B.F.)	6.60	354.00	13.56	86.59	10.1		0.076
28.09.2022	CEMENT MILL (B.F.)	6.60	359.00	14.00	90.88	6.7		0.053

	April" 2022								
07.04.2022	CRUSHER BAG FILTER	1.23	354.00	14.89	18.07	22.3	15.6	0.035	
12.04.2022	CRUSHER BAG FILTER	1.23	351.00	14.78	17.82	19.2		0.030	
18.04.2022	CRUSHER BAG FILTER	1.23	364.00	15.60	18.50	7.4		0.012	
29.04.2022	CRUSHER BAG FILTER	1.23	366.00	15.32	18.41	13.4		0.021	
	May" 2022								
03.05.2022	CRUSHER BAG FILTER	1.23	342	11.82	14.35	17.40	13.6	0.022	
14.05.2022	CRUSHER BAG FILTER	1.23	349.00	11.66	14.06	9.6		0.012	
21.05.2022	CRUSHER BAG FILTER	1.23	336.00	10.92	12.79	15.4		0.017	
27.05.2022	CRUSHER BAG FILTER	1.23	332.00	12.23	14.23	12.0		0.015	
	June" 2022								
06.06.2022	CRUSHER BAG FILTER	1.23	336.00	13.31	16.15	20.2	17.8	0.028	
11.06.2022	CRUSHER BAG FILTER	1.23	327.00	12.93	15.59	14.8		0.020	
21.06.2022	CRUSHER BAG FILTER	1.23	331.00	13.44	15.49	23.3		0.031	
29.06.2022	CRUSHER BAG FILTER	1.23	345.00	14.10	16.36	12.8		0.018	
	July" 2022								
STOP	CRUSHER BAG FILTER	STOP					8.2	STOP	
	CRUSHER BAG FILTER								
	CRUSHER BAG FILTER								
30.07.2022	CRUSHER BAG FILTER	1.23	321.00	11.82	14.11	8.2		0.010	
	August" 2022								
04.08.2022	CRUSHER BAG FILTER	1.23	330	12.60	15.09	12.20	10.8	0.016	
13.08.2022	CRUSHER BAG FILTER	1.23	326.00	12.32	14.61	9.3		0.012	
STOP	CRUSHER BAG FILTER	STOP						STOP	
	CRUSHER BAG FILTER								
	September" 2022								
02.09.2022	CRUSHER BAG FILTER	1.23	351.00	15.45	18.75	10.8	11.6	0.017	
13.09.2022	CRUSHER BAG FILTER	1.23	346.00	14.63	17.64	7.2		0.011	
20.09.2022	CRUSHER BAG FILTER	1.23	361.00	14.19	16.78	16.8		0.024	
28.09.2022	CRUSHER BAG FILTER	1.23	364.00	14.63	17.19	11.5		0.017	

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	April" 2022							
01.04.2022	PACKER -2 BAG FILTER	0.79	325.00	11.63	8.95	19.2	15.3	0.015
09.04.2022	PACKER -2 BAG FILTER	0.79	332.00	11.15	8.52	10.8		0.008
19.04.2022	PACKER -2 BAG FILTER	0.79	323.00	11.33	8.58	16.6		0.012
26.04.2022	PACKER -2 BAG FILTER	0.79	337.00	12.27	9.47	14.7		0.012
	May" 2022							
04.05.2022	PACKER -2 BAG FILTER	0.79	341.00	10.94	8.26	17.9	12.7	0.013
10.05.2022	PACKER -2 BAG FILTER	0.79	345.00	11.53	8.62	9.1		0.007
19.05.2022	PACKER -2 BAG FILTER	0.79	350.00	12.18	9.07	13.4		0.011
30.05.2022	PACKER -2 BAG FILTER	0.79	354.00	12.03	9.02	10.5		0.008
	June" 2022							
02.06.2022	PACKER -2 BAG FILTER	0.79	332.00	12.54	9.28	8.6	11.9	0.007
10.06.2022	PACKER -2 BAG FILTER	0.79	336.00	12.81	9.36	13.1		0.011
21.06.2022	PACKER -2 BAG FILTER	0.79	340.00	12.43	9.14	15.9		0.013
29.06.2022	PACKER -2 BAG FILTER	0.79	346.00	13.16	9.71	10.0		0.008
	July" 2022							
06.07.2022	PACKER -2 BAG FILTER	0.79	334.00	12.06	9.10	9.6	8.6	0.008
14.07.2022	PACKER -2 BAG FILTER	0.79	339.00	12.62	9.55	10.2		0.008
19.07.2022	PACKER -2 BAG FILTER	0.79	343.00	13.10	9.98	5.4		0.005
28.07.2022	PACKER -2 BAG FILTER	0.79	335.00	12.23	9.17	9.2		0.007
	August" 2022							
04.08.2022	PACKER -2 BAG FILTER	0.79	332.00	12.59	9.53	6.8	9.1	0.006
09.08.2022	PACKER -2 BAG FILTER	0.79	337.00	12.98	9.76	12.9		0.011
20.08.2022	PACKER -2 BAG FILTER	0.79	340.00	12.58	9.43	9.4		0.008
26.09.2022	PACKER -2 BAG FILTER	0.79	347.00	13.32	10.25	7.4		0.007
	September" 2022							
05.09.2022	PACKER -2 BAG FILTER	0.79	331.00	13.40	10.18	9.6	7.4	0.008
14.09.2022	PACKER -2 BAG FILTER	0.79	326.00	13.15	9.89	6.2		0.005
19.09.2022	PACKER -2 BAG FILTER	0.79	335.00	12.44	9.48	8.2		0.007
26.09.2022	PACKER -2 BAG FILTER	0.79	337.00	13.03	9.83	5.7		0.005

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[illegible]

J.K. Cement WORKS, MANGROL (RAJ) (Unit-3)
DATA SHEET FOR PARTICULATE MATTER EMISSION FROM POINT SOURCE
April" 2022 - September" 2022

[illegible]

	September" 2022						9.4		
06.09.2022	KILN No.3 BAG HOUSE	12.56	407	14.63	134.54	11.2		0.130	
12.09.2022	KILN No.3 BAG HOUSE	12.56	395	14.73	139.58	7.9		0.095	
20.09.2022	KILN No.3 BAG HOUSE	12.56	414	15.40	139.23	9.7		0.117	
30.09.2022	KILN No.3 BAG HOUSE	12.56	402	14.27	132.86	8.7		0.100	
	April" 2022						14.6		
05.04.2022	CLINKER COOLER (ESP)-3	9.61	392	12.07	112.96	15.3		0.149	
13.04.2022	CLINKER COOLER (ESP)-3	9.61	381	12.26	113.62	13.9		0.136	
STOP	CLINKER COOLER (ESP)-3	STOP						STOP	
	CLINKER COOLER (ESP)-3								
	May" 2022						16.7		
06.05.2022	CLINKER COOLER (ESP)-3	9.61	394	12.03	111.13	15.6		0.150	
13.05.2022	CLINKER COOLER (ESP)-3	9.61	380	10.43	95.73	19.4		0.160	
21.05.2022	CLINKER COOLER (ESP)-3	9.61	410	11.88	108.01	17.6		0.164	
30.05.2022	CLINKER COOLER (ESP)-3	9.61	405	12.33	112.81	14.1		0.137	
	June" 2022						12.8		
01.06.2022	CLINKER COOLER (ESP)-3	9.61	401	12.58	114.37	14.0		0.138	
08.06.2022	CLINKER COOLER (ESP)-3	9.61	404	12.44	111.33	8.8		0.085	
21.06.2022	CLINKER COOLER (ESP)-3	9.61	399	12.97	117.17	16.0		0.162	
28.06.2022	CLINKER COOLER (ESP)-3	9.61	411	13.40	120.30	12.5		0.130	
	July" 2022						9.9		
05.07.2022	CLINKER COOLER (ESP)-3	9.61	395	13.31	124.57	7.8		0.084	
12.07.2022	CLINKER COOLER (ESP)-3	9.61	400	13.80	128.73	10.3		0.115	
20.07.2022	CLINKER COOLER (ESP)-3	9.61	396	12.92	121.71	12.7		0.134	
25.07.2022	CLINKER COOLER (ESP)-3	9.61	404	13.29	122.38	8.6		0.091	
	August" 2022						8.2		
01.08.2022	CLINKER COOLER (ESP)-3	9.61	402	12.60	117.92	10.8		0.110	
12.08.2022	CLINKER COOLER (ESP)-3	9.61	405	12.39	115.58	9.1		0.091	
18.08.2022	CLINKER COOLER (ESP)-3	9.61	400	12.99	122.77	4.8		0.051	
STOP	CLINKER COOLER (ESP)-3	STOP						STOP	
	September" 2022						10.4		
06.09.2022	CLINKER COOLER (ESP)-3	9.61	382	12.46	115.48	12.6		0.126	
12.09.2022	CLINKER COOLER (ESP)-3	9.61	387	12.05	113.51	7.0		0.069	
20.09.2022	CLINKER COOLER (ESP)-3	9.61	365	12.91	122.02	11.2		0.118	
30.09.2022	CLINKER COOLER (ESP)-3	9.61	375	12.75	118.94	10.6		0.109	

[illegible]

25 MW THERMAL POWER PLANT

CPP BOILER ESP

DATE	NAME OF THE STACK	CROSS SECTIONAL AREA OF DUCT (M ²)	STACK GASES TEMP. (K)	STACK GASES VELOCITY (M / Sec.)	FLOW OF GASES IN STACK (NM ³ / Sec.)	DUST CONC. (Mg/ NM3)	MEAN DUST CONC. (Mg/ NM3)	EMISSION RATE (Ts/ DAY)	REMARKS
Apr-22	BOILER ESP	STOP					STOP	STOP	
May-22		10.69	397	13.56	137.57	17.8	17.8	0.212	
Jun-22		STOP					STOP	STOP	
Jul-22		STOP					STOP	STOP	
Aug-22		STOP					STOP	STOP	
Sep-22		STOP					STOP	STOP	

25 MW THERMAL POWER PLANT

CPP COAL CRUSHER

DATE	NAME OF THE STACK	CROSS SECTION AL AREA OF DUCT (M ²)	STACK GASES TEMP. (K)	STACK GASES VELOCITY (M / Sec.)	FLOW OF GASES IN STACK (NM ³ / Sec.)	DUST CONC. (Mg/ NM3)	MEAN DUST CONC. (Mg/ NM3)	EMISSION RATE (Ts/ DAY)	REMARKS
Apr-22	COAL CRUSHER BAG FILTER	STOP					STOP	STOP	
May-22		0.496	334	10.26	4.80	14.9	14.9	0.006	
Jun-22		STOP					STOP	STOP	
Jul-22		STOP					STOP	STOP	
Aug-22		STOP					STOP	STOP	
Sep-22		STOP					STOP	STOP	

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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/22/04982/019
Issued Date : 2022/07/07
P.O. Number : 4600082693
P.O. Date : 03/06/2022

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SAMPLE PARTICULARS : Stack Connected to Bag House Kiln-I

Sample Registration Date : 2022/06/27 Sample Collection Date : 2022/06/21
Analysis Starting Date : 2022/06/27 Analysis Completion Date : 2022/07/07
Test Required : O₂, PM, SO₂, NO_x, HCl, HF, CO, CO₂ and TOC.
Sample Collected by Vimta Labs Ltd.

TEST REPORT

Sr.No.	Parameters	UoM	Method of Testing	Results	Limits as per MoE, F & CC Notification GSR 497(E)
1	Diameter of stack	m	-	2.6	--
2	Flue gas temperature	°C	-	125	--
3	Fuel	-	Coal+ pet coke+ co-processing of waste	--	--
4	Oxygen as O ₂	%	Flue Gas Analyzer	11.3	--
5	Velocity	m/sec	USEPA Method- 3	16.1	--
6	Volumetric flow rate	Nm ³ /Sec		62.74	--
7	Carbon Monoxide as CO	mg/Nm ³	Combustion Flue Gas Analyzer	59	<100.0
8	Carbon Dioxide as CO ₂	%		14.8	--
9	Sulphur Dioxide	mg/Nm ³		33	<100.0
10	Oxides of Nitrogen, NO _x as NO ₂	mg/Nm ³		610	<800.0
11	Particulate Matter	mg/Nm ³	USEPA method-5	6.06	<30.0
12	Hydrogen Chloride as HCl	mg/Nm ³	USEPA method -26	3.6	<10.0
13	Hydrogen Fluoride as HF	mg/Nm ³	USEPA method -13	0.62	<1.0
14	Total Organic Compounds as TOC	mg/Nm ³	USEPA method -40 & MM5(10)	3.2	<10.0

All the Values are represented at 10% O₂

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SAMPLE PARTICULARS : Stack Connected to Bag House Kiln-I

Sample Registration Date : 2022/06/27 Sample Collection Date : 2022/06/21
Analysis Starting Date : 2022/06/27 Analysis Completion Date : 2022/07/07
Test Required : Hg & its compounds, Cd + Tl its compounds, Sb+ As+ Pb+ Co+ Cr+
Cu+ Mn+ Ni+ V+ Their compounds
Sample Collected by Vimta Labs Ltd.

TEST REPORT

Sr. No.	Parameters	UoM	Method of Testing	Results	Limits as per MoE, F&CC Notification GSR 497(E)
1	Mercury as Hg + their Compound	mg/Nm ³	USEPA method -29	<0.001	<0.05
2	Cadmium + Thallium (Cd + Tl) + their Compound			<0.001	<0.05
3	Chromium as Cr + their Compound			0.018	--
	Manganese as Mn + their Compound			0.016	
	Arsenic as As + their Compound			0.019	
	Antimony as Sb + their Compound			0.011	
	Lead as Pb + their Compound			0.021	
	Cobalt as Co + their Compound			0.012	
	Copper as Cu + their Compound			0.015	
	Nickel as Ni + their Compound			0.022	
	Vanadium as V + their Compound			0.007	
	Sb+ As+ Pb+ Co+ Cr+ Cu+ Mn+ Ni+ V+ Their compounds			0.141	<0.5

Instruments used: GC-FID, ICP-MS, Cold Vapor AAS and GC-MS
All the values are represented at 10% O₂



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SAMPLE PARTICULARS : Stack Connected to Bag House Kiln-I

Sample Registration Date	: 2022/06/27	Sample Collection Date	: 2022/06/21
Analysis Starting Date	: 2022/06/27	Analysis Completion Date	: 2022/07/07
Test Required	: PCDD & PCDF		
Sample Collected by Vimta Labs Ltd.			

TEST REPORT

Sr.No.	Parameters	UoM	Results
1	1,2,3,4,6,7,8-HpCDD	ng/Nm ³ , TEQ	0.0011
2	1,2,3,4,6,7,8-HpCDF		0.0008
3	1,2,3,4,7,8,9-HpCDF		0.0042
4	1,2,3,4,7,8-HxCDD		0.0016
5	1,2,3,4,7,8-HxCDF		0.0001
6	1,2,3,6,7,8-HxCDD		0.0010
7	1,2,3,6,7,8-HxCDF		0.0002
8	1,2,3,7,8,9-HxCDD		0.0012
9	1,2,3,7,8,9-HxCDF		0.0001
10	1,2,3,7,8-PeCDD		0.0003
11	1,2,3,7,8-PeCDF		0.0004
12	2,3,4,6,7,8-HxCDF		0.0006
13	2,3,4,7,8-PeCDF		0.0014
14	2,3,7,8-TCDD		0.0004
15	2,3,4,7,8-TCDF		0.0001
16	OCDD		0.00001
17	OCDF		0.00001
Total Furans & Dioxins		ng/Nm³, TEQ	0.0134
Total Furans & Dioxins		ng/Nm³, TEQ Corrected to 10% O₂ Concentration	0.0152
Limits as per MoE, F & CC Notification GSR 497(E)			<0.1

Method of Testing: As per USEPA 23 A & 8290

Instruments used: Auto spec Premier (HRGC/HRMS). Detection Limit: 0.01pg


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SAMPLE PARTICULARS : Stack Connected to Bag House Kiln-II

Sample Registration Date : 2022/06/27 Sample Collection Date : 2022/06/22
Analysis Starting Date : 2022/06/27 Analysis Completion Date : 2022/07/07
Test Required : O₂, PM, SO₂, NO_x, HCl, HF, CO, CO₂ and TOC.
Sample Collected by Vimta Labs Ltd.

TEST REPORT

Sr.No.	Parameters	UoM	Method of Testing	Results	Limits as per MoE, F & CC Notification GSR 497(E)
1	Diameter of stack	m	-	4.25	--
2	Flue gas temperature	°C	-	128	--
3	Fuel	-	Coal+ pet coke+ co-processing of waste	--	--
4	Oxygen as O ₂	%	Flue Gas Analyzer	9	--
5	Velocity	m/sec	USEPA Method- 3	14.6	--
6	Volumetric flow rate	Nm ³ /Sec		152.02	--
7	Carbon Monoxide as CO	mg/Nm ³	Combustion Flue Gas Analyzer	69	<100.0
8	Carbon Dioxide as CO ₂	%		12	--
9	Sulphur Dioxide	mg/Nm ³		30	<100.0
10	Oxides of Nitrogen, NO _x as NO ₂	mg/Nm ³		551	<800.0
11	Particulate Matter	mg/Nm ³	USEPA method-5	8.6	<30.0
12	Hydrogen Chloride as HCl	mg/Nm ³	USEPA method -26	4.2	<10.0
13	Hydrogen Fluoride as HF	mg/Nm ³	USEPA method -13	0.58	<1.0
14	Total Organic Compounds as TOC	mg/nm ³	USEPA method -40 & MM5(10)	6.4	<10.0

All the Values are represented at 10% O₂



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SAMPLE PARTICULARS : Stack Connected to Bag House Kiln-II

Sample Registration Date : 2022/06/27 Sample Collection Date : 2022/06/22
Analysis Starting Date : 2022/06/27 Analysis Completion Date : 2022/07/07
Test Required : Hg & its compounds, Cd + Tl its compounds, Sb+ As+ Pb+ Co+ Cr+
Cu+ Mn+ Ni+ V+ Their compounds
Sample Collected by Vimta Labs Ltd.

TEST REPORT

Sr. No.	Parameters	UoM	Method of Testing	Results	Limits as per MoE, F&CC Notification GSR 497(E)
1	Mercury as Hg + their Compound	mg/Nm ³	USEPA method -29	<0.001	<0.05
2	Cadmium + Thallium (Cd + Tl) + their Compound			<0.001	<0.05
3	Chromium as Cr + their Compound			0.019	--
	Manganese as Mn + their Compound			0.017	
	Arsenic as As + their Compound			0.009	
	Antimony as Sb + their Compound			0.022	
	Lead as Pb + their Compound			0.020	
	Cobalt as Co + their Compound			0.012	
	Copper as Cu + their Compound			0.016	
	Nickel as Ni + their Compound			0.013	
	Vanadium as V + their Compound			0.022	
	Sb+ As+ Pb+ Co+ Cr+ Cu+ Mn+ Ni+ V+ Their compounds			0.150	<0.5

Instruments used: GC-FID, ICP-MS, Cold Vapor AAS and GC-MS
All the values are represented at 10% O₂


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SAMPLE PARTICULARS : Stack Connected to Bag House Kiln-II

Sample Registration Date : 2022/06/27 Sample Collection Date : 2022/06/22
Analysis Starting Date : 2022/06/27 Analysis Completion Date : 2022/07/07
Test Required : PCDD & PCDF
Sample Collected by Vimta Labs Ltd.

TEST REPORT

Sr.No.	Parameters	UoM	Results
1	1,2,3,4,6,7,8-HpCDD	ng/Nm ³ , TEQ	0.0011
2	1,2,3,4,6,7,8-HpCDF		0.0008
3	1,2,3,4,7,8,9-HpCDF		0.0042
4	1,2,3,4,7,8-HxCDD		0.0016
5	1,2,3,4,7,8-HxCDF		0.0001
6	1,2,3,6,7,8-HxCDD		0.0010
7	1,2,3,6,7,8-HxCDF		0.0002
8	1,2,3,7,8,9-HxCDD		0.0012
9	1,2,3,7,8,9-HxCDF		0.0001
10	1,2,3,7,8-PeCDD		0.0003
11	1,2,3,7,8-PeCDF		0.0004
12	2,3,4,6,7,8-HxCDF		0.0006
13	2,3,4,7,8-PeCDF		0.0013
14	2,3,7,8-TCDD		0.0004
15	2,3,4,7,8-TCDF		0.0001
16	OCDD		0.00001
17	OCDF		0.00001
Total Furans & Dioxins		ng/Nm ³ , TEQ	0.0134
Total Furans & Dioxins		ng/Nm ³ , TEQ Corrected to 10% O ₂ Concentration	0.0123
Limits as per MoE, F & CC Notification GSR 497(E)			<0.1

Method of Testing: As per USEPA 23 A & 8290

Instruments used: Auto spec Premier (HRGC/HRMS). Detection Limit: 0.01 pg


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SAMPLE PARTICULARS : Stack Connected to Bag House Kiln-III

Sample Registration Date	: 2022/06/27	Sample Collection Date	: 2022/06/18
Analysis Starting Date	: 2022/06/27	Analysis Completion Date	: 2022/07/07
Test Required	: O ₂ , PM, SO ₂ , NO _x , HCl, HF, CO, CO ₂ and TOC.		
Sample Collected by Vimta Labs Ltd.			

TEST REPORT

Sr.No.	Parameters	UoM	Method of Testing	Results	Limits as per MoE, F & CC Notification GSR 497(E)
1	Diameter of stack	m	-	4.0	--
2	Flue gas temperature	°C	-	104	--
3	Fuel	-	Coal+ pet coke+ co-processing of waste	--	--
4	Oxygen as O ₂	%	Flue Gas Analyzer	7.6	--
5	Velocity	m/sec	USEPA Method- 3	16.8	--
6	Volumetric flow rate	Nm ³ /Sec		154	--
7	Carbon Monoxide as CO	mg/Nm ³	Combustion Flue Gas Analyzer	72	<100.0
8	Carbon Dioxide as CO ₂	%		10.3	--
9	Sulphur Dioxide	mg/Nm ³		43.0	<100.0
10	Oxides of Nitrogen, NO _x as NO ₂	mg/Nm ³		500.9	<600.0
11	Particulate Matter	mg/Nm ³	USEPA method-5	8.8	<30.0
12	Hydrogen Chloride as HCl	mg/Nm ³	USEPA method -26	4.3	<10.0
13	Hydrogen Fluoride as HF	mg/Nm ³	USEPA method -13	0.49	<1.0
14	Total Organic Compounds as TOC	mg/Nm ³	USEPA method -40 & MM5(10)	6.2	<10.0

All the Values are represented at 10% O₂



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SAMPLE PARTICULARS : Stack Connected to Bag House Kiln-III

Sample Registration Date : 2022/06/27 Sample Collection Date : 2022/06/18
Analysis Starting Date : 2022/06/27 Analysis Completion Date : 2022/07/07
Test Required : Hg & its compounds, Cd + TI its compounds, Sb+ As+ Pb+ Co+ Cr+
Cu+ Mn+ Ni+ V+ Their compounds

Sample Collected by Vimta Labs Ltd.

TEST REPORT

Sr. No.	Parameters	UoM	Method of Testing	Results	Limits as per MoE, F&CC Notification GSR 497(E)
1	Mercury as Hg + their Compound	mg/Nm ³	USEPA method -29	<0.001	<0.05
2	Cadmium + Thallium (Cd + TI) + their Compound			<0.001	<0.05
3	Chromium as Cr + their Compound			0.022	--
	Manganese as Mn + their Compound			0.024	
	Arsenic as As + their Compound			0.012	
	Antimony as Sb + their Compound			0.026	
	Lead as Pb + their Compound			0.016	
	Cobalt as Co + their Compound			0.019	
	Copper as Cu + their Compound			0.022	
	Nickel as Ni + their Compound			0.021	
	Vanadium as V + their Compound			0.019	
	Sb+ As+ Pb+ Co+ Cr+ Cu+ Mn+ Ni+ V+ Their compounds			0.181	<0.5

Instruments used: GC-FID, ICP-MS, Cold Vapor AAS and GC-MS
All the values are represented at 10% O₂

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SAMPLE PARTICULARS : Stack Connected to Bag House Kiln-III

Sample Registration Date : 2022/06/27	Sample Collection Date : 2022/06/18
Analysis Starting Date : 2022/06/27	Analysis Completion Date : 2022/07/07
Test Required : PCDD & PCDF	
Sample Collected by Vimta Labs Ltd.	

TEST REPORT

Sr.No.	Parameters	UoM	Results
1	1,2,3,4,6,7,8-HpCDD	ng/Nm ³ , TEQ	0.0029
2	1,2,3,4,6,7,8-HpCDF		0.0026
3	1,2,3,4,7,8,9-HpCDF		0.0040
4	1,2,3,4,7,8-HxCDD		0.0016
5	1,2,3,4,7,8-HxCDF		0.0001
6	1,2,3,6,7,8-HxCDD		0.0010
7	1,2,3,6,7,8-HxCDF		0.0002
8	1,2,3,7,8,9-HxCDD		0.0011
9	1,2,3,7,8,9-HxCDF		0.0001
10	1,2,3,7,8-PeCDD		0.0002
11	1,2,3,7,8-PeCDF		0.0004
12	2,3,4,6,7,8-HxCDF		0.0006
13	2,3,4,7,8-PeCDF		0.0013
14	2,3,7,8-TCDD		0.0004
15	2,3,4,7,8-TCDF		0.0001
16	OCDD		0.00001
17	OCDF		0.00001
Total Furans & Dioxins		ng/Nm ³ , TEQ	0.0168
Total Furans & Dioxins		ng/Nm ³ , TEQ Corrected to 10% O ₂ Concentration	0.0138
Limits as per MoE, F & CC Notification GSR 497(E)			< 0.1

Method of Testing: As per USEPA 23 A & 8290

Instruments used: Auto spec Premier (HRGC/HRMS). Detection Limit: 0.01pg

Dr. SubbaReddy Mallampati
Dy. Manager-Environment.



TEAM TEST HOUSE

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

ANNEXURE-1



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

RSPCB

ISO 9001:2015,

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ISO 45001:2018 (OH&S)

JDA/UDH

Office : E-65, Chitrangan Marg,
C-Scheme, Jaipur - 302001, Rajasthan
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Website : www.teamtesthouse.com
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Sitapura, Jaipur - 302022, Rajasthan
Phone : +91 9460222039, 9460222049,
Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502522400001732	Date :	05-07-2022
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 :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitoring :	20-06-2022
Point of Collection :	Near Time office	Date of Receipt :	28-06-2022
Date of Test/Analysis :	28-06-2022 to 05-07-2022	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	kishan 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	Ammonia [microgram/m3]	BDL (<10.0)	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m3]	270	TTH/AAQM/08	4000
3	Lead [microgram/m3]	0.09	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	12.36	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m3]	BDL (<20.0)	APHA 1977,Part 819	100.00
6	Particulate Matter (PM2.5) [microgram/m3]	37.39	IS 5182 (Part 24) : 2019	60.00
7	Sulphur Dioxide [microgram/m3]	4.94	IS 5182 (Part 2) : 2001 RA 2017	80.00
8	Particulate Matter (PM 10) [microgram/m3]	81.73	IS 5182 (Part 23)-2006 RA 2017	100.00
9	Arsenic [ng/m3]	BDL(<2.0)	IS 5182 (Part 22) : 2004 Reaffirmed 2019	6.00
10	Nickel [ng/m3]	10.1	IS 5182 : Part 26 : 2020	20.00

Notes :-

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Puran Mal Yogi

Rajesh Maheshwar



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

TEST REPORT

Report No./ULR No. :	400001732	Date :	05-07-2022
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 :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitoring :	20-06-2022
Point of Collection :	Near Time office	Date of Receipt :	28-06-2022
Date of Test/Analysis :	28-06-2022 to 05-07-2022	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	kishan 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	Benzene [microgram/m3]	BDL (<1.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
2	Benzo-alfa- Pyrene [ng/m3]	BDL(<0.5)	CPCB Guidelines	1.00

Notes :-

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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwan
Authorized Signatory
(Report No: 400001732)



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

TEST REPORT

Report No./ULR No. :	TC502522400001733	Date :	05-07-2022
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 :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitoring :	20-06-2022
Point of Collection :	Near Thermal Power Plant	Date of Receipt :	28-06-2022
Date of Test/Analysis :	28-06-2022 to 05-07-2022	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	kishan 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	Ammonia [microgram/m3]	BDL (<10.0)	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m3]	260	TTH/AAQM/08	4000
3	Lead [microgram/m3]	0.1	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	12.3	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m3]	BDL (<20.0)	APHA 1977, Part 819	100.00
6	Particulate Matter (PM2.5) [microgram/m3]	27.82	IS 5182 (Part 24) : 2019	60.00
7	Sulphur Dioxide [microgram/m3]	3.16	IS 5182 (Part 2) : 2001 RA 2017	80.00
8	Particulate Matter (PM 10) [microgram/m3]	73.09	IS 5182 (Part 23)-2006 RA 2017	100.00
9	Arsenic [ng/m3]	BDL(<2.0)	IS 5182 (Part 22) : 2004 Reaffirmed 2019	6.00
10	Nickel [ng/m3]	7.6	IS 5182 : Part 26 : 2020	20.00

Notes :-

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Puran
Puran Mal Yogi

Rajesh
Rajesh Maheshwar



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	400001733	Date :	05-07-2022
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 :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitoring :	20-06-2022
Point of Collection :	Near Thermal Power Plant	Date of Receipt :	28-06-2022
Date of Test/Analysis :	28-06-2022 to 05-07-2022	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	kishan 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	Benzene [microgram/m3]	BDL (<1.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
2	Benzo-alfa- Pyrene [ng/m3]	BDL(<0.5)	CPCB Guidelines	1.00

Notes :-

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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwan
Authorized Signatory
(Report No: 400001733)



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Phone : +91 9460222039, 9460222049,
Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502522400001734	Date :	05-07-2022
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 :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitoring :	21-06-2022
Point of Collection :	Near Factory Gate	Date of Receipt :	28-06-2022
Date of Test/Analysis :	28-06-2022 to 05-07-2022	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	kishan 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	Ammonia [microgram/m3]	BDL (<10.0)	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m3]	290	TTH/AAQM/08	4000
3	Lead [microgram/m3]	0.12	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	12.35	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m3]	BDL (<20.0)	APHA 1977,Part 819	100.00
6	Particulate Matter (PM2.5) [microgram/m3]	32.4	IS 5182 (Part 24) : 2019	60.00
7	Sulphur Dioxide [microgram/m3]	4.5	IS 5182 (Part 2) : 2001 RA 2017	80.00
8	Particulate Matter (PM 10) [microgram/m3]	76.6	IS 5182 (Part 23)-2006 RA 2017	100.00
9	Arsenic [ng/m3]	BDL(<2.0)	IS 5182 (Part 22) : 2004 Reaffirmed 2019	6.00
10	Nickel [ng/m3]	10.1	IS 5182 : Part 26 : 2020	20.00

Notes :-

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Puran Mal Yogi

Rajesh Maheshwar



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	400001734	Date :	05-07-2022
Issued To :	M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbaheera,, District - Chittorgarh-312617 (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitoring :	21-06-2022
Point of Collection :	Near Factory Gate	Date of Receipt :	28-06-2022
Date of Test/Analysis :	28-06-2022 to 05-07-2022	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	kishan 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	Benzene [microgram/m3]	BDL (<1.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
2	Benzo-alfa- Pyrene [ng/m3]	BDL(<0.5)	CPCB Guidelines	1.00

Notes :-

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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwan
Authorized Signatory
(Report No: 400001734)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502522400001735	Date :	05-07-2022
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 :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitoring :	21-06-2022
Point of Collection :	Near Colony Gate	Date of Receipt :	28-06-2022
Date of Test/Analysis :	28-06-2022 to 05-07-2022	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	kishan 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	Ammonia [microgram/m3]	BDL (<10.0)	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m3]	260	TTH/AAQM/08	4000
3	Lead [microgram/m3]	0.09	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	12.52	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m3]	BDL (<20.0)	APHA 1977,Part 819	100.00
6	Particulate Matter (PM2.5) [microgram/m3]	40.02	IS 5182 (Part 24) : 2019	60.00
7	Sulphur Dioxide [microgram/m3]	3.26	IS 5182 (Part 2) : 2001 RA 2017	80.00
8	Particulate Matter (PM 10) [microgram/m3]	82.96	IS 5182 (Part 23)-2006 RA 2017	100.00
9	Arsenic [ng/m3]	BDL(<2.0)	IS 5182 (Part 22) : 2004 Reaffirmed 2019	6.00
10	Nickel [ng/m3]	10.5	IS 5182 : Part 26 : 2020	20.00

Notes :-

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Puran Mal Yogi

Rajesh
Rajesh Maheshwan



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	400001735	Date :	05-07-2022
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 :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitoring :	21-06-2022
Point of Collection :	Near Colony Gate	Date of Receipt :	28-06-2022
Date of Test/Analysis :	28-06-2022 to 05-07-2022	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	kishan 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	Benzene [microgram/m3]	BDL (<1.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
2	Benzo-alfa- Pyrene [ng/m3]	BDL(<0.5)	CPCB Guidelines	1.00

Notes :-

- # The results listed refer only to the tested sample (s) & parameters (s). Endorsement of products is neither inferred nor implied.
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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 400001735)

FORM - X
RAJASTHAN STATE POLLUTION CONTROL BOARD
REPORT OF THE STATE BOARD ANALYST
(See Rule - 10)
Final Report

Report No. : **2147**

Report On : **15/07/2022**

I hereby certify that I **Dr Giriraj Kumar Songara**, State Board Analyst duly appointed **under sub Section(2) of Section 29 of the Air (Prevention & Control of Pollution) Act, 1981** received on the **11/07/2022** from **Surya Pratap Meena, JSO, Chittorgarh ,RSPCB Chittorgarh** a sample of **Ambient Air Quality of M/S J.K Cement Works, Mangrol , Plant - Mangrol [735] ,Village Mangrol , City- Tilakhera and Mangrol Tehsil- Nimbahera , District- Chittorgarh ML No- ML-26108** Collected from **Ambient air quality monitoring near colony gate.** Collected on **07/07/2022.** The Sample was in a condition fit for analysis as reported below :-

I further certify that I have analyzed the aforementioned sample on **15/07/2022** and declare the result of the analysis to be as below :-

S. No.	Parameters	Result
1	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	73
2	PM 2.5 $\mu\text{g}/\text{m}^3$	17
3	Sulphur Dioxide as SO2 $\mu\text{g}/\text{m}^3$	7.5
4	NO2 $\mu\text{g}/\text{m}^3$	23.6

The condition of the seals, fastening and container on receipt was as follows : **Intact**

Signed This On **15/07/2022**


BOARD ANALYST

Rajasthan State Pollution Control Board
Regional Office Chittorgarh
Near FCI Godown, Chanderia, Chittorgarh
Phone:01472-255077

FORM - X
RAJASTHAN STATE POLLUTION CONTROL BOARD
REPORT OF THE STATE BOARD ANALYST
(See Rule - 10)
Final Report

Report No. : **2148**

Report On : **15/07/2022**

I hereby certify that I **Dr Giriraj Kumar Songara**, State Board Analyst duly appointed under sub Section(2) of Section 29 of the Air (Prevention & Control of Pollution) Act, 1981 received on the 11/07/2022 from **Surya Pratap Meena, JSO, Chittorgarh ,RSPCB Chittorgarh** a sample of Ambient Air Quality of **M/S J.K Cement Works, Mangrol , Plant - Mangrol [735] ,Village Mangrol , City- Tilakhera and Mangrol Tehsil- Nimbahera , District- Chittorgarh** ~~ML No- ML-26108~~ Collected from Ambient air quality monitoring near time office. Collected on **07/07/2022**. The Sample was in a condition fit for analysis as reported below :-

I further certify that I have analyzed the aforementioned sample on **15/07/2022** and declare the result of the analysis to be as below :-

S. No.	Parameters	Result
1	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	81
2	PM 2.5 ug/m^3	28
3	Sulphur Dioxide as SO2 ug/m^3	12.5
4	NO2 ug/m^3	19.9

The condition of the seals, fastening and container on receipt was as follows : **Intact**

Signed This On **15/07/2022**


BOARD ANALYST

Rajasthan State Pollution Control Board
Regional Office Chittorgarh
Near FCI Godown, Chanderia, Chittorgarh
Phone:01472-255077

FORM - X
RAJASTHAN STATE POLLUTION CONTROL BOARD
REPORT OF THE STATE BOARD ANALYST
(See Rule - 10)
Final Report

Report No. : **2149**

Report On : **15/07/2022**

I hereby certify that I **Dr Giriraj Kumar Songara**, State Board Analyst duly appointed **under sub Section(2) of Section 29 of the Air (Prevention & Control of Pollution) Act, 1981** received on the **11/07/2022** from **Surya Pratap Meena, JSO, Chittorgarh ,RSPCB Chittorgarh** a sample of **Ambient Air Quality of M/S J.K Cement Works, Mangrol , Plant - Mangrol [735] ,Village Mangrol , City- Tilakhera and Mangrol Tehsil- Nimbahera , District- Chittorgarh M.L No- ~~ML-26108~~** Collected from **Ambient air quality monitoring near Factory Gate**. Collected on **07/07/2022**. The Sample was in a condition fit for analysis as reported below :-

I further certify that I have analyzed the aforementioned sample on **15/07/2022** and declare the result of the analysis to be as below :-

S. No.	Parameters	Result
1	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	86
2	PM 2.5 $\mu\text{g}/\text{m}^3$	29
3	Sulphur Dioxide as SO2 $\mu\text{g}/\text{m}^3$	7.7
4	NO2 $\mu\text{g}/\text{m}^3$	24.4

The condition of the seals, fastening and container on receipt was as follows : **Intact**

Signed This On **15/07/2022**


BOARD ANALYST

Rajasthan State Pollution Control Board
Regional Office Chittorgarh
Near FCI Godown, Chanderia, Chittorgarh
Phone:01472-255077

FORM - X
RAJASTHAN STATE POLLUTION CONTROL BOARD
REPORT OF THE STATE BOARD ANALYST
(See Rule - 10)
Final Report

Report No. : **2150**

Report On : **15/07/2022**

I hereby certify that I **Dr Giriraj Kumar Songara**, State Board Analyst duly appointed **under sub Section(2) of Section 29 of the Air (Prevention & Control of Pollution) Act, 1981** received on the **11/07/2022** from **Surya Pratap Meena, JSO, Chittorgarh ,RSPCB Chittorgarh** a sample of **Ambient Air Quality of M/S J.K Cement Works, Mangrol , Plant - Mangrol [735] ,Village Mangrol , City- Tilakhera and Mangrol Tehsil- Nimbahera , District- Chittorgarh ~~M.L.No- ML-26108~~** Collected from **Ambient air quality monitoring near Thermal power plant.** Collected on **07/07/2022**. The Sample was in a condition fit for analysis as reported below :-

I further certify that I have analyzed the aforementioned sample on **15/07/2022** and declare the result of the analysis to be as below :-

S. No.	Parameters	Result
1	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	93
2	PM 2.5 $\mu\text{g}/\text{m}^3$	34
3	Sulphur Dioxide as SO2 $\mu\text{g}/\text{m}^3$	9
4	NO2 $\mu\text{g}/\text{m}^3$	22.8

The condition of the seals, fastening and container on receipt was as follows : **Intact**

Signed This On **15/07/2022**


BOARD ANALYST

Rajasthan State Pollution Control Board
Regional Office Chittorgarh
Near FCI Godown, Chanderia, Chittorgarh
Phone:01472-255077

J.K. Cement WORKS, MANGROL (RAJ)
AMBIENT AIR QUALITY AVERAGE RESULTS (SPM) COMMON
FOR UNIT-1 ,2 ,3,CPP,WHRS & TOWNSHIP
(ALL VALUES IN MICROGRAMS / CUBIC METER)
(April" 2022 - September" 2022)

S.No. & Month	LOCATION / PERAMETER	NEAR TIME OFFICE	NEAR THERMAL POWER PLANT	NEAR FACTORY GATE	NEAR COLONY GATE	Remarks
April'22						
1	PM10	42.54	39.90	45.85	40.55	
2	PM2.5	30.90	28.63	34.76	31.56	
3	SO2	11.14	9.93	13.10	10.69	
4	NOX	14.81	11.56	17.56	13.78	
5	CO	599	533	617	646	
May'22						
1	PM10	46.34	41.98	51.11	43.32	
2	PM2.5	34.18	31.62	38.68	33.12	
3	SO2	14.37	12.26	16.04	13.19	
4	NOX	18.37	15.15	23.73	16.19	
5	CO	625	581	648	670	
June'22						
1	PM10	48.38	40.72	56.19	45.13	
2	PM2.5	37.64	29.49	42.35	36.50	
3	SO2	16.15	11.53	17.84	12.21	
4	NOX	20.05	13.55	27.32	15.92	
5	CO	639	608	658	683	
July'22						
1	PM10	40.98	37.82	52.34	38.97	
2	PM2.5	28.65	25.71	40.15	28.94	
3	SO2	13.18	10.86	15.56	11.18	
4	NOX	17.87	12.90	22.27	14.69	

5	CO	618	598	634	622	
August'22						
1	PM10	31.34	26.50	43.90	28.66	
2	PM2.5	22.55	19.61	31.05	17.80	
3	SO2	9.85	8.02	12.34	10.08	
4	NOX	12.78	10.75	18.44	14.81	
5	CO	583	524	614	658	
September'22						
1	PM10	40.25	43.74	50.05	45.31	
2	PM2.5	29.27	30.49	32.49	31.46	
3	SO2	14.03	17.96	13.05	12.62	
4	NOX	28.05	23.19	24.11	24.99	
5	CO	695	664	761	710	
Six monthly Average						
1	PM10	41.6	38.4	49.9	40.3	
2	PM2.5	30.5	27.6	36.6	29.9	
3	SO2	13.1	11.8	14.7	11.7	
4	NOX	18.7	14.5	22.2	16.7	
5	CO	626.4	584.8	655.2	664.9	

J.K. Cement Works, Mangrol (Unit-1)
Fugitive Emission Monitoring Report
April" 2022 - September" 2022

S.No.	Month/Year	SPM (µg/m3)			
		NEAR COAL YARD-1	NEAR LIMESTONE CRUSHING SITE- 1	NEAR STACKER RECLAIMER-1	NEAR GYPSUM YARD-1
1	Apr-22	1432.7	1935.6	1844.4	1394.5
2	May-22	1683.4	2071.3	1925.6	1513.9
3	Jun-22	1885.5	2232.0	2141.9	1657.1
4	Jul-22	1125.3	1316.5	1214.0	1045.0
5	Aug-22	896.5	1018.7	945.2	713.4
6	Sep-22	944.7	1337.8	1256.2	982.1

J.K. Cement Works, Mangrol (Unit-2)
Fugitive Emission Monitoring Report
(April" 2022 - September" 2022)

S.No.	Month/Year	SPM (µg/m3)			
		NEAR COAL YARD-2	NEAR LIMESTONE CRUSHING SITE-2	NEAR STACKER RECLAIMER-2	NEAR GYPSUM YARD-2
1	Apr-22	1621.0	1942.6	2019.1	1530.7
2	May-22	1710.8	2163.0	2283.6	1651.8
3	Jun-22	1805.5	2368.2	2485.4	1726.5
4	Jul-22	1233.7	1494.0	1612.4	1107.5
5	Aug-22	989.4	1130.9	1218.8	686.2
6	Sep-22	1015.8	1157.8	1246.2	713.0

J.K. Cement Works, Mangrol (Unit-3)
Fugitive Emission Monitoring Report
(April" 2022 - September" 2022)

S.No.	Month/Year	SPM (µg/m3)			
		NEAR COAL YARD-3	NEAR ADDITIVE YARD	NEAR STACKER RECLAIMER-3	NEAR GYPSUM YARD-3
1	Apr-22	1267.4	1445.7	1353.4	1200.7
2	May-22	1327.0	1517.8	1404.4	1272.8
3	Jun-22	1485.7	1694.0	1583.9	1361.7
4	Jul-22	988.7	1148.4	1095.1	923.6
5	Aug-22	681.8	842.5	784.9	628.3
6	Sep-22	887.6	1011.4	968.9	921.4



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ANNEXURE-4



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

RSPCB

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ISO 45001:2018 (OH&S)

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Phone : +91 9460222039, 9460222049,
Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502522200001293	Date :	22-06-2022
Issued To :	M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Liquid Effluents	Date of Sample Collection/Monitoring :	11-06-2022
Point of Collection :	STP Sushila Nagar Colony	Date of Receipt :	14-06-2022
Date of Test/Analysis :	14-06-2022 to 22-06-2022	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 Ltr.	Sample Collected By :	kishan 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	Total Suspended Solids [mg/l]	67	APHA.2017:2540-D	100
2	Ammonical Nitrogen as N [mg/l]	10.08	APHA 2017 : 4500-NH3 C	50
3	Biochemical Oxygen Demand (BOD) [mg/l]	12.5	APHA 2017:5210-B	30
4	Chloride as Cl [mg/l]	144.41	APHA 2017 : 4500- Cl- B	-
5	Chemical Oxygen Demand (COD) [mg/l]	91.39	APHA:2017 : 5220-C	250
6	pH	7.85	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]	19.60	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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- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.

Senior Analyst
Sunil Kumar

Rajesh Maheshwari
Authorized Signatory
(Report No: TC502522200001293)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	200001293	Date :	22-06-2022
Issued To :	M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Liquid Effluents	Date of Sample Collection/Monitoring :	11-06-2022
Point of Collection :	STP Sushila Nagar Colony	Date of Receipt :	14-06-2022
Date of Test/Analysis :	14-06-2022 to 22-06-2022	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 Ltr.	Sample Collected By :	kishan 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	Faecal coliform [MPN/100ml]	Not Detected	IS 1622 : 1981	-

Notes :-

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Senior Analyst

Sunil Kumar

Rajesh Maheshwan
Authorized Signatory

(Report No: 200001293)



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

TEST REPORT

Report No./ULR No. :	TC502522200001824	Date :	23-08-2022
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 :	13-08-2022
Point of Collection :	STP Sushila Nagar Colony	Date of Receipt :	13-08-2022
Date of Test/Analysis :	13-08-2022 to 23-08-2022	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 Ltr.	Sample Collected By :	kishan 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	Total Suspended Solids [mg/l]	38	APHA.2017:2540-D	100
2	Ammonical Nitrogen as N [mg/l]	11.89	APHA 2017 : 4500-NH3 C	50
3	Biochemical Oxygen Demand (BOD) [mg/l]	13	APHA 2017:5210-B	30
4	Chloride as Cl [mg/l]	152.01	APHA 2017 : 4500- Cl- B	-
5	Chemical Oxygen Demand (COD) [mg/l]	104.45	APHA:2017 : 5220-C	250
6	pH	7.71	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]	21.43	APHA 2017 : 4500-Norg B	100
9	Oil & Grease [mg/l]	5	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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Senior Analyst
Sunil Kumar

K.N. MUKHOPADHYAY

Authorized Signatory
(Report No: TC502522200001824)



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

TEST REPORT

Report No./ULR No. :	200001824	Date :	23-08-2022
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 :	13-08-2022
Point of Collection :	STP Sushila Nagar Colony	Date of Receipt :	13-08-2022
Date of Test/Analysis :	13-08-2022 to 23-08-2022	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 Ltr.	Sample Collected By :	kishan 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	Faecal coliform [MPN/100ml]	Not Detected	IS 1622 : 1981	-

Notes :-

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Senior Analyst

K.N. MUKHOPADHYAY
Authorized Signatory
(Report No: 200001824)

J.K. Cement WORKS, Mangrol (RAJ)
Treated Domestic Effluent Analysis Report
April" 2022 - September" 2022

S.No.	PARAMETER	Standards	April-22	May-22	June-22	July-22	August-22	September-22
1	pH	Between 5.5 to 9.0	8.54	8.2	8.08	7.83	8.2	8.34
2	Chlorides as Cl	Not to exceed 1000 mg/l	142	136	127	123.0	147.0	142
3	Total Suspended solids	Not to exceed 100 mg/l	24	26	21	19.0	24.0	27
4	Biological Oxygen Demand (3 days at 27 Degree C)	Not to exceed 30 mg/l	39	37	34	31.0	36.0	38.0
5	Chemical Oxygen Demand	Not to exceed 250 mg/l	8.93	8.41	8.2	8.0	8.7	8.5
6	Oil & Grease	Not to exceed 10 mg/l	1.4	1.32	1.26	1.4	1.6	1.5
7	Ammonical Nitrogen (as N)	Not to exceed 50 mg/l	7.12	5.81	6.37	8.0	9.2	7.1
8	Sulphide (as S)	Not to exceed 2.0 mg/l	<0.07	<0.09	<0.06	<0.11	<0.17	<0.14
9	Total Residual Chlorine	Not to exceed 1.0 mg/l	<0.1	<0.2	<0.1	<0.3	<0.2	<0.3



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

TEST REPORT

Report No./ULR No. :	TC502522200001292	Date :	22-06-2022
Issued To :	M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbaheara,, District - Chittorgarh-312617 (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Liquid Effluents	Date of Sample Collection/Monitoring :	11-06-2022
Point of Collection :	29.1 MW WHRS ETP	Date of Receipt :	14-06-2022
Date of Test/Analysis :	14-06-2022 to 22-06-2022	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 Ltr.	Sample Collected By :	kishan 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	Total Suspended Solids [mg/l]	19	APHA:2017:2540-D	100
2	Biochemical Oxygen Demand (BOD) [mg/l]	8	APHA 2017:5210-B	30
3	Chemical Oxygen Demand (COD) [mg/l]	68.54	APHA:2017 : 5220-C	250
4	pH	8.03	APHA:2017 : 4500 H+B	6.5 - 8.5
5	Phosphate (total) as P [mg/l]	0.79	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]	4	APHA 2017 : 5520 B	10
11	Total Residual chlorine [mg/l]	BDL (<0.1)	APHA 2017 : 4500- Cl- B	0.5

Notes :-

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Senior Analyst
Sunil Kumar

Authorized Signatory
(Report No: TC502522200001292)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	200001292	Date :	22-06-2022
Issued To :	M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Liquid Effluents	Date of Sample Collection/Monitoring :	11-06-2022
Point of Collection :	29.1 MW WHRS ETP	Date of Receipt :	14-06-2022
Date of Test/Analysis :	14-06-2022 to 22-06-2022	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 Ltr.	Sample Collected By :	kishan 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	Temperature [°C]	28	APHA 2017 :2550A	-

Notes :-

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Sunil Kumar
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 200001292)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502522200001823	Date :	23-08-2022
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 :	13-08-2022
Point of Collection :	29.1 MW ETP	Date of Receipt :	13-08-2022
Date of Test/Analysis :	13-08-2022 to 23-08-2022	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 Ltr.	Sample Collected By :	kishan 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	Total Suspended Solids [mg/l]	16	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]	81.6	APHA:2017 : 5220-C	250
4	pH	7.89	APHA:2017 : 4500 H+B	5.5 - 9.0
5	Phosphate (total) as P [mg/l]	0.51	APHA 2017 : 4500-P C	5
6	Chromium Total [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	2.0
7	Copper [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	3.0
8	Iron [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	3.0
9	Zinc [mg/l]	0.07	APHA :2017 :3111- B	5.0
10	Oil & Grease [mg/l]	4	APHA 2017 : 5520 B	10
11	Free available chlorine [mg/l]	BDL(<0.1)	APHA 2017 : 4500- Cl- B	0.5
12	Total Residual Chlorine [mg/l]	BDL(<0.1)	APHA 2017 : 4500- Cl- B	1.0

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Senior Analyst

K.N. MUKHOPADHYAY
Authorized Signatory
(Report No: TC502522200001823)



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JDA/UDH

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Phone : +91 9460222039, 9460222049,
Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	200001823	Date :	23-08-2022
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 :	13-08-2022
Point of Collection :	29.1 MW ETP	Date of Receipt :	13-08-2022
Date of Test/Analysis :	13-08-2022 to 23-08-2022	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 Ltr.	Sample Collected By :	kishan murari
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

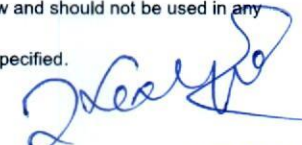
RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Temperature [°C]	30	APHA 2017 :2550A	-

Notes :-

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Senior Analyst
Sunil Kumar


K.N. MUKHOPADHYAY
Authorized Signatory
(Report No: 200001823)

J.K. Cement WORKS, Mangrol (RAJ)

29.1 MW WASTE HEAT RECOVERY PLANT
April 2022 To September 2022

S.No.	PARAMETERS	RPCB Limits	April'2022	May'2022	June'2022	July'2022	August'2022	September'2022
1	Total Suspended Solids (TSS)	Not to exceed 100 mg/l	28.03	30.39	26.88	25.71	26.66	27.75
2	Oil & Grease	Not to exceed 10 mg/l	<0.39	<0.34	<0.31	<0.32	<0.35	<0.32
3	Total Residual Chlorine	Not to exceed 1.0 mg/l	<0.03	<0.01	<0.04	<0.06	<0.03	<0.08
4	Phosphate	Not to exceed 05 mg/l	0.67	0.68	0.64	0.66	0.59	0.63
5	Free available chlorine	Not to exceed 0.5 mg/l	<0.05	<0.07	0.04	<0.04	<0.05	<0.06
6	pH Value	Between 6.5 to 8.5	7.75	7.86	7.62	7.69	7.75	7.73
7	Temperature	Shall not exceed 5°C above the receiving water temperature	4°C Higher then the intake water	4°C Higher then the intake water	4°C Higher then the intake water	4°C Higher then the intake water	4°C Higher then the intake water	4°C Higher then the intake water
8	Copper as (Cu)	Not to exceed 1.0 mg/l	<0.02	<0.04	<0.05	<0.02	<0.04	<0.03
9	Zinc (as Zn)	Not to exceed 1.0 mg/l	<0.03	<0.01	<0.02	<0.02	<0.03	<0.02
10	Iron (Total)	Not to exceed 1.0 mg/l	0.39	0.36	0.34	0.32	0.35	0.32
11	Chromium (total)	Not to exceed 0.2 mg/l	0.06	0.08	0.05	0.09	0.06	0.07
12	BOD	Not to exceed 30 mg/l	9.83	10.11	8.87	9.84	11.78	10.46
13	COD	Not to exceed 250 mg/l	47.00	51.00	44	58	53	62

J.K. Cement WORKS, Mangrol (RAJ)

25 MW THERMAL POWER PLANT
April'2022 To September'2022

S.No.	PARAMETERS	RPCB Limits	April'2022	May'2022	June'2022	July'2022	August'2022	September'2022
1	Total Suspended Solids (TSS)	Not to exceed 100 mg/l	Not In Operation	16.52	Not In Operation	Not In Operation	Not In Operation	Not In Operation
2	Oil & Grease	Not to exceed 10 mg/l		<0.39				
3	Total Residual Chlorine	Not to exceed 1.0 mg/l		<0.2				
4	Free available chlorine	Not to exceed 0.5 mg/l		<0.1				
5	pH Value	Between 6.5 to 8.5		7.54				
6	Temperature	Shall not exceed 5°C above the receiving water temperature		4 oC higher than the intake water temperature				
7	Copper as (Cu)	Not to exceed 1.0 mg/l		<0.4				
8	Zinc (as Zn)	Not to exceed 1.0 mg/l		0.03				
9	Iron (Total)	Not to exceed 1.0 mg/l		0.4				
10	Chromium (total)	Not to exceed 0.2 mg/l		0.09				
11	BOD	Not to exceed 30 mg/l		8.3				
12	COD	Not to exceed 250 mg/l		42				
13	Phosphate	Not to exceed 5 mg/l		0.44				

ANNEXURE-5



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

TEST REPORT

Report No./ULR No. :	TC502522600001186	Date :	05-07-2022
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 :	Ambient Noise Level Monitoring	Date of Sample Collection/Monitoring :	21-06-2022
Point of Collection :	Near Time office	Date of Receipt :	28-06-2022
Date of Test/Analysis :	28-06-2022 to 05-07-2022	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	kishan 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)]	62.3	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	53.7	IS 9989	70

Notes :-

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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwan
Authorized Signatory

(Report No: TC502522600001186)



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

TEST REPORT

Report No./ULR No. :	TC502522600001187	Date :	05-07-2022
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 :	Ambient Noise Level Monitoring	Date of Sample Collection/Monitoring :	21-06-2022
Point of Collection :	Near Thermal Power Plant	Date of Receipt :	28-06-2022
Date of Test/Analysis :	28-06-2022 to 05-07-2022	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	kishan 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)]	65.8	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	57.4	IS 9989	70

Notes :-

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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwar
Authorized Signatory
(Report No: TC502522600001187)



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Phone : +91 9460222039, 9460222049,
Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502522600001188	Date :	05-07-2022
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 :	Ambient Noise Level Monitoring	Date of Sample Collection/Monitoring :	21-06-2022
Point of Collection :	Near Factory Gate	Date of Receipt :	28-06-2022
Date of Test/Analysis :	28-06-2022 to 05-07-2022	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	kishan 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)]	63.8	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	52.2	IS 9989	70

Notes :-

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Purni Mal Yogi
Senior Analyst

Rajesh Maheshwan
Authorized Signatory
(Report No: TC502522600001188)



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

TEST REPORT

Report No./ULR No. :	TC502522600001189	Date :	05-07-2022
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 :	Ambient Noise Level Monitoring	Date of Sample Collection/Monitoring :	21-06-2022
Point of Collection :	Near Colony Gate	Date of Receipt :	28-06-2022
Date of Test/Analysis :	28-06-2022 to 05-07-2022	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	kishan 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)]	59.3	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	52.3	IS 9989	70

Notes :-

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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwar
Authorized Signatory

(Report No: TC502522600001189)

Rajasthan State Pollution Control Board
4, Institutional Area, Jhalana Doongri, Jaipur (Raj.) - 302 004
Result of Ambient Noise Level Monitoring

DATE OF RECEIPT : 11/07/2022

MONITORED BY : Bhupendra Kumar Soni, SO, Chittorgarh

S.No.	Lab Sample No	Name of Industry / Place	Point of Collection / Location	Date of Monitoring	Noise Level In Day Time(Leq dB(A))	Noise Level In Night Time(Leq dB(A))
1	2143	J.K Cement Works, Mangrol, Village-Tilakhera/MangrolTilakhera and Mangrol Tehsil:Nimbahera District:Chittorgarh	ANM Near main Factory Gate	08/07/2022	60.4	ND


LAB INCHARGE

Rajasthan State Pollution Control Board

* ND = Not Done

Rajasthan State Pollution Control Board
4, Institutional Area, Jhalana Doongri, Jaipur (Raj.) - 302 004
Result of Ambient Noise Level Monitoring

DATE OF RECEIPT : 11/07/2022

MONITORED BY : Bhupendra Kumar Soni, SO, Chittorgarh

S.No.	Lab Sample No	Name of Industry / Place	Point of Collection / Location	Date of Monitoring	Noise Level In Day Time(Leq dB(A))	Noise Level In Night Time(Leq dB(A))
1	2144	J.K Cement Works, Mangrol, Village-Tilakhera/MangrolTilakhera and Mangrol Tehsil:Nimbahera District:Chittorgarh	Ambient noise level monitoring near time office.	08/07/2022	60.1	ND


LAB INCHARGE

Rajasthan State Pollution Control Board

* ND = Not Done

Rajasthan State Pollution Control Board
4, Institutional Area, Jhalana Doongri, Jaipur (Raj.) - 302 004
Result of Ambient Noise Level Monitoring

DATE OF RECEIPT : 11/07/2022

MONITORED BY : Bhupendra Kumar Soni, SO, Chittorgarh

S.No.	Lab Sample No	Name of Industry / Place	Point of Collection / Location	Date of Monitoring	Noise Level In Day Time(Leq dB(A))	Noise Level In Night Time(Leq dB(A))
1	2145	J.K Cement Works, Mangrol, Village-Tilakhera/MangrolTilakhera and Mangrol Tehsil:Nimbahera District:Chittorgarh	Ambient noise level monitoring near TPP	08/07/2022	57.3	ND

**LAB INCHARGE**

Rajasthan State Pollution Control Board

* ND = Not Done

Rajasthan State Pollution Control Board
4, Institutional Area, Jhalana Doongri, Jaipur (Raj.) - 302 004
Result of Ambient Noise Level Monitoring

DATE OF RECEIPT : 11/07/2022

MONITORED BY : Bhupendra Kumar Soni, SO, Chittorgarh

S.No.	Lab Sample No	Name of Industry / Place	Point of Collection / Location	Date of Monitoring	Noise Level In Day Time(Leq dB(A))	Noise Level In Night Time(Leq dB(A))
1	2146	J.K Cement Works, Mangrol, Village-Tilakhera/MangrolTilakhera and Mangrol Tehsil:Nimbahera District:Chittorgarh	Ambient noise level monitoring near Colony gate.	08/07/2022	57.1	ND

**LAB INCHARGE**

Rajasthan State Pollution Control Board

* ND = Not Done

J.K. Cement WORKS, MANGROL (RAJ)

Noise Monitoring Report

(April'2022 - September'2022)

(ALL VALUES IN dB)

Month	25 MW CPP		10 MW WHR	
	Day	Night	Day	Night
Apr-22	53.2	43.9	59.6	51.7
May-22	55.7	48.2	55.9	49.2
Jun-22	51.8	40.7	57.4	47.3
Jul-22	53.4	41.8	60.2	52.3
Aug-22	55.5	42.3	61.1	53.9
Sep-22	54.7	42.1	59.8	51.3

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 Raw material Gate		Near Packing Plant Gate	
	Day	Night	Day	Night	Day	Night	Day	Night
Apr-22	61.5	52.3	58.3	47.1	63.2	55.8	65.3	58.9
May-22	64.4	54.7	56.6	44.1	62.5	52.3	66.9	61.4
Jun-22	59.7	51.1	55.8	41.9	60.8	49.9	62.3	57.1
Jul-22	62.3	48.7	60.4	45.7	64.5	50.4	67.8	59.7
Aug-22	63.2	49.1	59.7	42.9	65.3	51.7	68.2	60.8
Sep-22	63.9	50.5	61.1	46.8	66.4	53.4	64.7	56.3

Awareness Program on Ban of Single Use Plastic

By

J K Cement Works

Nimbahera & Mangrol

Dist. Chittorgarh (Rajasthan)

August 2022



Display Board on Ban of SUP placed at Nimbahera Plant



JK Cement

75
आज़ादी का
अमृत महोत्सव

ज. के. सीमेन्ट वर्क्स, 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 छोटी के साथ कानकोरनी, गुब्बारों के लिए प्लास्टिक के झड़े, केड़ी के छड़े, आईस्क्रीम छड़े
-  प्लेट्स, कप, ग्लासेस, कटलरी जैसे कि चम्मच, चाकू पिन के लिए स्टॉ, टे, पुतानी (स्टिप्स)
-  100 माइक्रोन से पतले पीवीसी बैग्स इन पर प्रतिबंध है।
-  कंपोस्टेबल प्लास्टिक (कचरा और नर्सरी की पैलियों छोड़कर)
-  सभी प्रकार के प्लास्टिक की पैलियाँ (कैरी बैग्स, नॉन बुवन बैग्स के साथ) हेण्डल वाली और बिना हेण्डल वाली
-  बर्तन, कटोरी और डिब्बे



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 झंडे, 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 बेनर्स इन पर प्रतिबंध है।



कंपोस्टेबल प्लास्टिक (कचरा और नर्सरी की थैलियों छोड़कर)



सभी प्रकार के प्लास्टिक की थैलियाँ (कैरी बैग्स, नॉन बुवन बैग्स के साथ) हैण्डल वाली और बिना हैण्डल वाली



वर्तन, 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 placed at Kailash Nagar-1



Display Board on Ban of SUP placed at Kailash Nagar-2



Awareness on Ban of Single Use Plastic conducted at Nimbahera Town



Awareness on Ban of SUP conducted at Nimbahera Town



Awareness on Ban of SUP Audio Clip Played in Loud Speaker



Awareness on Ban of SUP conducted at Sahabad Village



Awareness on Ban of SUP conducted at Arniya Paliwal Village



**Display Board on Ban of Single Use Plastic placed at
Sushila Nagar Colony, Mangrol**



**Awareness on Ban of SUP conducted at Mangrol
Village**



Awareness on Ban of SUP conducted at Mangrol Village



Awareness on Ban of SUP conducted at Tilakhera Village



Awareness on Ban of SUP conducted at Badoli Madhopur Village



Awareness on Ban of SUP conducted at Arniya Joshi Village



Awareness on Ban of Single Use Plastic Conducted at Falwa Village



Awareness on Ban of SUP conducted at Maliakheri Village



Awareness on Ban of SUP conducted at Rasulpura



Awareness on Ban of SUP conducted at Charlia Gadiya Village



Thank You.....

