

MGR/PC-21/C13

through Email

Date: 17.05.2023

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

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

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

Dear Sir,

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

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

We trust you will find the same in order.

Thanking you,

Yours Faithfully

For J. K. Cement Works, Mangrol



R. B. M. Tripathi
President (Operations)

Encl: as above

Copy to:

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

Corporate Office

- Padam Tower, 19 DDA Community Centre
Okhla, Phase - 1, New Delhi - 110020, India
+011-49220000
admin.padamtower@jkcement.com
www.jkcement.com

**JK SUPER
CEMENT**
BUILD SAFE

Manufacturing Units at :

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

**JK CEMENT
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*	2023	Reporting Period*	October-2022 to March-2023
Remarks (if any)	Submitting herewith the Six Monthly EC Compliance Report for the period: October-2022 to March-2023 of 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: 2022-23
Clinker Production	Million Tons Per Annum	5.20	2.191689
Cement Production	Million Tons Per Annum	6.50	3.285768

CPP (Electricity Generation)	MW/Hr.	22	5820 Mwh
WHRB (Electricity Generation)	MW/Hr.	30	70051.817 Mwh

ENVIRONMENT CLEARANCE COMPLIANCE REPORT OF J. K. CEMENT WORKS, NIMBAHERA (RAJASTHAN)				
EC Compliance Report: October-2022 to March-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: October-22 to March-23 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 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-	Yet to be complied	<ul style="list-style-type: none"> Air cooled condenser 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

		monthly compliance report.		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: October-22 to March-23 is enclosed as Annexure-2 .
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 is 3237 nos. of sapling 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> <p>-</p> <p>a) Pavocristatus (Indian Peafowl),</p> <p>b) Pantherapadusfusca (Indian Leopard),</p> <p>c) Prionailurusrubiginosus (Rusty-Spotted Cat),</p> <p>d) Canis lupus pallipes (Indian Wolf),</p> <p>e) Varanusbengalensis (Indian Monitor Lizard)</p> <p>f) Gyps indicus/Gyps bengalensis (Indian Vulture)</p> <p>Wild life conservation plan has been forwarded by the DFO - Chittorgarh to Divisional Chief Conservator of Forest vide letter No.: F(5) Survey/UVS/2021-22/4089 dated 13.07.2021 and accordingly 20% amount of Rs. 57.07 Lakh deposited to DFO - Chittorgarh against the total amount of WCP of Rs. 285.30/- Cr in July-2021.</p>
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	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. • 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.

		project.		
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: Oct-22 to March-23 are enclosed as <u>Annexure-3</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 Post-monsoon ground water quality analysis report is enclosed as <u>Annexure - 4.</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: Oct-22 to March-23 is enclosed as <u>Annexure-5.</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: Oct-22 to March-23 is enclosed as <u>Annexure- 6</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	Complied	<div>All suitable measures like VVFD, high efficient motors have been adopted to reduce power consumption.</div> <div>The specific Power and Thermal Energy Consumption is as given below:</div> <table><tr><td>Month</td><td>Power Consumption</td><td></td></tr><tr><td></td><td></td><td></td></tr></table>	Month	Power Consumption				
Month	Power Consumption									

		clinker.		<table><tr><td></td><td colspan="2">(kwh/ton of Cement)</td><td>Thermal Energy Kcal/ Kg. of Clinker (with loss)</td></tr><tr><td></td><td>OPC (43+53)</td><td>PPC (PPC+WS+PPCSS)</td><td></td></tr><tr><td>Oct-22</td><td>29.00</td><td>26.40</td><td>744</td></tr><tr><td>Nov-22</td><td>30.70</td><td>26.08</td><td>748</td></tr><tr><td>Dec-22</td><td>30.47</td><td>27.69</td><td>759</td></tr><tr><td>Jan-23</td><td>31.28</td><td>27.15</td><td>764</td></tr><tr><td>Feb-23</td><td>30.78</td><td>25.86</td><td>775</td></tr><tr><td>Mar-23</td><td>29.80</td><td>24.81</td><td>775</td></tr><tr><td>Average</td><td>30.35</td><td>26.29</td><td>762</td></tr></table>		(kwh/ton of Cement)		Thermal Energy Kcal/ Kg. of Clinker (with loss)		OPC (43+53)	PPC (PPC+WS+PPCSS)		Oct-22	29.00	26.40	744	Nov-22	30.70	26.08	748	Dec-22	30.47	27.69	759	Jan-23	31.28	27.15	764	Feb-23	30.78	25.86	775	Mar-23	29.80	24.81	775	Average	30.35	26.29	762
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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 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	The project proponent shall carry out heat stress analysis for the workmen who work in	Complied	There is no any activity is carried out in high temperature work zone however during shutdown, we start working after cooling																																				

	health issues	high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms.		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 health issues	Occupational health surveillance of the workers shall be done on a regular basis and records maintained.	Complied	Periodical medical examination of all employee and workmen are being carried out and report is being 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: 2022-23 is given as below: -

Details of CSR amount spent in FY 2022-23

SN	Name of the project	Item from the list of activities in Schedule VII to the Act	Local Area or other	District	Amount spent for the Project (inRs.)
1	BOOKS PROVIDED IN SHRI KALLAJI VEDIC VISHVAVIDYA	Art & Culture	Nimbahera	Chittorgarh	₹ 1,49,800.00
2	BOOKS PROVIDED IN SHRI KALLAJI VEDIC VISHVAVIDYA		Nimbahera	Chittorgarh	₹ 19,704.00
3	PROV.ZEE RAJ.LAUNCHING FLAGSHIP PROG."ZEE VIBRANT"		Chittorgadh	Chittorgarh	₹ 2,00,000.00
	Especial Eye Camp	Health	Nimbahera	Chittorgarh	₹ 2,26,000.00
4	REPAIR & RENOVATION WORK GOVT. HOSPITAL		Nimbahera	Chittorgarh	₹ 7,62,284.00
5	CC FLOORING WORK AT MALIAKERA SCHOOL	Educational Charity	Maliakhedi	Chittorgarh	₹ 2,51,845.00
6	480 SILVER COINS PUR FOR REUBLIC DAY JAN'23		Nimbahera	Chittorgarh	₹ 3,56,021.00
7	Malyakhedi boundry wall		Maliakhedi	Chittorgarh	₹ 2,93,316.00
8	Anganwari Banjara Basti		Nimbahera	Chittorgarh	₹ 11,47,917.00
9	Govt. school Nimbahera		Nimbahera	Chittorgarh	₹ 41,742.00
10	Tree prunning work below 132KV D/C	Enviroment	Bamaniya	Chittorgarh	₹ 47,536.00
11	Construction of CC Road at Karunda Village	Infrastructure Development	karunda	Chittorgarh	₹ 15,70,940.00
12	Community Center and Boundary Wall Falwa		Falwa	Chittorgarh	₹ 9,99,591.00

13	Development at Karunda Village Mokshdham		karunda	Chittorgarh	₹ 20,23,239.00
14	Selfie point at JK Circle Nimbahera		Nimbahera	Chittorgarh	₹ 15,34,000.00
15	Construction of CC Chowk at Dhanora Vill		Dhanora	Chittorgarh	₹ 16,37,104.00
16	MAKING OF WBM ROAD AT FACHAR AHIRAN VILL		Phachar	Chittorgarh	₹ 10,92,980.00
19	CC ROAD CONSTRUCTION AT KARUNDA VILLAGE		karunda	Chittorgarh	₹ 14,22,158.00
20	GREWAL WORK LOADING & TRANSPORTATION for road con.		Nimbahera	Chittorgarh	₹ 3,39,486.00
22	Const.of CC road at Dhanora village		Dhanora	Chittorgarh	₹ 7,31,712.00
23	GREWAL TRANSPORTATION WORK AT BAMNIYA VI		Bamaniya	Chittorgarh	2,20,660.00
24	Transporation of gravel nbh-Bansa vill		Bansa	Chittorgarh	₹ 50,268.00
25	CONST OF community hall near HANUMAN TEMPLE		Charliya	Chittorgarh	₹ 4,72,922.00
26	Const.of CC Road in Bansa		Bansa	Chittorgarh	₹ 36,90,737.00
28	3 NOS.COOLER & 4 NOS.FAN FR GOVT.HOSPITAL NAYAGAON		Nayagaon	Chittorgarh	₹ 29,330.00
31	Bhanwaliya road cons.		Bhanwaliya	Chittorgarh	₹ 71,42,523.00
32	4 NOS.LED HIGHT MAST LIGHTING FOR MURLIYA VILLAGE		Murliya	Chittorgarh	₹ 14,094.00
33	Pipaliya(Karunda)Shamshan Development		karunda	Chittorgarh	₹ 13,47,110.00
34	CC Road Sand		Sand	Chittorgarh	₹ 12,52,461.00
35	Phalwa community hall		Falwa	Chittorgarh	₹ 5,22,105.00
36	Karthana boundry wall		Karthjana	Chittorgarh	₹ 8,03,818.00
37	Shamshan Phachar		Phachar	Chittorgarh	₹ 21,94,543.00
38	Charbhuja temple community center Charliya		Charliya	Chittorgarh	₹ 12,49,665.00
39	community councelling hall at SDM office		Nimbahera	Chittorgarh	₹ 11,90,482.00
41	CONTRIBUTION OF DR APJ ABDUL KALAM 7TH DEATH ANNIV	National Functions	Nimbahera	Chittorgarh	₹ 20,000.00
42	PAY AG 2000 NATIONAL FLAG-GHAR GHAR TIRANGA YOJANA		Nimbahera	Chittorgarh	₹ 50,000.00
43	PAY AG 4000 NATIONAL FLAG-GHAR GHAR TIRANGA YOJANA		Nimbahera	Chittorgarh	₹ 1,00,000.00
44	CONTRIBUTION FOR DISTRICT FOOTBALL ASSOCIATION	Sports Promotion	Nimbahera	Chittorgarh	₹ 25,000.00
45	CONTRIBUTION OF RAJKIYA UCHCH MADHYAMIK VIDYALAYA		Nimbahera	Chittorgarh	₹ 50,000.00
46	CONTRIBUTION FR 18TH NATIONAL SCOUT GUIDE JAMBOREE		Nimbahera	Chittorgarh	₹ 1,50,000.00
47	SPORTS ITEM PURCHASED FOR KARUNDA PANCHAYAT		karunda	Chittorgarh	₹ 14,550.00
48	280 NOS.KABADDI MAT PUR.FR PAYARI & SAND GRAM PANC		Sand	Chittorgarh	₹ 3,01,056.00
49	CONTRIBUTION OF CRICKET TOURNAMENT BADOLI GHATA		Badolighata	Chittorgarh	₹ 40,000.00
50	CONTRIBUTION OF CRICKET TOURNAMENT CHITTORGARH		Chittorgadh	Chittorgarh	₹ 10,00,000.00
51	CONTRIBUTION OF HURA BA GO SEWA SANSTHAN		Nimbahera	Chittorgarh	₹ 1,25,000.00
52	PROV.SPORTS TOURNAMNET"408191		Nimbahera	Chittorgarh	₹ 1,00,000.00

53	CONTRIBUTION FOR DISTRICT FOOTBALL ASSOCIATION			Nimbahera	Chittorgarh	₹ 60,000.00
54	CONTRIBUTION OF RAJIV GANDHI SPORTS COMPETITON			Nimbahera	Chittorgarh	₹ 50,000.00
55	ORGANISING CULTURAL EVENT-MEERA SMRATI SANSTHAN			Chittorgadh	Chittorgarh	₹ 1,00,000.00
57	Khel Ayojan Samiti Sukhwara			Chittorgadh	Chittorgarh	₹ 3,00,000.00
58	CONSTRUCTION OF NALLA AT DHANORA VILLAGE		Sanitation	Dhanora	Chittorgarh	₹ 5,11,140.00
59	Skill Development for women		Livelihood Development	All	Chittorgarh	19,78,700.00
TOTAL						₹ 3,97,82,879.00

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	Complied	Publically published in 02 local newspapers namely Rajasthan Patrika and Dainik Bhaskar on 17/02/2022 regarding grant of Environment Clearance.

		which on shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.		
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: April-22 to September-22 has been submitted through e-mail on 24.11.2022 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 22.11.2022 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 Form-V to the concerned State Pollution Control Board as prescribed under	Complied	Unit has submitted the Environment Statement Report (ESR) in Form-V for the FY: 2021-22 for Cement Plant, 22 MW CPP and 13.2 MW WHRS to RSPCB Office vide our letter No.: NBH-PC-ESR-21- 894, 892 & 893, dated 19.09.2022, respectively.

		the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.		
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	Complied	Noted and agreed.

		conditions. The 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-7.**

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



(Authorized Signatory)

J.K. Cement WORKS, NIMBAHERA (RAJ)									Annexure-1
DATA SHEET FOR PARTICULATE MATTER EMISSION FROM POINT SOURCE									
HALF YEARLY REPORT FY-2022-23 (October' 2022 to March' 2023)									
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)	
October'2022									
06.10.2022	L.S. CRUSHER (B.F.)	0.26	325	11.71	2.79	15.9	14.6	0.004	
14.10.2022	L.S. CRUSHER (B.F.)	0.26	321	12.57	3.03	11.2		0.003	
22.10.2022	L.S. CRUSHER (B.F.)	0.26	329	9.65	2.27	14.0		0.003	
29.10.2022	L.S. CRUSHER (B.F.)	0.26	322	11.44	2.75	17.4		0.004	
November'2022									
02.11.2022	L.S. CRUSHER (B.F.)	0.26	322	10.40	2.50	16.4	15.9	0.004	
10.11.2022	L.S. CRUSHER (B.F.)	0.26	327	9.79	2.32	14.2		0.003	
18.11.2022	L.S. CRUSHER (B.F.)	0.26	322	9.65	2.32	20.5		0.004	
26.11.2022	L.S. CRUSHER (B.F.)	0.26	326	11.73	2.79	12.6		0.003	
December'2022									
05.12.2022	L.S. CRUSHER (B.F.)	0.26	324	8.93	2.14	8.9	12.8	0.002	
13.12.2022	L.S. CRUSHER (B.F.)	0.26	326	8.14	1.93	15.6		0.003	
21.12.2022	L.S. CRUSHER (B.F.)	0.26	321	9.65	2.33	14.9		0.003	
28.12.2022	L.S. CRUSHER (B.F.)	0.26	320	12.50	3.03	11.6		0.003	
Janauary'2023									
03.01.2023	L.S. CRUSHER (B.F.)	0.26	321	8.38	2.02	14.8	15.2	0.003	
10.01.2023	L.S. CRUSHER (B.F.)	0.26	324	8.11	1.94	15.8		0.003	
19.01.2023	L.S. CRUSHER (B.F.)	0.26	323	9.65	2.31	13.2		0.003	
27.01.2023	L.S. CRUSHER (B.F.)	0.26	328	7.59	1.79	16.9		0.003	
February'2023									
04.02.2023	L.S. CRUSHER (B.F.)	0.26	325	7.30	1.74	17.8	16.3	0.003	
11.02.2023	L.S. CRUSHER (B.F.)	0.26	321	7.26	1.75	15.3		0.002	
18.02.2023	L.S. CRUSHER (B.F.)	0.26	322	9.65	2.32	18.5		0.004	
25.02.2023	L.S. CRUSHER (B.F.)	0.26	324	9.14	2.19	13.6		0.003	
March'2023									
01.03.2023	L.S. CRUSHER (B.F.)	0.26	321	10.14	2.45	16.4	14.8	0.003	
09.03.2023	L.S. CRUSHER (B.F.)	0.26	328	8.98	2.12	12.5		0.002	
17.03.2023	L.S. CRUSHER (B.F.)	0.26	325	9.65	2.30	15.2		0.003	
25.03.2023	L.S. CRUSHER (B.F.)	0.26	332	10.06	2.35	15.1		0.003	
October'2022									
STOPPED	KILN No.1 (Bag House)	Not in operation					0.0	0.000	
November'2022									
STOPPED	KILN No.1 (Bag House)	Not in operation					0.0	0.000	
December'2022									
STOPPED	KILN No.1 (Bag House)	Not in operation					0.0	0.000	
January'2023									
STOPPED	KILN No.1 (Bag House)	Not in operation							
February'2023									
STOPPED	KILN No.1 (Bag House)	Not in operation							
March'2023									
STOPPED	KILN No.1 (Bag House)	Not in operation							

October'2022								
STOPPED	KILN No. 2 (Bag house)	Not in operation						
November'2022								
STOPPED	KILN No. 2 (Bag house)	Not in operation						
December'2022								
STOPPED	KILN No. 2 (Bag house)	Not in operation						
	KILN No. 2 (Bag house)	3.80	408.00	14.00	38.86	8.10	8.1	0.027
Janauary'2023								
04.01.2023	KILN No. 2 (Bag house)	3.80	427.00	15.17	40.23	11.30	12.4	0.039
11.01.2023	KILN No. 2 (Bag house)	3.80	421.00	15.50	41.69	12.30		0.044
STOPPED	KILN No. 2 (Bag house)	3.80						0.000
27.01.2023	KILN No. 2 (Bag house)	3.80	413.00	15.66	42.94	13.70		0.051
February'2023								
02.02.2023	KILN No. 2 (Bag house)	3.80	411.00	15.15	41.74	14.80	14.1	0.053
09.02.2023	KILN No. 2 (Bag house)	3.80	414.00	16.19	44.28	15.80		0.060
16.02.2023	KILN No. 2 (Bag house)	3.80	402.00	14.72	41.46	13.70		0.049
23.02.2023	KILN No. 2 (Bag house)	3.80	408.00	15.67	43.49	12.00		0.045
March'2023								
04.03.2023	KILN No. 2 (Bag house)	3.80	420.00	16.10	43.41	15.50	12.2	0.058
10.03.2023	KILN No. 2 (Bag house)	3.80	429.00	15.26	40.28	10.50		0.037
15.03.2023	KILN No. 2 (Bag house)	3.80	433.00	15.82	41.37	13.90		0.050
24.03.2023	KILN No. 2 (Bag house)	3.80	431.00	14.45	37.97	9.00		0.030
October'2022								
03.10.2022	KILN No. 3 (Bag House)	15.89	404	14.97	175.46	15.20	13.2	0.230
11.10.2022	KILN No. 3 (Bag House)	15.89	399	13.39	158.91	17.00		0.233
19.10.2022	KILN No. 3 (Bag House)	15.89	401	16.03	189.29	12.20		0.200
27.10.2022	KILN No. 3 (Bag House)	15.89	386	13.78	169.04	8.30		0.121
November'2022								
01.11.2022	KILN No. 3 (Bag House)	15.89	388	13.60	165.98	17.90	11.5	0.257
10.11.2022	KILN No. 3 (Bag House)	15.89	405	12.89	150.71	10.30		0.134
17.11.2022	KILN No. 3 (Bag House)	15.89	403	14.58	171.31	11.90		0.176
26.11.2022	KILN No. 3 (Bag House)	15.89	398	14.81	176.20	6.00		0.091
December'2022								
06.12.2022	KILN No. 3 (Bag House)	15.89	441	14.50	155.69	7.10	8.7	0.096
14.12.2022	KILN No. 3 (Bag House)	15.89	421	15.07	169.50	9.80		0.144
21.12.2022	KILN No. 3 (Bag House)	15.89	396	12.93	154.61	5.10		0.068
28.12.2022	KILN No. 3 (Bag House)	15.89	411	14.72	169.59	12.80		0.188
Janauary'2023								
05.01.2023	KILN No. 3 (Bag House)	15.89	411	14.56	167.75	8.10	8.5	0.117
11.01.2023	KILN No. 3 (Bag House)	15.89	414	15.37	175.80	9.60		0.146
19.01.2023	KILN No. 3 (Bag House)	15.89	420	14.32	161.45	10.60		0.148
28.01.2023	KILN No. 3 (Bag House)	15.89	406	14.30	166.78	5.80		0.084
February'2023								
03.02.2023	KILN No. 3 (Bag House)	15.89	409	12.83	148.54	10.90	10.4	0.140
10.02.2023	KILN No. 3 (Bag House)	15.89	398	14.86	176.80	13.00		0.199
17.02.2023	KILN No. 3 (Bag House)	15.89	405	14.61	170.82	8.60		0.127
24.02.2023	KILN No. 3 (Bag House)	15.89	397	13.76	164.12	9.00		0.128
March'2023								
06.03.2023	KILN No. 3 (Bag House)	15.89	409	15.94	184.55	7.30	7.2	0.116
18.03.2023	KILN No. 3 (Bag House)	15.89	413	14.20	162.81	6.30		0.089
24.03.2023	KILN No. 3 (Bag House)	15.89	415	16.21	184.96	9.10		0.145
30.03.2023	KILN No. 3 (Bag House)	15.89	421	14.28	160.62	6.00		0.083
October'2022								
03.10.2022	FOLAX COOLER (E.S.P)	12.56	401	7.40	91.11	16.90	16.5	0.133
11.10.2022	FOLAX COOLER (E.S.P)	12.56	403	9.22	113.52	14.90		0.146
20.10.2022	FOLAX COOLER (E.S.P)	12.56	398	11.01	135.11	15.70		0.183
27.10.2022	FOLAX COOLER (E.S.P)	12.56	395	9.86	120.60	18.40		0.192

November'2022								
01.11.2022	FOLAX COOLER (E.S.P)	12.56	408	9.39	53.43	15.20	16.0	0.070
10.11.2022	FOLAX COOLER (E.S.P)	12.56	403	12.60	97.83	21.20		0.179
17.11.2022	FOLAX COOLER (E.S.P)	12.56	378	10.46	80.94	12.80		0.090
26.11.2022	FOLAX COOLER (E.S.P)	12.56	388	11.48	88.54	14.60		0.112
December'2022								
06.12.2022	FOLAX COOLER (E.S.P)	12.56	398	7.95	101.56	10.50	13.7	0.092
14.12.2022	FOLAX COOLER (E.S.P)	12.56	385	9.73	123.87	16.50		0.177
21.12.2022	FOLAX COOLER (E.S.P)	12.56	398	11.01	138.75	17.70		0.212
28.12.2022	FOLAX COOLER (E.S.P)	12.56	381	8.80	111.27	9.90		0.095
January'2023								
06.01.2023	FOLAX COOLER (E.S.P)	12.56	404	9.97	127.36	20.00	20.3	0.220
09.01.2023	FOLAX COOLER (E.S.P)	12.56	382	12.34	157.10	22.10		0.300
20.01.2023	FOLAX COOLER (E.S.P)	12.56	385	11.57	145.81	20.70		0.261
24.01.2023	FOLAX COOLER (E.S.P)	12.56	392	10.65	134.67	18.50		0.215
February'2023								
03.02.2023	FOLAX COOLER (E.S.P)	12.56	401	9.69	120.49	18.30	17.7	0.191
08.02.2023	FOLAX COOLER (E.S.P)	12.56	403	11.36	140.79	17.90		0.218
13.02.2023	FOLAX COOLER (E.S.P)	12.56	399	10.37	128.52	18.50		0.205
25.02.2023	FOLAX COOLER (E.S.P)	12.56	388	8.53	106.07	16.20		0.148
March'2023								
06.03.2023	FOLAX COOLER (E.S.P)	12.56	405	12.06	148.00	12.50	14.7	0.160
15.03.2023	FOLAX COOLER (E.S.P)	12.56	401	11.74	144.54	15.60		0.195
23.03.2023	FOLAX COOLER (E.S.P)	12.56	404	9.97	121.95	14.60		0.154
28.03.2023	FOLAX COOLER (E.S.P)	12.56	398	10.87	132.96	16.10		0.185
October'2022								
STOPPED	COAL MILL - 1 (B.F.)	Not in operation						
November'2022								
STOPPED	COAL MILL - 1 (B.F.)	Not in operation						
December'2022								
STOPPED	COAL MILL - 1 (B.F.)	Not in operation						
January'2023								
STOPPED	COAL MILL - 1 (B.F.)	Not in operation						
February'2023								
STOPPED	COAL MILL - 1 (B.F.)	Not in operation						
March'2023								
STOPPED	COAL MILL - 1 (B.F.)	Not in operation						
October'2022								
STOPPED	COAL MILL - 2 (B.F.)	Not in operation						
November'2022								
STOPPED	COAL MILL - 2 (B.F.)	Not in operation						
December'2022								
STOPPED	COAL MILL - 2 (B.F.)	Not in operation						

Janauary'2023								
STOPPED	COAL MILL - 2 (B.F.)	Not in operation						
February'2023								
STOPPED	COAL MILL - 2 (B.F.)	Not in operation						
March'2023								
STOPPED	COAL MILL - 2 (B.F.)	Not in operation						
October'2022								
03.10.2022	COAL MILL - 3 (B.F.)	3.52	341	10.52	36.18	4.3	7.5	0.013
11.10.2022	COAL MILL - 3 (B.F.)	3.52	338	9.26	31.74	5.6		0.015
20.10.2022	COAL MILL - 3 (B.F.)	3.52	339	11.16	38.38	9.4		0.031
27.10.2022	COAL MILL - 3 (B.F.)	3.52	335	9.91	33.97	10.8		0.032
November'2022								
01.11.2022	COAL MILL - 3 (B.F.)	3.52	338	10.41	36.28	11.2	10.9	0.035
10.11.2022	COAL MILL - 3 (B.F.)	3.52	337	11.76	40.85	12.20		0.043
17.11.2022	COAL MILL - 3 (B.F.)	3.52	341	9.23	32.17	11.9		0.033
26.11.2022	COAL MILL - 3 (B.F.)	3.52	336	9.92	34.57	8.1		0.024
December'2022								
06.12.2022	COAL MILL - 3 (B.F.)	3.52	341	11.66	41.46	4.4	6.1	0.016
14.12.2022	COAL MILL - 3 (B.F.)	3.52	339	8.61	30.72	8.5		0.023
21.12.2022	COAL MILL - 3 (B.F.)	3.52	338	10.34	36.89	4.5		0.014
28.12.2022	COAL MILL - 3 (B.F.)	3.52	336	11.17	39.85	7.1		0.024
Janauary'2023								
05.01.2023	COAL MILL - 3 (B.F.)	3.52	335	10.42	37.05	7.7	8.6	0.025
11.01.2023	COAL MILL - 3 (B.F.)	3.52	333	11.18	39.89	9.1		0.031
19.01.2023	COAL MILL - 3 (B.F.)	3.52	336	10.75	38.35	8.9		0.029
28.01.2023	COAL MILL - 3 (B.F.)	3.52	337	11.07	39.50	8.6		0.029
February'2023								
03.02.2023	COAL MILL - 3 (B.F.)	3.52	340	10.50	36.84	10.8	11.7	0.034
10.02.2023	COAL MILL - 3 (B.F.)	3.52	342	11.33	39.75	13.20		0.045
17.02.2023	COAL MILL - 3 (B.F.)	3.52	344	11.82	41.33	10.6		0.038
24.02.2023	COAL MILL - 3 (B.F.)	3.52	341	11.01	38.37	12.1		0.040
March'2023								
06.03.2023	COAL MILL - 3 (B.F.)	3.52	335	10.61	36.49	13.2	12.2	0.042
18.03.2023	COAL MILL - 3 (B.F.)	3.52	334	9.69	33.44	11.8		0.034
24.03.2023	COAL MILL - 3 (B.F.)	3.52	336	9.09	31.16	11.4		0.031
30.03.2023	COAL MILL - 3 (B.F.)	3.52	337	10.07	34.86	12.4		0.037
October'2022								
STOPPED	COAL MILL - 4 (BAG FILTER)	Not in operation						
November'2022								
STOPPED	COAL MILL - 4 (BAG FILTER)	Not in operation						
December'2022								
STOPPED	COAL MILL - 4 (BAG FILTER)	Not in operation						
	COAL MILL - 4 (BAG FILTER)							
	COAL MILL - 4 (BAG FILTER)							
29.12.2022	COAL MILL - 4 (BAG FILTER)	1.13	342.00	14.06	16.00	9.80	9.8	0.014
Janauary'2023								
04.01.2023	COAL MILL - 4 (B.F.)	1.13	354	13.86	15.77	10.6	13.9	0.014
11.01.2023	COAL MILL - 4 (B.F.)	1.13	348	15.56	17.70	15.4		0.024
STOPPED	COAL MILL - 4 (B.F.)	STOPPED						0.000
27.01.2023	COAL MILL - 4 (B.F.)	1.13	350	14.42	16.40	15.7		0.022
February'2023								
04.02.2023	COAL MILL - 4 (B.F.)	1.13	347	12.86	14.48	16.0	14.8	0.020
09.02.2023	COAL MILL - 4 (B.F.)	1.13	344	13.42	15.22	12.3		0.016
16.02.2023	COAL MILL - 4 (B.F.)	1.13	342	12.45	14.02	15.1		0.018
23.02.2023	COAL MILL - 4 (B.F.)	1.13	343	11.97	13.44	15.8		0.018

March'2023								
04.03.2023	COAL MILL - 4 (B.F.)	1.13	331	11.48	12.67	18.90	15.2	0.021
10.03.2023	COAL MILL - 4 (B.F.)	1.13	327	10.39	11.51	15.40		0.015
15.03.2023	COAL MILL - 4 (B.F.)	1.13	328	8.52	9.47	12.90		0.011
24.03.2023	COAL MILL - 4 (B.F.)	1.13	330	11.14	12.34	13.70		0.015
October'2022								
03.10.2022	CEMENT MILL - 1 (BAG FILTER)	0.28	347	9.24	2.53	20.0	16.0	0.004
STOPPED	CEMENT MILL - 1 (BAG FILTER)	STOPPED						0.000
19.10.2022	CEMENT MILL - 1 (BAG FILTER)	0.28	360	10.41	2.85	14.40		0.004
29.10.2022	CEMENT MILL - 1 (BAG FILTER)	0.28	357	11.93	3.26	13.70		0.004
November'2022								
03.11.2022	CEMENT MILL - 1 (BAG FILTER)	0.28	350.00	11.28	3.09	14.10	14.50	0.003
12.11.2022	CEMENT MILL - 1 (BAG FILTER)	0.28	353.00	12.03	3.28	15.60		0.004
18.11.2022	CEMENT MILL - 1 (BAG FILTER)	0.28	354.00	11.06	3.03	14.70		0.004
25.11.2022	CEMENT MILL - 1 (BAG FILTER)	0.28	351.00	13.04	3.57	13.60		0.004
December'2022								
08.12.2022	CEMENT MILL - 1 (BAG FILTER)	0.28	354	11.34	3.22	6.50	10.70	0.002
16.12.2022	CEMENT MILL - 1 (BAG FILTER)	0.28	366	12.33	3.49	12.00		0.004
24.12.2022	CEMENT MILL - 1 (BAG FILTER)	0.28	371	13.31	3.75	10.80		0.003
30.12.2022	CEMENT MILL - 1 (BAG FILTER)	0.28	369	14.12	3.99	13.40		0.005
Janauary'2023								
05.01.2023	CEMENT MILL - 1 (BAG FILTER)	0.28	351	11.29	3.20	9.6	11.8	0.003
11.01.2023	CEMENT MILL - 1 (BAG FILTER)	0.28	354	12.12	3.43	10.00		0.003
16.01.2023	CEMENT MILL - 1 (BAG FILTER)	0.28	362	13.15	3.71	19.20		0.006
23.01.2023	CEMENT MILL - 1 (BAG FILTER)	0.28	361	13.97	3.95	8.30		0.003
February'2023								
10.02.2023	CEMENT MILL - 1 (BAG FILTER)	0.28	351.00	10.73	2.99	6.90	8.70	0.002
16.02.2023	CEMENT MILL - 1 (BAG FILTER)	0.28	345.00	13.46	3.77	10.30		0.003
23.02.2023	CEMENT MILL - 1 (BAG FILTER)	0.28	347.00	12.11	3.35	7.30		0.002
28.02.2023	CEMENT MILL - 1 (BAG FILTER)	0.28	350.00	12.61	3.52	10.40		0.003
March'2023								
03.03.2023	CEMENT MILL - 1 (BAG FILTER)	0.28	355	8.57	2.36	14.30	13.90	0.003
07.03.2023	CEMENT MILL - 1 (BAG FILTER)	0.28	357	9.07	2.46	13.20		0.003
17.03.2023	CEMENT MILL - 1 (BAG FILTER)	0.28	351	11.88	3.26	14.00		0.004
25.03.2023	CEMENT MILL - 1 (BAG FILTER)	0.28	361	12.68	3.46	14.10		0.004
October'2022								
STOPPED	CEMENT MILL - 2 (BAG FILTER)	STOPPED					9.8	
14.10.2022	CEMENT MILL - 2 (BAG FILTER)	0.61	351	13.45	7.99	10.0		0.007
20.10.2022	CEMENT MILL - 2 (BAG FILTER)	0.61	355	14.28	8.48	6.3		0.005
29.10.2022	CEMENT MILL - 2 (BAG FILTER)	0.61	353	13.18	7.86	13.00		0.009
November'2022								
05.11.2022	CEMENT MILL - 2 (BAG FILTER)	0.61	358	13.74	8.19	10.10	10.83	0.007
11.11.2022	CEMENT MILL - 2 (BAG FILTER)	0.61	361	11.99	7.12	11.20		0.007
18.11.2022	CEMENT MILL - 2 (BAG FILTER)	0.61	357	13.87	8.24	12.50		0.009
23.11.2022	CEMENT MILL - 2 (BAG FILTER)	0.61	359	12.13	7.23	9.50		0.006
December'2022								
08.12.2022	CEMENT MILL - 2 (BAG FILTER)	0.61	370	12.38	8.16	8.0	10.3	0.006
16.12.2022	CEMENT MILL - 2 (BAG FILTER)	0.61	376	13.55	8.63	10.6		0.008
23.12.2022	CEMENT MILL - 2 (BAG FILTER)	0.61	369	12.82	9.01	13.6		0.011
30.12.2022	CEMENT MILL - 2 (BAG FILTER)	0.61	363	14.78	7.99	9.0		0.006
Janauary'2023								
02.01.2023	CEMENT MILL - 2 (BAG FILTER)	0.61	355	13.01	8.02	11.30	14.1	0.008
13.01.2023	CEMENT MILL - 2 (BAG FILTER)	0.61	353	13.80	8.47	16.7		0.012
21.01.2023	CEMENT MILL - 2 (BAG FILTER)	0.61	357	14.22	8.79	14.3		0.011
23.01.2023	CEMENT MILL - 2 (BAG FILTER)	0.61	359	12.64	7.79	14.00		0.009
February'2023								
01.02.2023	CEMENT MILL - 2 (BAG FILTER)	0.61	357	13.92	8.46	12.60	13.50	0.009
08.02.2023	CEMENT MILL - 2 (BAG FILTER)	0.61	361	14.15	8.60	13.30		0.010
16.02.2023	CEMENT MILL - 2 (BAG FILTER)	0.61	349	13.16	7.95	10.40		0.007
21.02.2023	CEMENT MILL - 2 (BAG FILTER)	0.61	353	12.26	7.38	17.50		0.011
March'2023								
04.03.2023	CEMENT MILL - 2 (BAG FILTER)	0.61	340	10.72	6.37	15.0	15.3	0.008
11.03.2023	CEMENT MILL - 2 (BAG FILTER)	0.61	342	11.67	6.96	14.9		0.009
15.03.2023	CEMENT MILL - 2 (BAG FILTER)	0.61	344	11.24	6.68	16.7		0.010
28.03.2023	CEMENT MILL - 2 (BAG FILTER)	0.61	343	11.86	7.07	14.7		0.009
October'2022								
06.10.2022	CEMENT MILL - 3 (BAG FILTER)	0.50	370	14.63	7.18	11.3	12.5	0.007
13.10.2022	CEMENT MILL - 3 (BAG FILTER)	0.50	364	13.17	6.44	13.0		0.007
19.10.2022	CEMENT MILL - 3 (BAG FILTER)	0.50	360	14.57	7.18	10.3		0.006
24.10.2022	CEMENT MILL - 3 (BAG FILTER)	0.50	366	15.27	7.50	15.5		0.010

November'2022							
STOPPED	CEMENT MILL - 3 (BAG FILTER)	STOPPED					0.000
STOPPED	CEMENT MILL - 3 (BAG FILTER)	STOPPED					0.000
24.11.2022	CEMENT MILL - 3 (BAG FILTER)	0.50	375	14.59	7.22	12.8	0.008
29.11.2022	CEMENT MILL - 3 (BAG FILTER)	0.50	371	15.44	7.64	15.5	0.010
December'2022							
06.12.2022	CEMENT MILL - 3 (BAG FILTER)	0.50	370	12.38	6.33	10.4	0.006
17.12.2022	CEMENT MILL - 3 (BAG FILTER)	0.50	376	13.55	6.90	9.3	0.006
21.12.2022	CEMENT MILL - 3 (BAG FILTER)	0.50	369	12.82	6.51	6.1	0.003
28.12.2022	CEMENT MILL - 3 (BAG FILTER)	0.50	363	14.78	7.48	8.6	0.006
January'2023							
03.01.2023	CEMENT MILL - 3 (BAG FILTER)	0.50	372	12.41	6.34	8.4	0.005
11.01.2023	CEMENT MILL - 3 (BAG FILTER)	0.50	351	13.09	6.67	12.4	0.007
20.01.2023	CEMENT MILL - 3 (BAG FILTER)	0.50	353	12.54	6.36	9.4	0.005
28.01.2023	CEMENT MILL - 3 (BAG FILTER)	0.50	361	14.74	7.46	7.2	0.005
February'2023							
03.02.2023	CEMENT MILL - 3 (BAG FILTER)	0.50	358	11.59	5.76	8.50	0.004
11.02.2023	CEMENT MILL - 3 (BAG FILTER)	0.50	365	9.09	4.51	10.60	0.004
15.02.2023	CEMENT MILL - 3 (BAG FILTER)	0.50	350	13.02	6.45	7.1	0.004
21.02.2023	CEMENT MILL - 3 (BAG FILTER)	0.50	353	9.32	4.64	7.7	0.003
March'2023							
08.03.2023	CEMENT MILL - 3 (BAG FILTER)	0.50	357	10.69	5.25	15.7	0.007
16.03.2023	CEMENT MILL - 3 (BAG FILTER)	0.50	362	12.36	6.09	10.5	0.006
25.03.2023	CEMENT MILL - 3 (BAG FILTER)	0.50	350	12.92	6.32	13.5	0.007
30.03.2023	CEMENT MILL - 3 (BAG FILTER)	0.50	346	11.68	5.71	9.2	0.005
October'2022							
05.10.2022	CEMENT MILL - 4 (BAG FILTER)	0.63	352	13.62	8.38	10.1	0.007
11.10.2022	CEMENT MILL - 4 (BAG FILTER)	0.63	357	13.04	8.03	12.6	0.009
18.10.2022	CEMENT MILL - 4 (BAG FILTER)	0.63	364	14.51	8.90	11.0	0.008
28.10.2022	CEMENT MILL - 4 (BAG FILTER)	0.63	370	14.07	8.63	9.9	0.007
November'2022							
04.11.2022	CEMENT MILL - 4 (BAG FILTER)	0.63	367	13.62	8.52	12.3	0.009
09.11.2022	CEMENT MILL - 4 (BAG FILTER)	0.63	374	14.42	9.02	16.7	0.013
22.11.2022	CEMENT MILL - 4 (BAG FILTER)	0.63	371	15.58	9.72	11.9	0.010
29.11.2022	CEMENT MILL - 4 (BAG FILTER)	0.63	383	13.30	8.27	14.6	0.010
December'2022							
09.12.2022	CEMENT MILL - 4 (BAG FILTER)	0.63	358	9.61	6.10	7.1	0.004
14.12.2022	CEMENT MILL - 4 (BAG FILTER)	0.63	357	10.89	6.95	5.5	0.003
20.12.2022	CEMENT MILL - 4 (BAG FILTER)	0.63	363	12.20	7.82	4.0	0.003
26.12.2022	CEMENT MILL - 4 (BAG FILTER)	0.63	357	13.04	8.30	4.8	0.003
January'2023							
07.01.2023	CEMENT MILL - 4 (BAG FILTER)	0.63	359	9.62	6.10	10.5	0.006
12.01.2023	CEMENT MILL - 4 (BAG FILTER)	0.63	353	10.83	6.92	9.2	0.006
19.01.2023	CEMENT MILL - 4 (BAG FILTER)	0.63	347	11.93	7.64	8.6	0.006
24.01.2023	CEMENT MILL - 4 (BAG FILTER)	0.63	346	12.84	8.17	9.9	0.007
February'2023							
06.02.2023	CEMENT MILL - 4 (BAG FILTER)	0.63	361	10.08	6.27	9.2	0.005
14.02.2023	CEMENT MILL - 4 (BAG FILTER)	0.63	347	11.17	6.97	14.5	0.009
22.02.2023	CEMENT MILL - 4 (BAG FILTER)	0.63	341	7.83	4.93	13.8	0.006
27.02.2023	CEMENT MILL - 4 (BAG FILTER)	0.63	340	11.58	7.27	13.4	0.008
March'2023							
07.03.2023	CEMENT MILL - 4 (BAG FILTER)	0.63	341	13.46	8.29	8.4	0.006
14.03.2023	CEMENT MILL - 4 (BAG FILTER)	0.63	354	12.99	7.97	11.0	0.008
23.03.2023	CEMENT MILL - 4 (BAG FILTER)	0.63	352	12.19	7.50	12.6	0.008
29.03.2023	CEMENT MILL - 4 (BAG FILTER)	0.63	353	11.51	7.11	11.2	0.007

J.K. Cement WORKS, NIMBAHERA (RAJ) (1.3 MMTPA HRP)
DATA SHEET FOR PARTICULATE MATTER EMISSION FROM POINT SOURCE
HALF YEARLY REPORT FY-2022-23 (October' 2022 to March' 2023)

DATE	NAME OF THE STACK / DUCT ATTACHED WITH UNIT	CROSS SECTIONAL AREA OF DUCT (M ²)	STACK GASES TEMP. (^o 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)
Oct-22								
06.10.2022	HYRADULIC ROLLER PRESS- Bag House	7.07	363	10.2	59.0	15.3	14.6	0.078
11.10.2022		7.07	378	10.0	55.8	13.2		0.064
18.10.2022		7.07	369	10.9	62.0	15.7		0.084
26.10.2022		7.07	371	12.3	70.0	14.0		0.085
Nov-22								
01.11.2022	HYRADULIC ROLLER PRESS- Bag House	7.07	374	9.2	51.9	10.3	11.3	0.046
08.11.2022		7.07	378	12.4	69.0	11.0		0.066
18.11.2022		7.07	371	11.2	63.7	11.4		0.063
24.11.2022		7.07	367	11.6	66.6	12.3		0.071
Dec-22								
05.12.2022	HYRADULIC ROLLER PRESS- Bag House	7.07	374	9.2	51.9	20.1	14.5	0.090
13.12.2022		7.07	378	8.2	45.9	15.3		0.061
21.12.2022		7.07	376	5.8	32.2	13.7		0.038
27.12.2022		7.07	373	5.3	29.8	8.7		0.022
Jan-23								
07.01.2023	HYRADULIC ROLLER PRESS- Bag House	7.07	370	9.5	54.3	14.4	13.7	0.068
12.01.2023		7.07	376	11.4	64.0	11.0		0.061
19.01.2023		7.07	374	12.6	71.0	13.1		0.080
24.01.2023		7.07	368	13.5	77.0	16.4		0.109
Feb-23								
06.02.2023	HYRADULIC ROLLER PRESS- Bag House	7.07	371	9.6	54.3	9.9	10.7	0.046
14.02.2023		7.07	376	8.3	46.5	11.0		0.044
22.02.2023		7.07	374	9.5	53.6	12.9		0.060
27.02.2023		7.07	377	11.3	62.8	9.1		0.049
Mar-23								
07.03.2023	HYRADULIC ROLLER PRESS- Bag House	7.07	362	7.8	45.4	19.5	15.6	0.076
14.03.2023		7.07	367	10.8	62.2	11.9		0.064
23.03.2023		7.07	371	9.2	52.0	16.7		0.075
29.03.2023		7.07	357	10.1	59.5	14.4		0.074

Vimta Labs Limited

Registered Office
142, IDA Phase II, Cherlapally
Hyderabad-500 051, Telangana, 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/22/15646/003
Issue Date : 2023/01/19
P.O. Number : 4600086157
P.O. Date : 15/10/2022

Page 1 of 1

Sample Registration Date : 2023/01/03	Sampling Date : 2022/12/27
Analysis Starting Date : 2023/01/03	Analysis Completion Date : 2023/01/19
Sample Collected by Vimta Labs Ltd.	

TEST REPORT

Plant Name & Address : J.K. Cement Limited
Kailash Nagar, Nimbaheera

Sampling Location : Coal Mill-3(VRM)

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	12:30	65	11.0	35.89	3.7
2	2 nd	14:30	65	11.0	35.89	3.8
3	3 rd	15:30	65	11.0	35.89	3.5


Dr. Subba Reddy Mallampati
Deputy Manager-Environment

Vimta Labs Limited

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



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

Report Number : **VLL/VLS/22/15646/004**
Issue Date : **2023/01/19**
P.O. Number : **4600086157**
P.O. Date : **15/10/2022**

Page 1 of 1

Sample Registration Date : 2023/01/03	Sampling Date : 2022/12/26
Analysis Starting Date : 2023/01/03	Analysis Completion Date : 2023/01/19
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 m
Height of Sampling Point	: 119.6 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	12:00	123	9.15	19.80	BDL	471.5	11.9	135.9	9.3
2	2 nd	13:00	123	9.15	19.80	BDL	475.6	11.9	135.9	10.2
3	3 rd	14:00	123	9.15	19.80	BDL	451.0	11.9	135.9	10.5

Dr. Subba Reddy Mallampati
Deputy Manager-Environment

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/22/15646003/005
Issue Date : 2023/01/19
P.O. Number : 4600086157
P.O. Date : 15/10/2022

Page 1 of 1

Sample Registration Date	: 2023/01/03	Sampling Date	: 2022/12/26
Analysis Starting Date	: 2023/01/03	Analysis Completion Date	: 2023/01/19
Sample Collected by Vimta Labs Ltd.			

TEST REPORT

Plant Name & Address	: J.K. Cement Limited Kailash Nagar, NimbaHERA
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	09:00	108	4.0	37.54	4.7
2	2 nd	10:00	109	4.0	37.44	2.3
3	3 rd	11:00	109	4.0	37.44	2.2


Dr. SubbaReddy Mallampati
Deputy Manager-Environment

Vimta Labs Limited

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



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

Report Number : VLL/VLS/22/15646003/006
Issue Date : 2023/01/19
P.O. Number : 4600086157
P.O. Date : 15/10/2022

Page 1 of 1

Sample Registration : 2023/01/03 Sampling Date : 2022/12/19
Date : 2023/01/03
Analysis Starting Date : 2023/01/03 Analysis Completion Date : 2023/01/19
Sample Collected by Vimta Labs Ltd.

TEST REPORT

Plant Name & Address : J.K. Cement Limited
Kailash Nagar, Nimbahera
Sampling Location : Cement Mill 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 (Nm ³ /S)	Particulate Matter (mg/Nm ³)
1	1 st	12:00	86	7.7	43.22	17.5
2	2 nd	14:00	88	7.8	43.54	19.5
3	3 rd	15:00	85	7.5	42.23	24.5


Dr. Subba Reddy Mallampati
Deputy Manager-Environment

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/22/15646003/007**
Issue Date : **2023/01/19**
P.O. Number : **4600086157**
P.O. Date : **15/10/2022**

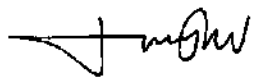
Page 1 of 1

Sample Registration Date	: 2023/01/03	Sampling Date	: 2022/12/19
Analysis Starting Date	: 2023/01/03	Analysis Completion Date	: 2023/01/19
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	16:00	69	13.2	6.99	2.2
2	2nd	17:00	70	13.2	6.97	1.9
3	3rd	18:00	70	13.2	6.97	1.95


Dr. Subba Reddy Mallampati
Deputy Manager-Environment

Vimta Labs Limited

Registered Office
142, IDA Phase II, Cherlapally
Hyderabad-500 051, Telangana, 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/22/15646003/008
Issue Date : 2023/01/19
P.O. Number : 4600086157
P.O. Date : 15/10/2022

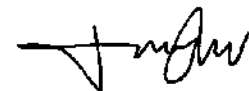
Page 1 of 1

Sample Registration Date	: 2023/01/03	Sampling Date	: 2022/12/24
Analysis Starting Date	: 2023/01/03	Analysis Completion Date	: 2023/01/19
Sample Collected by Vimta Labs Ltd.			

TEST REPORT

Plant Name & Address	: J.K. Cement Limited Kailash Nagar, Nimbaheera
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	9:30	70	10.1	2.32	2.7
2	2 nd	10:30	72	10.3	2.39	3.1
3	3 rd	11:20	74	10.2	2.30	3.2



Dr. Subba Reddy Mallampati
Deputy Manager-Environment

Vimta Labs Limited

Registered Office
142, IDA Phase II, Cherlapally
Hyderabad-500 051, Telangana, 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/22/15646003/009
Issue Date : 2023/01/19
P.O. Number : 4600086157
P.O. Date : 15/10/2022

Page 1 of 1

Sample Registration Date	: 2023/01/03	Sampling Date	: 2022/12/24
Analysis Starting Date	: 2023/01/03	Analysis Completion Date	: 2023/01/19
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 (Nm³/S)	Particulate Matter (mg/Nm³)
1	1 st	11:30	77	12.2	3.25	12.7
2	2 nd	12:10	78	12.4	3.33	14.2
3	3 rd	13:00	80	12.2	3.25	11.0

Dr. Subba Reddy Mallampati
Deputy Manager-Environment

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

Report Number : VLL/VLS/22/15646003/010
Issue Date : 2023/01/19
P.O. Number : 4600086157
P.O. Date : 15/10/2022

Page 1 of 1

Sample Registration Date	: 2023/01/03	Sampling Date	: 2022/12/24
Analysis Starting Date	: 2023/01/03	Analysis Completion Date	: 2023/01/19
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	14:00	105	14.9	3.49	3.8
2	2 nd	15:00	105	14.9	3.49	3.65
3	3 rd	16:00	106	14.9	3.48	6.2


Dr. Subba Reddy Mallampati
Deputy Manager-Environment

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

Report Number : VLL/VLS/22/15646003/011
Issue Date : 2023/01/19
P.O. Number : 4600086157
P.O. Date : 15/10/2022

Page 1 of 1

Sample Registration Date	: 2023/01/03	Sampling Date	: 2022/12/26
Analysis Starting Date	: 2023/01/03	Analysis Completion Date	: 2023/01/19
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	: 38 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	15:00	40	5.9	11.79	15.6
2	2 nd	16:00	40	5.9	11.79	16.3
3	3 rd	17:00	40	5.9	11.79	17.2


Dr. Subba Reddy Mallampati
Deputy Manager-Environment

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

Report Number : VLL/VLS/22/15646003/012
Issue Date : 2023/01/19
P.O. Number : 4600086157
P.O. Date : 15/10/2022

Page 1 of 1

Sample Registration Date	: 2023/01/03	Sampling Date	: 2022/12/24
Analysis Starting Date	: 2023/01/03	Analysis Completion Date	: 2023/01/19
Sample Collected by Vimta Labs Ltd.			

TEST REPORT

Plant Name & Address	: J.K. Cement Limited Kailash Nagar, NimbaHERa
Sampling Location	: Coal Mill-4
Test protocol	: IS:11255 Part-1,2003, IS: Part-3, 2008, USEPA Method No. 3A, 6C & 10B
Stack Height	: 31.59 m
Height of Sampling Point	: 25.96 m
Stack Diameter at Test Location	: 1.2 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	16:30	67	7.1	6.72	2.3
2	2 nd	17:30	68	7.2	6.79	4.5
3	3 rd	18:30	68	7.1	6.70	3.5


Dr. SubbaReddy Mallampati
Deputy Manager-Environment

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Unit: - J.K. CEMENT WORKS KAILASH NAGAR,
NIMBAHERADIST: CHITTORGARH, JASTHAN-
312617,
INDIA.

Report Number : VLL/VLS/22/15646003/013
Issue Date : 2023/01/19
P.O. Number : 4600086157
P.O. Date : 15/10/2022

Page 1 of 1

Sample Registration Date	: 2023/01/03	Sampling Date	: 2022/12/27
Analysis Starting Date	: 2023/01/03	Analysis Completion Date	: 2023/01/19
Sample Collected by Vimta Labs Ltd.			

TEST REPORT

Plant Name & Address	: J.K. Cement Limited Kailash Nagar, Nimbahera
Sampling Location	: Klin-2
Test protocol	: IS:11255 Part-1,2003, IS: Part-3, 2008, USEPA Method No.-3A, 6C & 10B
Stack Height	: 60.15 m
Height of Sampling Point	: 38.97 m
Stack Diameter at Test Location	: 2.2 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	9:30	141	10.58	16.62	16.8	461.25	16.7	43.58	1.7
2	2 nd	10:30	143	10.58	16.00	19.6	457.15	16.8	43.58	1.9
3	3 rd	11:30	145	10.58	16.01	14.0	471.5	16.6	42.89	1.8


Dr. Subba Reddy Mallampati
Deputy Manager-Environment

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

Report Number : VLL/VLS/22/15646003/014
Issue Date : 2023/01/19
P.O. Number : 4600086157
P.O. Date : 15/10/2022

Page 1 of 1

Sample Registration Date	: 2023/01/03	Sampling Date	: 2022/12/29
Analysis Starting Date	: 2023/01/03	Analysis Completion Date	: 2023/01/19
Sample Collected by Vimta Labs Ltd.			

TEST REPORT

Plant Name & Address	: J.K. Cement Limited Kailash Nagar, Nimbahera
Sampling Location	: CPP Stack
Test protocol	: IS:11255 Part-1,2003, IS: Part-3, 2008, USEPA Method No. 3A, 6C & 10B
Stack Height	: 96.0 m
Height of Sampling Point	: 45.09 m
Stack Diameter at Test Location	: 3.88 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)	Hg
1	1 st	10:00	89	9.15	12.5	242.25	243.95	8.6	79.98	2.8	BDL
2	2 nd	11:00	89	9.15	12.5	299.25	239.85	8.6	79.98	2.6	BDL
3	3 rd	12:00	89	9.15	12.5	285	235.75	8.6	79.98	2.7	BDL


Dr. Subba Reddy Mallampati
Deputy Manager-Environment

Vimta Labs Limited

Registered Office
142, IDA Phase II, Cherlapally
Hyderabad-500 051, Telangana, 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/22/20126/001
Issue Date : 17/03/2023
P.O. Number : 4600086157
P.O. Date : 15/10/2022

Page 1 of 1

Sample Registration Date : 2023/03/11	Sampling Date : 2023/02/20
Analysis Starting Date : 2023/03/11	Analysis Completion Date : 2023/02/17
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

Sr.No	Test Id	Time (Hrs)	Temp. (°C)	Velocity (m/s)	Flow Rate (Nm³/S)	Particulate Matter (mg/Nm³)
1	1 st	07:00	73	9.1	25.17	2.54
2	2 nd	08:00	73	9.2	25.38	2.5
3	3 rd	09:00	73	9.3	25.59	2.41


Dr. Subbareddy Mallampati
Deputy Manager-Environment

Vimta Labs Limited

Registered Office
142, IDA Phase II, Cherlapally
Hyderabad-500 051, Telangana, 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/22/20126/002
Issue Date : 17/03/2023
P.O. Number : 4600082694
P.O. Date : 03/06/2022

Page 1 of 1

Sample Registration Date : 2023/03/11	Sampling Date : 2023/02/20
Analysis Starting Date : 2023/03/11	Analysis Completion Date : 2023/03/17
Sample Collected by Vimta Labs Ltd.	

TEST REPORT

Plant Name & Address : J.K. Cement Limited
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 m

Height of Sampling Point : 119.6 m

Stack Diameter at Test Location : 4.5 m

Sr.No	Test Id	Time (Hrs)	Temp. (°C)	O2 (%V/V)	CO2 (%V/V)	SO2 (mg/Nm3)	NOx (mg/Nm3)	Velocity (m/s)	Flow Rate (Nm3/S)	Particulate Matter (mg/Nm3)
1	1 st	10:30	129	8.51	20.89	58.59	440.75	13.5	141.08	12.3
2	2 nd	11:30	129	8.51	20.89	57.42	426.4	13.5	141.08	13.2
3	3 rd	12:30	129	8.51	20.89	69.37	434.6	13.5	141.08	16.9


Dr. Subbareddy Mallampati
Deputy Manager-Environment

Vimta Labs Limited

Registered Office
142, IDA Phase II, Cherlapally
Hyderabad-500 051, Telangana, 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/22/20126/003
Issue Date : 2023/03/17
P.O. Number : 4600082694
P.O. Date : 03/06/2022

Page 1 of 1

Sample Registration Date : 2023/03/11	Sampling Date : 2023/02/20
Analysis Starting Date : 2023/03/17	Analysis Completion Date : 2023/03/17
Sample Collected by Vimta Labs Ltd.	

TEST REPORT

Plant Name & Address : J.K. Cement Limited
Kailash Nagar, Nimbahera

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

Sr.No	Test Id	Time (Hrs)	Temp. (°C)	Velocity (m/s)	Flow Rate (Nm³/s)	Particulate Matter (mg/Nm³)
1	1 st	15:54	105	5.5	50.51	21.4
2	2 nd	16:30	105	5.5	50.51	19.4
3	3 rd	17:20	105	5.5	50.51	18.2

Dr. Subbareddy Mallampati
Deputy Manager-Environment

Vimta Labs Limited

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



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DIST: CHITTORGARH, RAJASTHAN-312617,
INDIA.

Report Number : **VLL/VLS/22/15646/001**
Issued Date : **2023/01/10**
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 : 2023/01/03 Sample Collection Date : 2022/12/28
Analysis Starting Date : 2023/01/03 Analysis Completion Date : 2023/01/10
Test Required : O₂, PM, SO₂, NO_x, HCl, HF, CO, CO₂ and TOC.
Sample Collected by Vimta Labs Ltd.

TEST REPORT

Sr. No.	Parameters	UoM	Method of Testing	Results	Limits as per MoE, P&CC Notification GSR 497(E)
1	Diameter of stack	m	-	4.5	--
2	Flue gas temperature	°C	-	142	--
3	Fuel	-	Co-processing of AFR Liquid and Solid waste	--	--
4	Velocity	m/sec	USEPA Method -3	12.3	--
5	Volumetric flow rate	Nm ³ /Sec		195.57	--
6	Oxygen as O ₂	%	Combustion Analyzer	9.15	--
7	Carbon Monoxide as CO	mg/Nm ³		60.2	<100.0
8	Carbon Dioxide as CO ₂	%		19.80	--
9	Sulphur Dioxide	mg/Nm ³		16	<100.0
10	Oxides of Nitrogen, NO _x as NO ₂	mg/Nm ³	USEPA method-5	458	<800.0
11	Particulate Matter	mg/Nm ³		6.49	<30.0
12	Hydrogen Chloride as HCl	mg/Nm ³		2.9	<10.0
13	Hydrogen Fluoride as HF	mg/Nm ³		0.33	<1.0
14	Total Organic Compounds as TOC	mg/nm ³	USEPA method -40 & MM5(10)	3.5	<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, Telangana, India
T : +91 40 2726 4141
F : +91 40 2726 3657



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Unit: - J.K. CEMENT WORKS
KAILASH NAGAR, NIMBAHERA,
DIST: CHITTORGARH, RAJASTHAN-312617,
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Report Number : **VLL/VLS/22/15646/001**
Issued Date : **2023/01/10**
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 : 2023/01/03 Sample Collection Date : 2022/12/28
Analysis Starting Date : 2023/01/03 Analysis Completion Date : 2023/01/10
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 MoEF&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			0.016	--
	Manganese as Mn + their Compound			0.011	
	Arsenic as As + their Compound			0.009	
	Antimony as Sb + their Compound			0.012	
	Lead as Pb + their Compound			0.018	
	Cobalt as Co + their Compound			0.031	
	Copper as Cu + their Compound			0.021	
	Nickel as Ni + their Compound			0.024	
	Vanadium as V + their Compound			0.026	
	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, Telangana, India
T : +91 40 2726 4141
F : +91 40 2726 3657



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

Report Number : **VLL/VLS/22/15646**
Issued Date : **2023/01/10**
P.O. Ref : **4600082694**
P.O. Date : **03/06/2022**

Page 1 of 1

SAMPLE PARTICULARS : Stack Connected to Bag House Klin-III

Sample Registration Date	: 2023/01/03	Sample Collection Date	: 2022/12/28
Analysis Starting Date	: 2023/01/03	Analysis Completion Date	: 2023/01/10
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		0.0015
5	1,2,3,4,7,8-HxCDF		0.0001
6	1,2,3,6,7,8-HxCDD		0.0005
7	1,2,3,6,7,8-HxCDF		0.0004
8	1,2,3,7,8,9-HxCDD		0.0028
9	1,2,3,7,8,9-HxCDF		0.0002
10	1,2,3,7,8-PeCDD		0.0004
11	1,2,3,7,8-PeCDF		0.0003
12	2,3,4,6,7,8-HxCDF		0.0005
13	2,3,4,7,8-PeCDF		0.0020
14	2,3,7,8-TCDD		0.0016
15	2,3,4,7,8-TCDF		0.0001
16	OCDD		0.00002
17	OCDF		0.00002
Total Furans & Dioxins		ng/Nm ³ , TEQ	0.0165
Total Furans & Dioxins		ng/Nm ³ , TEQ Corrected to 10% O ₂ Concentration	0.0137
Limits as per MoE, F&CC Notification GSR 497(E)			<0.1

Method of Testing: As per USEPA 23 A & 8290

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

Dr. SubbaReddy Mallampati
Dy. Manager-Environment.

Vimta Labs Limited

Registered Office
142, IDA Phase II, Cherlapally
Hyderabad-500 051, Telangana, 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/22/15646/002**
Issued Date : **2023/01/10**
P.O. Ref : **4600082694**
P.O. Date : **03/06/2022**

Page 1 of 2

				Page 1 of 2
SAMPLE PARTICULARS		: Stack Connected to Bag House Kiln-II		
Sample Registration Date	: 2023/01/03	Sample Collection Date	:	2022/12/29
Analysis Starting Date	: 2023/01/03	Analysis Completion Date	:	2023/01/10
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	-	2.2	--
2	Flue gas temperature	°C	-	141	--
3	Fuel	-	Co-processing of AFR Liquid and Solid waste	--	--
4	Velocity	m/sec	USEPA Method -3	15.8	--
5	Volumetric flow rate	Nm ³ /Sec		38.30	--
6	Oxygen as O ₂	%	Combustion Analyzer	10.58	--
7	Carbon Monoxide as CO	mg/Nm ³		37.6	<100.0
8	Carbon Dioxide as CO ₂	%		16.62	--
9	Sulphur Dioxide	mg/Nm ³		12	<100.0
10	Oxides of Nitrogen, NO _x as NO ₂	mg/Nm ³		730	<1000.0
11	Particulate Matter	mg/Nm ³	USEPA method-5	9.04	<30.0
12	Hydrogen Chloride as HCl	mg/Nm ³	USEPA method -26	2.1	<10.0
13	Hydrogen Fluoride as HF	mg/Nm ³	USEPA method -13	0.42	<1.0
14	Total Organic Compounds as TOC	mg/nm ³	USEPA method -40 & MM5(10)	3.1	<10.0

All the Values are represented at 10% O₂

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Dy. Manager-Environment.

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Report Number : VLL/VLS/22/15646/002
Issued Date : 2023/01/10
P.O. Ref : 4600082694
P.O. Date : 03/06/2022

Page 2 of 2

Page 2 of 2

SAMPLE PARTICULARS		: Stack Connected to Bag House Kiln-II	
Sample Registration Date	: 2023/01/03	Sample Collection Date	: 2022/12/29
Analysis Starting Date	: 2023/01/03	Analysis Completion Date	: 2023/01/10
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			0.012	--
	Manganese as Mn + their Compound			0.019	
	Arsenic as As + their Compound			0.011	
	Antimony as Sb + their Compound			0.009	
	Lead as Pb + their Compound			0.012	
	Cobalt as Co + their Compound			0.021	
	Copper as Cu + their Compound			0.022	
	Nickel as Ni + their Compound			0.024	
	Vanadium as V + their Compound			0.008	
	Sb+ As+ Pb+ Co+ Cr+ Cu+ Mn+ Ni+ V+ Their compounds			0.138	< 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

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Hyderabad-500 051, Telangana, India
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F : +91 40 2726 3657



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

Report Number : VLL/VLS/22/15646/002
Issued Date : 2023/01/10
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	: 2023/01/03	Sample Collection Date	: 2022/12/29
Analysis Starting Date	: 2023/01/03	Analysis Completion Date	: 2023/01/10
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	0.0013
2	1,2,3,4,6,7,8-HpCDF		0.0010
3	1,2,3,4,7,8,9-HpCDF		0.0050
4	1,2,3,4,7,8-HxCDD		0.0019
5	1,2,3,4,7,8-HxCDF		0.0001
6	1,2,3,6,7,8-HxCDD		0.0006
7	1,2,3,6,7,8-HxCDF		0.0005
8	1,2,3,7,8,9-HxCDD		0.0034
9	1,2,3,7,8,9-HxCDF		0.0003
10	1,2,3,7,8-PeCDD		0.0004
11	1,2,3,7,8-PeCDF		0.0003
12	2,3,4,6,7,8-HxCDF		0.0006
13	2,3,4,7,8-PeCDF		0.0024
14	2,3,7,8-TCDD		0.0020
15	2,3,4,7,8-TCDF		0.0001
16	OCDD		0.00002
17	OCDF		0.00002
Total Furans & Dioxins		ng/Nm ³ , TEQ	0.0199
Total Furans & Dioxins		ng/Nm ³ , TEQ Corrected to 10% O ₂ Concentration	0.0165
Limits as per MoE,F&CC Notification GSR 497(E)			<0.1

Method of Testing: As per USEPA 23 A & 8290

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

Dr. SubbaReddy Mallampati
Dy. Manager-Environment.

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

HALF YEARLY REPORT FY-2022-23 (October' 2022 to March' 2023)

FY (2022-23)

S.No.	LOCATION	Month	PM (2022-23)				
			PM10	PM2.5	SO2	NOx	CO
1	NEAR MAIN SECURITY GATE	Oct-22	54.6	25.6	11.2	21.5	516
2		Nov-22	52.2	24.8	12.0	22.8	677
3		Dec-22	55.5	29.6	14.3	20.9	702
4		Jan-23	40.4	26.6	14.0	23.5	645
5		Feb-23	39.7	26.7	14.5	26.9	871
6		Mar-23	69.2	34.0	11.7	22.6	769
Half Yearly Average			51.9	27.9	12.9	23.0	697
1	NEAR NEW J.K. FACTORY GATE	Oct-22	44.3	20.4	14.3	25.2	703
2		Nov-22	51.6	32.4	11.3	22.3	712
3		Dec-22	42.6	29.2	11.5	22.8	821
4		Jan-23	49.8	23.5	9.7	28.2	644
5		Feb-23	40.9	24.0	12.9	25.0	855
6		Mar-23	61.1	37.4	14.9	25.9	848
Half Yearly Average			48.4	27.8	12.4	24.9	764
1	NEAR MINE GATE	Oct-22	48.4	20.5	14.7	27.0	604
2		Nov-22	45.2	21.9	13.8	29.0	732
3		Dec-22	46.6	20.4	17.4	23.8	717
4		Jan-23	50.5	20.0	9.8	17.6	633
5		Feb-23	43.4	26.2	13.0	27.4	874
6		Mar-23	66.5	38.7	14.0	27.0	740
Half Yearly Average			50.1	24.6	13.8	25.3	717
1	NEAR THERMAL POWER PLANT GATE	Oct-22	41.4	20.3	17.0	26.8	685
2		Nov-22	42.6	21.7	17.8	28.6	686
3		Dec-22	41.3	24.5	13.6	27.6	823
4		Jan-23	47.5	25.1	9.3	20.5	690
5		Feb-23	52.8	30.6	11.2	23.6	782
6		Mar-23	51.5	31.3	13.6	23.6	864
Half Yearly Average			46.2	25.6	13.8	25.1	755



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JDA/UDH

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

Laboratory : G1-584, RIICO Industrial Area,
Sitapura, Jaipur - 302022, Rajasthan
Phone : +91 9460222039, 9460222049,
Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502522400003391	Date :	23-11-2022
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitoring :	14-11-2022
Point of Collection :	Near Main Security Gate	Date of Receipt :	17-11-2022
Date of Test/Analysis :	17-11-2022 to 23-11-2022	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m3]	290	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	11.56	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Particulate Matter (PM2.5) [microgram/m3]	33.2	IS 5182 (Part 24) : 2019	60.00
4	Sulphur Dioxide [microgram/m3]	3.92	IS 5182 (Part 2) : 2001 RA 2017	80.00
5	Particulate Matter (PM 10) [microgram/m3]	73.7	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Purni Mal Yogi
Senior Analyst

Rajesh Maheshwari
(Report No: TC502522400003391)



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C-Scheme, Jaipur - 302001, Rajasthan
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Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,
Sitapura, Jaipur - 302022, Rajasthan
Phone : +91 9460222039, 9460222049,
Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502522400003392	Date :	23-11-2022
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitoring :	15-11-2022
Point of Collection :	Near Thermal Power Plant	Date of Receipt :	17-11-2022
Date of Test/Analysis :	17-11-2022 to 23-11-2022	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashna Murari
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m3]	350	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	13.79	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Particulate Matter (PM2.5) [microgram/m3]	39.38	IS 5182 (Part 24) : 2019	60.00
4	Sulphur Dioxide [microgram/m3]	4.38	IS 5182 (Part 2) : 2001 RA 2017	80.00
5	Particulate Matter (PM 10) [microgram/m3]	83.82	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Senior Analyst Pankaj Mal Yogi

Authorized Signatory
Rajesh Maheshwari
(Report No: TC502522400003392)



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Laboratory : G1-584, RIICO Industrial Area,
Sitapura, Jaipur - 302022, Rajasthan
Phone : +91 9460222039, 9460222049,
Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502522400003393	Date :	23-11-2022
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitoring :	14-11-2022
Point of Collection :	Near new J.k Factory Gate	Date of Receipt :	17-11-2022
Date of Test/Analysis :	17-11-2022 to 23-11-2022	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m3]	350	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	15.14	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Particulate Matter (PM2.5) [microgram/m3]	36.61	IS 5182 (Part 24) : 2019	60.00
4	Sulphur Dioxide [microgram/m3]	3.58	IS 5182 (Part 2) : 2001 RA 2017	80.00
5	Particulate Matter (PM 10) [microgram/m3]	77.15	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Senior Analyst

Puran Mal Yogi

Authorized Signatory
Rakesh Maheshwari
(Report No: TC502522400003393)



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Sitapura, Jaipur - 302022, Rajasthan
Phone : +91 9460222039, 9460222049,
Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502522400003394	Date :	23-11-2022
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitoring :	15-11-2022
Point of Collection :	Near Mine Gate	Date of Receipt :	17-11-2022
Date of Test/Analysis :	17-11-2022 to 23-11-2022	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m3]	290	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	14.42	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Particulate Matter (PM2.5) [microgram/m3]	32.42	IS 5182 (Part 24) : 2019	60.00
4	Sulphur Dioxide [microgram/m3]	4.04	IS 5182 (Part 2) : 2001 RA 2017	80.00
5	Particulate Matter (PM 10) [microgram/m3]	72.16	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Senior Analyst

Puran Mal Yogi

Authorized Signatory

Rajesh Maheshwar
(Report No: TC502522400003394)



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JDA/UDH

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

Laboratory : G1-584, RIICO Industrial Area,
Sitapura, Jaipur - 302022, Rajasthan
Phone : +91 9460222039, 9460222049,
Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502523400000418	Date :	18-03-2023
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Cement Plant
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	27-02-2023 16:23 to 28-02-2023 16:23
Point of Collection :	Near Mine Gate	Date of Receipt :	28-02-2023
Date of Test/Analysis :	28-02-2023 to 13-03-2023	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashna Murari
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m3]	370	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	15.78	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Particulate Matter (PM2.5) [microgram/m3]	41.5	IS 5182 (Part 24) : 2019	60.00
4	Sulphur Dioxide [microgram/m3]	5.51	IS 5182 (Part 2) : 2001 RA 2017	80.00
5	Particulate Matter (PM 10) [microgram/m3]	74.05	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Senior Analyst

Authorized Signatory
(Report No: TC502523400000418)



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JDA/UDH

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

Laboratory : G1-584, RIICO Industrial Area,
Sitapura, Jaipur - 302022, Rajasthan
Phone : +91 9460222039, 9460222049,
Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502523400000410	Date :	18-03-2023
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Cement Plant
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	27-02-2023 16:18 to 28-02-2023 16:18
Point of Collection :	Near Main Security Gate	Date of Receipt :	28-02-2023
Date of Test/Analysis :	28-02-2023 to 13-03-2023	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashna Murari
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS


S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m3]	360	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	15.13	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Particulate Matter (PM2.5) [microgram/m3]	28.26	IS 5182 (Part 24) : 2019	60.00
4	Sulphur Dioxide [microgram/m3]	3.81	IS 5182 (Part 2) : 2001 RA 2017	80.00
5	Particulate Matter (PM 10) [microgram/m3]	82.04	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Senior Analyst

Sunil Kumar


Authorized Signatory
(Report No: TC502523400000410)



TEAM TEST HOUSE

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JDA/UDH

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

Laboratory : G1-584, RIICO Industrial Area,
Sitapura, Jaipur - 302022, Rajasthan
Phone : +91 9460222039, 9460222049,
Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502523400000412	Date :	18-03-2023
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Cement Plant
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	27-02-2023 16:22 to 28-02-2023 16:22
Point of Collection :	Near new J.k Factory Gate	Date of Receipt :	28-02-2023
Date of Test/Analysis :	28-02-2023 to 13-03-2023	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashna Murari
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m3]	330	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	14.44	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Particulate Matter (PM2.5) [microgram/m3]	29.7	IS 5182 (Part 24) : 2019	60.00
4	Sulphur Dioxide [microgram/m3]	5.94	IS 5182 (Part 2) : 2001 RA 2017	80.00
5	Particulate Matter (PM 10) [microgram/m3]	77.1	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Senior Analyst

Sunil Kumar

Authorized Signatory

(Report No: TC502523400000412)



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JDA/UDH

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

Laboratory : G1-584, RIICO Industrial Area,
Sitapura, Jaipur - 302022, Rajasthan
Phone : +91 9460222039, 9460222049,
Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502522400003395	Date :	23-11-2022
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 :	15-11-2022
Point of Collection :	Near Coal Yard (Cement Plant)	Date of Receipt :	17-11-2022
Date of Test/Analysis :	17-11-2022 to 23-11-2022	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Suspended Particulate Matter [microgram/m3]	461.6	IS 5182 (Part 4) : 1999 RA 2019

Notes :-

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Senior Analyst

Puran Mal Yogi

Authorized Signatory

Rajesh Manishwar

(Report No: TC502522400003395)



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JDA/UDH

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

Laboratory : G1-584, RIICO Industrial Area,
Sitapura, Jaipur - 302022, Rajasthan
Phone : +91 9460222039, 9460222049,
Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502522400003396	Date :	23-11-2022
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 :	15-11-2022
Point of Collection :	Near Limestone Crushing Site	Date of Receipt :	17-11-2022
Date of Test/Analysis :	17-11-2022 to 23-11-2022	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Suspended Particulate Matter [microgram/m ³]	493.95	IS 5182 (Part 4) : 1999 RA 2019

Notes :-

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Senior Analyst
Puran Mal Yogi

Authorized Signatory
Rajesh Maheshwari
(Report No: TC502522400003396)



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JDA/UDH

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

Laboratory : G1-584, RIICO Industrial Area,
Sitapura, Jaipur - 302022, Rajasthan
Phone : +91 9460222039, 9460222049,
Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502522400003397	Date :	23-11-2022
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 :	15-11-2022
Point of Collection :	Near Stacker @ Reclaimer	Date of Receipt :	17-11-2022
Date of Test/Analysis :	17-11-2022 to 23-11-2022	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Suspended Particulate Matter [microgram/m3]	491.16	IS 5182 (Part 4) : 1999 RA 2019

Notes :-

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Senior Analyst
Purush Mal Yogi

Authorized Signatory
Rajesh Maheshwari
(Report No: TC502522400003397)



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JDA/UDH

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

Laboratory : G1-584, RIICO Industrial Area,
Sitapura, Jaipur - 302022, Rajasthan
Phone : +91 9460222039, 9460222049,
Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502522400003398	Date :	23-11-2022
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 :	15-11-2022
Point of Collection :	Near Gypsum Yard	Date of Receipt :	17-11-2022
Date of Test/Analysis :	17-11-2022 to 23-11-2022	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Suspended Particulate Matter [microgram/m3]	358.55	IS 5182 (Part 4) : 1999 RA 2019

Notes :-

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Senior Analyst
Purnan Mal Yogi

Authorized Signatory
Rajesh Kumar

(Report No: TC502522400003398)



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JDA/UDH

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

Laboratory : G1-584, RIICO Industrial Area,
Sitapura, Jaipur - 302022, Rajasthan
Phone : +91 9460222039, 9460222049,
Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502522400003399	Date :	23-11-2022
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 :	15-11-2022
Point of Collection :	Near Coal Yard (power Plant)	Date of Receipt :	17-11-2022
Date of Test/Analysis :	17-11-2022 to 23-11-2022	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Suspended Particulate Matter [microgram/m3]	351.08	IS 5182 (Part 4) : 1999 RA 2019

Notes :-

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Senior Analyst
Puran Mal Yogi

Authorized Signatory
Rakesh Maheshwari
(Report No. TC502522400003399)



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JDA/UDH

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

Laboratory : G1-584, RIICO Industrial Area,
Sitapura, Jaipur - 302022, Rajasthan
Phone : +91 9460222039, 9460222049,
Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502523400000542	Date :	18-03-2023
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Cement Plant
Type of sample / Discipline :	Fugitive Emission Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	01-03-2023
Point of Collection :	Near Coal Yard (Cement Plant)	Date of Receipt :	09-03-2023
Date of Test/Analysis :	09-03-2023 to 17-03-2023	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 CREP Guidline
1	Suspended Particulate Matter [microgram/m3]	443.54	IS 5182 (Part 4) : 1999 RA 2019	2000

Notes :-

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Puran Mal Yogi
Senior Analyst

K.N. Mukhopadhyay
K.N. MUKHOPADHYAY

Authorized Signatory
(Report No: TC502523400000542)



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JDA/UDH

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

Laboratory : G1-584, RIICO Industrial Area,
Sitapura, Jaipur - 302022, Rajasthan
Phone : +91 9460222039, 9460222049,
Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502523400000543	Date :	18-03-2023
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Cement Plant
Type of sample / Discipline :	Fugitive Emission Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	01-03-2023
Point of Collection :	Near Limestone Crushing Site	Date of Receipt :	09-03-2023
Date of Test/Analysis :	09-03-2023 to 17-03-2023	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 CREP Guideline
1	Suspended Particulate Matter [microgram/m3]	436.53	IS 5182 (Part 4) : 1999 RA 2019	5000

Notes :-

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Purni Mal Yogi
Senior Analyst

K.N. MUKHOPADHYAY

Authorized Signatory
(Report No: TC502523400000543)



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JDA/UDH

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

Laboratory : G1-584, RIICO Industrial Area,
Sitapura, Jaipur - 302022, Rajasthan
Phone : +91 9460222039, 9460222049,
Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502523400000544	Date :	18-03-2023
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Cement Plant
Type of sample / Discipline :	Fugitive Emission Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	01-03-2023
Point of Collection :	Near Stacker @ Reclaimer	Date of Receipt :	09-03-2023
Date of Test/Analysis :	09-03-2023 to 17-03-2023	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 RPCB consent to operate
1	Suspended Particulate Matter [microgram/m ³]	427.85	IS 5182 (Part 4) : 1999 RA 2019	5000

Notes :-

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Puran Mal Yogi
Senior Analyst

K.N. MUKHOPADHYAY

Authorized Signatory

(Report No: TC502523400000544)



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JDA/UDH

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

Laboratory : G1-584, RIICO Industrial Area,
Sitapura, Jaipur - 302022, Rajasthan
Phone : +91 9460222039, 9460222049,
Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502523400000545	Date :	18-03-2023
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Cement Plant
Type of sample / Discipline :	Fugitive Emission Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	01-03-2023
Point of Collection :	Near Gypsum Yard	Date of Receipt :	09-03-2023
Date of Test/Analysis :	09-03-2023 to 17-03-2023	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 RPCB consent to operate
1	Suspended Particulate Matter [microgram/m3]	463.66	IS 5182 (Part 4) : 1999 RA 2019	600

Notes :-

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Puran Mal Yogi
Senior Analyst

K.N. MUKHOPADHYAY

Authorized Signatory
(Report No: TC502523400000545)



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ISO 45001:2018 (OH&S)

JDA/UDH

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

Laboratory : G1-584, RIICO Industrial Area,
Sitapura, Jaipur - 302022, Rajasthan
Phone : +91 9460222039, 9460222049,
Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502523400000546	Date :	18-03-2023
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Cement Plant
Type of sample / Discipline :	Fugitive Emission Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	01-03-2023
Point of Collection :	Near Coal Yard (power Plant)	Date of Receipt :	09-03-2023
Date of Test/Analysis :	09-03-2023 to 17-03-2023	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 CREP Guideline
1	Suspended Particulate Matter [microgram/m3]	486.36	IS 5182 (Part 4) : 1999 RA 2019	5000

Notes :-

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Puran Mal Yogi
Senior Analyst

K.N. MUKHOPADHYAY

Authorized Signatory
(Report No: TC502523400000546)



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Annexure-04



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JDA/UDH

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

Laboratory : G1-584, RIICO Industrial Area,
Sitapura, Jaipur - 302022, Rajasthan
Phone : +91 9460222039, 9460222049,
Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502522100002115	Date :	19-11-2022
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Borewell Water	Date of Sample Collection/Monitoring :	07-11-2022
Point of Collection :	Borewell No. -01	Date of Receipt :	09-11-2022
Date of Test/Analysis :	09-11-2022 to 19-11-2022	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	3 Ltr.	Sample Collected By :	Mahaveer singh Gurjar
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	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	8.02	IS 3025 (Part 11) : 1983 RA 2017	6.5 to 8.5	No relaxation
6	Hardness (total) [mg/l]	460	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]	76.32	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
9	Total Dissolved Solids [mg/l]	582	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
10	Calcium [mg/l]	136	IS 3025 (Part 40) : 1991 RA 2019	75.00	200.00

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JDA/UDH

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

Laboratory : G1-584, RIICO Industrial Area,
Sitapura, Jaipur - 302022, Rajasthan
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
11	Magnesium [mg/l]	29.16	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]	48.6	IS 3025 (Part 24) : 1986 RA 2019	200.00	400.00
15	Nitrate [mg/l]	16.2	IS 3025 (Part 34) : 1988 RA 2019	45.00	-
16	Fluoride [mg/l]	0.65	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]	221.76	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]	0.66	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 1622 : 1981	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	No relaxation
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	0.01	-
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.

Rajesh Maheshwari
Senior Analyst

Rajesh Maheshwari
Authorized Signatory

(Report No: TC502522100002115)



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

TEST REPORT

Report No./ULR No. :	TC502522100002116	Date :	19-11-2022
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 :	07-11-2022
Point of Collection :	Borewell No. -02	Date of Receipt :	09-11-2022
Date of Test/Analysis :	09-11-2022 to 19-11-2022	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	3 Ltr.	Sample Collected By :	Mahaveer singh Gurjar
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	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	7.75	IS 3025 (Part 11) : 1983 RA 2017	6.5 to 8.5	No relaxation
6	Hardness (total) [mg/l]	430	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]	74.36	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
9	Total Dissolved Solids [mg/l]	522	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
10	Calcium [mg/l]	124	IS 3025 (Part 40) : 1991 RA 2019	75.00	200.00

Signature



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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
11	Magnesium [mg/l]	29.16	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]	36.1	IS 3025 (Part 24) : 1986 RA 2019	200.00	400.00
15	Nitrate [mg/l]	12.8	IS 3025 (Part 34) : 1988 RA 2019	45.00	-
16	Fluoride [mg/l]	0.77	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]	178.2	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]	0.72	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 1622 : 1981	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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JDA/UDH

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C-Scheme, Jaipur - 302001, Rajasthan
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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	-	-
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	0.01	-
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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Rajesh Maheshwan
Senior Analyst

Rajesh Maheshwan
Authorized Signatory
(Report No: TC502522100002116)



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Office : E-65, Chitrangan Marg,
C-Scheme, Jaipur - 302001, Rajasthan
Phone : +91 6377210064, 9414077379,
Website : www.teamtesthouse.com
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Laboratory : G1-584, RIICO Industrial Area,
Sitapura, Jaipur - 302022, Rajasthan
Phone : +91 9460222039, 9460222049,
Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502522100002117	Date :	19-11-2022
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 :	07-11-2022
Point of Collection :	Borewell No. -03	Date of Receipt :	09-11-2022
Date of Test/Analysis :	09-11-2022 to 19-11-2022	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	3 Ltr.	Sample Collected By :	Mahaveer singh Gurjar
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	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	7.55	IS 3025 (Part 11) : 1983 RA 2017	6.5 to 8.5	No relaxation
6	Hardness (total) [mg/l]	400	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]	88.06	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
9	Total Dissolved Solids [mg/l]	565	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
10	Calcium [mg/l]	132	IS 3025 (Part 40) : 1991 RA 2019	75.00	200.00

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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
11	Magnesium [mg/l]	17.01	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]	41.6	IS 3025 (Part 24) : 1986 RA 2019	200.00	400.00
15	Nitrate [mg/l]	11.3	IS 3025 (Part 34) : 1988 RA 2019	45.00	-
16	Fluoride [mg/l]	0.81	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]	166.32	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]	0.75	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 1622 : 1981	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	-	-
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	0.01	-
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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Rajesh Agarwal
Rajesh Agarwal
Senior Analyst

Rajesh Maheshwar
Rajesh Maheshwar
Authorized Signatory
(Report No: TC502522100002117)



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

TEST REPORT

Report No./ULR No. :	TC502522100002118	Date :	19-11-2022
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 :	07-11-2022
Point of Collection :	Borewell No. -04	Date of Receipt :	09-11-2022
Date of Test/Analysis :	09-11-2022 to 19-11-2022	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	3 Ltr.	Sample Collected By :	Mahaveer singh Gurjar
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	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	7.62	IS 3025 (Part 11) : 1983 RA 2017	6.5 to 8.5	No relaxation
6	Hardness (total) [mg/l]	410	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]	72.4	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
9	Total Dissolved Solids [mg/l]	532	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
10	Calcium [mg/l]	152	IS 3025 (Part 40) : 1991 RA 2019	75.00	200.00

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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
11	Magnesium [mg/l]	7.29	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]	40.4	IS 3025 (Part 24) : 1986 RA 2019	200.00	400.00
15	Nitrate [mg/l]	10.9	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]	182.16	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]	0.68	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 1622 : 1981	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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JDA/UDH

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

Laboratory : G1-584, RIICO Industrial Area,
Sitapura, Jaipur - 302022, Rajasthan
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	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	-	-
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	0.01	-
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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Balram Agarwal
Balram Agarwal
Senior Analyst

Rajesh Maheshwari
Rajesh Maheshwari
Authorized Signatory
(Report No: TC502522100002118)



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



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JDA/UDH

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

Laboratory : G1-584, RIICO Industrial Area,
Sitapura, Jaipur - 302022, Rajasthan
Phone : +91 9460222039, 9460222049,
Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502522100002119	Date :	19-11-2022
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 :	07-11-2022
Point of Collection :	Borewell No. -05	Date of Receipt :	09-11-2022
Date of Test/Analysis :	09-11-2022 to 19-11-2022	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	3 Ltr.	Sample Collected By :	Mahaveer singh Gurjar
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	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	7.63	IS 3025 (Part 11) : 1983 RA 2017	6.5 to 8.5	No relaxation
6	Hardness (total) [mg/l]	410	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]	80.23	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
9	Total Dissolved Solids [mg/l]	522	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
10	Calcium [mg/l]	92	IS 3025 (Part 40) : 1991 RA 2019	75.00	200.00

Rajin



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JDA/UDH

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

Laboratory : G1-584, RIICO Industrial Area,
Sitapura, Jaipur - 302022, Rajasthan
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
11	Magnesium [mg/l]	43.74	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]	41.7	IS 3025 (Part 24) : 1986 RA 2019	200.00	400.00
15	Nitrate [mg/l]	15.6	IS 3025 (Part 34) : 1988 RA 2019	45.00	-
16	Fluoride [mg/l]	0.81	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]	178.2	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]	0.66	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 1622 : 1981	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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JDA/UDH

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

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Sitapura, Jaipur - 302022, Rajasthan
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	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	-	-
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	0.01	-
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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Balram
Balram Agarwal
Senior Analyst

Rajesh
Rajesh Maheshwan
Authorized Signatory
(Report No: TC502522100002119)



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JDA/UDH

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

Laboratory : G1-584, RIICO Industrial Area,
Sitapura, Jaipur - 302022, Rajasthan
Phone : +91 9460222039, 9460222049,
Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502522100002120	Date :	19-11-2022
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 :	07-11-2022
Point of Collection :	Borewell No. -06	Date of Receipt :	09-11-2022
Date of Test/Analysis :	09-11-2022 to 19-11-2022	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	3 Ltr.	Sample Collected By :	Mahaveer singh Gurjar
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	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	7.69	IS 3025 (Part 11) : 1983 RA 2017	6.5 to 8.5	No relaxation
6	Hardness (total) [mg/l]	420	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]	74.36	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
9	Total Dissolved Solids [mg/l]	532	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
10	Calcium [mg/l]	124	IS 3025 (Part 40) : 1991 RA 2019	75.00	200.00

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JDA/UDH

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

Laboratory : G1-584, RIICO Industrial Area,
Sitapura, Jaipur - 302022, Rajasthan
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
11	Magnesium [mg/l]	26.73	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]	46.5	IS 3025 (Part 24) : 1986 RA 2019	200.00	400.00
15	Nitrate [mg/l]	12.8	IS 3025 (Part 34) : 1988 RA 2019	45.00	-
16	Fluoride [mg/l]	0.73	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]	170.28	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]	0.75	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 1622 : 1981	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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JDA/UDH

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

Laboratory : G1-584, RHCO Industrial Area,
Sitapura, Jaipur - 302022, Rajasthan
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	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	-	-
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	0.01	-
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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Balram
Balram Maheshwan
Senior Analyst

Balram
Balram Maheshwan
Authorized Signatory
(Report No: TC502522100002120)



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



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JDA/UDH

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

Laboratory : G1-584, RIICO Industrial Area,
Sitapura, Jaipur - 302022, Rajasthan
Phone : +91 9460222039, 9460222049,
Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502522100002121	Date :	19-11-2022
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 :	07-11-2022
Point of Collection :	Borewell No. -07	Date of Receipt :	09-11-2022
Date of Test/Analysis :	09-11-2022 to 19-11-2022	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	3 Ltr.	Sample Collected By :	Mahaveer singh Gurjar
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	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	7.82	IS 3025 (Part 11) : 1983 RA 2017	6.5 to 8.5	No relaxation
6	Hardness (total) [mg/l]	430	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]	80.23	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
9	Total Dissolved Solids [mg/l]	578	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
10	Calcium [mg/l]	144	IS 3025 (Part 40) : 1991 RA 2019	75.00	200.00

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JDA/UDH

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

Laboratory : G1-584, RIICO Industrial Area,
Sitapura, Jaipur - 302022, Rajasthan
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
11	Magnesium [mg/l]	17.01	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]	49.5	IS 3025 (Part 24) : 1986 RA 2019	200.00	400.00
15	Nitrate [mg/l]	13.4	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]	190.08	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]	0.91	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 1622 : 1981	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

Raj



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JDA/UDH

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

Laboratory : G1-584, RIICO Industrial Area,
Sitapura, Jaipur - 302022, Rajasthan
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	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	-	-
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	0.01	-
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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Balram
Balram Agarwal
Senior Analyst

Rajesh Maheshwari
Rajesh Maheshwari
Authorized Signatory
(Report No: TC502522100002121)



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

TEST REPORT

Report No./ULR No. :	TC502522100002122	Date :	22-11-2022
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 :	07-11-2022
Point of Collection :	Borewell No.-01	Date of Receipt :	09-11-2022
Date of Test/Analysis :	09-11-2022 to 22-11-2022	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	3 Ltr.	Sample Collected By :	Mahaveer singh Gurjar
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 & (Part8) : 1984 RA 2017	Agreeable	-
4	Turbidity [NTU]	BDL (<0.1)	IS 3025 (Part 10) : 1984 RA 2017	1.00	5.00
5	pH	7.28	IS 3025 (Part 11) : 1983 RA 2017	6.5 to 8.5	-
6	Hardness (total) [mg/l]	330.77	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]	70.45	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
9	Total Dissolved Solids [mg/l]	456	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
10	Calcium [mg/l]	93.85	IS 3025 (Part 40) : 1991 RA 2019	75.00	200.00

Rajesh Maheshwar



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Phone : +91 6377210064, 9414077379,
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Sitapura, Jaipur - 302022, Rajasthan
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
11	Magnesium [mg/l]	23.36	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]	48.20	IS 3025 (Part 24) : 1986 RA 2019	200.00	400.00
15	Nitrate [mg/l]	15.95	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 2019	0.05	-
22	Alkalinity - T [mg/l]	233.64	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]	0.42	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 1622 : 1981	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	-

Rajesh Maheshwari



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C-Scheme, Jaipur - 302001, Rajasthan
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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 37) : 1988 RA 2019	1.0	-
32	Anionic Detergents as MBA's [mg/l]	BDL (<0.1)	IS 13428 (Annexure K)	0.2	-
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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Balram
Balram Agarwal
Senior Analyst

Kajal
Kajal Maneswan
Authorized Signatory
(Report No: TC502522100002122)



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

Laboratory : G1-584, RIICO Industrial Area,
Sitapura, Jaipur - 302022, Rajasthan
Phone : +91 9460222039, 9460222049,
Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502522100002123	Date :	22-11-2022
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 :	07-11-2022
Point of Collection :	Bore well No.-01	Date of Receipt :	09-11-2022
Date of Test/Analysis :	09-11-2022 to 22-11-2022	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	3 Ltr.	Sample Collected By :	Mahaveer singh Gurjar
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	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	7.62	IS 3025 (Part 11) : 1983 RA 2017	6.5 to 8.5	-
6	Hardness (total) [mg/l]	250	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]	99.8	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
9	Total Dissolved Solids [mg/l]	472	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
10	Calcium [mg/l]	55.38	IS 3025 (Part 40) : 1991 RA 2019	75.00	200.00

Rajesh Maneshwan



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JDA/UDH

Office : E-65, Chitrangan Marg,
C-Scheme, Jaipur - 302001, Rajasthan
Phone : +91 6377210064, 9414077379,
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Phone : +91 9460222039, 9460222049,
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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
11	Magnesium [mg/l]	27.1	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]	56.78	IS 3025 (Part 24) : 1986 RA 2019	200.00	400.00
15	Nitrate [mg/l]	39.22	IS 3025 (Part 34) : 1988 RA 2019	45.00	-
16	Fluoride [mg/l]	0.64	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]	0.03	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]	237.6	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]	0.29	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 1622 : 1981	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	-

Rajesh Maneswar



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JDA/UDH

Office : E-65, Chitrangan Marg,
C-Scheme, Jaipur - 302001, Rajasthan
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Website : www.teamtesthouse.com
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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 37) : 1988 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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Balram
Balram Agarwal
Senior Analyst

Rajesh
Rajesh Maheshwari
Authorized Signatory
(Report No: TC502522100002123)

J.K. Cement WORKS, Nimbahera (RAJ)
Treated Domestic Effluent Analysis Report
HALF YEARLY REPORT (October'22- March'23)

S.No.	PARAMETER	Standards	October-22	November-22	December-22	January-23	February-23	March-23
1	pH	Between 5.5 to 9.0	7.40	7.50	7.45	7.38	7.45	7.50
2	Total Suspended solids	Not to exceed 100 mg/l	19.0	28.0	15.20	29.00	22.00	31.00
3	Chemical Oxygen Demand	Not to exceed 250 mg/l	89.6	128.5	105.20	115.00	96.56	94.30
4	Biological Oxygen Demand (3 days at 27 Degree C)	Not to exceed 30 mg/l	16.30	18.67	14.50	15.00	13.00	10.20
5	Oil & Grease	Not to exceed 10 mg/l	<1.0	5.0	<1.0	<1.0	4.00	<1.0
6	Ammonical Nitrogen (as N)	Not to exceed 50 mg/l	3.85	4.27	3.02	5.20	4.56	6.20
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	7.20	7.81	6.80	8.63	8.65	10.50
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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JDA/UDH

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

Laboratory : G1-584, RIICO Industrial Area,
Sitapura, Jaipur - 302022, Rajasthan
Phone : +91 9460222039, 9460222049,
Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502522200002735	Date :	01-12-2022
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 :	22-11-2022
Point of Collection :	STP Kailash Nagar Colony	Date of Receipt :	24-11-2022
Date of Test/Analysis :	24-11-2022 to 30-11-2022	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 Ltr	Sample Collected By :	Mahaveer singh Gurjar
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Total Suspended Solids [mg/l]	28	APHA.2017:2540-D	100
2	Ammonical Nitrogen as N [mg/l]	4.27	APHA 2017 : 4500-NH3 C	50
3	Biochemical Oxygen Demand (BOD) [mg/l]	18.67	APHA 2017:5210-B	30
4	Chemical Oxygen Demand (COD) [mg/l]	128.54	APHA:2017 : 5220-C	250
5	pH	7.50	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]	9.43	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]	7.81	APHA 2017 : 4500-Norg B	10

Notes :-

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Sunil Kumar
Senior Analyst

Rajesh Maheshwan
Authorized Signatory
(Report No: TC502522200002735)



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JDA/UDH

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

Laboratory : G1-584, RIICO Industrial Area,
Sitapura, Jaipur - 302022, Rajasthan
Phone : +91 9460222039, 9460222049,
Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	200002735	Date :	01-12-2022
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 :	22-11-2022
Point of Collection :	STP Kailash Nagar Colony	Date of Receipt :	24-11-2022
Date of Test/Analysis :	24-11-2022 to 30-11-2022	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 Ltr	Sample Collected By :	Mahaveer singh Gurjar
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

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

Notes :-

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Sunil Kumar
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 200002735)



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

TEST REPORT

Report No./ULR No. :	TC502522200002736	Date :	01-12-2022
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 :	22-11-2022
Point of Collection :	STP - 35 KLD	Date of Receipt :	24-11-2022
Date of Test/Analysis :	24-11-2022 to 30-11-2022	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 Ltr	Sample Collected By :	Mahaveer singh Gurjar
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Total Suspended Solids [mg/l]	30	APHA.2017:2540-D	100
2	Ammonical Nitrogen as N [mg/l]	2.86	APHA 2017 : 4500-NH3 C	50
3	Biochemical Oxygen Demand (BOD) [mg/l]	16.67	APHA 2017:5210-B	30
4	Chemical Oxygen Demand (COD) [mg/l]	125.25	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]	6.78	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]	8.03	APHA 2017 : 4500-Norg B	10

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Sunil Kumar
Senior Analyst

Rajesh Maneshwan
Authorized Signatory
(Report No: TC502522200002736)



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

TEST REPORT

Report No./ULR No. :	200002736	Date :	01-12-2022
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 :	22-11-2022
Point of Collection :	STP - 35 KLD	Date of Receipt :	24-11-2022
Date of Test/Analysis :	24-11-2022 to 30-11-2022	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 Ltr	Sample Collected By :	Mahaveer singh Gurjar
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

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

Notes :-

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Senior Analyst

Authorized Signatory
(Report No: 200002736)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502522200002737	Date :	01-12-2022
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 :	22-11-2022
Point of Collection :	STP - 55 KLD	Date of Receipt :	24-11-2022
Date of Test/Analysis :	24-11-2022 to 30-11-2022	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 Ltr	Sample Collected By :	Mahaveer singh Gurjar
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Total Suspended Solids [mg/l]	26	APHA.2017:2540-D	100
2	Ammonical Nitrogen as N [mg/l]	3.12	APHA 2017 : 4500-NH3 C	50
3	Biochemical Oxygen Demand (BOD) [mg/l]	18.18	APHA 2017:5210-B	30
4	Chemical Oxygen Demand (COD) [mg/l]	118.66	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]	7.81	APHA 2017 : 4500-Norg B	100
8	Oil & Grease [mg/l]	4	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]	7.78	APHA 2017 : 4500-Norg B	10

Notes :-

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Senior Analyst
Sunil Kumar

Authorized Signatory
(Report No: TC502522200002737)



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Website : www.teamtesthouse.com
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Laboratory : G1-584, RIICO Industrial Area,
Sitapura, Jaipur - 302022, Rajasthan
Phone : +91 9460222039, 9460222049,
Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	200002737	Date :	01-12-2022
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 :	22-11-2022
Point of Collection :	STP - 55 KLD	Date of Receipt :	24-11-2022
Date of Test/Analysis :	24-11-2022 to 30-11-2022	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 Ltr	Sample Collected By :	Mahaveer singh Gurjar
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

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

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Sunil Kumar
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 200002737)



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Email : team.bdhead@gmail.com

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

TEST REPORT

Report No./ULR No. :	TC502523200000485	Date :	10-03-2023
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Liquid Effluents / Chemical & Biological	Date of Sample Collection/Monitoring :	25-02-2023
Point of Collection :	STP - 55 KLD	Date of Receipt :	03-03-2023
Date of Test/Analysis :	03-03-2023 to 10-03-2023	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 ltr.	Sample Collected By :	Prahlad yogi
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Total Suspended Solids [mg/l]	31	APHA.2017:2540-D	100
2	Ammonical Nitrogen as N [mg/l]	5.50	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]	100.64	APHA:2017 : 5220-C	250
5	pH	7.46	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]	9.87	APHA 2017 : 4500-Norg B	100
8	Oil & Grease [mg/l]	4	APHA 2017 : 5520 B	10
9	Total Nitrogen [mg/l]	8.35	APHA 2017 : 4500-Norg B	10

Notes :-

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Sunil kumar
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: TC502523200000485)



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JDA/UDH

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Email : team.bdhead@gmail.com

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Sitapura, Jaipur - 302022, Rajasthan
Phone : +91 9460222039, 9460222049,
Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	200000485	Date :	10-03-2023
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Liquid Effluents / Chemical & Biological	Date of Sample Collection/Monitoring :	25-02-2023
Point of Collection :	STP - 55 KLD	Date of Receipt :	03-03-2023
Date of Test/Analysis :	03-03-2023 to 10-03-2023	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 ltr.	Sample Collected By :	Prahlad yogi
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
10	Free available chlorine [mg/l]	BDL(<0.1)	APHA 2017 : 4500- Cl- B	0.5
11	Faecal coliform [MPN/100ml]	Not Detected	IS 1622 : 1981	1000

Notes :-

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Sunil kumar
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 200000485)



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Email : team.bdhead@gmail.com

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

TEST REPORT

Report No./ULR No. :	TC502523200000484	Date :	10-03-2023
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Liquid Effluents / Chemical & Biological	Date of Sample Collection/Monitoring :	25-02-2023
Point of Collection :	STP - 35 KLD	Date of Receipt :	03-03-2023
Date of Test/Analysis :	03-03-2023 to 10-03-2023	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 ltr.	Sample Collected By :	Prahlad yogi
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Total Suspended Solids [mg/l]	25	APHA.2017:2540-D	100
2	Ammonical Nitrogen as N [mg/l]	3.38	APHA 2017 : 4500-NH3 C	50
3	Biochemical Oxygen Demand (BOD) [mg/l]	16.36	APHA 2017:5210-B	30
4	Chemical Oxygen Demand (COD) [mg/l]	114.24	APHA:2017 : 5220-C	250
5	pH	7.56	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]	9.86	APHA 2017 : 4500-Norg B	100
8	Oil & Grease [mg/l]	5	APHA 2017 : 5520 B	10
9	Total Nitrogen [mg/l]	8.26	APHA 2017 : 4500-Norg B	10

Notes :-

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Senior Analyst

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

TEST REPORT

Report No./ULR No. :	200000484	Date :	10-03-2023
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Liquid Effluents / Chemical & Biological	Date of Sample Collection/Monitoring :	25-02-2023
Point of Collection :	STP - 35 KLD	Date of Receipt :	03-03-2023
Date of Test/Analysis :	03-03-2023 to 10-03-2023	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 ltr.	Sample Collected By :	Prahlad yogi
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
10	Free available chlorine [mg/l]	BDL(<0.1)	APHA 2017 : 4500- Cl- B	0.5
11	Faecal coliform [MPN/100ml]	Not Detected	IS 1622 : 1981	1000

Notes :-

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Sunil kumar
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 200000484)



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

TEST REPORT

Report No./ULR No. :	TC502523200000483	Date :	10-03-2023
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Cement Plant
Type of sample / Discipline :	Liquid Effluents / Chemical & Biological	Date of Sample Collection/Monitoring :	25-02-2023
Point of Collection :	STP Kailash Nagar Colony	Date of Receipt :	03-03-2023
Date of Test/Analysis :	03-03-2023 to 10-03-2023	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 ltr.	Sample Collected By :	Prahlad yogi
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Total Suspended Solids [mg/l]	22	APHA.2017:2540-D	100
2	Ammonical Nitrogen as N [mg/l]	4.56	APHA 2017 : 4500-NH3 C	50
3	Biochemical Oxygen Demand (BOD) [mg/l]	13	APHA 2017:5210-B	30
4	Chemical Oxygen Demand (COD) [mg/l]	96.56	APHA:2017 : 5220-C	250
5	pH	7.45	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]	12.14	APHA 2017 : 4500-Norg B	100
8	Oil & Grease [mg/l]	4	APHA 2017 : 5520 B	10
9	Total Nitrogen [mg/l]	8.65	APHA 2017 : 4500-Norg B	10

Notes :-

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Sunil kumar
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: TC502523200000483)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	200000483	Date :	10-03-2023
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Cement Plant
Type of sample / Discipline :	Liquid Effluents / Chemical & Biological	Date of Sample Collection/Monitoring :	25-02-2023
Point of Collection :	STP Kailash Nagar Colony	Date of Receipt :	03-03-2023
Date of Test/Analysis :	03-03-2023 to 10-03-2023	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 ltr.	Sample Collected By :	Prahlad yogi
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
10	Free available chlorine [mg/l]	BDL(<0.1)	APHA 2017 : 4500- Cl- B	0.5
11	Faecal coliform [MPN/100ml]	Not Detected	IS 1622 : 1981	1000

Notes :-

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

Sunil kumar
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 200000483)

J.K. Cement WORKS, Nimbahera (RAJ)

Annexure-6

Noise Monitoring Report**(All Values in dB)**

Month	HALF YEARLY REPORT (October-22 -March '23) FY 2022-23							
	Main Security Gate		Thermal Power Plant		New JK Factory Gate		Mines Office	
	Day	Night	Day	Night	Day	Night	Day	Night
Oct-22	65.4	55.6	64.3	50.5	62.3	54.3	67.5	52.1
Nov-22	68.6	54.3	62.4	52.1	69.4	58.6	65.4	54.8
Dec-22	62.1	54.2	60.4	51.4	66.7	56.2	68.4	63.7
Jan-23	69.4	54.3	60.6	54.9	65.4	55.2	63.2	56.4
Feb-23	70.8	56.3	60.1	51.6	68.6	54.7	62.1	55.2
Mar-23	68.2	54.3	62.4	54.6	70.1	55.9	65.6	52.3
Average	67.4	54.8	61.7	52.5	67.1	55.8	65.4	55.8



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

Laboratory : G1-584, RIICO Industrial Area,
Sitapura, Jaipur - 302022, Rajasthan
Phone : +91 9460222039, 9460222049,
Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502522600002279	Date :	23-11-2022
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Ambient Noise Level Monitoring	Date of Sample Collection/Monitoring :	15-11-2022
Point of Collection :	Near Main Security Gate	Date of Receipt :	17-11-2022
Date of Test/Analysis :	17-11-2022 to 23-11-2022	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Krashna Murari
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Night Time) : Leq [dB(A)]	52.1	IS 9989	70
2	Noise Level (Day Time) : Leq [dB(A)]	68.4	IS 9989	75

Notes :-

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Senior Analyst **Ratan Mal Yogi**

Authorized Signatory
Rajesh Mageshwan
(Report No: TC502522600002279)



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

TEST REPORT

Report No./ULR No. :	TC502522600002280	Date :	23-11-2022
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Ambient Noise Level Monitoring	Date of Sample Collection/Monitoring :	15-11-2022
Point of Collection :	Near Thermal Power Plant	Date of Receipt :	17-11-2022
Date of Test/Analysis :	17-11-2022 to 23-11-2022	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Night Time) : Leq [dB(A)]	60.2	IS 9989	70
2	Noise Level (Day Time) : Leq [dB(A)]	72.5	IS 9989	75

Notes :-

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Purnan Mal Yogi
Senior Analyst

Authorized Signatory
Rajesh Maneshwan
(Report No: TC502522600002280)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502522600002281	Date :	23-11-2022
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Ambient Noise Level Monitoring	Date of Sample Collection/Monitoring :	15-11-2022
Point of Collection :	New J.k Factory Gate	Date of Receipt :	17-11-2022
Date of Test/Analysis :	17-11-2022 to 23-11-2022	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Night Time) : Leq [dB(A)]	54.8	IS 9989	70
2	Noise Level (Day Time) : Leq [dB(A)]	62.5	IS 9989	75

Notes :-

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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwan
Authorized Signatory
(Report No: TC502522600002281)



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

TEST REPORT

Report No./ULR No. :	TC502522600002282	Date :	23-11-2022
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Ambient Noise Level Monitoring	Date of Sample Collection/Monitoring :	15-11-2022
Point of Collection :	Near Mine Gate	Date of Receipt :	17-11-2022
Date of Test/Analysis :	17-11-2022 to 23-11-2022	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Night Time) : Leq [dB(A)]	56.9	IS 9989	70
2	Noise Level (Day Time) : Leq [dB(A)]	62.0	IS 9989	75

Notes :-

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Senior Analyst **Ratan Mal Yogi**

Authorized Signatory **Rajesh Maheshwari**

(Report No: TC502522600002282)



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

TEST REPORT

Report No./ULR No. :	TC502523600000405	Date :	17-03-2023
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Cement Plant
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	27-02-2023 16:59 to 28-02-2023 16:59
Point of Collection :	Near Main Security Gate	Date of Receipt :	09-03-2023
Date of Test/Analysis :	09-03-2023 to 13-03-2023	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)]	47.2	IS 9989	70
2	Noise Level (Day Time) : Leq [dB(A)]	56.5	IS 9989	75

Notes :-

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Sunil Kumar
Senior Analyst

Purush Mal Yogi
Authorized Signatory
(Report No: TC502523600000405)



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

TEST REPORT

Report No./ULR No. :	TC502523600000406	Date :	17-03-2023
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Cement Plant
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	27-02-2023 17:00 to 28-02-2023 17:01
Point of Collection :	Near Thermal Power Plant	Date of Receipt :	09-03-2023
Date of Test/Analysis :	09-03-2023 to 17-03-2023	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)]	71.7	IS 9989	75

Notes :-

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Senior Analyst

Authorized Signatory
(Report No. TC502523600000406)



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C-Scheme, Jaipur - 302001, Rajasthan
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Laboratory : G1-584, RIICO Industrial Area,
Sitapura, Jaipur - 302022, Rajasthan
Phone : +91 9460222039, 9460222049,
Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502523600000407	Date :	17-03-2023
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Cement Plant
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	27-02-2023 17:01 to 28-02-2023 17:02
Point of Collection :	New J.k Factory Gate	Date of Receipt :	09-03-2023
Date of Test/Analysis :	09-03-2023 to 13-03-2023	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)]	54.9	IS 9989	70
2	Noise Level (Day Time) : Leq [dB(A)]	63.4	IS 9989	75

Notes :-

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Senior Analyst
Sunil Kumar


Authorized Signatory
(Report No: TC502523600000407)



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Laboratory : G1-584, RIICO Industrial Area,
Sitapura, Jaipur - 302022, Rajasthan
Phone : +91 9460222039, 9460222049,
Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502523600000408	Date :	17-03-2023
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Cement Plant
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	27-02-2023 17:03 to 28-02-2023 17:03
Point of Collection :	Near Mine Gate	Date of Receipt :	09-03-2023
Date of Test/Analysis :	09-03-2023 to 13-03-2023	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)]	53.2	IS 9989	70
2	Noise Level (Day Time) : Leq [dB(A)]	62.7	IS 9989	75

Notes :-

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Senior Analyst
Sunil Kumar


Authorized Signatory
Purnima Mal Yogi
(Report No: TC502523600000408)

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





जे. के. सीमेन्ट , निम्बाहेड़ा

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

क्या उपयोग नहीं करना है ?

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



सजावट के लिये प्लास्टिक व थर्माकोल (पॉलिस्टीरिन)



मिठाईयों के डिब्बे, निमंत्रण पत्रिका व सिगरेट के पैकेट और उनके कवर



प्लास्टिक की छड़ों के साथ कानकोरनी, गुब्बारों के लिए प्लास्टिक के झंडे, कैड़ी के छड़े, आईस्क्रीम छड़े



प्लेट्स, कप, ग्लासेस, कटलरी जैसे कि चम्मच, चाकू पिने के लिए स्ट्रॉ, ट्रे, घुलानी (स्टिर्स)



100 माइक्रोन से पतले पीवीसी बेनर्स इन पर प्रतिबंध है।



कंपोस्टेबल प्लास्टिक (कचरा और नर्सरी की थैलियों छोड़कर)



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



वर्तन, कटोरी और डिब्बे



J. K. Cement Works, Nimbahera



बाजार जाते
समय
जूट या कपड़े
का बैग
लेकर जाएँ।

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.....

