

Through Email

NBH/PC-14/C11/

Date: 22.11.2022

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

Sub: Compliance report of Environmental Clearance for Expansion of Integrated Cement Plant (Clinker 5.0 MTPA to 5.2 MTPA) Cement 3.6 MTPA to 6.5 MTPA) WHRS {13.2 (Water Cooled) to 15 MW (Air Cooled)} along with additional WHRS {15 MW (Air Cooled)} and Reduction in capacity of Captive Power Plant (47 to 22 MW) at Nimbahera, District: Chittorgarh (Rajasthan) by M/s. JK Cement Limited.

Ref: EC letter no. - IA-J-11011/243/2016-IA-II(I) dated 23.07.2018 and amended on vide letter no IA-J-11011/243/2016-IA-II(I) dated 14.02.2022

Dear Sir,

Kindly refer to the above subject matter and refer above EC letter no., please find attached herewith compliance of EC for the period of **April 2022 to September 2022.**

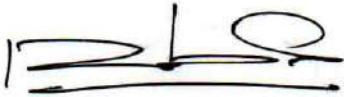
As per MoEF & CC notification no. S.O. 5845 (E) 26.11.2018 the soft copy of same has been sent through email to iro.jaipur-mefcc@gov.in, moef@nic.in, ccb.cpcb@nic.in, member-secretary@rpcb.nic.in, cpcb.bhopal@gov.in, monitoring-ec@nic.in. iro.jaipur-mefcc@gov.in

We hope that the compliance is in order.

Thanking you.

Yours Faithfully

For J. K. Cement Works, Nimbahera



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

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**JK SUPER
CEMENT**
BUILD SAFE

Manufacturing Units at :

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

JK CEMENT
WallMaxX
White Cement Wall Putty



Form for Uploading Six Monthly Compliance Report

Proposal Details

Proposal No.	IA/RJ/IND/236959/2021, dated 22 Dec 2021	Project Name	Expansion in Clinker Production Capacity (5.0 to 5.2 MTPA) and WHRS {13.2 (Water Cooled) to 15 MW (Air Cooled)} along with additional WHRS {15 MW (Air Cooled)} and Reduction in capacity of Captive Power Plant (47 to 22 MW) at Nimbahera, District: Chittorgarh (Rajasthan) by M/s. J. K. Cement Limited.
Category	A	MoEF File No.	IA-J-11011/243/2016-IA-II(I), dated 14/02/2022
Name of the Entity / Corporate Office*	J. K. CEMENT LTD. KANPUR, J. K. Cement Works, Kailash Nagar, Nimbahera, Chittorgarh, Rajasthan-312617		
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 Expansion in Clinker Production Capacity (5.0 to 5.2 MTPA) and WHRS {13.2 (Water Cooled) to 15 MW (Air Cooled)} along with additional WHRS {15 MW (Air Cooled)} and Reduction in capacity of Captive Power Plant (47 to 22 MW) at Nimbahera, District: Chittorgarh (Rajasthan) by M/s. J. K. Cement Limited.		

Details of Production and Project Area

Date of Commencement of Project /Activity:*	<ul style="list-style-type: none"> Line 1 : 1974 Line 2 : 1978 Kiln 3 : 1982 & Upgraded in 1898-99 & converted SLC to ILC in 2021 	Project Area as Per EC Granted (In Case of Mine Lease):*	98.05 ha.
Actual Project Area (In Case of Mine Lease):*	98.05 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	5.20	1.526456
Cement Production	Million Tons Per Annum	6.50	4.793490

CPP (Electricity Generation)	MW/Hr.	22	72969.3 Mwh
WHRB (Electricity Generation)	MW/Hr.	30	27865.24 Mwh

ENVIRONMENT CLEARANCE COMPLIANCE REPORT OF J. K. CEMENT WORKS, NIMBAHERA (RAJASTHAN)				
EC Compliance Report: April-2022 to September-2022				
Expansion in Clinker Production Capacity (5.0 to 5.2 MTPA) and WHRS {13.2 (Water Cooled) to 15 MW (Air Cooled)} along with additional WHRS {15 MW (Air Cooled)} and Reduction in capacity of Captive Power Plant (47 to 22 MW) at Nimbaheara, District: Chittorgarh (Rajasthan) by M/s. J. K. Cement Limited				
EC Letter No.: IA-J-11011/243/2016-IA-II(I) dated 14.02.2022				
A. SPECIFIC CONDITION: -				
S. No.	Condition Type	Condition Details	Self Declaration	Remarks / Reason
i.	Miscellaneous	All the observations made in the inspection report of Regional Office dated 02/12/2021 shall be compiled within one month from date of issue of the Environment Clearance. Compliance status in this regard shall be furnished to the Ministry and the concerned Regional Office of the MoEF&CC.	Complied	Unit has complied with all the observations in the inspection report of Regional Office dated 02/12/2021 and submitted Compliance status report to IRO & RO MoEFCC, Jaipur on 22/12/2021.
ii.	Air Quality Monitoring And Preservation	Particulate matter emissions from all the stacks shall be less than 30 mg/Nm ³ .	Complied	<ul style="list-style-type: none"> Stack emission are being maintained less than 30 mg/Nm³. Detail stack emission monitoring results (in-house & NABL accredited third party) for the period: Apr-22 to Sept-22 are enclosed as Annexure-1.
iii.	Water Quality Monitoring And Preservation	Air Cooled condensers shall be used in the captive power plant in place of water-cooled system	Complied	Unit has provided the air cooled condensers (ACC) in it is CPP and erection & commissioning of ACC is under progress of WHRS.
iv.	Water Quality Monitoring And Preservation	Water consumption shall be reduced from 4071 KLD to 2892 KLD due to switch over from water cooled system to air cooled condensers. Compliance status in this regard shall be submitted to the concerned Regional Office of the MoEF&CC along with the six-monthly compliance report.	Yet to be complied	<ul style="list-style-type: none"> Air cooled condenser erection & commissioning is under progress of WHRS, switch over from water cooled condenser to air cooled condenser after completion of the project. Water consumption will be reduced after commissioning of Air Cooled Condenser and it will be informed to the concern

				Regional Office of the MoEF&CC along with the six-monthly compliance report.
v.	Air Quality Monitoring And Preservation	Dioxin and furans shall be monitored twice a year during co-processing of hazardous waste and report shall be submitted to the Regional Office of the MoEF&CC.	Complied	Unit has conducted dioxin & furans monitoring through NABL accredited laboratory at twice a year basis during co-processing of hazardous wastes and monitoring report of the same for the period: Apr-22 to Sept-22 is enclosed as <u>Annexure-2</u> .
vi.	Greenbelt	Greenbelt shall be developed in 33% of the total area all the entire periphery of the area with a density of 2500 trees per ha by 31 st December, 2022 as committed. This shall include development of greenbelt with a width of 20m within the project site towards 4 villages around the plant i.e. Rampura (220 m), Ahirpura (340 m), Kautha (350 m) and Nimbahera (860 m) from the project site. Additionally, 14.57 ha land located outside the project shall be brought under greenbelt development as committed by the proponent.	Complied	Unit has developed the greenbelt in 33% of the total area. Details of greenbelt/plantation are: - <ul style="list-style-type: none"> • Total plant area - 98.05 ha. • Total plantation area covered - 32.36 ha. • Total nos. of tree planted - 90481 nos. till FY 2021-22. • Plantation done in FY 2022-23 (till Sept) - 2731 nos. to increase the plant density. • Apart from above additional plantation has done on 14.57 ha outside the plant premises.
vii.	Water Quality Monitoring And Preservation	Rainwater harvesting shall be implemented as per the action plan submitted in the addendum EIA report.	Complied	Unit have not proposed any action plan for rainwater harvesting implementation in addendum EIA report. However, unit has constructed 5 nos. of injection wells, 2 nos. of check dams at seasonal nalla and 1 water pond in south direction of the plant.
viii.	Statutory compliance	All stockyards shall be having impervious flooring and shall be equipped with water spray system for dust suppression. Stock yards shall also have garland drains to trap the run off material.	Complied	Unit has developed covered storage yard with impervious flooring. Provided water spray system for dust suppression at raw material handling transfer point, as per requirement.
ix.	Miscellaneous	Slip roads shall be provided at the gates and along crossings on main roads.	Complied	Unit has provided separate entry and exit gates for raw material and manpower, hence slip road is not required.
x.	Miscellaneous	All internal and connecting road to the Highway shall be black topped/concreted with suitable load in term of Million Standard Axle (MSA) as per IRC guidelines.	Complied	All internal and connecting roads to the Highways are blacked topped & concreted.

xi.	Statutory compliance	Performance monitoring of pollution control equipment shall be taken up yearly and compliance status in this regard shall be reported to the concerned Regional Office of the MoEF&CC.	Complied	Performance monitoring of pollution control equipment are being done and stack emissions are observed less than 30 mg/Nm ³ . Please refer the Annexure-1 for in house and NABL accredited third party stack emission monitoring reports.
xii.	Statutory compliance	The recommendations of the approved Site-Specific Conservation Plan/Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report to the concerned Regional Office of the MoEF&CC.	Complied	<p>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.</p> <p>Wildlife Conservation Plan (WCP) has been prepared for 6 Schedule-I Species found in the buffer area during the survey i.e.: -</p> <ul style="list-style-type: none"> 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) <p>Wild life conservation plan has been forwarded by the DFO - Chittorgarh to Divisional Chief Conservator of Forest vide letter No.: F(5) Survey/UVS/2021-22/4089 dated 13.07.2021 and accordingly 20% amount of Rs. 57.07 Lakh deposited to DFO - Chittorgarh against the total amount of WCP of Rs. 285.30/- Cr in July-2021.</p>
B. GENERAL EC CONDITIONS: -				
I. Statutory Compliance				
i.	Statutory compliance	The Environment Clearance (EC) granted to the project/activity is strictly under the provisions of the EIA Notification, 2006 and its amendments issued from time to time. It does not tantamount/ construe to approvals/ consent/permissions etc., required to be obtained or standards/conditions to be followed under any other Acts/Rules/ Subordinate legislations, etc., as may be applicable to the project.	Complied	<ul style="list-style-type: none"> • Unit has obtained the CTE from RSPCB, Jaipur vide letter No.: F(CPM)/Chittorgarh (Nimbahera)/4002(1)/2020-2021/1203-1205, Order No.: 2022-2023/CPM/8585 dated 18.07.2022, copy of the same is enclosed as Annexure-3. • Unit has obtained the CTO from RSPCB, Jaipur vide letter No.: F(HSW)/Chittorgarh (Nimbahera)/20(1)/2022-2023/2567-2569, Order No.: 2022-2023/CPM/8620 dated 22.09.2022, copy of the same is enclosed as Annexure-3.
II. Air Quality Monitoring And Preservation				

i.	Air Quality Monitoring And Preservation	The project proponent shall install 24x7 Continuous Emission Monitoring System (CEMS) at process stacks to monitor stack emission as well as 4 Nos. Continuous Ambient Air Quality Station (CAAQS) for monitoring AAQ parameters with respect to standards prescribed in Environment (Protection) Rules, 1986 as amended from time to time. The CEMS and CAAQMS shall be connected to SPCB and CPCB online servers and calibrate these systems from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.	Complied	<ul style="list-style-type: none"> • Continuous emission monitoring system has been installed for monitoring of PM, SO₂ and NO_x at the stack of all Kilns, Boilers. • Opacity meters have been installed for continuous monitoring of PM at the stacks of Coal mill, Cement mill and Clinker cooler etc. • Real time continuous monitoring system has been connected 24x7 with RSPCB and CPCB online server. • Online CAAQMS system already installed at 4 locations in periphery of plant area and 24x7 connected to RPCB/CPCB web portal. • CEMS remote calibration done by CPCB and CEMS & CAAQMS periodical calibration done by OEM and NABL lab.
ii.	Air Quality Monitoring And Preservation	The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through labs recognized under Environment (Protection) Act, 1986.	Complied	<ul style="list-style-type: none"> • Fugitive emission monitoring is being carried out by in-house facility as well as NABL recognized laboratory. • Detail fugitive emission monitoring results (In-house & NABL accredited laboratory) for the period: Apr-22 to Sept-22 are enclosed as <u>Annexure-4</u>.
iii.	Air Quality Monitoring And Preservation	The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.	Complied	Bag house and bag filter are having mechanized bag cleaning system and DP system provided which indicate the leakages.
iv.	Air Quality Monitoring And Preservation	The project proponent shall ensure covered transportation and conveying of ore, coal and other raw material to prevent spillage and dust generation; Use closed bulkers for carrying fly ash.	Complied	Raw materials transported through trucks covered with tarpaulin and bulker are being used for fly ash transportation.
v.	Air Quality Monitoring And Preservation	The project proponent shall provide wind shelter fence and chemical spraying on the raw material stock piles;	Complied	Covered shed are provided for storage of raw materials & also developed dense plantation around the plant hence, wind shelter fence is not required.
vi.	Air Quality Monitoring And Preservation	Ventilation system shall be designed for adequate air changes as per the prevailing norms for all tunnels, motor houses, and cement bagging plants.	Complied	Ventilation system has been provided at all the required locations.

III. Water Quality Monitoring And Preservation				
i.	Water Quality Monitoring And Preservation	The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R. No. 612 (E) dated 25 th August, 2014 (Cement) and subsequent amendment dated 9 th May, 2016 (Cement) and 10 th May, 2016 (in case of Co-processing Cement) as amended from time to time; S.O. 3305(E) dated 7 th December, 2015 (Thermal Power Plants) as amended from time to time) and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.	Complied	<p>The unit is Zero liquid discharge facility and as per the CPCB guideline, the continuous effluent monitoring system is not required for cement plant.</p> <ul style="list-style-type: none"> • OCEMS have been installed and connected 24x7 with RSPCB and CPCB online portal. • CEMS Remote calibration done by CPCB and periodical calibration by OEM and NABL lab.
ii.	Water Quality Monitoring And Preservation	The project proponent shall regularly monitor ground water quality at least twice a year (pre- and post-monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.	Complied	Ground water quality is being test by NABL recognized lab, the Pre-monsoon ground water quality analysis report is enclosed as <u>Annexure - 5</u> .
iii.	Water Quality Monitoring And Preservation	Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards.	Complied	<ul style="list-style-type: none"> • STP of capacity: 500 KLD; based on Activated Sludge Process (ASP) technology has been provided for domestic waste water treatment and treated water is being utilized for plantation. • Additionally, unit has installed two reed bed technology based STP with the capacity of 55 KLD and 35 KLD each. • STP treated water quality analysis report for the period: Apr-22 to Sept-22 is enclosed as <u>Annexure-6</u>.
iv.	Water Quality Monitoring And Preservation	Garland drains and collection pits shall be provided for each stock pile to arrest the run-off in the event of heavy rains and to check the water pollution due to surface run off.	Complied	Raw material stored in covered shed and finished product in silo. The garland drains and collection pits has been provided for each stock pile to arrest the run-off in the event of heavy rainfall.

v.	Water Quality Monitoring And Preservation	Water meters shall be provided at the inlet to all unit processes in the cement plant.	Complied	Water meters has been provided at all the strategic locations in the existing plant.														
vi.	Water Quality Monitoring And Preservation	The project proponent shall make efforts to minimize water consumption in the cement plant complex by segregation of used water, practicing cascade use and by recycling treated water.	Complied	<ul style="list-style-type: none">• Cement manufacturing process is based on dry process technology.• Air cooled condensers in captive power plant is installed.• Treated waste water from CPP is being reused in coal yard for dust suppression.• WHR treated waste water is being recycle in cement plant for machineries cooling purpose only.• Domestic sewage generated is being treated at STP and treated water is reused for plantation/greenbelt development.• ‘Zero’ liquid discharge are being maintained.														
IV.	Noise And Vibration Monitoring And Prevention																	
i.	Noise And Vibration Monitoring And Prevention	Noise quality shall be monitored as per the prescribed Noise Pollution (Regulation And Control) Rules, 2000 and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.	Complied	<ul style="list-style-type: none">• Unit is being monitored the ambient noise level on regular basis.• Noise level monitoring report for the period: Apr-22 to Sept-22 is enclosed as <u>Annexure- 7</u>.														
V.	Energy Conservation Measures																	
i.	Energy Conservation Measures	Waste heat recovery system shall be provided for kiln and cooler.	Complied	Presently, Waste Heat Recovery system has been installed with capacity of 13.2 MW and further its capacity will be increase from 13.2 MW to 15 MW, same will be explore in Line-4 also.														
ii.	Energy Conservation Measures	The project proponent makes efforts to achieve power consumption less than 65 units/ton for Portland Pozzolona Cement (PPC) and 85 units/ton for Ordinary Portland Cement (OPC) production and thermal energy consumption of 670 Kcal/Kg of clinker.	Complied	<p>All suitable measures like VVFD, high efficient motors have been adopted to reduce power consumption.</p> <p>The specific Power and Thermal Energy Consumption is as given below:</p> <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 (43+53)</th><th>PPC (PPC+WS+PPCSS)</th></tr><tr><td>Apr-22</td><td>77.1</td><td>62.8</td><td>744</td></tr><tr><td>May-22</td><td>78.5</td><td>63.7</td><td>754</td></tr></table>	Month	Power Consumption (kwh/ton of Cement)		Thermal Energy Kcal/ Kg. of Clinker (with loss)	OPC (43+53)	PPC (PPC+WS+PPCSS)	Apr-22	77.1	62.8	744	May-22	78.5	63.7	754
Month	Power Consumption (kwh/ton of Cement)		Thermal Energy Kcal/ Kg. of Clinker (with loss)															
	OPC (43+53)	PPC (PPC+WS+PPCSS)																
Apr-22	77.1	62.8	744															
May-22	78.5	63.7	754															

				<table><tr><td>Jun-22</td><td>76.9</td><td>62.3</td><td>749</td></tr><tr><td>Jul-22</td><td>76.1</td><td>61.5</td><td>746</td></tr><tr><td>Aug-22</td><td>79.6</td><td>64.7</td><td>746</td></tr><tr><td>Sep-22</td><td>77.7</td><td>62.9</td><td>746</td></tr><tr><td>Average</td><td>77.65</td><td>62.98</td><td>747.5</td></tr></table>	Jun-22	76.9	62.3	749	Jul-22	76.1	61.5	746	Aug-22	79.6	64.7	746	Sep-22	77.7	62.9	746	Average	77.65	62.98	747.5
Jun-22	76.9	62.3	749																					
Jul-22	76.1	61.5	746																					
Aug-22	79.6	64.7	746																					
Sep-22	77.7	62.9	746																					
Average	77.65	62.98	747.5																					
iii.	Energy Conservation Measures	Provide solar power generation on roof tops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly.	Complied	Unit has recently installed & commissioned 7.0 MW solar power plant, apart from this solar street light in colony and rooftop solar system has provided.																				
iv.	Energy Conservation Measures	Provide the project proponent for LED lights in their offices and residential areas.	Complied	LED lights provided in offices & residential township.																				
VI.	Waste Management																							
i.	Waste management	Used refractories shall be recycled as far as possible.	Complied	Used refractories is sold and partially recycled in existing plant and same practice will be adopted in proposed plant																				
VII.	Green Belt																							
i.	Green Belt	The project proponent shall prepare GHG emissions inventory for the plant and shall submit the program for reduction of the same including carbon sequestration by trees in the plant premises.	Complied	GHG emission inventory report has been submitted for the FY 2021-22 along with last compliance report.																				
VIII.	Public Hearing And Human Health Issues																							
i.	Public hearing and human health issues	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	Complied	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan are implemented.																				
ii.	Public hearing and human health issues	The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms.	Complied	There is no any activity is carried out in high temperature work zone however during shutdown, we start working after cooling of equipment and same practice will be followed in proposed unit. Personal protective equipment is being provided to respective worker.																				
iii.	Public hearing and human	Occupational health surveillance of the workers shall be done on a regular basis and records	Complied	Periodical medical examination of all employee and workmen are being carried out and report is being maintained.																				

	health issues	maintained.		
IX.	Environment Management			
i.	Environment Management	The project proponent shall comply with the provisions contained in this Ministry's OM vide F. No. 22-65/2017- IA.III dated 30/09/2020.	Complied	Unit has been carried out combined CSR activities for Cement Plant and its associated mines, on the focus area of infrastructure, health, sanitation & water, women-empowerment, sports, education etc. CSR activities expenditure occurred in the FY: 2021-22 is given as below: -

Details of CSR amount spent in FY 2021-22

SN	Name of the project	Item from the list of activities in Schedule VII to the Act	Local Area or other	District	Amount spent for the Project (inRs.)
1	Distribution of PPEs at nearby villages, provided DG sets at nearby hospitals for Power arrangement during emergency power cuts.	Disaster Relief	Narsakhedi	Chittorgarh	102660
			Nimbahera	Chittorgarh	263865
2	Reimbursement of expenses on Coaching of students of rural areas at nearby villages. Construction of school , Bio Toilets at Schools for better health & hygiene of student, School bag & water distribution	Education Promotion	Falwa	Chittorgarh	154675
			Ghatera	Chittorgarh	480000
			Nimbahera	Chittorgarh	2076144
			Maliakheda	Chittorgarh	5258244
			Ahirpura	Chittorgarh	211420
			Karunda	Chittorgarh	521699
3	Contribution for Construction and Renovation of Structures of Public utility like Bathroom, Community Centre in nearby villages and Camera Distribution	Community Welfare	Falwa	Chittorgarh	1626481.92
			Baswa	Chittorgarh	1032960
			Ahirpura	Chittorgarh	1147053
			Karunda	Chittorgarh	2030936
			Nimbahera	Chittorgarh	3097389
4	Contribution for infrastructure development & other modification work at hospitals Provided medical equipments at hospital better treatments. Sanitization work at nearby villages	Health Care	Karunda	Chittorgarh	311024.4
			Maliakheda	Chittorgarh	348923.64
			Nimbahera	Chittorgarh	5349750

5	Drinking water arrangement at nearby villages.	Water Management & Conservation	Ahirpura	Chittorgarh	126550
			Maliakheda	Chittorgarh	73231
			Karunda	Chittorgarh	69594
			Nimbahera	Chittorgarh	5094891
6	Construction of Road and painting work	Rural development	Karunda, Maliakhera and Sand	Chittorgarh	11850909
			Ahirpura	Chittorgarh	2591755
7	Plantation	Plantation	Nimbahera	Chittorgarh	873974
8	Contribution towards District football association and Misc. Sports items purchased	Sports Promotion	Ahirpura	Chittorgarh	160000
			Karunda	Chittorgarh	112415
			Murlia	Chittorgarh	13000
			Nimbahera	Chittorgarh	173280
TOTAL					45152823.96

ii.	Environment Management	The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/ deviation/ violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.	Complied	Unit has implemented the Environment Policy duly approve by the Board of Directors and same has been submitted to all concern authorities along with last EC compliance report.
iii.	Environment Management	A Separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.	Complied	A separate environmental management cell with qualified personnel is already established & has sufficient monitoring equipment in environmental laboratory.
X.	Miscellaneous			

i.	Miscellaneous	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.	Complied	Publically published in 02 local newspapers namely Rajasthan Patrika and Dainik Bhaskar on 17/02/2022 regarding grant of Environment Clearance.
ii.	Miscellaneous	The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.	Complied	A copy of EC has been submitted to the all concern local authority and pollution control board, Zila Parishad Chittorgarh, DIC office Chittorgarh, District Collector Chittorgarh, SDM Office, Nimbahera on 16/02/2022.
iii.	Miscellaneous	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.	Complied	Six monthly compliance report has been uploaded at company website, which can be access on: https://www.jkcement.com/environmental-compliance
iv.	Miscellaneous	The project proponent shall monitor the criteria pollutants level namely; PM ₁₀ , SO ₂ , NO _x (ambient levels as well as stack emissions) or critical sectorial parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.	Complied	Unit is monitoring the PM ₁₀ , SO ₂ , NO _x in ambient levels and PM, SO ₂ , NO _x in stack emission on regular basis. Data of the same are being displayed outside the plant main gate and uploaded on the website of the company along with EC compliance report.
v.	Miscellaneous	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.	Complied	Periodical EC compliance is being submitted. Last six monthly EC compliance report for the period: October-21 to March-22 has been submitted through e-mail on 01.06.2022 to the respective Regional Office of MoEF&CC, Zonal Office of CPCB and HO/RO of RSPCB vide letter No.: NBH/PC-14/C11 dated 25.05.2022 and same has also been uploaded at MoEF&CC website.
vi	Miscellaneous	The project proponent shall submit the environmental statement for each financial year in	Complied	Unit has submitted the Environment Statement Report (ESR) in Form-V for the FY: 2021-22 for Cement Plant, 22 MW CPP and

		Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.		13.2 MW WHRS to RSPCB Office vide our letter No.: NBH-PC-ESR-21- 894, 892 & 893, dated 19.09.2022, respectively.
vii.	Miscellaneous	The project proponent 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, commencing the land development work and start of production operation by the project.	Complied	The total existing capital investment of Rs. 913.87 crores for cement plant.
viii.	Miscellaneous	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.	Complied	Complied with.
ix.	Miscellaneous	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).	Complied	Noted, No further expansion or modifications in the plant will be done without prior approval of the MoEF&CC.
x.	Miscellaneous	Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.	Complied	Noted.
xi.	Miscellaneous	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Complied	Noted
xii.	Miscellaneous	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	Complied	Agreed.
xiii.	Miscellaneous	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The	Complied	Noted and agreed.

		project authorities should extend full cooperation to the officer(s) of the Regional Office by furnishing the requisite data/information/monitoring reports.		
xiv.	Miscellaneous	Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	Complied	Noted and agreed.

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-8.

Yours sincerely,

For, J. K. Cement Works, Nimbahera


(Authorized Signatory)

Original

J.K. Cement WORKS, NIMBAHERA (RAJ)

HALF YEARLY REPORT FY-2022-23 (April' 2022 to September' 2022)

DATE	NAME OF THE STACK / DUCT ATTACHED WITH UNIT	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/NM ³)	MEAN DUST CONC. (Mg/NM ³)	EMISSION RATE (Ts/DAY)
April'2022								
04.04.2022	L.S. CRUSHER (B.F.)	0.26	322	10.19	2.45	12.2	15.4	0.003
12.04.2022	L.S. CRUSHER (B.F.)	0.26	324	10.85	2.59	17.9		0.003
19.04.2022	L.S. CRUSHER (B.F.)	0.26	323	11.67	2.80	18.1		0.002
28.04.2022	L.S. CRUSHER (B.F.)	0.26	324	10.97	2.62	13.4		0.002
May '2022								
03.05.2022	L.S. CRUSHER (B.F.)	0.26	328	8.98	2.12	11.4	13.8	0.002
STOPPED	L.S. CRUSHER (B.F.)		STOPPED					0.000
25.05.2022	L.S. CRUSHER (B.F.)	0.26	329	9.82	2.31	13.5		0.003
30.05.2022	L.S. CRUSHER (B.F.)	0.26	325	12.45	2.97	16.4		0.004
June'2022								
03.06.2022	L.S. CRUSHER (B.F.)	0.26	326	11.06	2.63	10.8	12.1	0.002
09.06.2022	L.S. CRUSHER (B.F.)	0.26	328	11.43	2.70	10.1		0.002
15.06.2022	L.S. CRUSHER (B.F.)	0.26	321	9.89	2.39	15.3		0.003
24.06.2022	L.S. CRUSHER (B.F.)	0.26	323	10.23	2.45	12.3		0.003
July'2022								
01.07.2022	L.S. CRUSHER (B.F.)	0.26	322	11.87	2.86	15.2	13.8	0.004
08.07.2022	L.S. CRUSHER (B.F.)	0.26	323	12.41	2.98	13.3		0.003
15.07.2022	L.S. CRUSHER (B.F.)	0.26	324	9.65	2.31	13.2		0.003
21.07.2022	L.S. CRUSHER (B.F.)	0.26	321	11.31	2.73	13.4		0.003
August'2022								
04.08.2022	L.S. CRUSHER (B.F.)	0.26	320	11.29	2.73	12.3	11.7	0.003
13.08.2022	L.S. CRUSHER (B.F.)	0.26	324	10.97	2.62	11.00		0.002
20.08.2022	L.S. CRUSHER (B.F.)	0.26	321	9.65	2.33	10.2		0.002
26.08.2022	L.S. CRUSHER (B.F.)	0.26	324	12.01	2.87	13.3		0.003
September'2022								
03.09.2022	L.S. CRUSHER (B.F.)	0.26	322	10.40	2.50	12.6	12.2	0.003
09.09.2022	L.S. CRUSHER (B.F.)	0.26	327	9.79	2.32	10.9		0.002
17.09.2022	L.S. CRUSHER (B.F.)	0.26	322	9.65	2.32	13.6		0.003
21.09.2022	L.S. CRUSHER (B.F.)	0.26	326	11.73	2.79	11.8		0.003
April'2022								
STOPPED	KILN No.1 (Bag House)	Not in operation						
May'2022								
STOPPED	KILN No.1 (Bag House)	Not in operation						
June'2022								
STOPPED	KILN No.1 (Bag House)	Not in operation						
July'2022								
STOPPED	KILN No.1 (Bag House)	Not in operation						
August'2022								
STOPPED	KILN No.1 (Bag House)	Not in operation						
September'2022								
STOPPED	KILN No.1 (Bag House)	Not in operation						

April'2022								
STOPPED	KILN No. 2 (Bag house)	Not in operation						
May'2022								
STOPPED	KILN No. 2 (Bag house)	Not in operation						
June'2022								
STOPPED	KILN No. 2 (Bag house)	Not in operation						
July'2022								
STOPPED	KILN No. 2 (Bag house)	Not in operation						
August'2022								
STOPPED	KILN No. 2 (Bag house)	Not in operation						
September'2022								
STOPPED	KILN No. 2 (Bag house)	Not in operation						
April'2022								
05.04.2022	KILN No. 3 (Bag House)	15.89	405	13.49	157.72	12.60	12.2	0.172
13.04.2022	KILN No. 3 (Bag House)	15.89	403	12.92	151.81	10.40		0.136
20.04.2022	KILN No. 3 (Bag House)	15.89	398	15.37	182.87	15.60		0.246
26.04.2022	KILN No. 3 (Bag House)	15.89	401	14.54	171.70	10.20		0.151
May'2022								
04.05.2022	KILN No. 3 (Bag House)	15.89	398	13.86	164.90	9.40	10.5	0.134
STOPPED	KILN No. 3 (Bag House)	STOPPED						0.000
23.05.2022	KILN No. 3 (Bag House)	15.89	394	14.38	172.82	11.70		0.175
30.05.2022	KILN No. 3 (Bag House)	15.89	396	12.91	154.37	10.50		0.140
June'2022								
02.06.2022	KILN No. 3 (Bag House)	15.89	394	13.70	164.65	9.80	8.9	0.139
08.06.2022	KILN No. 3 (Bag House)	15.89	398	14.27	169.78	9.30		0.136
16.06.2022	KILN No. 3 (Bag House)	15.89	393	12.88	155.19	7.00		0.094
22.06.2022	KILN No. 3 (Bag House)	15.89	393	15.28	184.11	9.50		0.151
July'2022								
07.07.2022	KILN No. 3 (Bag House)	15.89	387	14.13	172.89	14.20	12.3	0.212
13.07.2022	KILN No. 3 (Bag House)	15.89	393	12.27	147.84	10.40		0.133
20.07.2022	KILN No. 3 (Bag House)	15.89	390	13.24	160.75	12.60		0.175
28.07.2022	KILN No. 3 (Bag House)	15.89	392	13.78	166.46	12.00		0.173
August'2022								
03.08.2022	KILN No. 3 (Bag House)	15.89	391	13.65	165.31	11.60	11.4	0.166
12.08.2022	KILN No. 3 (Bag House)	15.89	381	11.51	143.05	12.60		0.156
17.08.2022	KILN No. 3 (Bag House)	15.89	394	14.25	171.26	9.60		0.142
25.08.2022	KILN No. 3 (Bag House)	15.89	387	13.36	163.47	11.80		0.167
September'2022								
08.09.2022	KILN No. 3 (Bag House)	15.89	398	14.49	172.40	7.80	8.9	0.116
14.09.2022	KILN No. 3 (Bag House)	15.89	391	12.13	146.90	7.70		0.098
20.09.2022	KILN No. 3 (Bag House)	15.89	396	14.02	167.65	13.30		0.193
28.09.2022	KILN No. 3 (Bag House)	15.89	390	12.83	155.78	8.40		0.113
April'2022								
05.04.2022	FOLAX COOLER (E.S.P)	12.56	398	9.33	113.01	14.20	16.5	0.139
12.04.2022	FOLAX COOLER (E.S.P)	12.56	391	9.81	118.44	17.90		0.183
20.04.2022	FOLAX COOLER (E.S.P)	12.56	393	7.93	95.75	16.90		0.140
25.04.2022	FOLAX COOLER (E.S.P)	12.56	395	8.96	108.18	17.10		0.160

May'2022								
04.05.2022	FOLAX COOLER (E.S.P)	12.56	398	4.67	56.38	21.30	20.5	0.104
STOPPED	FOLAX COOLER (E.S.P)	STOPPED						
23.05.2022	FOLAX COOLER (E.S.P)	12.56	381	5.85	70.40	20.20		0.123
30.05.2022	FOLAX COOLER (E.S.P)	12.56	390	6.98	83.73	20.10		0.145
June'2022								
04.06.2022	FOLAX COOLER (E.S.P)	12.56	405	8.15	98.09	18.80	18.6	0.159
10.06.2022	FOLAX COOLER (E.S.P)	12.56	401	7.82	93.51	20.80		0.168
17.06.2022	FOLAX COOLER (E.S.P)	12.56	388	8.88	106.19	15.80		0.145
25.06.2022	FOLAX COOLER (E.S.P)	12.56	393	7.64	91.65	19.10		0.151
July'2022								
07.07.2022	FOLAX COOLER (E.S.P)	12.56	398	7.05	86.52	16.90	15.2	0.126
13.07.2022	FOLAX COOLER (E.S.P)	12.56	405	7.96	97.36	18.10		0.152
20.07.2022	FOLAX COOLER (E.S.P)	12.56	382	9.70	119.04	11.70		0.120
28.07.2022	FOLAX COOLER (E.S.P)	12.56	401	6.26	77.33	14.00		0.094
August'2022								
05.08.2022	FOLAX COOLER (E.S.P)	12.56	408	8.56	105.39	14.50	14.3	0.132
10.08.2022	FOLAX COOLER (E.S.P)	12.56	401	9.20	112.90	14.70		0.143
19.08.2022	FOLAX COOLER (E.S.P)	12.56	388	7.28	89.34	14.10		0.109
24.08.2022	FOLAX COOLER (E.S.P)	12.56	393	7.93	97.63	13.90		0.117
September'2022								
02.09.2022	FOLAX COOLER (E.S.P)	12.56	405	7.86	96.77	11.10	12.7	0.093
10.09.2022	FOLAX COOLER (E.S.P)	12.56	398	8.46	104.16	14.00		0.126
16.09.2022	FOLAX COOLER (E.S.P)	12.56	404	11.38	139.65	13.00		0.157
27.09.2022	FOLAX COOLER (E.S.P)	12.56	398	10.80	132.10	12.80		0.146
April'2022								
STOPPED	COAL MILL - 1 (B.F.)	Not in operation						
May'2022								
STOPPED	COAL MILL - 1 (B.F.)	Not in operation						
June'2022								
STOPPED	COAL MILL - 1 (B.F.)	Not in operation						
July'2022								
STOPPED	COAL MILL - 1 (B.F.)	Not in operation						
August'2022								
STOPPED	COAL MILL - 1 (B.F.)	Not in operation						
September'2022								
STOPPED	COAL MILL - 1 (B.F.)	Not in operation						
April'2022								
STOPPED	COAL MILL - 2 (B.F.)	Not in operation						
May'2022								
STOPPED	COAL MILL - 2 (B.F.)	Not in operation						
June'2022								
STOPPED	COAL MILL - 2 (B.F.)	Not in operation						

July'2022								
STOPPED	COAL MILL - 2 (B.F.)	Not in operation						
August'2022								
STOPPED	COAL MILL - 2 (B.F.)	Not in operation						
September'2022								
STOPPED	COAL MILL - 2 (B.F.)	Not in operation						
April'2022								
07.04.2022	COAL MILL - 3 (B.F.)	3.52	348	9.25	31.50	6.0	5.8	0.016
12.04.2022	COAL MILL - 3 (B.F.)	3.52	344	11.12	37.99	5.8		0.019
19.04.2022	COAL MILL - 3 (B.F.)	3.52	344	11.88	40.59	5.0		0.018
25.04.2022	COAL MILL - 3 (B.F.)	3.52	343	12.25	41.72	6.2		0.022
May'2022								
02.05.2022	COAL MILL - 3 (B.F.)	3.52	351	11.47	38.81	11.2	10.2	0.038
STOPPED	COAL MILL - 3 (B.F.)	STOPPED						0.000
24.05.2022	COAL MILL - 3 (B.F.)	3.52	345	10.89	36.61	10.3		0.033
31.05.2022	COAL MILL - 3 (B.F.)	3.52	349	10.11	33.99	9.1		0.027
June'2022								
02.06.2022	COAL MILL - 3 (B.F.)	3.52	344	10.56	35.50	7.6	9.5	0.023
08.06.2022	COAL MILL - 3 (B.F.)	3.52	341	11.83	39.52	11.9		0.041
16.06.2022	COAL MILL - 3 (B.F.)	3.52	343	11.34	38.00	10.3		0.034
22.06.2022	COAL MILL - 3 (B.F.)	3.52	343	10.02	33.47	8.3		0.024
July'2022								
08.07.2022	COAL MILL - 3 (B.F.)	3.52	338	9.05	31.23	6.6	7.8	0.018
14.07.2022	COAL MILL - 3 (B.F.)	3.52	344	8.90	30.81	9.6		0.026
21.07.2022	COAL MILL - 3 (B.F.)	3.52	337	12.25	42.27	6.4		0.023
27.07.2022	COAL MILL - 3 (B.F.)	3.52	338	10.53	36.21	8.6		0.027
August'2022								
03.08.2022	COAL MILL - 3 (B.F.)	3.52	341	10.45	36.06	6.6	8.6	0.021
12.08.2022	COAL MILL - 3 (B.F.)	3.52	339	10.23	35.30	9.80		0.030
17.08.2022	COAL MILL - 3 (B.F.)	3.52	344	11.99	41.24	9.6		0.034
25.08.2022	COAL MILL - 3 (B.F.)	3.52	343	12.57	43.23	8.3		0.031
September'2022								
08.09.2022	COAL MILL - 3 (B.F.)	3.52	344	10.11	34.77	9.1	7.7	0.027
14.09.2022	COAL MILL - 3 (B.F.)	3.52	335	10.42	35.72	9.5		0.029
20.09.2022	COAL MILL - 3 (B.F.)	3.52	337	12.25	42.13	7.8		0.028
28.09.2022	COAL MILL - 3 (B.F.)	3.52	336	11.68	40.04	4.3		0.015
April'2022								
STOPPED	COAL MILL - 4 (BAG FILTER)	Not in operation						
May'2022								
STOPPED	COAL MILL - 4 (BAG FILTER)	Not in operation						
June'2022								
STOPPED	COAL MILL - 4 (BAG FILTER)	Not in operation						
July'2022								
STOPPED	COAL MILL - 4 (BAG FILTER)	Not in operation						
August'2022								
STOPPED	COAL MILL - 4 (BAG FILTER)	Not in operation						

September'2022								
STOPPED	COAL MILL - 4 (BAG FILTER)	Not in operation						
April'2022								
06.04.2022	CEMENT MILL - 1 (BAG FILTER)	0.28	354	12.61	3.43	12.3	13.2	0.004
12.04.2022	CEMENT MILL - 1 (BAG FILTER)	0.28	353	12.09	3.28	9.6		0.003
18.04.2022	CEMENT MILL - 1 (BAG FILTER)	0.28	357	12.33	3.35	17.6		0.005
STOPPED	CEMENT MILL - 1 (BAG FILTER)	Not in operation						
May'2022								
STOPPED	CEMENT MILL - 1 (BAG FILTER)	Not in operation						
	CEMENT MILL - 1 (BAG FILTER)							
	CEMENT MILL - 1 (BAG FILTER)							
	CEMENT MILL - 1 (BAG FILTER)							
June'2022								
08.06.2022	CEMENT MILL - 1 (BAG FILTER)	0.28	357	13.04	3.47	12.7	10.90	0.004
13.06.2022	CEMENT MILL - 1 (BAG FILTER)	0.28	355	10.47	2.80	10.3		0.002
STOPPED	CEMENT MILL - 1 (BAG FILTER)	STOPPED						0.000
29.06.2022	CEMENT MILL - 1 (BAG FILTER)	0.28	353	13.08	3.51	9.6		0.003
July'2022								
07.07.2022	CEMENT MILL - 1 (BAG FILTER)	0.28	352	11.90	3.26	8.8	9.6	0.002
STOPPED	CEMENT MILL - 1 (BAG FILTER)	STOPPED						0.000
STOPPED	CEMENT MILL - 1 (BAG FILTER)							0.000
25.07.2022	CEMENT MILL - 1 (BAG FILTER)	0.28	353	12.43	3.41	10.4		0.003
August'2022								
02.08.2022	CEMENT MILL - 1 (BAG FILTER)	0.28	354.00	11.03	3.02	11.30	12.50	0.003
08.08.2022	CEMENT MILL - 1 (BAG FILTER)	0.28	357.00	13.15	3.59	11.60		0.004
16.08.2022	CEMENT MILL - 1 (BAG FILTER)	0.28	352.00	11.96	3.27	14.50		0.004
STOPPED	CEMENT MILL - 1 (BAG FILTER)	STOPPED						0.000
September'2022								
05.09.2022	CEMENT MILL - 1 (BAG FILTER)	0.28	350	11.28	3.09	14.10	14.50	0.004
14.09.2022	CEMENT MILL - 1 (BAG FILTER)	0.28	353	12.03	3.28	15.60		0.004
21.09.2022	CEMENT MILL - 1 (BAG FILTER)	0.28	354	11.06	3.03	14.70		0.004
28.09.2022	CEMENT MILL - 1 (BAG FILTER)	0.28	351	13.04	3.57	13.60		0.004
April'2022								
08.04.2022	CEMENT MILL - 2 (BAG FILTER)	0.61	361	10.79	6.39	17.2	14.8	0.009
14.04.2022	CEMENT MILL - 2 (BAG FILTER)	0.61	355	12.35	7.34	11.9		0.008
20.04.2022	CEMENT MILL - 2 (BAG FILTER)	0.61	358	13.22	7.83	15.3		0.010
25.04.2022	CEMENT MILL - 2 (BAG FILTER)	0.61	354	12.05	7.16	14.8		0.009
May'2022								
STOPPED	CEMENT MILL - 2 (BAG FILTER)	Not in operation						
	CEMENT MILL - 2 (BAG FILTER)							
	CEMENT MILL - 2 (BAG FILTER)							
02.05.2022	CEMENT MILL - 2 (BAG FILTER)	0.61	358	13.38	7.80	13.5	13.5	0.009
June'2022								
06.06.2022	CEMENT MILL - 2 (BAG FILTER)	0.61	358	11.94	6.93	11.3	11.7	0.007
15.06.2022	CEMENT MILL - 2 (BAG FILTER)	0.61	357	11.57	6.74	13.4		0.008
23.06.2022	CEMENT MILL - 2 (BAG FILTER)	0.61	359	12.53	7.25	12.3		0.008
30.06.2022	CEMENT MILL - 2 (BAG FILTER)	0.61	357	13.31	7.78	9.7		0.007
July'2022								
05.07.2022	CEMENT MILL - 2 (BAG FILTER)	0.61	366	11.78	7.07	13.2	13.5	0.008
11.07.2022	CEMENT MILL - 2 (BAG FILTER)	0.61	361	12.34	7.38	14.1		0.009
26.07.2022	CEMENT MILL - 2 (BAG FILTER)	0.61	360	12.72	7.63	13.1		0.009
STOPPED	CEMENT MILL - 2 (BAG FILTER)	STOPPED						
August'2022								
03.08.2022	CEMENT MILL - 2 (BAG FILTER)	0.61	368.00	13.57	8.11	14.60	12.80	0.010
09.08.2022	CEMENT MILL - 2 (BAG FILTER)	0.61	357.00	12.66	7.55	12.20		0.008
STOPPED	CEMENT MILL - 2 (BAG FILTER)	STOPPED						
22.08.2022	CEMENT MILL - 2 (BAG FILTER)	0.61	356.00	13.50	8.05	11.50		0.008
September'2022								
03.09.2022	CEMENT MILL - 2 (BAG FILTER)	0.61	358	13.74	8.19	10.1	10.8	0.007
10.09.2022	CEMENT MILL - 2 (BAG FILTER)	0.61	361	11.99	7.12	11.2		0.007
15.09.2022	CEMENT MILL - 2 (BAG FILTER)	0.61	357	13.87	8.24	12.5		0.009
24.09.2022	CEMENT MILL - 2 (BAG FILTER)	0.61	359	12.13	7.23	9.5		0.006
April'2022								
01.04.2022	CEMENT MILL - 3 (BAG FILTER)	0.50	370	13.28	6.46	23.0	20.4	0.013
08.04.2022	CEMENT MILL - 3 (BAG FILTER)	0.50	367	13.91	6.78	21.9		0.013
15.04.2022	CEMENT MILL - 3 (BAG FILTER)	0.50	362	14.12	6.91	16.6		0.010
21.04.2022	CEMENT MILL - 3 (BAG FILTER)	0.50	363	13.15	6.41	20.0		0.011

May'2022								
06.05.2022	CEMENT MILL - 3 (BAG FILTER)	0.50	371	11.14	5.38	20.1	19.5	0.009
14.05.2022	CEMENT MILL - 3 (BAG FILTER)	0.50	373	13.33	6.46	16.2		0.009
19.05.2022	CEMENT MILL - 3 (BAG FILTER)	0.50	374	14.70	7.10	21.2		0.013
26.05.2022	CEMENT MILL - 3 (BAG FILTER)	0.50	375	15.02	7.23	20.5		0.013
June'2022								
03.06.2022	CEMENT MILL - 3 (BAG FILTER)	0.50	368	13.78	6.61	19.7	18.5	0.011
09.06.2022	CEMENT MILL - 3 (BAG FILTER)	0.50	370	14.92	7.11	15.3		0.009
17.06.2022	CEMENT MILL - 3 (BAG FILTER)	0.50	367	12.56	6.01	18.4		0.010
23.06.2022	CEMENT MILL - 3 (BAG FILTER)	0.50	364	13.44	6.45	20.4		0.011
July'2022								
01.07.2022	CEMENT MILL - 3 (BAG FILTER)	0.50	367	12.27	6.04	12.8	12.6	0.007
08.07.2022	CEMENT MILL - 3 (BAG FILTER)	0.50	365	13.24	6.50	10.9		0.006
16.07.2022	CEMENT MILL - 3 (BAG FILTER)	0.50	367	13.86	6.78	13.8		0.008
22.07.2022	CEMENT MILL - 3 (BAG FILTER)	0.50	364	13.44	6.62	12.7		0.007
August'2022								
01.08.2022	CEMENT MILL - 3 (BAG FILTER)	0.50	363	11.61	5.72	10.3	9.3	0.005
08.08.2022	CEMENT MILL - 3 (BAG FILTER)	0.50	360	11.00	5.42	8.8		0.004
17.08.2022	CEMENT MILL - 3 (BAG FILTER)	0.50	361	12.11	5.94	8.0		0.004
26.08.2022	CEMENT MILL - 3 (BAG FILTER)	0.50	359	12.75	6.26	10.2		0.006
September'2022								
08.09.2022	CEMENT MILL - 3 (BAG FILTER)	0.50	368	12.86	6.33	16.3	17.8	0.009
16.09.2022	CEMENT MILL - 3 (BAG FILTER)	0.50	362	13.61	6.66	16.1		0.009
21.09.2022	CEMENT MILL - 3 (BAG FILTER)	0.50	363	12.26	6.02	21.0		0.011
27.09.2022	CEMENT MILL - 3 (BAG FILTER)	0.50	368	13.35	6.53	17.9		0.010
April'2022								
01.04.2022	CEMENT MILL - 4 (BAG FILTER)	0.63	361	11.00	6.71	14.4	15.8	0.008
09.04.2022	CEMENT MILL - 4 (BAG FILTER)	0.63	356	13.18	8.06	18.5		0.013
15.04.2022	CEMENT MILL - 4 (BAG FILTER)	0.63	359	13.61	8.35	16.2		0.012
23.04.2022	CEMENT MILL - 4 (BAG FILTER)	0.63	353	14.29	8.77	13.9		0.011
May'2022								
03.05.2022	CEMENT MILL - 4 (BAG FILTER)	0.63	358	12.12	7.32	16.4	16.4	0.010
11.05.2022	CEMENT MILL - 4 (BAG FILTER)	0.63	355	12.68	7.63	16.1		0.011
19.05.2022	CEMENT MILL - 4 (BAG FILTER)	0.63	356	14.54	8.78	16.9		0.013
28.05.2022	CEMENT MILL - 4 (BAG FILTER)	0.63	357	11.57	6.96	16.1		0.010
June'2022								
02.06.2022	CEMENT MILL - 4 (BAG FILTER)	0.63	353	11.00	6.60	8.9	11.3	0.005
08.06.2022	CEMENT MILL - 4 (BAG FILTER)	0.63	354	13.81	8.26	8.2		0.006
14.06.2022	CEMENT MILL - 4 (BAG FILTER)	0.63	357	12.61	7.56	14.7		0.010
24.06.2022	CEMENT MILL - 4 (BAG FILTER)	0.63	353	13.23	7.99	13.4		0.009
July'2022								
04.07.2022	CEMENT MILL - 4 (BAG FILTER)	0.63	361	11.00	6.77	9.1	8.9	0.005
12.07.2022	CEMENT MILL - 4 (BAG FILTER)	0.63	354	12.61	7.79	9.9		0.007
21.07.2022	CEMENT MILL - 4 (BAG FILTER)	0.63	359	12.25	7.59	10.2		0.007
25.07.2022	CEMENT MILL - 4 (BAG FILTER)	0.63	357	13.41	8.28	6.3		0.005
August'2022								
01.08.2022	CEMENT MILL - 4 (BAG FILTER)	0.63	348	12.83	7.90	11.4	10.2	0.008
09.08.2022	CEMENT MILL - 4 (BAG FILTER)	0.63	350	12.48	7.71	8.5		0.006
17.08.2022	CEMENT MILL - 4 (BAG FILTER)	0.63	353	12.20	7.53	13.6		0.009
27.08.2022	CEMENT MILL - 4 (BAG FILTER)	0.63	355	14.03	8.66	7.4		0.006
September'2022								
06.09.2022	CEMENT MILL - 4 (BAG FILTER)	0.63	354	12.61	7.76	12.8	13.4	0.009
12.09.2022	CEMENT MILL - 4 (BAG FILTER)	0.63	353	12.15	7.48	11.7		0.008
20.09.2022	CEMENT MILL - 4 (BAG FILTER)	0.63	350	12.92	7.93	14.7		0.010
28.09.2022	CEMENT MILL - 4 (BAG FILTER)	0.63	349	13.57	8.33	14.3		0.010

Vimta Labs Limited

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**ISSUED TO:**

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

Report Number : VLL/VLS/22/04986/001
Issue Date : 2022/07/07
P.O. Number : 4600082694
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
Kailash Nagar, Nimbahera

Sampling Location : Coal Mill-3

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

Stack Height : 47.5 m

Height of Sampling Point : 32.2 m

Stack Diameter at Test Location : 2.12 m

S.no	Test Id	Time (Hrs)	Temp. (°C)	Velocity (m/s)	Flow Rate (Nm³/S)	Particulate Matter (mg/Nm³)
1	1 st	10:30	70	11.16	30.12	11.5
2	2 nd	11:00	72	10.37	27.8	9.3
3	3 rd	11:35	72	10.88	29.2	10.1


Dr. SubbaReddy Mallampati
Deputy Manager-Environment

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**ISSUED TO:**

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

Report Number : VLL/VLS/22/04986/002
Issue Date : 2022/07/07
P.O. Number : 4600082694
P.O. Date : 03/06/2022

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Sample Registration Date : 2022/06/27	Sampling Date : 2022/06/10
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
Kailash Nagar, NimbaHERA

Sampling Location : Kiln-3 Stack


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

Stack Height : 174.600 m

Height of Sampling Point : 115.4 m

Stack Diameter at Test Location : 4.5 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	1 st	15:45	126	7.6	22.3	14.4	681.2	12.92	151	6.4
2	2 nd	16:40	127	7.82	21.98	18	659.1	10.72	124	7.5
3	3 rd	17:20	125	7.9	22.2	21.6	668.2	11.04	128	7.2


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

Report Number : VLL/VLS/22/04986/003
Issue Date : 2022/07/07
P.O. Number : 4600082694
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
Kailash Nagar, Nimbaheera

Sampling Location : Cooler Stack

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

Stack Height : 54.65 m

Height of Sampling Point : 46.30 m

Stack Diameter at Test Location : 4.0 m

S.no	Test Id	Time (Hrs)	Temp. (°C)	Velocity (m/s)	Flow Rate (Nm³/s)	Particulate Matter (mg/Nm³)
1	1 st	15:30	120	7.4	66.6	20.7
2	2 nd	16:20	120	7.4	67.2	13.7
3	3 rd	17:30	119	7.4	66.75	17.6

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**ISSUED TO:**

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

Report Number : VLL/VLS/22/04986/004
Issue Date : 2022/07/07
P.O. Number : 4600082694
P.O. Date : 03/06/2022

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Sample Registration Date : 2022/06/27	Sampling Date : 2022/06/13
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
Kailash Nagar, Nimbahera

Sampling Location : HRP Stack

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

Stack Height : 58.0 m

Height of Sampling Point : 50.0m

Stack Diameter at Test Location : 3.0m

S.no	Test Id	Time (Hrs)	Temp. (°C)	Velocity (m/s)	Flow Rate (Nm³/S)	Particulate Matter (mg/Nm³)
1	1 st	9:30	84	13.8	77.6	13.6
2	2 nd	10:30	86	13.7	77.18	17.1
3	3 rd	11:40	87	13.9	76.96	15.1

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**ISSUED TO:**

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

Report Number : VLL/VLS/22/04986/005
Issue Date : 2022/07/07
P.O. Number : 4600082694
P.O. Date : 03/06/2022

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Sample Registration Date : 2022/06/27	Sampling Date : 2022/06/13
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
Kailash Nagar, Nimbahera
Sampling Location : Cement mill-4
Test protocol : IS:11255 Part-1,2003, IS: Part-3, 2008, USEPA
Method No. 3A, 6C & 10B
Stack Height : 30.0 m
Height of Sampling Point : 25.33 m
Stack Diameter at Test Location : 0.9 m

S.no	Test Id	Time (Hrs)	Temp. (°C)	Velocity (m/s)	Flow Rate (Nm ³ /S)	Particulate Matter (mg/Nm ³)
1	1st	15:00	84	17.4	8.74	10.8
2	2nd	16:00	84	17.4	8.74	9.5
3	3rd	17:00	83	17.4	8.77	7.6

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**ISSUED TO:**

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

Report Number : VLL/VLS/22/04986/006
Issue Date : 2022/07/07
P.O. Number : 4600082694
P.O. Date : 03/06/2022

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Sample Registration Date : 2022/06/27	Sampling Date : 2022/06/14
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
Kailash Nagar, Nimbahera

Sampling Location : Cement mill-3

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

Stack Height : 30.0 m

Height of Sampling Point : 21.86 m

Stack Diameter at Test Location : 0.6 m

S.no	Test Id	Time (Hrs)	Temp. (°C)	Velocity (m/s)	Flow Rate (Nm³/S)	Particulate Matter (mg/Nm³)
1	1 st	9:40	100	15.1	40.66	16.55
2	2 nd	10:35	101	15.1	40.55	18.45
3	3 rd	11:30	98	15.1	40.88	21.6

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**ISSUED TO:**

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

Report Number : VLL/VLS/22/04986/007
Issue Date : 2022/07/07
P.O. Number : 4600082694
P.O. Date : 03/06/2022

Page 1 of 1

Sample Registration Date : 2022/06/27 Sampling Date : 2022/06/14
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
Kailash Nagar, Nimbahera
Sampling Location : Cement mill-2
Test protocol : IS:11255 Part-1, 2003, IS: Part-3, 2008, USEPA
Method No. 3A, 6C & 10B
Stack Height : 30.0 m
Height of Sampling Point : 21.12 m
Stack Diameter at Test Location : 0.65 m

S.no	Test Id	Time (Hrs)	Temp. (°C)	Velocity (m/s)	Flow Rate (Nm ³ /S)	Particulate Matter (mg/Nm ³)
1	1 st	14:15	84	16.9	4.47	6.9
2	2 nd	15:25	88	16.9	4.42	8.7
3	3 rd	16:40	87	16.9	4.43	12.6

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

Report Number : VLL/VLS/22/04986/008
Issue Date : 2022/07/07
P.O. Number : 4600082694
P.O. Date : 03/06/2022

Page 1 of 1

Sample Registration Date : 2022/06/27	Sampling Date : 2022/06/15
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 Kailash Nagar, Nimbahera
Sampling Location	: Cement mill-1
Test protocol	: IS:11255 Part-1,2003, IS: Part-3, 2008, USEPA Method No. 3A, 6C & 10B
Stack Height	: 30.0 m
Height of Sampling Point	: 25.22 m
Stack Diameter at Test Location	: 0.63 m

S.no	Test Id	Time (Hrs)	Temp. (°C)	Velocity (m/s)	Flow Rate (Nm³/S)	Particulate Matter (mg/Nm³)
1	1 st	9:30	84	17.2	4.26	7.5
2	2 nd	10:40	86	17.2	4.23	6.2
3	3 rd	11:55	86	17.2	4.22	8.1

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ISSUED TO:

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

Report Number : VLL/VLS/22/04986/009
Issue Date : 2022/07/07
P.O. Number : 4600082694
P.O. Date : 03/06/2022

Page 1 of 1

Sample Registration Date : 2022/06/27	Sampling Date : 2022/06/15
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
Kailash Nagar, Nimbahera

Sampling Location : LS Crusher

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 : 22.2 m

Stack Diameter at Test Location : 0.58 m

S.no	Test Id	Time (Hrs)	Temp. (°C)	Velocity (m/s)	Flow Rate (Nm³/s)	Particulate Matter (mg/Nm³)
1	1 st	14:05	50	15.3	10.51	10.5
2	2 nd	15:10	50	15.2	10.44	11.8
3	3 rd	16:20	50	15.2	10.44	14

Dr. Subba Reddy Mallampati
Deputy Manager-Environment

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

Report No. : **2135**

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 , Plant - J.K. Cement Works [190] ,Nimbahera, Kailash Nagar , City- Ahirpura Tehsil- Nimbahera , District- Chittorgarh M.L.No-2/97** Collected from **Stack monitoring of raw mill klin line-3 attached with bag house.** Collected on **06/07/2022**. 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	9.35

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. : **2136**

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 , Plant - J.K. Cement Works [190] ,Nimbahera, Kailash Nagar , City- Ahirpura Tehsil- Nimbahera , District- Chittorgarh M.I. No- 2/97** Collected from **Stack monitoring of COOLER attached with E.S.P. Line-3** Collected on **06/07/2022**. 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	12.20

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. : **2137**

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 , Plant - J.K. Cement Works [190] ,Nimbahera, Kailash Nagar , City- Ahirpura Tehsil- Nimbahera , District- Chittorgarh M.I. No- 2/97** Collected from **Stack monitoring of cement mill-3 attached with bag house.** Collected on **06/07/2022**. 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	5.37

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. : **2138**

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 , Plant - J.K. Cement Works [190] ,Nimbahera, Kailash Nagar , City- Ahirpura Tehsil- Nimbahera , District- Chittorgarh ~~M.L. No- 2/97~~ Collected from Stack monitoring of cement mill-2 attached with bag house. Collected on 06/07/2022. 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	20.74

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. : **2139**

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 , Plant - J.K. Cement Works [190] ,Nimbahera, Kailash Nagar , City- Ahirpura Tehsil- Nimbahera , District- Chittorgarh M.L. No- 2/97** Collected from **Stack monitoring of cement mill-4 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	9.71

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. : **2140**

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 , Plant - J.K. Cement Works [190] ,Nimbahera, Kailash Nagar , City- Ahirpura Tehsil- Nimbahera , District- Chittorgarh M.L.No-2/97** Collected from **Stack monitoring of coal mill-3 VRM 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	17.95

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. : **2141**

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 , Plant - J.K. Cement Works [190] ,Nimbahera, Kailash Nagar , City- Ahirpura Tehsil- Nimbahera , District- Chittorgarh ~~M.L. No- 2/97~~** Collected from **Stack monitoring of HRP cement mill attached with bag house.** Collected on **06/07/2022**. 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	13.16

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. : **2142**

Report On : **18/07/2022**

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 , Plant - J.K. Cement Works [190] ,Nimbahera, Kailash Nagar , City- Ahirpura Tehsil- Nimbahera , District- Chittorgarh M.L.No-2/97** Collected from **Stack monitoring of cement mill-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 **18/07/2022** and declare the result of the analysis to be as below :-

S. No.	Parameters	Result
1	Particulate Matter mg/Nm ³	13.03

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

Signed This On **18/07/2022**


BOARD ANALYST

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

Vimta Labs Limited

Registered Office
142, IDA Phase II, Cherlapally
Hyderabad-500 051, India
T : +91 40 2726 4141
F : +91 40 2726 3657



Driven by Quality. Inspired by Science.

ISSUED TO:

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

Report Number : VLL/VLS/22/04986/010
Issued Date : 2022/07/07
P.O. Ref : 4600082694
P.O. Date : 03/06/2022

Page 1 of 2

SAMPLE PARTICULARS : Stack Connected to Bag House Kiln-III

Sample Registration Date	: 2022/06/27	Sample Collection Date	: 2022/06/10
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	-	4.5	--
2	Flue gas temperature	°C	-	126	--
3	Fuel	-	Co-processing of AFR Liquid and Solid waste	--	--
4	Velocity	m/sec	USEPA Method -3	11.56	--
5	Volumetric flow rate	Nm ³ /Sec		121.48	--
6	Oxygen as O ₂	%	Combustion Analyzer	7.7	--
7	Carbon Monoxide as CO	mg/Nm ³		88.2	<100.0
8	Carbon Dioxide as CO ₂	%		22.2	--
9	Sulphur Dioxide	mg/Nm ³		18	<100.0
10	Oxides of Nitrogen, NO _x as NO ₂	mg/Nm ³		670	<1000.0
11	Particulate Matter	mg/Nm ³	USEPA method-5	7.03	<30.0
12	Hydrogen Chloride as HCl	mg/Nm ³	USEPA method -26	3.5	<10.0
13	Hydrogen Fluoride as HF	mg/Nm ³	USEPA method -13	0.76	<1.0
14	Total Organic Compounds as TOC	mg/nm ³	USEPA method -40 & MM5(10)	2.2	<10.0

All the Values are represented at 10% O₂


Dr. SubbaReddy Mallampati
Dy. Manager-Environment.

Vimta Labs Limited

Registered Office
142, IDA Phase II, Cherlapally
Hyderabad-500 051, India
T : +91 40 2726 4141
F : +91 40 2726 3657

**ISSUED TO:**

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

Report Number : VLL/VLS/22/04986/010
Issued Date : 2022/07/07
P.O. Ref : 4600082694
P.O. Date : 03/06/2022

Page 2 of 2

SAMPLE PARTICULARS : Stack Connected to Bag House Kiln-III

Sample Registration Date	: 2022/06/27	Sample Collection Date	: 2022/06/10
Analysis Starting Date	: 2022/06/27	Analysis Completion Date	: 2022/07/07
Test Required	: Heavy Metals And its 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			0.009	--
	Manganese as Mn + their Compound			0.014	
	Arsenic as As + their Compound			0.016	
	Antimony as Sb + their Compound			0.011	
	Lead as Pb + their Compound			0.009	
	Cobalt as Co + their Compound			0.026	
	Copper as Cu + their Compound			0.018	
	Nickel as Ni + their Compound			0.022	
	Vanadium as V + their Compound			0.017	
	Sb+ As+ Pb+ Co+ Cr+ Cu+ Mn+ Ni+ V+ Their compounds			0.142	< 0.5

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

Dr. SubbaReddy Mallampati
Dy. Manager-Environment.

Vimta Labs Limited

Registered Office
142, IDA Phase II, Cherlapally
Hyderabad-500 051, India
T : +91 40 2726 4141
F : +91 40 2726 3657

**ISSUED TO:**

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

Report Number : VLL/VLS/22/04986/011
Issued Date : 2022/07/07
P.O. Ref : 4600082694
P.O. Date : 03/06/2022

Page 1 of 1

SAMPLE PARTICULARS : Stack Connected to Bag House Kiln-III

Sample Registration Date	: 2022/06/27	Sample Collection Date	: 2022/06/10
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.	Congeners of Dioxin & Furans	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/Nm ³ , TEQ	0.0135
Total Furans & Dioxins		ng/Nm ³ , TEQ Corrected to 10% O ₂ Concentration	0.0112
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 ng

Dr. SubbaReddy Mallampati
Dy. Manager-Environment.



Head Office (CPM)
Rajasthan State Pollution Control Board
4, Institutional Area, Jhalana Doongari, Jaipur-302 004
Phone: 0141-5159600,5159695



Registered

File No : F(CPM)/Chittorgarh(Nimbahera)/4002(1)/2020-2021/1203-1205

Order No : 2022-2023/CPM/8585

Dispatch Date: Jul 18 2022 3:09PM

Unit Id : 190

M/s J.K.Cement Works

Kailash Nagar , Nimbahera Tehsil:Nimbahera

District:Chittorgarh

Sub: Consent to Establish under Section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 and under Section 21(4) of Air (Prevention & Control of Pollution) Act, 1981.

Ref: Your application(s) for Consent to Establish dated 18/02/2022 and subsequent correspondence.

Sir,

Consent to Establish under the provisions of Section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 (hereinafter to be referred as the Water Act) and under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981, (hereinafter to be referred as the Air Act) as amended to date and rules & the orders issued thereunder **,is hereby granted** for your **J.K. Cement Works plant** situated / proposed at **Nimbahera, Kailash Nagar Nimbahera Tehsil:Nimbahera District:Chittorgarh** , Rajasthan under the provisions of the said Act(s). This consent is granted on the basis of examination of the information furnished by you in consent application(s) and the documents submitted therewith, subject to the following conditions:-

- 1** That this Consent to Establish is valid for a period from **18/02/2022** to **31/01/2027 or date of commencement of production / commissioning of the project or activities whichever is earlier .**
- 2** That this Consent is granted for manufacturing / producing following products / by products or carrying out the following activities or operation/processes or providing following services with capacities given below:

Particular	Type	Quantity / Capacity
CLINKER	Product	0.40 MILLION TONES PER ANNUM

- 3** That in case of any increase in capacity or addition / modification / alteration or change in product mix or process or raw material or fuel, the project proponent is required to obtain fresh consent to establish.

Signature Not Verified

Digitally signed by Vishnu Datt
Purohit
Date: 2022.07.18 15:09:39 IST
Reason: Self Attested
Location:





Head Office (CPM)
Rajasthan State Pollution Control Board
4, Institutional Area, Jhalana Doongari, Jaipur-302 004
Phone: 0141-5159600,5159695

Registered

File No : F(CPM)/Chittorgarh(Nimbahera)/4002(1)/2020-2021/1203-1205

Order No : 2022-2023/CPM/8585

Dispatch Date: Jul 18 2022 3:09PM

Unit Id : 190

- 4 That the control equipment as proposed by the applicant shall be installed before trial operation is started for which prior consent to operate under the provision of the **Water Act and Air Act** shall be obtained. This consent to establish shall not be treated as consent to operate.
- 5 That this consent to establish is valid for the production of Clinker upto 0.4 MTPA by process optimisation & debottlenecking only in Line-III.
- 6 That the industry shall not install any additional plant & machinery and make any investment under this consent. Moreover, no additional water requirement shall be made.
- 7 That no hazardous waste/ non-hazardous waste shall be used/co-processed in cement kiln without obtaining prior permission from CPCB & RSPCB as per the provisions of the Hazardous and Other Waste(Management & Transboundary) Rules, 2016 and consent to establish/operate from the State Board, if applicable.
- 8 That guidelines on co-processing in cement/power industries issued by the Central Pollution Control Board shall be complied, if applicable.
- 9 That for the control of fugitive emission guidelines / code of practice as issued by the CPCB will be followed.
- 10 That the industry shall comply with the revised emission standards as notified by the MoEF & CC, GoI New Delhi for cement plants vide gazette notification dated 25/08/2014(without co-processing of waste) subsequently amended on 9/05/2016 and notified vide notification dated 10/05/2016(with co-processing of waste), whichever is applicable.
- 11 That the industry shall comply with all the directions issued by MoEF&CC, GoI & CPCB for compliance of revised emission norms.
- 12 That the industry shall comply with all the condition of Environment Clearance issued vide letter No- 1 A-J-11011/243/2016-1 A II(I) dated 14/02/2022.
- 13 That the industry shall submit yearly Environmental Audit Statement on or before September of every year.
- 14 That all the other conditions and standards as imposed vide order no. 2021-2022/CPM/5724 dated 13.08.2021 shall be complied strictly.
- 15 That the industry shall comply with the standards as prescribed vide MOEF notification no. GSR 826(E) dated 16th November, 2009 with respect to National Ambient Air Quality.
- 16 That the industry shall ensure compliance of ambient air quality standard in respect of noise as prescribed under Environment (Protection) Act & Rules made therein.

Signature Not Verified

Digitally signed by Vishnu Datt
Purohit
Date: 2022.07.18 15:09:39 IST
Reason: Self Attested
Location:





Head Office (CPM)
Rajasthan State Pollution Control Board
4, Institutional Area, Jhalana Doongari, Jaipur-302 004
Phone: 0141-5159600,5159695

Registered

File No : F(CPM)/Chittorgarh(Nimbahera)/4002(1)/2020-2021/1203-1205

Order No : 2022-2023/CPM/8585

Dispatch Date: Jul 18 2022 3:09PM

Unit Id : 190

- 17 That this consent to establish shall be subject to compliance of direction or order passed by NGT/Hon'ble Court of Law in if any in the matter.
- 18 That the industry shall submit the half-yearly compliance report of all the above conditions to the State Board.
- 19 That the proposed expansion shall not be commissioned without prior consent to operate.
- 20 That the industry shall not exceed the quantity of petcoke use from 3,20,000 MTPA without prior consent from the Board.
- 21 That, notwithstanding anything provided hereinabove, the State Board shall have the power and reserves its right, as contained **under Section 27(2) of the Water Act and under Section 21(6) of the Air Act** to review anyone or all of the conditions imposed here in above and to make such variation as it deems fit for the purpose of compliance of the **Water Act and Air Act**.
- 22 That the grant of this **Consent to Establish** is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the industry/ unit/ project proponent.
- 23 That the grant of this **Consent to Establish** shall not, in any way, adversely affect or jeopardize the legal proceedings, if any, instituted in the past or that could be instituted against you by the State Board for violation of the provisions of the Act or the Rules made thereunder.

This **Consent to Establish** shall also be subject, besides the aforesaid specific conditions, to the general conditions given in the enclosed Annexure. The project proponent will comply with the provisions of the **Water Act and Air Act** and to such other conditions as may, from time to time, be specified by the State Board under the provisions of the aforesaid Act(s). Please note that, non compliance of any of the above stated conditions would tantamount to revocation of **Consent to Establish** and project proponent / occupier shall be liable for legal action under the relevant provisions of the said Act(s).

Signature Not Verified

Digitally signed by Vishnu Datt
Purohit
Date: 2022.07.18 15:09:39 IST
Reason: Self Attested
Location:





Head Office (CPM)
Rajasthan State Pollution Control Board
4, Institutional Area, Jhalana Doongari, Jaipur-302 004
Phone: 0141-5159600,5159695

Registered

File No : F(CPM)/Chittorgarh(Nimbahera)/4002(1)/2020-2021/1203-1205

Order No : 2022-2023/CPM/8585

Dispatch Date: Jul 18 2022 3:09PM

Unit Id : 190

This bears approval of the competent authority.

Yours sincerely,

Group Incharge[CPM]

(A): Copy to:-

- 1 Regional Officer, Regional Office, Rajasthan State Pollution Control Board, Chittorgarh to ensure the compliance.
- 2 Master File.

Group Incharge[CPM]

Signature Not Verified

Digitally signed by Vishnu Datt
Purohit
Date: 2022.07.18 15:09:39 IST
Reason: SelfAttested
Location:





Head Office (CPM)
Rajasthan State Pollution Control Board
4, Institutional Area, Jhalana Doongari, Jaipur-302 004
Phone: 0141-5159600,5159695



Registered

File No : F(HSW)/Chittorgarh(Nimbahera)/20(1)/2022-2023/2567-2569

Order No : 2022-2023/CPM/8620

Date: Sep 22 2022 5:40PM

Unit Id : 190

M/s J.K.Cement Works

Kailash Nagar , Nimbahera Tehsil:Nimbahera

District:Chittorgarh

Sub: **Consent to Operate** under Section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 and under Section 21(4) of Air (Prevention & Control of Pollution) Act, 1981.

Ref: Your application for Consent to Operate dated 29/06/2022 and subsequent correspondence.

Sir,

Consent to Operate under the provisions of Section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 (hereinafter to be referred as the Water Act) and under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981, (hereinafter to be referred as the Air Act) as amended to date and rules & the orders issued thereunder **is hereby granted** for your **J.K. Cement Works plant** situated at **Nimbahera, Kailash Nagar Nimbahera Tehsil:Nimbahera District:Chittorgarh** , Rajasthan, subject to the following conditions:-

- 1 That this Consent to Operate is valid for a period from **29/10/2022** to **30/09/2027** .
- 2 That this Consent is granted for manufacturing / producing following products / by products or carrying out the following activities or operation/processes or providing following services with capacities given below:

Particular	Type	Quantity with Unit
CEMENT	Product	4.90 MILLION TONES PER ANNUM
CLINKER	Product	3.20 MILLION TONNES PER ANNUM

- 3 That this Consent to Operate is for existing plant, process & capacity and separate Consent to Establish/Operate is required to be taken for any addition / modification / alteration in process or change in capacity or change in fuel.
- 4 That the quantity of effluent generation along with mode of disposal for the treated effluent shall be as under:

Signature Not Verified

Digitally signed by Vishnu Datt
Purohit
Date: 2022.09.22 17:42:55 IST
Reason: Self Attested
Location:





Head Office (CPM)
Rajasthan State Pollution Control Board
4, Institutional Area, Jhalana Doongari, Jaipur-302 004
Phone: 0141-5159600,5159695

Registered

File No : F(HSW)/Chittorgarh(Nimbahera)/20(1)/2022-2023/2567-2569

Order No : 2022-2023/CPM/8620

Date: Sep 22 2022 5:40PM

Unit Id : 190

Type of effluent	Max. effluent generation (KLD)	Recycled Qty of Effluent (KLD)	Disposed Qty of effluent (KLD)and mode of disposal
Domestic Sewage	12.000	NIL	12.000 To be treated in STP and to be utilized in plantation and horticulture within the factory premises

- 5 That the sources of air emissions along with pollution control measures and the emission standards for the prescribed parameters shall be as under:

Sources of Air Emissions	Pollution Control Measures	Prescribed	
		Parameter	Standard
Four Cement Mills	ADEQUATE STACK HEIGHT , Bag House	Particulate Matter	30 mg/Nm3
Four Coal Mills	ADEQUATE STACK HEIGHT , Bag House	Particulate Matter	30 mg/Nm3

Kiln-1 and Kiln-2 (SLC Technology)

ADEQUATE STACK HEIGHT , Bag House

HCL 10 mg/Nm3

SO2 100 mg/Nm3

Total Organic Carbon 10 mg/Nm3

HF 1 mg/Nm3

Total dioxins and furans 0.1 ngTEQ/Nm3

Particulate Matter 30 mg/Nm3

Signature Not Verified

Digitally signed by Vishnu Datt Purohit
Date: 2022.09.22 17:42:55 IST
Reason: SelfAttested
Location:





Head Office (CPM)
Rajasthan State Pollution Control Board
4, Institutional Area, Jhalana Doongari, Jaipur-302 004
Phone: 0141-5159600,5159695

Registered

File No : F(HSW)/Chittorgarh(Nimbahera)/20(1)/2022-2023/2567-2569
Order No : 2022-2023/CPM/8620
Unit Id : 190

Date: Sep 22 2022 5:40PM

		NOx Cd + Th +their compounds Hg and its compounds Sb + As + Pb + Co+ Cr + Cu + Mn + Ni + V + their compounds	1000 mg/Nm3 0.05 mg/Nm3 0.05 mg/Nm3 0.5 mg/Nm3
Kiln-3 (ILC Technology)	ADEQUATE STACK HEIGHT , Bag House	HCL SO2 Total Organic Carbon HF Total dioxins and furans Particulate Matter NOx Cd + Th +their compounds Hg and its compounds Sb + As + Pb + Co+ Cr + Cu + Mn + Ni + V + their compounds	10 mg/Nm3 100 mg/NM3 10 mg/Nm3 1 mg/Nm3 0.1 ngTEQ/Nm3 30 mg/NM3 800 mg/NM3 0.05 mg/Nm3 0.05 mg/Nm3 0.5 mg/Nm3
One Cement Mill HRP	ADEQUATE STACK HEIGHT , Bag House	Particulate Matter	30 mg/Nm3

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File No : F(HSW)/Chittorgarh(Nimbahera)/20(1)/2022-2023/2567-2569

Order No : 2022-2023/CPM/8620

Date: Sep 22 2022 5:40PM

Unit Id : 190

One Clinker Cooler	ADEQUATE STACK HEIGHT , ESP	Particulate Matter	30 mg/NM3
--------------------	--------------------------------	-----------------------	-----------

- 6 That the **J.K. Cement Works plant** will comply with the standards as prescribed vide MoEF notification No. GSR 826(E) dated 16th November, 2009 with respect to National Ambient Air Quality Standards.
- 7 That the domestic sewage shall be treated before disposal so as to conform to the standards prescribed under the Environvent (Protection) Act-1986for disposal **Into Inland Surface Water**. The main parameters for regular monitoring shall be as under:

Parameters	Standards
Total Suspended Solids	Not to exceed 100 mg/l
pH Value	Between 5.5 to 9.0
Oil and Grease	Not to exceed 10 mg/l
Total Residual Chlorine	Not to exceed 1.0 mg/l
Ammonical Nitrogen (as N)	Not to exceed 50 mg/l
Biochemical Oxygen Demand (3 days at 27°C)	Not to exceed 30 mg/l
Chemical Oxygen Demand	Not to exceed 250 mg/l

- 8 That the industry shall obtain all necessary permission from concerning authority and district administration Chittorgarh for operation of expansion project.
- 9 That this consent to operate is valid for production of Clinker - 3.2 Million Tones/Annum (including existing 2.80 Million Tons/Annum + 0.40 Million Tons/Annum by process optimization & debottlenecking only in Line-III) and Cement - 4.90 Million Tones/Annum in the existing premises with the help of three kilns, four cement mills, four coal mills and one clinker cooler and one cement mill HRP only. For any change in quantity and number of products & by-products etc, the industry has to seek fresh consent to establish.
- 10 That no fuel other than coal/petcoke/carbon black/biomass/AFR shall be used as fuel in the kiln and quantity of petcoke use shall not exceed to 3,18,450 tons per annum (29915 tons per month) without prior consent from the State Board.

Signature Not Verified

Digitally signed by Vishnu Datt
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Date: 2022.09.22 17:42:55 IST
Reason: SelfAttested
Location:





Head Office (CPM)
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4, Institutional Area, Jhalana Doongari, Jaipur-302 004
Phone: 0141-5159600,5159695

Registered

File No : F(HSW)/Chittorgarh(Nimbahera)/20(1)/2022-2023/2567-2569

Order No : 2022-2023/CPM/8620

Date: Sep 22 2022 5:40PM

Unit Id : 190

- 11 That this consent to operate is being issued considering capital investment of Rs. 913.87 crores. In case project cost exceeds 913.87 crores the industry shall obtain modification in consent to operate after paying fee as applicable.
- 12 That the industry shall ensure compliance of all the conditions mentioned in the Environmental Clearance issued by the MoEF & CC New Delhi, vide letter no .F.No 1A-J-11011/243/2016-1A II(I) dated 14.02.2022.
- 13 That no hazardous waste/ non-hazardous waste shall be used/co-processed in the cement kiln without obtaining prior permission from CPCB & RPCB as per the provisions of the Hazardous and Other Waste(Management & Transboundary) Rules,2016.
- 14 That all the recommendations made in the Charter on Corporate Responsibility for Environmental Protection for Cement Plants shall be implemented.
- 15 That the guidelines for pre-processing and co-processing of Hazardous and other waste in cement plants of July, 2017 issued by the Central Pollution Control Board shall be complied.
- 16 That the industry shall procure pet coke from Board's registered producer or refineries and their Board's registered / authorized dealers only or may import directly.
- 17 That the industry may import the petcoke for its own use only and consignment shall be in the name of the industry. For import of petcoke the industry shall obtain registration from the State Board.
- 18 That the trading of pet coke by the industry is not permitted.
- 19 That the industry shall submit details of pet coke purchased from various sources during the month (imported, purchased from refineries or authorized dealers),quantity consumed during the month and opening and closing stock to the State Board on monthly basis.
- 20 That the industry shall comply with all other directions as contained in the notification dated 19/01/2018 & 25/05/2018 related to sale and use of petcoke and "Guidelines for Regulation and Monitoring of Petcoke in India" dated 10/09/2018 issued by the MOEF&CC, New Delhi and any other directions issued by the MoEF&CC & State Pollution Control Board in this regard.
- 21 That furnace oil shall not be used as fuel in compliance to the order dated 24/10/2017 of Hon'ble Supreme Court, wherein ban has been imposed on the use of furnace oil in the State of Rajasthan.
- 22 That all the raw materials and products shall be stored in closed covered shed.
- 23 That for the control of fugitive emission guidelines / code of practice as issued by the CPCB will be followed.

Signature Not Verified

Digitally signed by Vishnu Datt
Purohit
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Reason: Self Attested
Location:





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Phone: 0141-5159600,5159695

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Order No : 2022-2023/CPM/8620

Date: Sep 22 2022 5:40PM

Unit Id : 190

- 24 That the unit shall maintain online continuous monitoring systems at all the main stacks (attached to kiln, coal/pet coke mill, cement mills and clinker cooler etc) to monitor the emission level of particulate matter(PM), SO₂ and NO_x etc. (at kiln stack)and connectivity of the same shall be ensured with RPCB/CPCB server.
- 25 That the industry shall comply with the emission standards as notified by the MoEF, GoI New Delhi for cement plants vide gazette notification dated 25/08/2014(without co-processing of waste) subsequently amended on 09/05/2016(without co-processing of hazardous and other waste), and 10/05/2016 (with co-processing of hazardous & other waste), whichever is applicable.
- 26 That the industry shall comply with all the directions issued by the MoEF&CC, GoI & CPCB for compliance of revised emission norms.
- 27 That the industry shall maintain adequate height of stack and adequate air pollution control measures at all the sources of air emissions so as to maintain the prescribed emission standards.
- 28 That industry shall maintain safe & adequate infrastructure facility in accordance with the emission regulation part-III issued by the Central Pollution Control Board at all the stacks viz, kiln, cooler, cement mill and coal/pet coke mill etc for stack emission monitoring.
- 29 That no additional source of air emission shall be installed without prior consent from the State Board.
- 30 That closed conveyor belts shall be used for the transfer of material to minimize the fugitive emissions.
- 31 That the industry shall maintain dust collection and extraction system to control fugitive dust emissions at all the transfer points and loading/unloading areas.
- 32 That cemented roads shall be provided & maintained inside the premises to minimize the fugitive emissions due to vehicular movements.
- 33 That water sprinkling and cleaning of roads by vacuum cleaner shall be done regularly to control the fugitive emissions generated due to vehicular movement.
- 34 That the industry shall maintain good housekeeping within plant premises so that fugitive emissions can be controlled/maintained.
- 35 That the recommendations of the policy briefs related to human health risk due to cement dust exposures shall be complied.
- 36 That the power supply to the production/process shall be interlocked with the pollution control equipments such that in the event of non- functioning of the pollution control equipment/or increase in levels of pollutants, the production process stops automatically.

Signature Not Verified

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File No : F(HSW)/Chittorgarh(Nimbahera)/20(1)/2022-2023/2567-2569

Order No : 2022-2023/CPM/8620

Date: Sep 22 2022 5:40PM

Unit Id : 190

- 37 That separate energy meter & hour meter shall be provided and maintained at all the air pollution control measures & ETP/STP and daily record of running hours of pollution control measures and energy consumption shall be maintained in log book.
- 38 That the water meter shall be installed and maintained at all the bore wells to measure the quantity of daily ground water withdrawal and record of the same shall be maintained on daily basis.
- 39 That domestic waste water (12 KLD) generated from the cement plant premises shall be treated through sewage treatment plant located in the colony upto the standards as mentioned at condition no. 7 and treated domestic waste water shall be used for plantation/ horticulture purpose within the premises.
- 40 That no trade effluent and domestic waste water will be discharged inside or outside the factory premises in to a stream or well or sewer or on land.
- 41 That suitable flow measuring devices/ meters on the inlet and outlet of sewage treatment plant shall be maintained. Daily record of domestic waste water generation and its treatment and utilization shall be maintained.
- 42 That industry shall maintain ambient air quality monitoring stations in all directions for monitoring of gaseous emissions and particulate matter in the ambient air and records of the same shall be submitted on quarterly basis to the State Board.
- 43 That total fresh water requirement/ consumption for the cement plant shall not exceed to 1071 KLD which shall be met from rain water collected in mines pits-644 KLD and from ground water-427 KLD.
- 44 That water meters shall be maintained at all suitable places to measure the daily water received from mine pits and used for different purposes and record of the same will be maintained on daily basis.
- 45 That the industry shall comply with the conditions imposed in NOC issued by CGWA for abstraction of ground water up to 2427 m³/day vide NOC no. 21-4(34)WR/CGWA/2005-907 dated 14.05.2018 valid up to 13.05.2023.
- 46 That the industry shall comply with the provisions of Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and record of daily hazardous waste generation and its disposal shall be maintained.
- 47 That the industry shall carryout effluent sampling/stack monitoring/ambient air quality monitoring and submit quarterly analysis report from the State Board laboratory/ laboratory recognized by Ministry of Environment & Forests (MoE&F), Government of India.
- 48 That suitable measure for rain water harvesting for artificial recharge of ground water shall be taken.

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Order No : 2022-2023/CPM/8620

Date: Sep 22 2022 5:40PM

Unit Id : 190

- 49 That the plantation in atleast 33% of total area of the project in and around the cement plant shall be carried out & maintained.
- 50 That the industry shall ensure compliance of all the other conditions of consent to operate letter no. 2021-2022/CPM/5724 dated 13/08/2021 and consent to establish letter no. 1203-1205 dated 18.07.2022.
- 51 That the industry shall comply with the MoEF & CC, Government of India, Notification dated 14th September 1999, amended up to date relating to fly ash management and shall provide relevant details to the State Board and MoEF & CC, Government of India.
- 52 That this consent to operate shall be subject to compliance of direction or order passed by the Hon'ble NGT/Court of Law in the matter, if any.
- 53 That no Single Use Plastic (SUP) item, which is banned vide Ministry of Environment, Forest and Climate Change (MOEF & CC), Government of India notification dated 12.08.2021 shall be used in the industry/unit premises.
- 54 That the industry shall submit the half yearly compliance report of all the above conditions to the State Board.
- 55 That, notwithstanding anything provided hereinabove, the State Board shall have the power and reserves its right, as contained **under Section 27(2) of the Water Act and under Section 21(6) of the Air Act** to review anyone or all of the conditions imposed here in above and to make such variation as it deems fit for the purpose of **Air Act & Water Act**.
- 56 That the grant of this **Consent to Operate** is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility to comply with the conditions laid down in all other laws for the time-being in force, rests with the industry/ unit/ project proponent.
- 57 That the grant of this **Consent to Operate** shall not, in any way, adversely affect or jeopardize the legal proceeding, if any, instituted in the past or that could be instituted against you by the State Board for violation of the provisions of the Water Act and Air Act or the Rules made thereunder.
- 58 That the Project Proponent shall comply with provisions of the E-waste (Management) Rules, 2016 and ensure that e-waste generated by them is channelized through collection centre or dealer of authorized producer or dismantler or recycler or through designated take back service provider of the producer to authorized dismantler or recycler.

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Order No : 2022-2023/CPM/8620

Date: Sep 22 2022 5:40PM

Unit Id : 190

- 59 That the Project Proponent shall maintain record of e-waste generated by them in Form-2 and make such records available for scrutiny by the Board.
- 60 That the Project Proponent shall file annual returns in Form-3, to the Board on or before the 30th day of June following the financial year to which that return relates.
- 61 That the transportation of e-waste shall be carried out as per the manifest system whereby the transporter shall be required to carry a document (three copies) prepared by the sender, giving the details as per Form-6.
- 62 That the Project Proponent shall comply with provisions of the Batteries (Management and Handling) Rules, 2001(as amended) and submit half yearly returns (as bulk consumer, importer, auctioneer, recycler as the case may be) to the State Board as provided under Rule 10(2) (ii) of the Battery (Management and Handling) Rules, 2001(as amended). In case the Project Proponent is not a bulk consumer even then the used batteries shall be returned to the authorized dealers or recyclers only.
- 63 That the record of batteries purchased and sold/ returned to registered dealers and/ or authorized recyclers shall be maintained and made available to the officers of the Board during inspections.

This **Consent to Operate** shall also be subject, besides the aforesaid specific conditions, to the general conditions given in the enclosed Annexure. The Project Proponent will comply with the provisions of the **Water Act and Air Act** and to such other conditions as may, from time to time , be specified, by the State Board under the provisions of the aforesaid Act(s). Please note that, non compliance of any of the above stated conditions would tantamount to revocation of **Consent to Operate** and Project Proponent / occupier shall be liable for legal action under the relevant provisions of the said Act(s).

This bears approval of the competent authority.

Yours sincerely,

Group Incharge[CPM]

(A): Copy to:-

- 1 Regional Officer, Regional Office, Rajasthan State Pollution Control Board, Chittorgarh to monitor compliance from time to time.
- 2 Master File.

Signature Not Verified

Digitally signed by Vishnu Datt
Purohit
Date: 2022.09.22 17:42:55 IST
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Location:





Head Office (CPM)
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File No : F(HSW)/Chittorgarh(Nimbahera)/20(1)/2022-2023/2567-2569

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Group Incharge[CPM]

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Reason: SelfAttested
Location:



J.K. Cement Works, Nimbahera
Fugitive Emission Monitoring Report
April '2022 - September '2022

S.No.	Month/Year	SPM ($\mu\text{g}/\text{m}^3$)			
		NEAR COAL YARD-1	NEAR LIMESTONE CRUSHING SITE-1	NEAR STACKER RECLAIMER-1	NEAR GYPSUM YARD-1
1	Apr-22	1087.2	1614.7	1362.7	1262.1
2	May-22	980.2	2098.4	1610.9	1894.5
3	Jun-22	731.5	1052.6	1159.2	1088.3
4	Jul-22	780.5	809.4	892.3	920.4
5	Aug-22	870.8	492.5	686.1	904.0
6	Sep-22	1030.5	738.9	982.0	1269.7

J.K. Cement WORKS, Nimbahera (RAJ)
22 MW CPP Fugitive Emission Monitoring Report
April '2022 - September '2022
 (ALL VALUES IN MICROGRAMS / CUBIC METER)

Month/Year	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22
NEAR COAL YARD OF 22 MW CPP	477.3	987.1	486.6	448.6	792.4	947.5



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

TEST REPORT

Report No./ULR No. :	TC502522400001500	Date :	20-06-2022
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Fugitive Emission Quality Monitoring	Date of Sample Collection/Monitoring :	02-06-2022
Point of Collection :	Near Coal Yard (power Plant)	Date of Receipt :	10-06-2022
Date of Test/Analysis :	10-06-2022 to 18-06-2022	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Suspended Particulate Matter [microgram/m ³]	431.3	IS 5182 (Part 4) : 1999 RA 2019

Notes :-

- # The results listed refer only to the tested sample (s) & parameters (s). Endorsement of products is neither inferred nor implied.
- # This report is not to be reproduced wholly or in part and can not be used evidence in the court of law and should not be used in any advertising media without our special permission in writing.
- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.

Purni Mal Yogi
Senior Analyst

Rakesh Maheshwari
Authorized Signatory
(Report No: TC502522400001500)



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

TEST REPORT

Report No./ULR No. :	TC502522400001499	Date :	20-06-2022
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Fugitive Emission Quality Monitoring	Date of Sample Collection/Monitoring :	02-06-2022
Point of Collection :	Near Gypsum Yard	Date of Receipt :	10-06-2022
Date of Test/Analysis :	10-06-2022 to 18-06-2022	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Suspended Particulate Matter [microgram/m3]	402.86	IS 5182 (Part 4) : 1999 RA 2019

Notes :-

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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: TC502522400001499)



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

TEST REPORT

Report No./ULR No. :	TC502522400001498	Date :	20-06-2022
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Fugitive Emission Quality Monitoring	Date of Sample Collection/Monitoring :	02-06-2022
Point of Collection :	Near Stacker @ Reclaimer	Date of Receipt :	10-06-2022
Date of Test/Analysis :	10-06-2022 to 18-06-2022	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Suspended Particulate Matter [microgram/m3]	516.66	IS 5182 (Part 4) : 1999 RA 2019

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

Purnan Mal Yogi
Senior Analyst

Rakesh Maheshwari
Authorized Signatory
(Report No: TC502522400001498)



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

TEST REPORT

Report No./ULR No. :	TC502522400001497	Date :	20-06-2022
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Fugitive Emission Quality Monitoring	Date of Sample Collection/Monitoring :	02-06-2022
Point of Collection :	Near Limestone Crushing Site	Date of Receipt :	10-06-2022
Date of Test/Analysis :	10-06-2022 to 18-06-2022	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Suspended Particulate Matter [microgram/m3]	407.37	IS 5182 (Part 4) : 1999 RA 2019

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

Purush Mal Yogi
Senior Analyst

Rakesh
Authorized Signatory
(Report No: TC502522400001497)



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

TEST REPORT

Report No./ULR No. :	TC502522400001496	Date :	20-06-2022
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Fugitive Emission Quality Monitoring	Date of Sample Collection/Monitoring :	02-06-2022
Point of Collection :	Near Coal Yard (Cement Plant)	Date of Receipt :	10-06-2022
Date of Test/Analysis :	10-06-2022 to 18-06-2022	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Suspended Particulate Matter [microgram/m3]	509.77	IS 5182 (Part 4) : 1999 RA 2019

Notes :-

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Senior Analyst

Authorized Signatory
(Report No: TC502522400001496)



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

TEST REPORT

Report No./ULR No. :	TC502522400002311	Date :	24-08-2022
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Fugitive Emission Quality Monitoring	Date of Sample Collection/Monitoring :	03-08-2022
Point of Collection :	Near Coal Yard (Cement Plant)	Date of Receipt :	08-08-2022
Date of Test/Analysis :	08-08-2022 to 19-08-2022	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Suspended Particulate Matter [microgram/m3]	317.84	IS 5182 (Part 4) : 1999 RA 2019

Notes :-

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Senior Analyst

Duran Mal Yogi

Authorized Signatory

(Report No: TC502522400002311)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502522400002312	Date :	24-08-2022
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Fugitive Emission Quality Monitoring	Date of Sample Collection/Monitoring :	03-08-2022
Point of Collection :	Near Limestone Crushing Site	Date of Receipt :	08-08-2022
Date of Test/Analysis :	08-08-2022 to 19-08-2022	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Suspended Particulate Matter [microgram/m3]	407.68	IS 5182 (Part 4) : 1999 RA 2019

Notes :-

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Puran Mal Yogi
Senior Analyst

K.N. MUKHOPADHYAY
Authorized Signatory
(Report No: TC502522400002312)



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

TEST REPORT

Report No./ULR No. :	TC502522400002313	Date :	24-08-2022
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Fugitive Emission Quality Monitoring	Date of Sample Collection/Monitoring :	03-08-2022
Point of Collection :	Near Stacker @ Reclaimer	Date of Receipt :	08-08-2022
Date of Test/Analysis :	08-08-2022 to 19-08-2022	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Suspended Particulate Matter [microgram/m3]	364.96	IS 5182 (Part 4) : 1999 RA 2019

Notes :-

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Puran Mal Yogi
Senior Analyst

K.N. MUKHOPADHYAY
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(Report No: TC502522400002313)



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TEST REPORT

Report No./ULR No. :	TC502522400002314	Date :	24-08-2022
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Fugitive Emission Quality Monitoring	Date of Sample Collection/Monitoring :	03-08-2022
Point of Collection :	Near Gypsum Yard	Date of Receipt :	08-08-2022
Date of Test/Analysis :	08-08-2022 to 19-08-2022	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Suspended Particulate Matter [microgram/m3]	343.43	IS 5182 (Part 4) : 1999 RA 2019

Notes :-

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Piyon Mal Yogi
Senior Analyst

K.N. MUKHOPADHYAY
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TEST REPORT

Report No./ULR No. :	TC502522400002315	Date :	24-08-2022
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Fugitive Emission Quality Monitoring	Date of Sample Collection/Monitoring :	03-08-2022
Point of Collection :	Near Coal Yard (Cement Plant)	Date of Receipt :	08-08-2022
Date of Test/Analysis :	08-08-2022 to 19-08-2022	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Suspended Particulate Matter [microgram/m3]	424.32	IS 5182 (Part 4) : 1999 RA 2019

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Purni Mal Yogi
Senior Analyst

K.N. MUKHOPADHYAY
Authorized Signatory
(Report No: TC502522400002315)

J.K. Cement WORKS, NIMBAHERA (RAJ)
AMBIENT AIR QUALITY AVERAGE SPM RESULTS
 (ALL VALUES IN MICROGRAMS / CUBIC METER)

HALF YEARLY REPORT FY-2022-23 (April' 2022 to September' 2022)

FY (2022-23)

S.No.	LOCATION	Month					
			PM10	PM2.5	SO2	NOx	CO
1	NEAR MAIN SECURITY GATE	Apr-22	57.0	26.0	13.0	23.8	816
2		May-22	68.0	38.1	7.3	18.7	557
3		Jun-22	54.8	22.6	14.0	20.2	473
4		Jul-22	52.5	23.2	18.0	30.2	673
5		Aug-22	62.3	20.8	14.5	24.3	582
6		Sep-22	72.3	25.6	12.2	21.2	607
Half Yearly Average			61.2	26.0	13.2	23.1	618
1	NEAR NEW J.K. FACTORY GATE	Apr-22	65.7	33.0	13.3	19.9	644
2		May-22	61.0	32.4	7.4	22.5	727
3		Jun-22	56.6	23.4	9.4	15.5	636
4		Jul-22	63.6	28.9	11.5	20.8	712
5		Aug-22	64.8	33.3	12.8	15.8	688
6		Sep-22	70.9	35.8	14.9	21.4	794
Half Yearly Average			63.8	31.1	11.5	19.3	700
1	NEAR MINE GATE	Apr-22	68.9	28.8	11.6	23.3	758
2		May-22	67.6	33.2	8.3	26.9	435
3		Jun-22	52.2	21.6	7.1	20.7	650
4		Jul-22	63.5	22.6	16.6	14.5	780
5		Aug-22	68.4	31.8	15.8	22.5	845
6		Sep-22	73.1	26.9	20.2	17.8	810
Half Yearly Average			65.6	27.5	13.3	21.0	713
1	NEAR THERMAL POWER PLANT GATE	Apr-22	70.4	36.2	11.8	25.5	650
2		May-22	72.1	38.7	14.1	20.7	480
3		Jun-22	67.0	28.3	12.1	25.2	624
4		Jul-22	64.5	30.5	15.2	31.0	841
5		Aug-22	68.0	32.6	14.8	28.5	533
6		Sep-22	76.0	34.5	20.1	22.5	673
Half Yearly Average			69.7	33.5	14.7	25.6	634



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TEST REPORT

Report No./ULR No. :	400001728	Date :	05-07-2022
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitoring :	16-06-2022
Point of Collection :	Near Main Security Gate	Date of Receipt :	27-06-2022
Date of Test/Analysis :	27-06-2022 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 Maheshwari
Authorized Signatory
(Report No: 400001728)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502522400001728	Date :	05-07-2022
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitoring :	16-06-2022
Point of Collection :	Near Main Security Gate	Date of Receipt :	27-06-2022
Date of Test/Analysis :	27-06-2022 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]	12.2	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]	34.13	IS 5182 (Part 24) : 2019	60.00
7	Sulphur Dioxide [microgram/m3]	3.11	IS 5182 (Part 2) : 2001 RA 2017	80.00
8	Particulate Matter (PM 10) [microgram/m3]	63.83	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]	7.7	IS 5182 : Part 26 : 2020	20.00

Notes :-

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Puran
Puran Mal Yogi

Rajesh
Rajesh Maheshwan



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502522400001729	Date :	05-07-2022
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitoring :	16-06-2022
Point of Collection :	Near Thermal Power Plant	Date of Receipt :	27-06-2022
Date of Test/Analysis :	27-06-2022 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]	12.43	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]	34.67	IS 5182 (Part 24) : 2019	60.00
7	Sulphur Dioxide [microgram/m3]	3.24	IS 5182 (Part 2) : 2001 RA 2017	80.00
8	Particulate Matter (PM 10) [microgram/m3]	70.05	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]	11.7	IS 5182 : Part 26 : 2020	20.00

Notes :-

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Puran
Puran Mal Yogi

Rajesh
Rajesh Maheshwar



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

TEST REPORT

Report No./ULR No. :	400001729	Date :	05-07-2022
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitoring :	16-06-2022
Point of Collection :	Near Thermal Power Plant	Date of Receipt :	27-06-2022
Date of Test/Analysis :	27-06-2022 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 Maheshwari
Authorized Signatory
(Report No: 400001729)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502522400001730	Date :	05-07-2022
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitoring :	17-06-2022
Point of Collection :	Near new J.k Factory Gate	Date of Receipt :	27-06-2022
Date of Test/Analysis :	27-06-2022 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]	12.28	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]	33.84	IS 5182 (Part 24) : 2019	60.00
7	Sulphur Dioxide [microgram/m3]	3.06	IS 5182 (Part 2) : 2001 RA 2017	80.00
8	Particulate Matter (PM 10) [microgram/m3]	81.54	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	IS 5182 : Part 26 : 2020	20.00

Notes :-

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Puran Mai Yogi

Rajesh Maheshwari



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

TEST REPORT

Report No./ULR No. :	400001730	Date :	05-07-2022
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitoring :	17-06-2022
Point of Collection :	Near new J.k Factory Gate	Date of Receipt :	27-06-2022
Date of Test/Analysis :	27-06-2022 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
Puran Mal Yogi
Senior Analyst

Rajesh
Rajesh Maheshwan
Authorized Signatory
(Report No: 400001730)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502522400001731	Date :	05-07-2022
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitoring :	17-06-2022
Point of Collection :	Near Mine Gate	Date of Receipt :	27-06-2022
Date of Test/Analysis :	27-06-2022 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]	280	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]	12.59	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]	34.27	IS 5182 (Part 24) : 2019	60.00
7	Sulphur Dioxide [microgram/m3]	4	IS 5182 (Part 2) : 2001 RA 2017	80.00
8	Particulate Matter (PM 10) [microgram/m3]	76.83	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]	8.5	IS 5182 : Part 26 : 2020	20.00

Notes :-

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Puran
Puran Mai Yogi

Rajesh
Rajesh Maheshwar



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

TEST REPORT

Report No./ULR No. :	400001731	Date :	05-07-2022
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitoring :	17-06-2022
Point of Collection :	Near Mine Gate	Date of Receipt :	27-06-2022
Date of Test/Analysis :	27-06-2022 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: 400001731)

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

Report No. : **2131**

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 , Plant - J.K. Cement Works [190] ,Nimbahera, Kailash Nagar , City- Ahirpura Tehsil- Nimbahera , District- Chittorgarh M.L. No- 2/97** Collected from **Ambient air quality monitoring near thermal power plant gate.** Collected on **06/07/2022.** 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) $\mu\text{g}/\text{m}^3$	91
2	PM 2.5 $\mu\text{g}/\text{m}^3$	31
3	Sulphur Dioxide as SO2 $\mu\text{g}/\text{m}^3$	8.0
4	NO2 $\mu\text{g}/\text{m}^3$	22.7

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. : **2132**

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 , Plant - J.K. Cement Works [190] ,Nimbahera, Kailash Nagar , City- Ahirpura Tehsil- Nimbahera , District- Chittorgarh M.L. No- 2/97** Collected from **Ambient air quality monitoring near mines office**. Collected on **06/07/2022**. 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) $\mu\text{g}/\text{m}^3$	87
2	PM 2.5 $\mu\text{g}/\text{m}^3$	25
3	Sulphur Dioxide as SO2 $\mu\text{g}/\text{m}^3$	9.0
4	NO2 $\mu\text{g}/\text{m}^3$	21.6

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. : **2133**

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 , Plant - J.K. Cement Works [190] ,Nimbahera, Kailash Nagar , City- Ahirpura Tehsil- Nimbahera , District- Chittorgarh M.I. No- 2/97** Collected from **Ambient air quality monitoring near main security gate.** Collected on **06/07/2022.** 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) $\mu\text{g}/\text{m}^3$	68
2	PM 2.5 $\mu\text{g}/\text{m}^3$	19
3	Sulphur Dioxide as SO2 $\mu\text{g}/\text{m}^3$	8.6
4	NO2 $\mu\text{g}/\text{m}^3$	18.5

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. : **2134**

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 , Plant - J.K. Cement Works [190] ,Nimbahera, Kailash Nagar , City- Ahirpura Tehsil- Nimbahera , District- Chittorgarh M.L.No- 2/97** Collected from **Ambient air quality monitoring near new J.K. factory gate.** Collected on **06/07/2022**. 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) $\mu\text{g}/\text{m}^3$	76
2	PM 2.5 $\mu\text{g}/\text{m}^3$	21
3	Sulphur Dioxide as SO2 $\mu\text{g}/\text{m}^3$	6.9
4	NO2 $\mu\text{g}/\text{m}^3$	21.1

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



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502522100000673	Date :	10-05-2022
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Borewell Water	Date of Sample Collection/Monitoring :	25-04-2022
Point of Collection :	Borewell No. -01	Date of Receipt :	27-04-2022
Date of Test/Analysis :	27-04-2022 to 09-05-2022	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2ltr.	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983 RA 2017	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 2018	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7) : 2017 & (Part8) : 1984 RA 2017	Agreeable	-
4	Turbidity [NTU]	BDL (<0.1)	IS 3025 (Part 10) : 1984 RA 2017	1.00	5.00
5	pH	8.18	IS 3025 (Part 11) : 1983 RA 2017	6.5 to 8.5	No relaxation
6	Hardness (total) [mg/l]	411.65	IS 3025 (Part 21) : 2009 RA 2019	200.00	600.00
7	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2019	1.0	-
8	Chloride [mg/l]	82.78	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00

Note:

Continue to next page...



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

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
9	Total Dissolved Solids [mg/l]	551	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
10	Calcium [mg/l]	142.91	IS 3025 (Part 40) : 1991 RA 2019	75.00	200.00
11	Magnesium [mg/l]	13.21	IS 3025 (Part 46) : 1994 RA 2019	30.00	100.00
12	Copper [mg/l]	BDL(<0.01)	IS 3025 (Part 42) : 1992 RA 2019	0.05	1.50
13	Manganese [mg/l]	BDL(<0.01)	IS 3025 (Part 59) : 2006 RA 2017	0.1	0.3
14	Sulphate [mg/l]	44.7	IS 3025 (Part 24) : 1986 RA 2019	200.00	400.00
15	Nitrate [mg/l]	14.48	IS 3025 (Part 34) : 1988 RA 2019	45.00	-
16	Fluoride [mg/l]	0.69	IS 3025 (Part 60) : 2008 RA 2019	1.00	1.50
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992 RA 2019	0.003	-
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988 RA 2019	0.01	-
19	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994 RA 2019	0.01	-
20	Zinc [mg/l]	BDL(<0.01)	IS 3025 (Part 49) : 1994 RA 2019	5	15
21	Chromium [mg/l]	BDL(<0.01)	IS 3025 (Part 52) : 2003 RA 2019	0.05	-
22	Alkalinity - T [mg/l]	222.72	IS 3025 (Part 23) : 1986 RA 2019	200	600
23	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003 RA 2019	0.03	0.2
24	Boron [mg/l]	0.71	APHA 2017 : 4500- B C	0.5	2.4
25	Sulphide [mg/l]	Less than 0.05	IS 3025 (Part 29) : 1986 RA 2019	0.05	-
26	Total Coliform [MPN/100ml]	Not Detected	IS 5401 (Part 2) : 2012 RA 2018	Shall not be detectable in any any 100 ml sample	-
27	E-Coli [MPN/100ml]	Not Detected	IS 5887 (Part 1) : 1976 RA 2018	Shall not be detectable in any 100 ml sample	-
28	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992 RA 2019	0.001	0.002



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

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
29	Selenium as Se [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003 RA 2019	0.01	-
30	Residual free chlorine [mg/l]	BDL (<0.1)	IS 3025 (Part 26) : 1986 RA 2019	-	-
31	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991 RA 2019	1.0	-
32	Anionic Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)	0.2	1.0
33	Cyanide as CN [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2019	0.05	-
34	Nickel [mg/l]	BDL(<0.01)	IS 3025 (Part 54) : 2003 RA 2019	0.02	-
35	Silver [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	0.1	-
36	Ammonia [mg/l]	BDL(<0.1)	IS 3025 (Part 34) : 1988 RA 2019	0.5	-
37	Barium [mg/l]	BDL(<0.5)	IS 13428 (Annexure F)	0.7	-
38	Chloramines [mg/l]	BDL (<0.1)	IS 3025 (Part 26) : 1986 RA 2019	4.0	-
39	Molybdenum as Mo [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	0.07	-

Notes :-

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Puran Mal Yogi
Senior Analyst

Rajesh Mishra
Authorized Signatory
(Report No: TC502522100000673)



TEAM TEST HOUSE

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



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

TEST REPORT

Report No./ULR No. :	TC502522100000674	Date :	10-05-2022
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Borewell Water	Date of Sample Collection/Monitoring :	25-04-2022
Point of Collection :	Borewell No. -02	Date of Receipt :	27-04-2022
Date of Test/Analysis :	27-04-2022 to 09-05-2022	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2ltr.	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983 RA 2017	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 2018	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7) : 2017 & (Part8) : 1984 RA 2017	Agreeable	-
4	Turbidity [NTU]	BDL (<0.1)	IS 3025 (Part 10) : 1984 RA 2017	1.00	5.00
5	pH	7.90	IS 3025 (Part 11) : 1983 RA 2017	6.5 to 8.5	No relaxation
6	Hardness (total) [mg/l]	415.53	IS 3025 (Part 21) : 2009 RA 2019	200.00	600.00
7	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2019	1.0	-
8	Chloride [mg/l]	78.84	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00

Note:

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Email : marketinglab@teamtesthouse.com

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
9	Total Dissolved Solids [mg/l]	509	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
10	Calcium [mg/l]	135.15	IS 3025 (Part 40) : 1991 RA 2019	75.00	200.00
11	Magnesium [mg/l]	18.87	IS 3025 (Part 46) : 1994 RA 2019	30.00	100.00
12	Copper [mg/l]	BDL(<0.01)	IS 3025 (Part 42) : 1992 RA 2019	0.05	1.50
13	Manganese [mg/l]	BDL(<0.01)	IS 3025 (Part 59) : 2006 RA 2017	0.1	0.3
14	Sulphate [mg/l]	33.4	IS 3025 (Part 24) : 1986 RA 2019	200.00	400.00
15	Nitrate [mg/l]	10.91	IS 3025 (Part 34) : 1988 RA 2019	45.00	-
16	Fluoride [mg/l]	0.80	IS 3025 (Part 60) : 2008 RA 2019	1.00	1.50
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992 RA 2019	0.003	-
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988 RA 2019	0.01	-
19	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994 RA 2019	0.01	-
20	Zinc [mg/l]	BDL(<0.01)	IS 3025 (Part 49) : 1994 RA 2019	5	15
21	Chromium [mg/l]	BDL(<0.01)	IS 3025 (Part 52) : 2003 RA 2019	0.05	-
22	Alkalinity - T [mg/l]	188.16	IS 3025 (Part 23) : 1986 RA 2019	200	600
23	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003 RA 2019	0.03	0.2
24	Boron [mg/l]	0.70	APHA 2017 : 4500- B C	0.5	2.4
25	Sulphide [mg/l]	Less than 0.05	IS 3025 (Part 29) : 1986 RA 2019	0.05	-
26	Total Coliform [MPN/100ml]	Not Detected	IS 5401 (Part 2) : 2012 RA 2018	Shall not be detectable in any any 100 ml sample	-
27	E-Coli [MPN/100ml]	Not Detected	IS 5887 (Part 1) : 1976 RA 2018	Shall not be detectable in any 100 ml sample	-
28	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992 RA 2019	0.001	0.002



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

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
29	Selenium as Se [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003 RA 2019	0.01	-
30	Residual free chlorine [mg/l]	BDL (<0.1)	IS 3025 (Part 26) : 1986 RA 2019	0.2	1.0
31	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991 RA 2019	1.0	-
32	Anionic Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)	0.2	1.0
33	Cyanide as CN [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2019	0.05	-
34	Nickel [mg/l]	BDL(<0.01)	IS 3025 (Part 54) : 2003 RA 2019	0.02	-
35	Silver [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	0.1	-
36	Ammonia [mg/l]	BDL(<0.1)	IS 3025 (Part 34) : 1988 RA 2019	0.5	-
37	Barium [mg/l]	BDL(<0.5)	IS 13428 (Annexure F)	0.7	-
38	Chloramines [mg/l]	BDL (<0.1)	IS 3025 (Part 26) : 1986 RA 2019	4.0	-
39	Molybdenum as Mo [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	0.07	-

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

Puran
Puran Mai Yogi
Senior Analyst

Rajesh
Rajesh Maheshwan
Authorized Signatory

(Report No: TC502522100000674)



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TEST REPORT

Report No./ULR No. :	TC502522100000675	Date :	10-05-2022
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Borewell Water	Date of Sample Collection/Monitoring :	25-04-2022
Point of Collection :	Borewell No. -03	Date of Receipt :	27-04-2022
Date of Test/Analysis :	27-04-2022 to 10-05-2022	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2ltr.	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983 RA 2017	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 2018	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7) : 2017 & (Part8) : 1984 RA 2017	Agreeable	-
4	Turbidity [NTU]	BDL (<0.1)	IS 3025 (Part 10) : 1984 RA 2017	1.00	5.00
5	pH	8.02	IS 3025 (Part 11) : 1983 RA 2017	6.5 to 8.5	No relaxation
6	Hardness (total) [mg/l]	411.65	IS 3025 (Part 21) : 2009 RA 2019	200.00	600.00
7	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2019	1.0	-
8	Chloride [mg/l]	84.75	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00

Note:

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Rajesh
Rajesh Maheshwari



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

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
9	Total Dissolved Solids [mg/l]	540	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
10	Calcium [mg/l]	146.02	IS 3025 (Part 40) : 1991 RA 2019	75.00	200.00
11	Magnesium [mg/l]	11.32	IS 3025 (Part 46) : 1994 RA 2019	30.00	100.00
12	Copper [mg/l]	BDL(<0.01)	IS 3025 (Part 42) : 1992 RA 2019	0.05	1.50
13	Manganese [mg/l]	BDL(<0.01)	IS 3025 (Part 59) : 2006 RA 2017	0.1	0.3
14	Sulphate [mg/l]	37.4	IS 3025 (Part 24) : 1986 RA 2019	200.00	400.00
15	Nitrate [mg/l]	12.57	IS 3025 (Part 34) : 1988 RA 2019	45.00	-
16	Fluoride [mg/l]	0.85	IS 3025 (Part 60) : 2008 RA 2019	1.00	1.50
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992 RA 2019	0.003	-
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988 RA 2019	0.01	-
19	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994 RA 2019	0.01	-
20	Zinc [mg/l]	BDL(<0.01)	IS 3025 (Part 49) : 1994 RA 2019	5	15
21	Chromium [mg/l]	BDL(<0.01)	IS 3025 (Part 52) : 2003 RA 2019	0.05	-
22	Alkalinity - T [mg/l]	180.48	IS 3025 (Part 23) : 1986 RA 2019	200	600
23	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003 RA 2019	0.03	0.2
24	Boron [mg/l]	0.76	APHA 2017 : 4500- B C	0.5	1.0
25	Sulphide [mg/l]	Less than 0.05	IS 3025 (Part 29) : 1986 RA 2019	0.05	-
26	Total Coliform [MPN/100ml]	Not Detected	IS 5401 (Part 2) : 2012 RA 2018	Shall not be detectable in any any 100 ml sample	-
27	E-Coli [MPN/100ml]	Not Detected	IS 5887 (Part 1) : 1976 RA 2018	Shall not be detectable in any 100 ml sample	-
28	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992 RA 2019	0.001	0.002



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Email : marketinglab@teamtesthouse.com

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
29	Selenium as Se [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003 RA 2019	0.01	No relaxation
30	Residual free chlorine [mg/l]	BDL (<0.1)	IS 3025 (Part 26) : 1986 RA 2019	0.2	1.0
31	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991 RA 2019	1.0	-
32	Anionic Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)	0.2	1.0
33	Cyanide as CN [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2019	0.05	-
34	Nickel [mg/l]	BDL(<0.01)	IS 3025 (Part 54) : 2003 RA 2019	0.02	-
35	Silver [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	0.1	-
36	Ammonia [mg/l]	BDL(<0.1)	IS 3025 (Part 34) : 1988 RA 2019	0.5	-
37	Barium [mg/l]	BDL(<0.5)	IS 13428 (Annexure F)	0.7	-
38	Chloramines [mg/l]	BDL (<0.1)	IS 3025 (Part 26) : 1986 RA 2019	4.0	-
39	Molybdenum as Mo [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	0.07	-

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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwari
Rajesh Maheshwari
Authorized Signatory

(Report No: TC502522100000675)



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TEST REPORT

Report No./ULR No. :	TC502522100000676	Date :	10-05-2022
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Borewell Water	Date of Sample Collection/Monitoring :	25-04-2022
Point of Collection :	Borewell No. -04	Date of Receipt :	27-04-2022
Date of Test/Analysis :	27-04-2022 to 10-05-2022	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2ltr.	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983 RA 2017	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 2018	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7) : 2017 & (Part 8) : 1984 RA 2017	Agreeable	-
4	Turbidity [NTU]	BDL (<0.1)	IS 3025 (Part 10) : 1984 RA 2017	1.00	5.00
5	pH	7.99	IS 3025 (Part 11) : 1983 RA 2017	6.5 to 8.5	No relaxation
6	Hardness (total) [mg/l]	419.42	IS 3025 (Part 21) : 2009 RA 2019	200.00	600.00
7	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2019	1.0	-
8	Chloride [mg/l]	80.81	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00

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Email : marketinglab@teamtesthouse.com

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
9	Total Dissolved Solids [mg/l]	551	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
10	Calcium [mg/l]	144.47	IS 3025 (Part 40) : 1991 RA 2019	75.00	200.00
11	Magnesium [mg/l]	14.16	IS 3025 (Part 46) : 1994 RA 2019	30.00	100.00
12	Copper [mg/l]	BDL(<0.01)	IS 3025 (Part 42) : 1992 RA 2019	0.05	1.50
13	Manganese [mg/l]	BDL(<0.01)	IS 3025 (Part 59) : 2006 RA 2017	0.1	0.3
14	Sulphate [mg/l]	36.7	IS 3025 (Part 24) : 1986 RA 2019	200.00	400.00
15	Nitrate [mg/l]	11.63	IS 3025 (Part 34) : 1988 RA 2019	45.00	-
16	Fluoride [mg/l]	0.72	IS 3025 (Part 60) : 2008 RA 2019	1.00	1.50
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992 RA 2019	0.003	-
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988 RA 2019	0.01	-
19	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994 RA 2019	0.01	-
20	Zinc [mg/l]	BDL(<0.01)	IS 3025 (Part 49) : 1994 RA 2019	5	15
21	Chromium [mg/l]	BDL(<0.01)	IS 3025 (Part 52) : 2003 RA 20193	0.05	-
22	Alkalinity - T [mg/l]	188.16	IS 3025 (Part 23) : 1986 RA 2019	200	600
23	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003 RA 2019	0.03	0.2
24	Boron [mg/l]	0.70	APHA 2017 : 4500- B C	0.5	2.4
25	Sulphide [mg/l]	Less than 0.05	IS 3025 (Part 29) : 1986 RA 2019	0.05	-
26	Total Coliform [MPN/100ml]	Not Detected	IS 5401 (Part 2) : 2012 RA 2018	Shall not be detectable in any 100 ml sample	-
27	E-Coli [MPN/100ml]	Not Detected	IS 5887 (Part 1) : 1976 RA 2018	Shall not be detectable in any 100 ml sample	-
28	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992 RA 2019	0.001	0.002



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

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
29	Selenium as Se [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003 RA 2019	0.01	-
30	Residual free chlorine [mg/l]	BDL (<0.1)	IS 3025 (Part 26) : 1986 RA 2019	0.2	1.0
31	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991 RA 2019	1.0	-
32	Anionic Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)	0.2	1.0
33	Cyanide as CN [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2019	0.05	-
34	Nickel [mg/l]	BDL(<0.01)	IS 3025 (Part 54) : 2003 RA 2019	0.02	-
35	Silver [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	0.1	-
36	Ammonia [mg/l]	BDL(<0.1)	IS 3025 (Part 34) : 1988 RA 2019	0.5	-
37	Barium [mg/l]	BDL(<0.5)	IS 13428 (Annexure F)	0.7	-
38	Chloramines [mg/l]	BDL (<0.1)	IS 3025 (Part 26) : 1986 RA 2019	4.0	-
39	Molybdenum as Mo [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	0.07	-

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Puran Mal Yogi
Senior Analyst

Rajesh
Rajesh Maheshwar
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(Report No: TC502522100000676)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502522100000677	Date :	10-05-2022
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Borewell Water	Date of Sample Collection/Monitoring :	25-04-2022
Point of Collection :	Borewell No. -05	Date of Receipt :	27-04-2022
Date of Test/Analysis :	27-04-2022 to 10-05-2022	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2ltr.	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983 RA 2017	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 2018	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7) : 2017 & (Part8) : 1984 RA 2017	Agreeable	-
4	Turbidity [NTU]	BDL (<0.1)	IS 3025 (Part 10) : 1984 RA 2017	1.00	5.00
5	pH	7.83	IS 3025 (Part 11) : 1983 RA 2017	6.5 to 8.5	No relaxation
6	Hardness (total) [mg/l]	423.3	IS 3025 (Part 21) : 2009 RA 2019	200.00	600.00
7	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2019	1.0	-
8	Chloride [mg/l]	80.81	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00

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

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
9	Total Dissolved Solids [mg/l]	549	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
10	Calcium [mg/l]	80.78	IS 3025 (Part 40) : 1991 RA 2019	75.00	200.00
11	Magnesium [mg/l]	53.79	IS 3025 (Part 46) : 1994 RA 2019	30.00	100.00
12	Copper [mg/l]	BDL(<0.01)	IS 3025 (Part 42) : 1992 RA 2019	0.05	1.50
13	Manganese [mg/l]	BDL(<0.01)	IS 3025 (Part 59) : 2006 RA 2017	0.1	0.3
14	Sulphate [mg/l]	45.4	IS 3025 (Part 24) : 1986 RA 2019	200.00	400.00
15	Nitrate [mg/l]	13.88	IS 3025 (Part 34) : 1988 RA 2019	45.00	-
16	Fluoride [mg/l]	0.86	IS 3025 (Part 60) : 2008 RA 2019	1.00	1.50
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992 RA 2019	0.003	-
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988 RA 2019	0.01	-
19	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994 RA 2019	0.01	-
20	Zinc [mg/l]	BDL(<0.01)	IS 3025 (Part 49) : 1994 RA 2019	5	15
21	Chromium [mg/l]	BDL(<0.01)	IS 3025 (Part 52) : 2003 RA 2019	0.05	-
22	Alkalinity - T [mg/l]	180.48	IS 3025 (Part 23) : 1986 RA 2019	200	600
23	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003 RA 2019	0.03	0.2
24	Boron [mg/l]	0.71	APHA 2017 : 4500- B C	0.5	1.0
25	Sulphide [mg/l]	Less than 0.05	IS 3025 (Part 29) : 1986 RA 2019	0.05	-
26	Total Coliform [MPN/100ml]	Not Detected	IS 5401 (Part 2) : 2012 RA 2018	Shall not be detectable in any any 100 ml sample	-
27	E-Coli [MPN/100ml]	Not Detected	IS 5887 (Part 1) : 1976 RA 2018	Shall not be detectable in any 100 ml sample	-
28	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992 RA 2019	0.001	0.002



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

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
29	Selenium as Se [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003 RA 2019	0.01	No relaxation
30	Residual free chlorine [mg/l]	BDL (<0.1)	IS 3025 (Part 26) : 1986 RA 2019	0.2	1.0
31	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991 RA 2019	1.0	-
32	Anionic Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)	0.2	1.0
33	Cyanide as CN [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2019	0.05	-
34	Nickel [mg/l]	BDL(<0.01)	IS 3025 (Part 54) : 2003 RA 2019	0.02	-
35	Silver [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	0.1	-
36	Ammonia [mg/l]	BDL(<0.1)	IS 3025 (Part 34) : 1988 RA 2019	0.5	-
37	Barium [mg/l]	BDL(<0.5)	IS 13428 (Annexure F)	0.7	-
38	Chloramines [mg/l]	BDL (<0.1)	IS 3025 (Part 26) : 1986 RA 2019	4.0	-
39	Molybdenum as Mo [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	0.07	-

Notes :-

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

Puran
Puran Mal Yogi
Senior Analyst

Raj
Rajeshwari
Authorized Signatory
(Report No: TC502522100000677)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502522100000678	Date :	10-05-2022
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Borewell Water	Date of Sample Collection/Monitoring :	25-04-2022
Point of Collection :	Borewell No. -06	Date of Receipt :	27-04-2022
Date of Test/Analysis :	27-04-2022 to 10-05-2022	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2ltr.	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983 RA 2017	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 2018	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7) : 2017 & (Part8) : 1984 RA 2017	Agreeable	-
4	Turbidity [NTU]	BDL (<0.1)	IS 3025 (Part 10) : 1984 RA 2017	1.00	5.00
5	pH	7.84	IS 3025 (Part 11) : 1983 RA 2017	6.5 to 8.5	No relaxation
6	Hardness (total) [mg/l]	419.42	IS 3025 (Part 21) : 2009 RA 2019	200.00	600.00
7	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2019	1.0	-
8	Chloride [mg/l]	82.78	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00

Note:

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RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
9	Total Dissolved Solids [mg/l]	547	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
10	Calcium [mg/l]	139.81	IS 3025 (Part 40) : 1991 RA 2019	75.00	200.00
11	Magnesium [mg/l]	16.99	IS 3025 (Part 46) : 1994 RA 2019	30.00	100.00
12	Copper [mg/l]	BDL(<0.01)	IS 3025 (Part 42) : 1992 RA 2019	0.05	1.50
13	Manganese [mg/l]	BDL(<0.01)	IS 3025 (Part 59) : 2006 RA 2017	0.1	0.3
14	Sulphate [mg/l]	42.1	IS 3025 (Part 24) : 1986 RA 2019	200.00	400.00
15	Nitrate [mg/l]	15.17	IS 3025 (Part 34) : 1988 RA 2019	45.00	-
16	Fluoride [mg/l]	0.70	IS 3025 (Part 60) : 2008 RA 2019	1.00	1.50
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992 RA 2019	0.003	-
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988 RA 2019	0.01	-
19	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994 RA 2019	0.01	-
20	Zinc [mg/l]	BDL(<0.01)	IS 3025 (Part 49) : 1994 RA 2019	5	15
21	Chromium [mg/l]	BDL(<0.01)	IS 3025 (Part 52) : 2003 RA 2019	0.05	-
22	Alkalinity - T [mg/l]	180.48	IS 3025 (Part 23) : 1986 RA 2019	200	600
23	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003 RA 2019	0.03	0.2
24	Boron [mg/l]	0.71	APHA 2017 : 4500- B C	0.5	2.4
25	Sulphide [mg/l]	Less than 0.05	IS 3025 (Part 29) : 1986 RA 2019	0.05	-
26	Total Coliform [MPN/100ml]	Not Detected	IS 5401 (Part 2) : 2012 RA 2018	Shall not be detectable in any any 100 ml sample	-
27	E-Coli [MPN/100ml]	Not Detected	IS 5887 (Part 1) : 1976 RA 2018	Shall not be detectable in any 100 ml sample	-
28	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992 RA 2019	0.001	0.002



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S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
29	Selenium as Se [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003 RA 2019	0.01	No relaxation
30	Residual free chlorine [mg/l]	BDL (<0.1)	IS 3025 (Part 26) : 1986 RA 2019	0.2	1.0
31	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991 RA 2019	1.0	-
32	Anionic Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)	0.2	1.0
33	Cyanide as CN [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2019	0.05	-
34	Nickel [mg/l]	BDL(<0.01)	IS 3025 (Part 54) : 2003 RA 2019	0.02	-
35	Silver [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	0.1	-
36	Ammonia [mg/l]	BDL(<0.1)	IS 3025 (Part 34) : 1988 RA 2019	0.5	-
37	Barium [mg/l]	BDL(<0.5)	IS 13428 (Annexure F)	0.7	-
38	Chloramines [mg/l]	BDL (<0.1)	IS 3025 (Part 26) : 1986 RA 2019	4.0	-
39	Molybdenum as Mo [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	0.07	-

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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwar
Authorized Signatory
(Report No: TC502522100000678)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502522100000679	Date :	10-05-2022
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Borewell Water	Date of Sample Collection/Monitoring :	25-04-2022
Point of Collection :	Borewell No. -07	Date of Receipt :	27-04-2022
Date of Test/Analysis :	27-04-2022 to 10-05-2022	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2ltr.	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983 RA 2017	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 2018	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7) : 2017 & (Part8) : 1984 RA 2017	Agreeable	-
4	Turbidity [NTU]	BDL (<0.1)	IS 3025 (Part 10) : 1984 RA 2017	1.00	5.00
5	pH	7.88	IS 3025 (Part 11) : 1983 RA 2017	6.5 to 8.5	No relaxation
6	Hardness (total) [mg/l]	442.72	IS 3025 (Part 21) : 2009 RA 2019	200.00	600.00
7	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2019	1.0	-
8	Chloride [mg/l]	86.72	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00

Note:

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Email : marketinglab@teamtesthouse.com

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
9	Total Dissolved Solids [mg/l]	572	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
10	Calcium [mg/l]	152.23	IS 3025 (Part 40) : 1991 RA 2019	75.00	200.00
11	Magnesium [mg/l]	15.1	IS 3025 (Part 46) : 1994 RA 2019	30.00	100.00
12	Copper [mg/l]	BDL(<0.01)	IS 3025 (Part 42) : 1992 RA 2019	0.05	1.50
13	Manganese [mg/l]	BDL(<0.01)	IS 3025 (Part 59) : 2006 RA 2017	0.1	0.3
14	Sulphate [mg/l]	53.3	IS 3025 (Part 24) : 1986 RA 2019	200.00	400.00
15	Nitrate [mg/l]	11.91	IS 3025 (Part 34) : 1988 RA 2019	45.00	-
16	Fluoride [mg/l]	0.74	IS 3025 (Part 60) : 2008 RA 2019	1.00	1.50
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992 RA 2019	0.003	-
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988 RA 2019	0.01	-
19	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994 RA 2019	0.01	-
20	Zinc [mg/l]	BDL(<0.01)	IS 3025 (Part 49) : 1994 RA 2019	5	15
21	Chromium [mg/l]	BDL(<0.01)	IS 3025 (Part 52) : 2003 RA 2019	0.05	-
22	Alkalinity - T [mg/l]	215.04	IS 3025 (Part 23) : 1986 RA 2019	200	600
23	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003 RA 2019	0.03	0.2
24	Boron [mg/l]	0.97	APHA 2017 : 4500- B C	0.5	2.4
25	Sulphide [mg/l]	Less than 0.05	IS 3025 (Part 29) : 1986 RA 2019	0.05	-
26	Total Coliform [MPN/100ml]	Not Detected	IS 5401 (Part 2) : 2012 RA 2018	Shall not be detectable in any 100 ml sample	-
27	E-Coli [MPN/100ml]	Not Detected	IS 5887 (Part 1) : 1976 RA 2018	Shall not be detectable in any 100 ml sample	-
28	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992 RA 2019	0.001	0.002



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S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
29	Selenium as Se [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003 RA 2019	0.01	No relaxation
30	Residual free chlorine [mg/l]	BDL (<0.1)	IS 3025 (Part 26) : 1986 RA 2019	0.2	1.0
31	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991 RA 2019	1.0	-
32	Anionic Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)	0.2	1.0
33	Cyanide as CN [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2019	0.05	-
34	Nickel [mg/l]	BDL(<0.01)	IS 3025 (Part 54) : 2003 RA 2019	0.02	-
35	Silver [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	0.1	-
36	Ammonia [mg/l]	BDL(<0.1)	IS 3025 (Part 34) : 1988 RA 2019	0.5	-
37	Barium [mg/l]	BDL(<0.5)	IS 13428 (Annexure F)	0.7	-
38	Chloramines [mg/l]	BDL (<0.1)	IS 3025 (Part 26) : 1986 RA 2019	4.0	-
39	Molybdenum as Mo [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	0.07	-

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Puran
Puran Mal Yogi
Senior Analyst

Rajesh
Rajesh Maheshwan
Authorized Signatory
(Report No: TC502522100000679)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502522100000738	Date :	16-05-2022
Issued To :	M/S Nimbahera - Ahirpura Limestone Mine (ML No.-2/97), Murlia Block C/o JK Cement Works, Nimbahera, Tehsil- Nimbahera, District- Chittorgarh (Rajasthan).	Type of Unit :	Mines
Type of Sample :	Borewell Water	Date of Sample Collection/Monitoring :	26-04-2022
Point of Collection :	Borewell No.-01	Date of Receipt :	28-04-2022
Date of Test/Analysis :	28-04-2022 to 10-05-2022	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr.	Sample Collected By :	Prahlad yogi
Unit's representative :	Mr Sunil Kumar Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983 RA 2017	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 2018	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7) : 2017 & (Part 8) : 1984 RA 2017	Agreeable	-
4	Turbidity [NTU]	BDL(<0.1)	IS 3025 (Part 10) : 1984 RA 2017	1.00	5.00
5	pH	7.90	IS 3025 (Part 11) : 1983 RA 2017	6.5 to 8.5	No relaxation
6	Hardness (total) [mg/l]	442.72	IS 3025 (Part 21) : 2009 RA 2019	200.00	600.00
7	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2019	1.0	-
8	Chloride [mg/l]	71.98	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00

Note:

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

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
9	Total Dissolved Solids [mg/l]	560	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
10	Calcium [mg/l]	155.34	IS 3025 (Part 40) : 1991 RA 2019	75.00	200.00
11	Magnesium [mg/l]	13.21	IS 3025 (Part 46) : 1994 RA 2019	30.00	100.00
12	Copper [mg/l]	BDL(<0.01)	IS 3025 (Part 42) : 1992 RA 2019	0.05	1.50
13	Manganese [mg/l]	BDL(<0.01)	IS 3025 (Part 59) : 2006 RA 2017	0.1	0.3
14	Sulphate [mg/l]	34.7	IS 3025 (Part 24) : 1986 RA 2019	200.00	400.00
15	Nitrate [mg/l]	15.41	IS 3025 (Part 34) : 1988 RA 2019	45.00	-
16	Fluoride [mg/l]	0.67	IS 3025 (Part 60) : 2008 RA 2019	1.00	1.50
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992 RA 2019	0.003	-
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988 RA 2019	0.01	-
19	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994 RA 2019	0.01	-
20	Zinc [mg/l]	BDL(<0.01)	IS 3025 (Part 49) : 1994 RA 2019	5	15
21	Chromium [mg/l]	BDL(<0.01)	IS 3025 (Part 52) : 2003 RA 2019	0.05	-
22	Alkalinity - T [mg/l]	176.64	IS 3025 (Part 23) : 1986 RA 2019	200	600
23	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003 RA 2019	0.03	0.2
24	Boron [mg/l]	0.65	APHA 2017 : 4500- B C	0.5	2.4
25	Sulphide [mg/l]	Less than 0.05	IS 3025 (Part 29) : 1986 RA 2019	0.05	-
26	Total Coliform [MPN/100ml]	Not Detected	IS 5401 (Part 2) : 2012 RA 2018	Shall not be detectable in any any 100 ml sample	-
27	E-Coli [MPN/100ml]	Not Detected	IS 5887 (Part 1) : 1976 RA 2018	Shall not be detectable in any 100 ml sample	-
28	Selenium as Se [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003 RA 2019	0.01	-



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

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
29	Residual free chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986 RA 2019	0.2	1.0
30	Phenolic Compound [mg/l]	BDL(<0.001)	APHA 2017 : 5530 C	0.001	0.002
31	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991 RA 2019	1.0	-
32	Anionic Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)	0.2	1.0
33	Cyanide as CN [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2019	0.05	-
34	Nickel [mg/l]	BDL(<0.01)	IS 3025 (Part 54) : 2003 RA 2019	0.02	-
35	Silver [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	0.1	-
36	Ammonia [mg/l]	BDL(<0.1)	IS 3025 (Part 34) : 1988 RA 2019	0.5	-
37	Barium [mg/l]	BDL(<0.5)	IS 13428 (Annexure F)	0.7	-
38	Chloramines [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986 RA 2019	4.0	-
39	Molybdenum as Mo [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	0.07	-

Notes :-

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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwar
Authorized Signatory
(Report No: TC502522100000738)



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

TEST REPORT

Report No./ULR No. :	TC502522100000739	Date :	10-05-2022
Issued To :	M/S Tilakhera Limestone Mine (ML No.- 7/97) , C/o J.K. Cement Works-Nimbahera Tehsil- Nimbahera, District- Chittorgarh 312617 (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Borewell Water	Date of Sample Collection/Monitoring :	26-04-2022
Point of Collection :	Bore well No.-01	Date of Receipt :	28-04-2022
Date of Test/Analysis :	28-04-2022 to 10-05-2022	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
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	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983 RA 2017	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 2018	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7) : 2017 & (Part8) : 1984 RA 2017	Agreeable	-
4	Turbidity [NTU]	BDL(<0.1)	IS 3025 (Part 10) : 1984 RA 2017	1.00	5.00
5	pH	7.58	IS 3025 (Part 11) : 1983 RA 2017	6.5 to 8.5	No relaxation
6	Hardness (total) [mg/l]	376.7	IS 3025 (Part 21) : 2009 RA 2019	200.00	600.00
7	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2019	1.0	-
8	Chloride [mg/l]	75.98	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00

Note:

Continue to next page...

Rajesh
Rajesh Maheshwari



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RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
9	Total Dissolved Solids [mg/l]	544	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
10	Calcium [mg/l]	128.93	IS 3025 (Part 40) : 1991 RA 2019	75.00	200.00
11	Magnesium [mg/l]	13.21	IS 3025 (Part 46) : 1994 RA 2019	30.00	100.00
12	Copper [mg/l]	BDL(<0.01)	IS 3025 (Part 42) : 1992 RA 2019	0.05	1.50
13	Manganese [mg/l]	BDL(<0.01)	IS 3025 (Part 59) : 2006 RA 2017	0.1	0.3
14	Sulphate [mg/l]	25.4	IS 3025 (Part 24) : 1986 RA 2019	200.00	400.00
15	Nitrate [mg/l]	16.52	IS 3025 (Part 34) : 1988 RA 2019	45.00	-
16	Fluoride [mg/l]	0.55	IS 3025 (Part 60) : 2008 RA 2019	1.00	1.50
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992 RA 2019	0.003	-
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988 RA 2019	0.01	-
19	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994 RA 2019	0.01	-
20	Zinc [mg/l]	BDL(<0.01)	IS 3025 (Part 49) : 1994 RA 2019	5	15
21	Chromium [mg/l]	BDL(<0.01)	IS 3025 (Part 52) : 2003 RA 2019	0.05	-
22	Alkalinity - T [mg/l]	184.32	IS 3025 (Part 23) : 1986 RA 2019	200	600
23	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003 RA 2019	0.03	0.2
24	Boron [mg/l]	0.69	APHA 2017 : 4500- B C	0.5	2.4
25	Sulphide [mg/l]	Less than 0.05	IS 3025 (Part 29) : 1986 RA 2019	0.05	-
26	Total Coliform [MPN/100ml]	Not Detected	IS 5401 (Part 2) : 2012 RA 2018	Shall not be detectable in any 100 ml sample	-
27	E-Coli [MPN/100ml]	Not Detected	IS 5887 (Part 1) : 1976 RA 2018	Shall not be detectable in any 100 ml sample	-
28	Selenium as Se [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003 RA 2019	0.01	-



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S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
29	Residual free chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986 RA 2019	0.2	1.0
30	Phenolic Compound [mg/l]	BDL(<0.001)	APHA 2017 : 5530 C	0.001	0.002
31	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991 RA 2019	1.0	-
32	Anionic Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)	0.2	1.0
33	Cyanide as CN [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2019	0.05	-
34	Nickel [mg/l]	BDL(<0.01)	IS 3025 (Part 54) : 2003 RA 2019	0.02	-
35	Silver [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	0.1	-
36	Ammonia [mg/l]	BDL(<0.1)	IS 3025 (Part 34) : 1988 RA 2019	0.5	-
37	Barium [mg/l]	BDL(<0.5)	IS 13428 (Annexure F)	0.7	-
38	Chloramines [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986 RA 2019	4.0	-
39	Molybdenum as Mo [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	0.07	-

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Senior Analyst
Purnima Mal Yogi


Authorized Signatory
Rajesh Mishra
(Report No: TC502522100000739)

J.K. Cement WORKS, Nimbahera (RAJ)

Treated Domestic Effluent Analysis Report

HALF YEARLY REPORT (April'22- September'22)

S.No.	PARAMETER	Standards	April-22	May-22	June-22	July-22	August-22	September-22
1	pH	Between 5.5 to 9.0	7.63	7.80	7.89	7.70	7.76	7.60
2	Total Suspended solids	Not to exceed 100 mg/l	41.2	38.0	36.00	43.00	31.00	28.00
3	Chemical Oxygen Demand	Not to exceed 250 mg/l	89.6	100.3	101.18	125.30	114.24	108.60
4	Biological Oxygen Demand (3 days at 27 Degree C)	Not to exceed 30 mg/l	12.33	14.41	15.00	28.30	16.00	12.50
5	Oil & Grease	Not to exceed 10 mg/l	<1.0	<1.0	4.00	1.25	5.00	3.25
6	Ammonical Nitrogen (as N)	Not to exceed 50 mg/l	6.63	3.39	5.60	4.62	3.63	2.86
7	Sulphide (as S)	Not to exceed 2.0 mg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
8	Total Kjeldahl Nitrogen (as N)	Not to exceed 100 mg/l	8.53	4.89	6.72	6.32	7.14	7.26
9	Residual Chlorine	Not to exceed 1.0 mg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502522200001296	Date :	22-06-2022
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Distt.- Chittorgarh (Rajasthan)	Type of Unit :	Mines
Type of Sample :	Liquid Effluents	Date of Sample Collection/Monitoring :	11-06-2022
Point of Collection :	STP Kailash 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]	36	APHA.2017:2540-D	100
2	Ammonical Nitrogen as N [mg/l]	5.60	APHA 2017 : 4500-NH3 C	50
3	Biochemical Oxygen Demand (BOD) [mg/l]	15	APHA 2017:5210-B	30
4	Chemical Oxygen Demand (COD) [mg/l]	101.18	APHA:2017 : 5220-C	250
5	pH	7.89	APHA:2017 : 4500 H+B	5.5 - 9.0
6	Sulphide as S [mg/l]	BDL(<0.1)	APHA. 2017 : 4500-S2-F	2
7	Total Kjeldahl Nitrogen (TKN) [mg/l]	6.72	APHA 2017 : 4500-Norg B	100
8	Oil & Grease [mg/l]	4	APHA 2017 : 5520 B	10
9	Total Residual chlorine [mg/l]	BDL (<0.1)	APHA 2017 : 4500- Cl- B	1.0

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Senior Analyst
Sunil Kumar

Authorized Signatory
(Report No: TC502522200001296)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	200001296	Date :	22-06-2022
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Distt.- Chittorgarh (Rajasthan)	Type of Unit :	Mines
Type of Sample :	Liquid Effluents	Date of Sample Collection/Monitoring :	11-06-2022
Point of Collection :	STP Kailash 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	-

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Senior Analyst
Sunil Kumar

Authorized Signatory
(Report No: TC502522200001296)



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TEST REPORT

Report No./ULR No. :	TC502522200001299	Date :	22-06-2022
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Distt. - Chittorgarh (Rajasthan)	Type of Unit :	Mines
Type of Sample :	Liquid Effluents	Date of Sample Collection/Monitoring :	11-06-2022
Point of Collection :	STP- 35 KLD	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]	23	APHA.2017:2540-D	100
2	Ammonical Nitrogen as N [mg/l]	2.24	APHA 2017 : 4500-NH3 C	50
3	Biochemical Oxygen Demand (BOD) [mg/l]	14	APHA 2017:5210-B	30
4	Chemical Oxygen Demand (COD) [mg/l]	107.71	APHA:2017 : 5220-C	250
5	pH	7.69	APHA:2017 : 4500 H+B	5.5 - 9.0
6	Sulphide as S [mg/l]	BDL (<0.1)	APHA. 2017 : 4500-S2-F	2
7	Total Kjeldahl Nitrogen (TKN) [mg/l]	3.36	APHA 2017 : 4500-Norg B	100
8	Oil & Grease [mg/l]	5	APHA 2017 : 5520 B	10
9	Total Residual chlorine [mg/l]	BDL (<0.1)	APHA 2017 : 4500- Cl- B	0.5

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Sunil Kumar
Senior Analyst

Rakesh Maheshwan
Authorized Signatory
(Report No: TC502522200001299)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	200001299	Date :	22-06-2022
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Distt.- Chittorgarh (Rajasthan)	Type of Unit :	Mines
Type of Sample :	Liquid Effluents	Date of Sample Collection/Monitoring :	11-06-2022
Point of Collection :	STP- 35 KLD	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

Authorized Signatory
(Report No: 200001299)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502522200001300	Date :	22-06-2022
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Distt.- Chittorgarh (Rajasthan)	Type of Unit :	Mines
Type of Sample :	Liquid Effluents	Date of Sample Collection/Monitoring :	11-06-2022
Point of Collection :	STP- 55 KLD	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]	26	APHA.2017:2540-D	100
2	Ammonical Nitrogen as N [mg/l]	3.64	APHA 2017 : 4500-NH3 C	50
3	Biochemical Oxygen Demand (BOD) [mg/l]	17	APHA 2017:5210-B	30
4	Chemical Oxygen Demand (COD) [mg/l]	110.98	APHA:2017 : 5220-C	250
5	pH	7.89	APHA:2017 : 4500 H+B	5.5 - 9.0
6	Sulphide as S [mg/l]	BDL (<0.1)	APHA. 2017 : 4500-S2-F	2
7	Total Kjeldahl Nitrogen (TKN) [mg/l]	4.06	APHA 2017 : 4500-Norg B	100
8	Oil & Grease [mg/l]	6	APHA 2017 : 5520 B	10
9	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
Rajesh Maheshwan
(Report No: TC502522200001300)



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

TEST REPORT

Report No./ULR No. :	200001300	Date :	22-06-2022
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Distt.- Chittorgarh (Rajasthan)	Type of Unit :	Mines
Type of Sample :	Liquid Effluents	Date of Sample Collection/Monitoring :	11-06-2022
Point of Collection :	STP- 55 KLD	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

Authorized Signatory
(Report No: 200001300)



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

TEST REPORT

Report No./ULR No. :	TC502522200001826	Date :	23-08-2022
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Liquid Effluents	Date of Sample Collection/Monitoring :	03-08-2022
Point of Collection :	STP Kailash 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]	31	APHA.2017:2540-D	100
2	Ammonical Nitrogen as N [mg/l]	3.63	APHA 2017 : 4500-NH3 C	50
3	Biochemical Oxygen Demand (BOD) [mg/l]	16	APHA 2017:5210-B	30
4	Chemical Oxygen Demand (COD) [mg/l]	114.24	APHA:2017 : 5220-C	250
5	pH	7.76	APHA:2017 : 4500 H+B	5.5 - 9.0
6	Sulphide as S [mg/l]	BDL (<0.1)	APHA. 2017 : 4500-S2-F	2
7	Total Kjeldahl Nitrogen (TKN) [mg/l]	7.14	APHA 2017 : 4500-Norg B	100
8	Oil & Grease [mg/l]	5	APHA 2017 : 5520 B	10
9	Free available chlorine [mg/l]	BDL(<0.1)	APHA 2017 : 4500- CI- B	0.5
10	Total Nitrogen [mg/l]	8.73	APHA 2017 : 4500-Norg B	10

Notes :-

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Senior Analyst

Sunil Kumar

Authorized Signatory

(Report No: TC502522200001826)



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

TEST REPORT

Report No./ULR No. :	200001826	Date :	23-08-2022
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Liquid Effluents	Date of Sample Collection/Monitoring :	03-08-2022
Point of Collection :	STP Kailash 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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Sunil Kumar
Senior Analyst

K.N. MUKHOPADHYAY
Authorized Signatory
(Report No: 200001826)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502522200001827	Date :	23-08-2022
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Liquid Effluents	Date of Sample Collection/Monitoring :	03-08-2022
Point of Collection :	STP - 35 KLD	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]	25	APHA.2017:2540-D	100
2	Ammonical Nitrogen as N [mg/l]	1.89	APHA 2017 : 4500-NH3 C	50
3	Biochemical Oxygen Demand (BOD) [mg/l]	15	APHA 2017:5210-B	30
4	Chemical Oxygen Demand (COD) [mg/l]	117.5	APHA:2017 : 5220-C	250
5	pH	7.82	APHA:2017 : 4500 H+B	5.5 - 9.0
6	Sulphide as S [mg/l]	BDL (<0.1)	APHA. 2017 : 4500-S2-F	2
7	Total Kjeldahl Nitrogen (TKN) [mg/l]	5.51	APHA 2017 : 4500-Norg B	100
8	Oil & Grease [mg/l]	5	APHA 2017 : 5520 B	10
9	Free available chlorine [mg/l]	BDL(<0.1)	APHA 2017 : 4500- Cl- B	0.5
10	Total Nitrogen [mg/l]	7.14	APHA 2017 : 4500-Norg B	10

Notes :-

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Senior Analyst

K.N. MUKHOPADHYAY
Authorized Signatory
(Report No: TC502522200001827)



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

TEST REPORT

Report No./ULR No. :	200001827	Date :	23-08-2022
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Liquid Effluents	Date of Sample Collection/Monitoring :	03-08-2022
Point of Collection :	STP - 35 KLD	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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Sunil Kumar
Senior Analyst

K.N. MUKHOPADHYAY
Authorized Signatory
(Report No: 200001827)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502522200001828	Date :	23-08-2022
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Liquid Effluents	Date of Sample Collection/Monitoring :	03-08-2022
Point of Collection :	STP - 55 KLD	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]	22	APHA.2017:2540-D	100
2	Ammonical Nitrogen as N [mg/l]	2.46	APHA 2017 : 4500-NH3 C	50
3	Biochemical Oxygen Demand (BOD) [mg/l]	18	APHA 2017:5210-B	30
4	Chemical Oxygen Demand (COD) [mg/l]	130.56	APHA:2017 : 5220-C	250
5	pH	7.75	APHA:2017 : 4500 H+B	5.5 - 9.0
6	Sulphide as S [mg/l]	BDL (<0.1)	APHA. 2017 : 4500-S2-F	2
7	Total Kjeldahl Nitrogen (TKN) [mg/l]	6.09	APHA 2017 : 4500-Norg B	100
8	Oil & Grease [mg/l]	5	APHA 2017 : 5520 B	10
9	Free available chlorine [mg/l]	BDL(<0.1)	APHA 2017 : 4500- Cl- B	0.5
10	Total Nitrogen [mg/l]	8.59	APHA 2017 : 4500-Norg B	10

Notes :-

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Senior Analyst
Sunil Kumar

K.N. MUKHOPADHYAY
Authorized Signatory
(Report No: TC502522200001828)



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

TEST REPORT

Report No./ULR No. :	200001828	Date :	23-08-2022
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Liquid Effluents	Date of Sample Collection/Monitoring :	03-08-2022
Point of Collection :	STP - 55 KLD	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
Sunil Kumar

K.N. MUKHOPADHYAY
Authorized Signatory
(Report No: 200001828)

J.K. Cement WORKS, Nimbahera (RAJ)**Annexure-7****Noise Monitoring Report****(All Values in dB)**

Month	HALF YEARLY REPORT (April-22 -September '22) FY 2022-23							
	Main Security Gate		Thermal Power Plant		New JK Factory Gate		Mines Office	
	Day	Night	Day	Night	Day	Night	Day	Night
Apr-22	66.2	52.2	67.5	51.4	64.9	54.3	68.8	52.1
May-22	68.5	54.2	63.6	54.1	64.2	55.3	70.2	52.1
Jun-22	62.2	55.6	69.2	52.1	63.6	58.4	64.8	54.8
Jul-22	66.3	54.2	65.4	55.2	67.8	56.3	66.2	52.2
Aug-22	64.5	52.9	66.8	54.6	70.2	59.4	64.8	55.9
Sep-22	67.8	56.8	64.1	52.3	68.1	54.1	70.1	51.8
Average	65.9	54.3	66.1	53.3	66.5	56.3	67.5	53.2



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

TEST REPORT

Report No./ULR No. :	TC502522600001182	Date :	05-07-2022
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Ambient Noise Level Monitoring	Date of Sample Collection/Monitoring :	17-06-2022
Point of Collection :	Near Main Security Gate	Date of Receipt :	27-06-2022
Date of Test/Analysis :	27-06-2022 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 (Night Time) : Leq [dB(A)]	52.3	IS 9989	70
2	Noise Level (Day Time) : Leq [dB(A)]	65.4	IS 9989	75

Notes :-

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Purni Mali Yogi
Senior Analyst

Rajesh Maheshwan
Authorized Signatory

(Report No: TC502522600001182)



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

TEST REPORT

Report No./ULR No. :	TC502522600001183	Date :	05-07-2022
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Ambient Noise Level Monitoring	Date of Sample Collection/Monitoring :	17-06-2022
Point of Collection :	Near Thermal Power Plant	Date of Receipt :	27-06-2022
Date of Test/Analysis :	27-06-2022 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 (Night Time) : Leq [dB(A)]	60.5	IS 9989	70
2	Noise Level (Day Time) : Leq [dB(A)]	69.3	IS 9989	75

Notes :-

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Purnan Mal Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: TC502522600001183)



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

TEST REPORT

Report No./ULR No. :	TC502522600001184	Date :	05-07-2022
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Ambient Noise Level Monitoring	Date of Sample Collection/Monitoring :	17-06-2022
Point of Collection :	New J.k Factory Gate	Date of Receipt :	27-06-2022
Date of Test/Analysis :	27-06-2022 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 (Night Time) : Leq [dB(A)]	53.1	IS 9989	70
2	Noise Level (Day Time) : Leq [dB(A)]	64.7	IS 9989	75

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

Puram Mal Yogi
Senior Analyst

Rajesh Maheshwar
Authorized Signatory

(Report No: TC502522600001184)



TEAM TEST HOUSE

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



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

RSPCB

ISO 9001:2015,

ISO 14001:2015,

ISO 45001:2018 (OH&S)

JDA/UDH

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TEST REPORT

Report No./ULR No. :	TC502522600001185	Date :	05-07-2022
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Ambient Noise Level Monitoring	Date of Sample Collection/Monitoring :	17-06-2022
Point of Collection :	Near Mine Gate	Date of Receipt :	27-06-2022
Date of Test/Analysis :	27-06-2022 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 (Night Time) : Leq [dB(A)]	53.4	IS 9989	70
2	Noise Level (Day Time) : Leq [dB(A)]	61.9	IS 9989	75

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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory

(Report No: TC502522600001185)

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 : Surya Pratap Meena, JSO, 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	2127	J.K.Cement Works,AhirpuraAhirpura Tehsil:Nimbahera District:Chittorgarh	Ambient noise level monitoring near thermal power plant gate.	06/07/2022	63.8	ND

**BOARD ANALYST**

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 : Surya Pratap Meena, JSO, 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	2128	J.K.Cement Works,AhirpuraAhirpura Tehsil:Nimbahera District:Chittorgarh	Ambient noise level monitoring near Mines office.	06/07/2022	66.4	ND


BOARD ANALYST

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 : Surya Pratap Meena, JSO, 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	2129	J.K.Cement Works,AhirpuraAhirpura Tehsil:Nimbahera District:Chittorgarh	Ambient noise level monitoring near Main security gate.	06/07/2022	61.8	ND



BOARD ANALYST

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 : Surya Pratap Meena, JSO, 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	2130	J.K.Cement Works,AhirpuraAhirpura Tehsil:Nimbahera District:Chittorgarh	Ambient noise level monitoring near New J.K. Factory gate.	06/07/2022	62.8	ND


BOARD ANALYST

Rajasthan State Pollution Control Board

* ND = Not Done

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

जे. 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 धर्माकोल (पॉलिस्टीरिन)
-  मिठाईयों के डिब्बे, निमंत्रण पत्रिका व सिगरेट के पैकेट और उनके कवर
-  प्लास्टिक की छट्टी के साथ कानकोरनी, गुब्बारों के लिए प्लास्टिक के झड़े, कैड़ी 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 वुवन बैग्स के साथ) हैण्डल वाली और बिना हैण्डल वाली



वर्तन, कटोरी और डिब्बे



J. K. Cement Works, Nimbahera



बाजार जाते
समय
जूट या कपड़े
का बैग
लेकर जाएँ।

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 बेग
लेकर जाएँ।

[illegible]

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.....

