



**HALF YEARLY COMPLIANCE REPORT
OF
ENVIRONMENTAL CLEARANCE LETTER NO.**

J-11011/243/2016-IA. II (I) Dated 23/07/2018

Period: April-2021 to September-2021

**For
Integrated Cement Project:
Clinker (2.80 MMTPA to 5.00 MMTPA) and Cement (3.60 MMTPA to
6.50 MMTPA), Captive Power Plant from 22 MW to 47 MW, and
WHRB from 13.2 MW to 15 MW**


**Submitted to:
MoEF&CC, New Delhi & Integrated Regional Office, Jaipur
Central Pollution Control Board, New Delhi & Bhopal
Rajasthan State Pollution Control Board, Jaipur**

**Submitted by:
M/s J. K. CEMENT WORKS, NIMBAHERA,
Kailash Nagar, Tehsil: Nimbahera, District: Chittorgarh (Raj)**

ENVIRONMENT CLEARANCE COMPLIANCE REPORT OF J. K. CEMENT WORKS, NIMBAHERA
EC letter No. J-11011/243/2016-1A (II) (I) dated 23.07.2018
(April 2021 to September 2021)

S. No.	Condition	Status
	(A) Specific Conditions	
1	The project proponent shall implement the conservation plan for schedule-I species (Pea fowl and Leopard) in consultation with the local forest department with the fund provisions of Rs.82.80 Lakhs in addition to the existing fund provision of 8.90 Lakhs.	<p>Complying with</p> <p>The Wildlife conservation plan has been prepared for six nos. of the following Schedule-I species found in the buffer area during the survey: -</p> <p>(a.) <i>Pavocristatus</i> (Indian Peafowl), (b.) <i>Pantherapadusfusca</i> (Indian Leopard), (c.) <i>Prionailurusrubiginosus</i> (Rusty-Spotted Cat), (d.) <i>Canis lupus pallipes</i> (Indian Wolf), (e.) <i>Varanusbengalensis</i> (Indian Monitor Lizard) (f.) <i>Gyps indicus/Gyps bengalensis</i> (Indian Vulture)</p> <p>5 Nos. of captive Limestone Mines and 2 Nos. of Integrated Cement Plant of J K Cement Ltd are situated within 10 KMS radius in Tehsil Nimbahera, Chittorgarh District and accordingly, Cumulative Wildlife Conservation Plan for 6 Sch-1 Species (Indian Peafowl (<i>Pavo cristatus</i>), Panther (<i>Panthera pardus fusca</i>), Rusty Spotted Cat (<i>Prionailurusrubiginosus</i>), Indian Wolf (<i>Canis lupus pallipes</i>), Indian Monitor lizard (<i>Varanus bengalensis</i>) and Indian vulture (<i>Gyps indicus/ bengalensis</i>). 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 by us against total WCP cost of Rs.285.30 Cr in July,21. Copy of Letter is enclosed as Annexure-A.</p>
2	The project proponent shall adopt the slip power recovery system for proposed line no.4 equipped with Bag House Fan (Raw Mill, Kiln PH Fan-1, Separator Fan for Cement Mill Polycom, Separator fan for Raw Mill Polycom).	<ul style="list-style-type: none"> • In Cement Grinding (HRP) mill VVFD has been installed to recover the slip power. • Line 4 is yet to be installed with facility of Slip Power Recovery System.
3	The project proponent shall utilize the alternate fuels to the	Hazardous and non-hazardous wastes are being used as AFR & alternative raw


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	maximum extent possible	material in cement plant. Total quantity utilized in FY 2021-22 (till September 2021) was 19907.749MT.																					
4	The treated water from the STP shall be recycled and reused to conserve the water.	<p>STP treated water is utilized for plantation/greenbelt purposes.</p> 																					
B	General Conditions:																						
1	An amount of Rs 4.22 Crores proposed towards Corporate Environment Responsibility (CER) shall be utilized as capital expenditure in project mode. The project shall be completed in concurrence with the implementation of the expansion and estimated on the basis of Scheduled Rates	<p>Complied.</p> <p>The unit has been carried out combined CSR activities for cement plant & its associated mines, on the focus area of infrastructure, health, sanitation & water, women-empowerment, sports, education etc. The Expenditure occurred in the FY-2020-2021 are given as below.</p> <table border="1"> <thead> <tr> <th>S.N.</th><th>Focus Area</th><th>Amount Expenditure (Rs.)</th></tr> </thead> <tbody> <tr> <td>1</td><td>Art & Culture</td><td>323256</td></tr> <tr> <td>2</td><td>Community Welfare</td><td>3544168</td></tr> <tr> <td>3</td><td>Disaster Relief</td><td>3062490</td></tr> <tr> <td>4</td><td>Drinking Water Arrangement</td><td>1418976</td></tr> <tr> <td>5</td><td>Educational Charity</td><td>3712947</td></tr> <tr> <td>6</td><td>Environment</td><td>171630</td></tr> </tbody> </table>	S.N.	Focus Area	Amount Expenditure (Rs.)	1	Art & Culture	323256	2	Community Welfare	3544168	3	Disaster Relief	3062490	4	Drinking Water Arrangement	1418976	5	Educational Charity	3712947	6	Environment	171630
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	Total Expenditure (Rs.)	41095182																		
2	Green belt shall be developed in 72.77 Ha with a native tree species in accordance with CPCB guidelines. The greenbelt shall inter alia cover the entire periphery of the plant	<p>Complying with.</p> <ul style="list-style-type: none"> • Total plant area = 98.07 ha. • Total plantation in plant area = 32.36 ha. • Total plantation in plant upto 2019-20 = 87622 nos. • Total plantation survived (85%) = 74470 nos, • Plantation during FY 20-21= 8123 nos. • Survival in FY 2020-21 is 95%, hence survived plantation = 7716 nos. • Total plantation as on 31st March 2021 in plant area = 82186 nos. <ul style="list-style-type: none"> • Total colony area = 72.20 ha. • Total plantation area in colony = 41.8 ha. • Total plantation area in colony upto 2019-20 = 113170 nos. • Total plantation survived is 85 % , hence survived plantation = 96194 nos. • Plantation during FY 2020-21 = 10492 nos • Total survival is 95% in FY 2020-21, hence survived plantation is = 9968 nos. • Total plantation survived in plant & colony upto 31st March 2021 = 106162 nos. <p>Total Plantation done in plant & colony during FY 2021-22 up to Sept 21 is 13046 nos.</p>																		

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3	<p>The Capital cost Rs. 36.80 Crores (21.96 Crores for Existing+14.84 Crores for expansion) and annual recurring cost Rs 4.08 Crores per annum (Rs. 2.87 Crores for existing + 1.21 Crores for expansion) towards the environmental protection measures shall be earmarked separately. The funds so provided shall not be diverted for any other purpose.</p>	<ul style="list-style-type: none"> • The funds allocated towards environmental protection measures is/will not be diverted for any other purpose. The amount of Rs. 21.96 Cr had expended towards implementation of environmental protection measures in the existing plant • The plant is in construction phase in phase manner, partial increase in cement production for line 4. After commissioning earmarked fund of Rs. 14.84 Cr will be utilized. • Against the estimated environmental protection cost Rs. 3,39,09,247/- has been incurred towards the installation bag filter and bag filter fan for roller press with cement mill and rest of the cost will be under line-4 clinkerisation process unit.
4	The project proponent shall (Air Quality Monitoring):	
a	<p>Install 24x7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standards prescribed in Environment (Protection) Rules 1986 (G.S.R. No. 612 (E) dated 25th August, 2014 (Cement) and subsequent amendment dated 9 th May, 2016 (Cement) and 10th May, 2016 (Co-processing Cement); S.O. 3305 (E) dated 7th</p>	<p>Complied With.</p> <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 stack of coal mill, cement mill and clinker cooler

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	<p>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 recognised under Environment (Protection) Act, 1986 or NABL accredited laboratories.</p>	<ul style="list-style-type: none"> Real time continuous monitoring system has been connected 24x7 with RSPCB and CPCB online server. Stack emission De-NOx system has been installed at kiln. CEMS Remote calibration done by CPCB and periodical calibration by OEM. The same practiced will be continued after installation of line -4 also. 
b	<p>Monitor fugitive emissions in the plant premises at least once in every quarter through laboratories recognised under Environment (Protection) Act, 1986 or NABL accredited laboratories.</p>	<p>Complying with.</p> <p>Following measures have been taken for the control of fugitive emissions:</p> <ul style="list-style-type: none"> Fugitive emissions are within limit. Covered vehicle used for cement and clinker transportation. Closed containers and bulkers for fly ash transportation. Rail along with road used for raw material/finished product transportation. All vehicle movement area is concreted. Silos for the storage of Clinker and fly ash. All unloading hoppers are covered and provided with bag filters. Bag dust collectors have been provided at all material transfer points. Water spray system has been provided with reclaimers and limestone unloading points. Vacuum sweeping machines are being used for better housekeeping.



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		<ul style="list-style-type: none">Green Belt all around the plant premises.Fugitive dust monitoring results are given in below table and monitoring report of NABL lab is enclosed as Annexure-1 <table><tr><th rowspan="2">Month/ Year</th><th colspan="5">SPM (µg/m3)</th></tr><tr><th>NEAR COAL YARD</th><th>NEAR LIMESTONE CRUSHING SITE</th><th>NEAR STACKER RECLAIMER</th><th>NEAR GYPSUM YARD</th><th>NEAR COAL YARD OF 22 MW CPP</th></tr><tr><td>April-21</td><td>1120.50</td><td>2268.90</td><td>2293.3</td><td>1716.40</td><td>1196.4</td></tr><tr><td>May-21</td><td>1326.30</td><td>2391.20</td><td>2421.80</td><td>1918.10</td><td>1398.70</td></tr><tr><td>June-21</td><td>1777.10</td><td>1781.40</td><td>2850.40</td><td>2927.90</td><td>1657.70</td></tr><tr><td>July-21</td><td>1533.90</td><td>1693.70</td><td>2412.0</td><td>2021.90</td><td>1214.50</td></tr><tr><td>Aug-21</td><td>1455.90</td><td>2068.20</td><td>3229.1</td><td>2498.20</td><td>1644.20</td></tr><tr><td>Sep-21</td><td>1811.0</td><td>2218.10</td><td>2940.50</td><td>1862.0</td><td>1471.10</td></tr></table>	Month/ Year	SPM (µg/m3)					NEAR COAL YARD	NEAR LIMESTONE CRUSHING SITE	NEAR STACKER RECLAIMER	NEAR GYPSUM YARD	NEAR COAL YARD OF 22 MW CPP	April-21	1120.50	2268.90	2293.3	1716.40	1196.4	May-21	1326.30	2391.20	2421.80	1918.10	1398.70	June-21	1777.10	1781.40	2850.40	2927.90	1657.70	July-21	1533.90	1693.70	2412.0	2021.90	1214.50	Aug-21	1455.90	2068.20	3229.1	2498.20	1644.20	Sep-21	1811.0	2218.10	2940.50	1862.0	1471.10
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c	Install system carryout Continuous Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM10 and PM2.5 in reference to PM emission, and SO2 and NOx in reference to SO2 and NOx emissions) within and outside the plant area at least at four locations (one within and three outside the plant area at an angle of 120° each), covering upwind and downwind directions;	Complied With. <ul style="list-style-type: none">Ambient air quality is being monitored at four locations considering one upwind and downwind direction. Results of the monitoring report indicate that all the parameters are within the permissible limits.Online CAAQMS system already installed at 4 locations in periphery of plant within plant area and 24x7 connected to RPCB/CPCB web portal.																																															



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d	Submit monthly summary report of continuous stack emission and air quality monitoring and results of manual stack monitoring and manual monitoring of air quality /fugitive emission to Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.	Ambient air quality & Stack monitoring reports are enclosed as Annexure-2 .



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5	The project proponent shall (Water Quality Monitoring):																															
A	install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R. No. 612 (E) dated 25th August, 2014 (Cement)and subsequent amendment dated 9th May, 2016 (Cement) and 10th May, 2016 (in case of Co-processing Cement) as amended from time to time; S.O. 3305 (E) dated 7th 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 recognised under Environment (Protection) Act, 1986 or NABL accredited laboratories.	<ul style="list-style-type: none">Not applicable for cement plant.Camera & flow meter are installed for neutralization pit at CPP & WHR for monitoring of treated effluent. The same practice will be continued in proposed expanded capacity also. <div></div>																														
b	Monitor regularly 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 recognised under Environment (Protection) Act, 1986 and NABL accredited laboratories; and	<p>Complying with.</p> <p>Ground water quality is being monitored regularly (pre and post monsoon) through labs recognised under Environment (Protection) Act, 1986 and NABL accredited laboratories. Ground water quality report is enclosed as Annexure-3.</p> <table><tr><th rowspan="2">SN.</th><th rowspan="2">Parameter</th><th colspan="2">Results</th></tr><tr><th>Post Monsoon-11.11.20</th><th>Pre-Monsoon-14.05.21</th></tr><tr><td>01</td><td>pH</td><td>7.55</td><td>8.12</td></tr><tr><td>02</td><td>Colour in Hazen</td><td><1.0</td><td><5</td></tr><tr><td>03</td><td>Odour</td><td>Agreeable</td><td>Agreeable</td></tr><tr><td>04</td><td>Turbidity in NTU</td><td><1.0</td><td><0.1</td></tr><tr><td>05</td><td>TDS in mg/l</td><td>424</td><td>587</td></tr><tr><td>06</td><td>Total hardness as CaCO3 in mg/l</td><td>239</td><td>350</td></tr></table>	SN.	Parameter	Results		Post Monsoon-11.11.20	Pre-Monsoon-14.05.21	01	pH	7.55	8.12	02	Colour in Hazen	<1.0	<5	03	Odour	Agreeable	Agreeable	04	Turbidity in NTU	<1.0	<0.1	05	TDS in mg/l	424	587	06	Total hardness as CaCO3 in mg/l	239	350
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		Post Monsoon-11.11.20	Pre-Monsoon-14.05.21																													
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		<table><tr><td>07</td><td>Calcium in mg/l</td><td>78</td><td>116</td></tr><tr><td>08</td><td>Magnesium in mg/l</td><td>11</td><td>14.58</td></tr><tr><td>09</td><td>Total alkalinity in mg/l</td><td>201</td><td>280</td></tr><tr><td>10</td><td>Chloride in mg/l</td><td>79</td><td>63.98</td></tr></table>	07	Calcium in mg/l	78	116	08	Magnesium in mg/l	11	14.58	09	Total alkalinity in mg/l	201	280	10	Chloride in mg/l	79	63.98
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10	Chloride in mg/l	79	63.98															
c	Submit monthly summary report of continuous effluent monitoring and results of manual effluent testing and manual monitoring of ground water quality to Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.	Complying With. <ul style="list-style-type: none">Ground water quality is being monitored regularly. Results of the monitoring report indicate that all the parameters are within the permissible limits as enclosed in Annexure-3.Effluent treated water monitoring results are enclosed as Annexure-4.Compliance reports are submitted periodically to the RO of the MOEF, CPCB and RPCB through e-mail.																
6.																		
a	Provide appropriate Air Pollution Control (APC) system for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards.	Complied With. <ul style="list-style-type: none">For the existing plant, Bag house has been installed at raw mill, kiln, Coal mill & Cement mill. ESP has installed at cooler stack to control emissions and fugitive emissions. Same measures will be adopted for unit line -4. <div></div>																



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b	Provide leakage detection and mechanised bag cleaning facilities for better maintenance of bags;	<p>Complied With.</p> <p>Mechanized bag cleaning facilities for better maintenance of bags has been provided and same practiced will be followed after expansion also;</p>
c	Provide pollution control system in the cement plant as per the CREP Guidelines of CPCB;	<p>Complying With.</p> <p>For the existing plant, Bag house has been installed at raw mill, kiln, Coal mill & Cement mill. ESP has installed at cooler to control stack emissions and fugitive emissions. Same measures will be adopted for unit line -4.</p>
d	Provide sufficient number of mobile or stationery vacuum cleaners to clean plant roads, shop floors, roofs regularly;	<p>Complying With.</p> <p>Five (05) nos. of mobile vacuum cleaner are facilitated to clean plant roads, shop floor & roofs regularly in existing plant and same practice will be maintained in proposed plant.</p> <div style="display: flex; justify-content: space-around;">   </div>
e	Recycle and reuse lime fines, coal fines and such other fines collected in the pollution control devices and vacuum cleaning devices in the process after agglomeration;	<p>Complying With.</p> <p>Dust generated from raw mill dust, coal dust, clinker dust and cement dust from Pollution control equipment like Bag house / ESP are being recycled and reused in the cement manufacturing process in our existing plant. The same practice will be followed for line-4 after commencement</p>
f	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;	<p>Complying With.</p> <p>All raw material transportation in covered dumper. The separate truck parking area facility is provided in the existing plant. The same practice will be adopted</p>


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		for line-4 unit.
g	Provide wind shelter fence and chemical spraying on the raw material stock piles;	<p>Complying With.</p> <p>Covered shed are provided for storage of raw materials & also developed dense plantation around the plant hence, wind shelter fence is not required.</p> <div><p>Laterite storage in gantry</p><p>Latitude: 24.647513 Longitude: 74.632553 Elevation: 456.56m Accuracy: 4.5m Time: 15/04/2019 15:08 Note: ggp coal yard1</p><p>Latitude: 24.64029 Longitude: 74.636006 Elevation: 434.16m Accuracy: 6.4m Time: 05-22-2019 16:12 Note: JK cement Nimahera</p></div>


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h	Provide Low NOX burners as primary measures and SCR /NSCR technologies as secondary measure to control NOX emissions. Have separate truck parking area and monitor vehicular emissions at regular interval	<p>Complied With.</p> <ul style="list-style-type: none"> Low NOx burners have been installed in kiln -3 & SNCR system for SLC to control NOx emissions and advance technology with ILC plant for line – 4 will be install to that meet the NOX emission well within norm. Separate truck parking area has been provided and only PUC certified vehicles are allowed. <p>The SNCR & truck parking photographs are as below:</p> <div style="display: flex; justify-content: space-around; align-items: center;">   </div>
7.		
a	Adhere to 'zero liquid discharge';	<p>Complying with.</p> <p>Zero liquid discharge is being maintained.</p>
b	Provide Sewage Treatment Plant for domestic wastewater; and	<p>Complied With.</p> <p>STP of capacity: 500KLD; based on Activated Sludge Process (ASP) technology has been provided for domestic waste water treatment and treated water is being utilised for plantation. Additionally, we has installed two reed bed technology based STP with the capacity of 55 KLD & 35 KLD each.</p>

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c	Provide garland drains and collection pits 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 With. Raw material stored in covered shed and finished product in silo. The garland drains and collection pits for each stock pile to arrest the run-off in the event of heavy rains has been provided.
8.		
a	Practice rainwater harvesting to maximum possible extent;	18 nos. Rainwater Harvesting Structures has been constructed for ground water recharge. 
B	Provide water meters at the inlet to all unit processes in the cement plants; and	Complying With. Water meters at all strategic locations has been provided in the existing plant.
C	Make efforts to minimise water consumption in the cement plant complex by segregation of used water, practicing cascade use and by recycling treated water.	Complying With. <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 the treated water is

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		<p>used for plantation and greenbelt development.</p> <ul style="list-style-type: none"> • 'Zero' liquid discharge are being maintained.
9.		
a	Provide Waste heat recovery system for kiln and cooler;	Waste heat recovery system has provided in the existing kiln and cooler to generate power. The existing power generation through WHRB is 13.2 MW. Same will be explore in line -4.
b	Make efforts to achieve power consumption less than 65 units/tonne for Portland Pozzolona Cement (PPC) and 85 units/tonne for Ordinary Portland Cement (OPC) production and thermal energy consumption of 670 Kcal/Kg of clinker;	All suitable measures like VVFD, high efficient motors have been adopted to reduce power consumption.
c	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;	<p>Solar power is installed at JK ITI building for street light, open area, parking area and water heater etc.</p> 
d	Provide the project proponent for LED lights in their offices and residential areas;	LED lights provided in office & residential township.
e	maximize utilization of fly ash, slag and sweetener in cement	Complying with,

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	blend as per BIS standards; and	Fly ash generated from own power plant 100% utilized in manufacturing of PPC cement. Sweetener is being used in limestone to achieve desire LSF.
f	Maximize utilization of alternate fuels and Co-processing to achieve best practice norms	Complying with. The details of alternate fuels are being utilised in the existing plant is given in specific condition point no -3
10	Efforts shall be made to reduce impact of the transport of the raw materials and end products on the surrounding environment including agricultural land by the use of covered conveyor belts/railways as a mode of transport	Complying With. All precautions to reduce impact of transport of raw material etc. Fly ash is transported by pneumatic system and all type of materials are transported by covered truck, provide paved roads & regular sprinkling of water on roads. There are separate parking areas for trucks with green belt on the periphery and End product also transporting through rail to reduce the road transport.
11	Used refractories shall be recycled as far as possible.	Used refractories is sold and partially recycled in existing plant and same practice will be adopted in proposed plant
12	The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration including plantation.	Complying With. GHG emission inventory report is attached as Annexure-5 .
13	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	Complying With. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan are implemented.
14	The PP shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms of Factory Act	There is no any activity is carried out in high temperature work zone however during shutdown we start working after cooling of equipment and same practice will be followed in proposed unit. Personal protective equipment is being provided to respective worker.

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15	The PP shall adhere to the corporate environmental policy and system of the reporting of any infringements/ non-compliance of EC conditions at least once in a year to the Board of Directors and the copy of the board resolution shall be submitted to the MoEF&CC as a part of six-monthly report.	Complying With.
16	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the cement plants shall be implemented.	Complying With. All CREP recommendations have been implemented.
S N	CREP Guidelines	Action
1	Cement Plant which are not complying with notified standards:- • Augmentation of existing Air Pollution Control Devices - by July 2003. • Replacement of existing Air Pollution Control Devices - by July 2004.	J. K. Cement Works is already complying with notified standards and Air Pollution Control Equipments will be installed in proposed expansion project.
2	Cement plant located in critically polluted or urban areas (including 5Km distance outside urban boundary) will meet 100 mg/Nm ³ limit of particulars matter by December 2004 and continue working to reduce the emission of particulate matter to 50 mg/ Nm ³	Company is complying emission standard of particulate matter less than 30 mg/ Nm ³ .
3	The new cement kilns to be accorded NOC/Environmental Clearance w.e.f. 01.04.2003 will meet the limit of 50 mg/ Nm ³ for particulate matter emissions.	Particulate Matter emission limit of 30 mg/ Nm ³ are being followed. All Pollution Control Equipments have been/ will be designed to meet the prescribed standard.
4	CPCB will evolve load based standards by December 2003.	Actions will be taken as per recommendation of CPCB.
5	CPCB and NCBM will evolve SO ₂ and NO _x emission standard by June 2004.	Actions will be taken as per recommendation of CPCB.
6	The cement industries will control fugitive emissions from all the raw material and products storage and transfer points by December 2003. However, the feasibility for the control of fugitive emissions from limestone and coal storage areas will be decided by the National Task Force (NTF). The NTF shall submit	Covered storage shed/ Silos for Clinker, Fly Ash, Gypsum and Cement have been done and same will be followed in proposed expansion. Water spray arrangement is provided for raw materials at identified locations. All conveyor belts are covered to avoid wind blowing of fines. All material

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	its recommendation within three months.	transfer points are fully enclosed and equipped with dust extraction systems. Floors in the plant and at main gate truck parking area are concreted to mitigate fugitive dust generation. Regular sweeping of cemented roads and floors through vacuum sweeper machines is being done.
7	CPCB, NCBM, BIS and Oil refineries will jointly prepare the policy on use of petroleum coke as fuel in cement kiln by July 2003.	Actions will be taken as per recommendation of CPCB. Pet coke usage is being permitted by CPCB/ RPCB and being used in existing kiln as a fuel and same will be followed in proposed line-4.
8	After performance evaluation of various types of continuous monitoring equipment and feedback from the industries and equipment manufacturers, NTF will decide feasible unit operations/ sections for installation of continuous monitoring equipment. The industry will install the continuous monitoring systems (CMS) by December 2003.	Continuous monitoring equipment has been installed at all stacks by JKCW to monitor particulate emissions.
9	Trappings in kiln ESP to be minimized by July 2003 as per the recommendation of NTF. Recommendations of NTF are as under: a) Pre –blending system for coal should be adopted to get uniform coal quality. b) Installation of state of art distributed control logic system, which reduces the calciner firing, step by step, as CO concentration increases. c) Proper records should be kept of the number of ESP tripping with duration of its non-functioning (such record should preferably be automatic) d) ESP availability should be enhanced to more than 98%	Not applicable. As the company have bag filter and Bag Houses in Kilns.
10	Industries will submit the target date to enhance the utilization of waste material by April 2003.	100 % Fly ash generated in CPP is being utilized in cement plant
11	NCBM will carry out a study on hazardous waste utilization in cement kiln by December 2003.	Hazardous & Other Waste are being utilized as AFR in existing kiln and same practice will be followed in proposed line-4 with due permission by


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		regulatory authority.
12	Cement industries will carry out feasibility study and submit target dates to CPCB for co-generation of power by July 2003.	Waste Heat Recovery Power Plant of 13.2 MW capacity has been utilised with existing cement plant hot waste gases; J. K. Cement Works is now planning to increase capacity from 13.2 MW to 15.0 MW with proposed expansion project.
17	A dedicated environmental cell with qualified personnel shall be established. The head of the environment cell shall report directly to the head of the organization.	Complying With. A separate environmental management cell with qualified personnel is already established & has sufficient monitoring equipment in environmental laboratory.
18	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, Safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Point noted and agreed All necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, Safe drinking water, medical health care, crèche etc shall be provided for construction worker within the site. The housing shall be removed after the completion of the project.
19	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.	The stipulations made by the State Pollution Control Board and the State Government are being/ will be strictly complied.
20	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).	Point noted and agreed
21	The waste oil, grease and other hazardous shall be disposed of as per the Hazardous & Other waste (Management & Transboundary Movement) Rules, 2016.	Complying With. <ul style="list-style-type: none"> Hazardous waste generated from our existing plant i.e. Used Oil (5.1) and Waste oil (5.2) are being sold out to authorized recyclers of RPCB/CPCB. Used Batteries is sold to CPCB, RSPCB, authorized venders.

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		<ul style="list-style-type: none"> Authorization has been obtained from SPCB as per the Hazardous & Other waste (Management & Transboundary Movement) Rules, 2016.
22	The storage of NH ₃ and other hazardous chemicals at the site shall be as per the provisions of Manufacture, Storage and Import of Hazardous Chemical Rules, 1989 as amended from time to time	NH ₃ use in SNCR is approx. 25 % aqueous solution which is being supplied by manufacturing company. All safety measures inter locked in storage & handling of NH ₃ & others chemical are being followed as per provisions of Manufacture, Storage and Import of Hazardous Chemical Rules, 1989 as amended.
23	The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time.	<p>Complying With.</p> <p>The ambient noise levels are being regularly monitored and monitoring results indicates that the noise levels with the plant at all locations are well within the standards prescribed under E(P)A Rules, 1986 (For Monitoring results please refer Annexure- 2)</p>
24	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	<p>Complying With.</p> <p>All Occupational health and safety measures are being taken by the management. Health Record of the workers is being maintained. The company has dispensary and sufficient medical staff for the existing unit to monitor the health of the employees/ workers. (For Medical health record please refer Annexure-6)</p>
25	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report.	Agreed & Complying With.
26	Ventilation system shall be designed for adequate air changes as per ACGIH document for all tunnels, motor houses, Cement bagging plants.	<p>Complying With.</p> <p>Installed and is in operation</p>


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27	Sufficient number of colour coded waste collection bins shall be constructed at shop floors in each shop to systematically segregate and store waste materials generated at the shop floors (other than Process waste) in designated coloured bins for value addition by promoting reuse of such wastes and for good housekeeping.	<p>Complying With.</p> <p>Colour coded waste collection bins at shop floor to systematically segregate and store waste materials generated at the shop floors (other than Process waste) in designated colour bins and same practice will be adopted in proposed plant.</p> 
28	Kitchen waste shall be composted or converted to biogas for further use.(to be decided on case to case basis depending on type and size of plant)	The kitchen waste after segregation & collection of dry and wet garbage is being / will be sent to Nimbahera Nagar Palika for proper disposal.
29.		
a	send a copy of environmental clearance letter to the heads of Local Bodies, Panchayat, Municipal bodies and relevant offices of the Government;	Complied with.
b	Put on the clearance letter on the web site of the company for access to the public.	<p>Complied with.</p> <p>EC has been uploaded at company website (www.jkcement.com)</p>

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c	Inform the public through advertisement within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB and may also be seen at Website of the Ministry of Environment, Forests and Climate Change (MoEF&CC) at http://envfor.nic.in .	Complied with.
d	Upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same periodically;	Complying with. The status of compliance of the stipulated environment clearance conditions, including results of monitored data is being uploaded regularly on website.
e	Monitor the criteria pollutants level namely; PM10, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral 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;	Complying with. Regular monitoring of PM10, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters are being monitored. Data on PM, SOx and NOx are continuously displayed outside the premises of plant and uploaded on the website of the company along with EC compliance report.

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f	Submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional Office of MoEF&CC, the respective Zonal Office of CPCB and the SPCB;	Complying with. Six monthly reports are being regularly submitting to concern offices as given in time frame. Last Six-Monthly Monitoring report was sent on 29.05.2021 through e-mail to the Regional Office of MoEF&CC, the respective Zonal Office of CPCB and the SPCB.
g	Submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company;	Complying with. The Environment statement i.e. Form V is being submitted regularly of each financial year of existing plant. FY 2020-21 ESR cement plant, Nimbahera, 22 MW CPP and 13.2 MW WHR has submitted at RSPCB office vide letter no. NBH-PC-ESR-21- 2259, 2260 & 2261 respectively, dated 17.09.2021
h	Inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.	Point noted and will be complied

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30	The Ministry of Environment, Forest and Climate Change has considered the application based on the recommendations of the Expert Appraisal Committee (Industry-I) and hereby decided to grant environmental clearance for the proposed expansion of Integrated Cement Plant.	Noted
31	The ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory	Noted
32	The ministry reserves the right to stipulate additional conditions if found necessary. The company in a time bound manner shall implement these conditions	Noted
33	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report and that during their presentation of EAC. The commitment made by the project proponent to issue raised during public hearing shall be implemented by the proponent	Complied with.
34	The above conditions shall be enforced, inter-alia under the provisions of the water (Prevention and control of pollution)Act 1974 , the Air (Prevention & control of pollution)Act,1981, the Environment (Protection)Act ,1986, Hazardous and other waste (Management and Transboundary Movement)Rules 2016 and the Public Liability Insurance Act 1991 along with their amendments and rules	Noted and Agreed
35	Any appeal against this EC shall lie with NGT ,if preferred within a period of 30 days as prescribed under Section 16 of	Noted and Agreed

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	NGT Act ,2010	
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राजस्थान सरकार

कार्यालय उप वन संरक्षक, चित्तौड़गढ़ (राज.)

(वन विभाग परिसर, प्रताप सर्किल, चित्तौड़गढ़-312001; Ph&Fax :01472-294001 ;email : dcf.chitor.forest@rajasthan.gov.in)

क्रमांक :- एफ ()सर्वे/उवस/2021-22/4089

दिनांक :- 13.7.2021

निमित्त,

संभागीय मुख्य वन संरक्षक,
उदयपुर

विषय :- Request for approval of combined Wildlife Conservation Plan for Six Scheduled-I species Viz. Indian peafowl (*Pavo cristatus*) & Panther (*Panthera pardus fusca*), Rusty-spotted cat (*Prionailurus rubiginosus*), Indian wolf (*Canis lupus pallipes*) Indian Monitor Lizard (*Varanus bengalensis*) and Indian Vulture (*Gyps indicus/gyps bengaliensis*) proposed by J.K. Cement Works(J.K. Cement, Nimbahera, J.K. Mangrol Cement plant, Ahirpura Limestone Mine, Karunda Limestone Mine, Maliakhera Limestone Mine, Mangrol Kimestone mine and Mangrol- Tilakhera Limestone Mine) Tehsil- Nimbahera, Dist- Chittorgarh (Rajasthan).

प्रसंग :- प्रधान मुख्य वन संरक्षक एवं मुख्य वन्यजीव प्रतिपालक, अरण्य भवन, झालाना संस्थानिक क्षेत्र, राजस्थान, जयपुर का पत्र क्रमांक एफ.11(419) विकास-II/मुवजीप्र/2020-21/4-6 दिनांक 4.1.2021 एवं आपका पत्र क्रमांक 484 दिनांक 19.1.2021 एवं 1793 दिनांक 17.3.2021 व J.K. Cement Works, (J.K. Cement, Nimbahera) का पत्र क्रमांक - दिनांक 29.6.2021 के क्रम में।

महोदय,

उपरोक्त विषयान्तर्गत निवेदन है, कि प्रासंगिक पत्र द्वारा Wildlife Conservation Plan में लगाए गए आक्षेपों की पूर्ति की जाकर निम्नानुसार प्रेषित है :-

क्र.सं.	आक्षेप	प्रत्युत्तर
1	पर्यावरण एवं जलवायु परिवर्तन मंत्रालय केन्द्र सरकार/ राज्य सरकार द्वारा जारी ToR पत्र की प्रति संलग्न कर प्रस्तुत करें।	प्रयोक्ता एजेन्सी द्वारा ToR की प्रतियां संलग्न कर दी गई है।
2	एनेक्सचर-1 के बिन्दु संख्या 1 से 14 तक पूर्ण रूप से भरकर उप वन संरक्षक द्वारा प्रमाणित कराया जावे एवं इस के बिन्दु संख्या-9 में वित्तीय प्रावधान फोरमुला-1 व फोरमुला-2 के अनुसार गणना कर जो भी अधिकतम परियोजना लागत दर्शायी जावे।	एनेक्सचर-1 के बिन्दु संख्या 1 से 14 तक पूर्ण रूप से भरकर उप वन संरक्षक द्वारा प्रमाणित कर दिया गया है एवं इस के बिन्दु संख्या-9 में वित्तीय प्रावधान फोरमुला-1 व फोरमुला-2 के अनुसार गणना कर ली गई है तथा अधिकतम परियोजना लागत दर्शायी जा चुकी है।
3	इस कार्यालय द्वारा जारी दिशा निर्देशों दिनांक 24.5.2019 के अनुसार WCP के 20% धनराशि RPACS के खाता संख्या 61087162999 IFSC Code SBIN0031510 में जमा कर प्राप्ति रसीद इस कार्यालय को प्रस्तुत करें।	प्रयोक्ता एजेन्सी द्वारा बैंक संख्या 00245671 राशि 57,07,000/- RPACS के खाता संख्या 61087162999 में जमा करवा दी गई है।



4	आवेदित खनन पट्टा क्षेत्र से 10 कि.मी. परिधि के दायरे में वन्यजीव/टाईगर रिजर्व या सेन्चूरी नहीं होने का पत्र उप वन संरक्षक, चित्तौड़गढ़ के द्वारा जारी कर WCP में संलग्न करें।	आवेदित खनन पट्टा क्षेत्र से 10 कि.मी. परिधि के दायरे में वन्यजीव/टाईगर रिजर्व या सेन्चूरी नहीं होने का प्रमाण पत्र उप वन संरक्षक, वन्यजीव चित्तौड़गढ़ के पत्र क्रमांक 2909 दिनांक 22.4.2021 प्रेषित किया गया है प्रति संलग्न है।
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संलग्न :- उपरोक्तानुसार

भवदीय

(सुगना राम जाट)

उप वन संरक्षक,

चित्तौड़गढ़

दिनांक :- 13.7.2021

क्रमांक :- एफ () सर्वे/उवस/2021-22/4090-91

प्रतिलिपि :-

1. प्रधान मुख्य वन संरक्षक एवं मुख्य वन्यजीव प्रतिपालक, अरण्य भवन, झालाना संस्थानिक क्षेत्र, राजस्थान, जयपुर।

✓ 2. Unit Head, J.K. Cement Works, (J.K. Cement, Nimbahera)

(सुगना राम जाट)

उप वन संरक्षक,

चित्तौड़गढ़



o/c
JK Cement LTD.

CIN : L17229UP1994PLC017199

ISO 9001:2015 | ISO 14001:2015 | ISO 45001:2018 | ISO 50001:2018 CERTIFIED COMPANY

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Fax : +91-1477-220027, 220049
E-mail : jkc.nbh@jkcement.com
Web : www.jkcement.com

J.K. Cement Works
Kailash Nagar - 312617, Nimbahera
Distt. Chittorgarh (Raj.) INDIA

NBH/PC/C-FO/21/

Date: 29.06.2021

To,
The Divisional Forest Officer
Chittorgarh, Rajasthan

Sub.: Regarding submission of desired documents sought by DFO, Chittorgarh for approval of combined Wildlife Conservation Plan for six Schedule-I species Viz. Indian Peafowl (*Pavo cristatus*), Panther (*Panthera pardus fusca*), Rusty Spotted Cat (*Prionailurus rubiginosus*), Indian Wolf (*Canis lupus pallipes*), Indian Monitor lizard (*Varanus bengalensis*) and Indian vulture (*Gyps indicus/ bengalensis*) for M/s J.K.Cement Works-Nimbahera, J K Cement Works-Mangrol, Nimbahera-Ahирра Limestone Mine (ML No.02/1997), Karunda Limestone Mine (ML No.03/2003), Maliakhara Limestone Mine (ML No.04/2003), Mangrol-Tilakhara Limestone Mine (ML No.07/1997) and Mangrol Limestone Mine (ML No.26/2008) in Tehsil Nimbahera, District - Chittorgarh, Rajasthan.

Reference: 1.DFO letter no.F () Survey/DFO/2021-22/3252, Chittorgarh, Dated 10.06.2021.
2.PCCF Letter No. F.11(419) DEV-II/ PCCF-CWLW/2020-21/4, Jaipur, Dated 04.01.2021.

Respected Sir,

Kindly refer to the above subject matter and referred letter, we are enclosing herewith pointwise reply as under: -

Point No.1: Submission of TOR letters granted by the Ministry of Environment, Forest and Climate Change, Govt of India.

Compliance: Copy of TOR Letters of above projects granted by MOEF &CC has been submitted vide letter no. NBH/PC/C/EC/112020-21, dated 21/01/2021.

Point No.2: Submission of duly filled annexure-1 from point no 1 to 14 & calculation of financial outlay in point no.9 as per the formula-1 & 2 and duly authenticated by DFO.

Compliance: Dully filled Annexure-I (Sr. No. 1 to 14) has been submitted with financial outlay according to formula 1 and 2. Financial outlay of formula-2 is enclosed herewith for Rs. 285.35 lakh in Annexure-1 as mention in letter received from your office dated 10.06.2021.

Corporate & Registered Office : Kamla Tower, Kanpur-208001, (U. P.) INDIA
Phone : +91-512-2371478 to 81 **Fax :** 2399854 **E-mail :** ho.grey@jkcement.com

J. K. Cement Works, Nimbahera
J. K. Cement Works Mangrol
J. K. Cement Works, Gotan
J. K. Cement Works, Jharli

J. K. Power, Bamania
J. K. Cement Works, Muddapur
J. K. White Cement Works, Gotan
J. K. White, Katni





JK Cement LTD.

CIN : L17229UP1994PLC017199

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J.K. Cement Works
Kailash Nagar - 312617, Nimbahera
Distt. Chittorgarh (Raj.) INDIA

Point No.3: Deposition of 20% amount of WCP as per the CWLW guidelines dated 24th May 2019 and submit the receipt.

Compliance: Receipt of amount 57.07 Lakh deposited into account of RPACS on dated 28.06.2021, Jaipur, (20% of 285.35 Lakh, approved cost of Wilf life conservation plan) enclosed as Annexure-2.

Point No.4: Submission of certificate from the DFO Chittorgarh for non-existence of Wildlife Sanctuary /Tiger Reserve or sanctuary within the 10 Km radius of the Projects.

Compliance: A copy of NOC for no Wildlife Sanctuary/ Tiger Reserve or Sanctuary present in the 10 Km radius of the above project issued by DFO Chittorgarh, enclosed as Annexure-3.

Thanking You,

Yours Faithfully,

J.K. Cement Works, Nimbahera

R.B.M. Tripathi
(President(O)& Unit Head)

R.B.M. TRIPATHI
UNIT HEAD
J. K. Cement Works
Nimbahera, Mangrol (Raj.)

Enclosed as above

Copy to: The Principal Chief Conservator of Forests,
Chief Wildlife Warden (CWLW), Jaipur, Rajasthan

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1-07-2021
D



Corporate & Registered Office : Kamla Tower, Kanpur-208001, (U. P.) INDIA
Phone : +91-512-2371478 to 81 Fax : 2399854 E-mail : ho.grey@jkcement.com

J. K. Cement Works, Nimbahera
J. K. Cement Works Mangrol
J. K. Cement Works, Gotan
J. K. Cement Works, Jharli

J. K. Power, Bamania
J. K. Cement Works, Muddapur
J. K. White Cement Works, Gotan
J. K. White, Katni



राजस्थान सरकार

कार्यालय उप वन संरक्षक, चित्तौड़गढ़ (राज.)

(वन विभाग परिसर, प्रताप सर्किल, चित्तौड़गढ़-312001; Ph&Fax :01472-294001; email : dcf.chltor.forest@rajasthan.gov.in)

क्रमांक :- एफ () सर्वे/उवस/2021-22/ 3252

दिनांक :- 10.6.2021

निमित्त,

Unit Head,
J.K. Cement Works,
(J.K. Cement, Nimbahera)

विषय :- Request for approval of combined Wildlife Conservation Plan for Six Scheduled-I species Viz. Indian peafowl (*Pavo cristatus*) & Panther (*Panthera pardus fusca*), Rusty-spotted cat (*Prionailurus rubiginosus*), Indian wolf (*Canis lupus pallipes*) Indian Monitor Lizard (*Varanus bengalensis*) and Indian Vulture (*Gyps indicus/gyps bengaliensis*) proposed by J.K. Cement Works(J.K. Cement, Nimbahera, J.K. Mangrol Cement plant, Alurpura Limestone Mine, Karunda Limestone Mine, Maliakhera Limestone Mine, Mangrol Kimestone mine and Mangrol- Tilakhera Limestone Mine) Tehsil- Nimbahera, Dist- Chittorgarh (Rajasthan).

प्रसंग :- प्रधान मुख्य वन संरक्षक एवं मुख्य वन्यजीव प्रतिपालक, अरण्य भवन, झालाना संस्थानिक क्षेत्र, राजस्थान, जयपुर का पत्र क्रमांक एफ.11(419) विकास-II/मुवजीप्र/2020-21/4-6 दिनांक 4.1.2021 एवं आपका पत्र क्रमांक 484 दिनांक 19.1.2021 एवं 1793 दिनांक 17.3.2021 के क्रम में।

महोदय,

उपरोक्त विषयान्तर्गत लेख है, कि प्रासंगिक पत्र द्वारा Wildlife Conservation Plan में लगाए गए आक्षेपों की पूर्ति हेतु आपको इस कार्यालय के पत्र क्रमांक 335 दिनांक 19.1.2021 से लिखा गया। आपके द्वारा दिनांक 21.1.2021 को प्रस्तुत प्रत्युत्तर का परिक्षण करने पर पाया गया कि आप द्वारा प्रेषित Wildlife Conservation Plan 285.35 लाख का प्रेषित किया गया है, किन्तु RPACS में राशि 13.07 लाख ही जमा करवाया जाना प्रस्तावित किया गया है।

अतः आप प्रधान मुख्य वन संरक्षक एवं मुख्य वन्यजीव प्रतिपालक, राजस्थान जयपुर के प्रासंगिक पत्र के आक्षेप संख्या 3 अनुसार Wildlife Conservation Plan की पूर्ण लागत 285.35 लाख रु. का 20% राशि RPACS में जमा करवाया जाना सुनिश्चित करें। आपकी सुविधा हेतु खाता संख्या विवरण के लिए प्रासंगिक पत्र की छाया प्रति संलग्न प्रेषित है।

संलग्न :- उपरोक्तानुसार

(सुगना राम जाट)
उप वन संरक्षक,
चित्तौड़गढ़

कार्यालय प्रधान मुख्य वन संरक्षक एवं मुख्य वन्य जीव प्रतिपालक, अरण्य
भवन, झालाना संस्थानिक क्षेत्र, राजस्थान, जयपुर

फोन नम्बर: 0141-2700151

ई-मेल: cwlw.raj@gmail.com

क्रमांक : एफ.11(419)विकास-II/मुवजीप्र/2020-21/4
निमित्त,

दिनांक : 14-01-2021

सम्भागीय मुख्य वन संरक्षक,
उदयपुर।

विषय :- Request for approval of combined wildlife conservation plan for six scheduled I species Viz. Indian peafowl (Pavo Cristatus) and Panther (Panthera pardus fusca), Rusty-spotted cat (prionailurus rubiginosus, Indian wolf (Cains lupus pallipes) Indian Monitor Lizard (Varanus bengalensis) and Indian Vulture (gyps indicus/gypts bengaliensis) proposed by J.K. Cement works Nimbahera, J.K. Cement Works Mangrol Ahirpura Limestone Mine, Mangrol Limestone Mine and Mangrol-Tilakhera Limestone Mine) Tehsil-Nimbahera, District-Chittorgarh (Raj.).

संदर्भ:- उप वन संरक्षक(एफ.सी.ए.) कार्यालय प्रधान मुख्य वन संरक्षक (हॉफ) के पत्रांक 2967 एवं आपका पत्रांक 5002 दिनांक 24.09.2020 के क्रम में।

महोदय,

विषयान्तर्गत संदर्भित पत्र के क्रम में लेख है कि इस कार्यालय के पत्रांक 6451-6483 दिनांक 24.05.2019 के अनुसार वाईल्डलाईफ कंजर्वेशन प्लान मूल ही लौटाकर निम्नांकित आक्षेप की पूर्ति कर भिजवायें :-

1. पर्यावरण एवं जलवायु परिवर्तन मंत्रालय केन्द्र सरकार/राज्य सरकार द्वारा जारी ToR पत्र की प्रति संलग्न कर प्रस्तुत करें।
2. एनेक्सर-1 के बिन्दु संख्या 1 से 14 तक पूर्ण रूप से भरकर उप वन संरक्षक द्वारा प्रमाणित कराया जावे एवं इस के बिन्दु संख्या-9 में वित्तीय प्रावधान फोरमूला-1 व फोरमूला-2 के अनुसार गणना कर जो भी अधिकतम परियोजना लागत दर्शायी जावे।
3. इस कार्यालय द्वारा जारी दिशा निर्देशों दिनांक 24.05.2019 के अनुसार WCP के 20% धनराशि RPACS के खाता संख्या 61087162999 IFS Code SBIN0031510 में जमा कर प्राप्ति रसीद इस कार्यालय को प्रस्तुत करें।
4. आवेदित खनन पट्टा क्षेत्र से 10 कि.मी. परिधि के दायरे में वन्यजीव अभयारण्य/टाईगर रिजर्व या सेन्चुरी नही होने का पत्र उप वन संरक्षक, चित्तौड़गढ़ के द्वारा जारी कर WCP में संलग्न करें।

उपरोक्तानुसार पालना के पश्चात् स्वीकृति जारी की जायेगी।

संलग्न :- उपरोक्तानुसार,
(मूल प्रस्ताव 2 प्रतियों में)

PCA
8/1/21

140
12/1/21

भवदीय,

(एम.एल. मीना)

प्रधान मुख्य वन संरक्षक एवं मुख्य
वन्यजीव प्रतिपालक,
राजस्थान, जयपुर

क्रमांक : एफ.11(419)विकास-II/मुवजीप्र/2020-21/

दिनांक :

प्रतिलिपि : निम्न को सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित है :-

1. उप वन संरक्षक, चित्तौड़गढ़।
2. Unit Head M/s J.K. Cement works Nimbahera, District-Chittorgarh (Raj.).

1. प्रधान मुख्य वन संरक्षक
एवं मुख्य वन्यजीव प्रतिपालक,
राजस्थान, जयपुर

PROJECT:- J.K. CEMENT WORKS NIMBAHERA, J.K. CEMENT WORKS MANGROL, NIMBAHERA-AHIRPURA LIMESTONE MINE, KARUNDA LIMESTONE MINE, MALAKHERA LIMESTONE MINE, MANGROL LIMESTONE MINE AND MANGROL-TILAKHERA LIMESTONE MINE
 APPLICANT:- J. K. CEMENT WORKS
 DOCUMENT NO.- COMBINED WILDLIFE CONSERVATION PLAN

Financial outlay of WCP 285.35 Lakh for combined wildlife conservation plan for J.K. CEMENT WORKS NIMBAHERA, J.K. CEMENT WORKS MANGROL, NIMBAHERA-AHIRPURA LIMESTONE MINE, KARUNDA LIMESTONE MINE, MALAKHERA LIMESTONE MINE, MANGROL LIMESTONE MINE AND MANGROL-TILAKHERA LIMESTONE MINE, YEAR 2021

S.No	Activities	Year Wise Fund Allocation (in Lakhs)										Total
		1 st	2 nd	3 rd	4 th	5 th	6 th	7 th	8 th	9 th	10 th	
1	Habitat improvement & mitigative measures (Food, Water, shelter, Movement etc) and measures to reduce/minimize the human-animal conflict (50% of total outlay of WCP = 142.67 lacs.)											
1a	Plantation including maintenance in forest area and buffer zone in consultation with DFO Chittorgarh suitable for peafowl and other birds	-	5	5	7	7	10	10	15	15	14.67	88.67
1b	Rejuvenation of existing water bodies in forest area	-	5	5	5	6	6	6	7	7	7	45
1.	Awareness and extension (Forest staff will also be invited for various activities to ensure Participation) 10 % of total outlay of WCP = 28.53 lacs)											
2a	Provision of Awareness and educational programme for wildlife, biodiversity significance at school level, village level and Gram Panchayat level in consultation of forest department.	-	2	2	2	3	3	3	4	4	5.54	28.53
3	Support for Forest Department for monitoring, rescue & rehabilitation of wildlife Veterinary care, animal health, rescue, tools and equipment etc. (10 % of total outlay of WCP = 28.53 lacs)											
3a	Provision for necessary Veterinary medicine and rescue etc	-	2	2	2	3	3	3	4	4	5.54	28.53
4	Contribution towards conservation of wildlife in Pas (to be deposited in RPACS) Wetland Development, Research & Monitoring – Wildlife, census of wildlife etc (10 % of total outlay of WCP = 28.53 lacs)											
4a	Provision for Research and monitoring etc.	28.53	-	-	-	-	-	-	-	-	-	28.53
5	Administration Cost for processing inspection etc (to be deposited in RPACS) (10 % of total outlay of WCP = 28.53 lacs)											
5a	Administration Cost for processing inspection etc	28.53	-	-	-	-	-	-	-	-	-	28.53
6	Miscellaneous including Eco-Development and capacity building (10 % of total outlay of WCP = 28.53 lacs)											
6a	Miscellaneous including Eco-Development and capacity building	-	2	2	2	3	3	3	4	4	5.54	28.53
	TOTAL FOR WCP FOR TOR PROJECTS	57.06	16	16	18	22	25	25	34	34	38.29	285.35



ENKAY ENVIRO SERVICES PVT. LTD., JAIPUR

उप वन संरक्षक
चित्तौड़गढ़

JK Cement LTD

R.B.M. TRIPATHI

UNIT HEAD

J. K. Cement Works
Nimbahera, Mangrol, Ahirpura

[Signature]

ANNEXURE-2**M/s JK Cement Works Nimbahera,**

Deposition of 20% amount of WCP as per the CWLW guidelines dated 24th May 2019,

Details are under

Post Date	Remitter Branch	Description	Cheque No.	Debit Amount(Rs.)
28/06/2021	NIMBAHERA	CHQ TRANSFER PRINCIPAL CHIEF IDIBR52021062823940774	00245671	5707000.00


R.B.M. TRIPATHI
UNIT HEAD
J. K. Cement Works
Nimbahera, Mangrol (Raj.)

कार्यालय उप वन संरक्षक, वन्यजीव, चित्तौड़गढ़

Phone No. 01472-244915.

E-mail ID - dcfwlchittorgarh@gmail.com

क्रमांक : एफ() सर्वे/उवस/वजी/2020-21/

दिनांक:

निमित्त

उप वन संरक्षक

चित्तौड़गढ़

विषय :- Request for approval of combined wildlife conservation plan for Scheduled-I species Viz, Indian Peafowl (*Pavo cristatus*) & Panther (*Panthera Pardus fusca*), Rusty-spotted cat (*Prionailurus rubiginosus*), Indian wolf (*Canis lupus pallipes*) Indian Monitor Lizard (*Varanus bengalensis*) and Indian vulture (*Gyps indicus/gyps bengaliensis*) proposed by J.K. Cement Works(J.K. Cement Nimbahera, J.K. Mangrol Cement Plant, Ahirpura Limestone Mine, Karunda Limestone Mine, Malikhera Limestone Mine, Mangrol Limestone Mine, Mangrol-Tilakhera Limestone Mine) Tehsil-Nimbahera, Dist-Chittorgarh (Rajasthan)

प्रसंग :- आपका पत्र क्रमांक 2050 दिनांक 01.04.2021 के कम में।

महोदय,

उपरोक्त विषयान्तर्गत प्रासंगिक पत्र के कम में निवेदन है कि प्रधान मुख्य वन संरक्षक एवं मुख्य वन्यजीव प्रतिपालक राजस्थान जयपुर के पत्रांक एफ 11(419)विकास-ग/मुवजीप्र/2020-21/5-6 दिनांक 4.1.2021 में उल्लेखित बिन्दु संख्या 4 अनुसार मैसर्स जे.के. सीमेन्ट वर्क्स के निम्नांकित खनन पट्टा एवं सीमेन्ट प्लांट इस कार्यालय अधिनस्थ आने वाले बस्सी एवं सीतामाता वन्यजीव अभयारण्य के 10 किमी. परिधि में स्थित नहीं है-

S. No.	M.L. No./ Plant name	Name of Lease/Plant
1	J.K. Cement Works-Nimbahera	J.K. Cement Works-Nimbahera
2	J K Cement Works- Mangrol	J K Cement Works- Mangrol
3	ML No. 02/1997	Ahirpura Limestone Mine
4	ML No. 03/2003	Karunda Limestone Mine
5	ML. No. 04/2003	Malikhera Limestone Mine
6	ML No. 07/1997	Mangrol-Tilakhera Limestone Mine
7	ML No. 26/2008	Mangrol Limestone Mine

भवदीय

(डॉ. टी. मोहनराज)

उप वन संरक्षक

वन्यजीव, चित्तौड़गढ़

क्रमांक : एफ() सर्वे/उवस/वजी/2020-21/ 2910

दिनांक : 22.04.2021

प्रतिलिपि : मैसर्स जे.के. सीमेन्ट वर्क्स, कैलाश नगर, निम्बाहेड़ा, जिला-चित्तौड़गढ़ को सूचनार्थ प्रेषित है।

(डॉ. टी. मोहनराज)

उप वन संरक्षक

वन्यजीव, चित्तौड़गढ़

UTR Number	IDIBR52021062823940774		
Value Date:	28/06/2021		
Amount	5707000.00	INR	
Related Ref.No:		Commission	0

Beneficiary Details

Beneficiary A/C: 61087162999
 Benef. Name And Address:
 PRINCIPAL CHIEF CONSERVATOR OF
 FORESTS WILD LIFE

Remitting Customer Details

Account Number: 00000021411544392
 Remitter's Name And Address:
 M/s. J K CEMENT LIMITED
 J K CEMENT LTD
 KAMLA TOWER
 KANPUR Kanpur M Corp O

Beneficiary bank/branch

IFSC Code: SBIN0031510

Details of Payment:

RTGS

Sender's To Receiver Information

Error Code

Sender IFSC Code IDIB000N598

Close



J.K. Cement Works, Nimbahera
Fugitive Emission Monitoring Report
April '2021 - September '2021

Annexure-1

S.No.	Month/Year	SPM (µg/m3)			
		NEAR COAL YARD-1	NEAR LIMESTONE CRUSHING SITE-1	NEAR STACKER RECLAIMER-1	NEAR GYPSUM YARD-1
1	Apr-21	1120.5	2268.9	2293.3	1716.4
2	May-21	1326.3	2391.2	2421.8	1918.1
3	Jun-21	1777.1	1781.4	2850.4	2927.9
4	Jul-21	1533.9	1693.7	2412.0	2021.9
5	Aug-21	1455.9	2068.2	3229.1	2498.2
6	Sep-21	1811.0	2218.1	2940.5	1862.0

J.K. Cement WORKS, Nimbahera (RAJ)
22 MW CPP Fugitive Emission Monitoring Report
April '2021 - September '2021
 (ALL VALUES IN MICROGRAMS / CUBIC METER)

Month/Year	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21
NEAR COAL YARD OF 22 MW CPP	1196.4	1398.7	1657.7	1214.5	1644.2	1471.1



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



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

RSPCB

ISO 9001:2015

OHSAS 18001:2007

JDA/UDH

Office : E-65, Chitrangan Marg,
C-Scheme, Jaipur - 302001, Rajasthan
Phone : +91 6377210064, 9414077379,
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. :	TC502521400001660	Date :	03-07-2021
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Industry
Type of Sample :	Fugitive Emission Quality Monitoring	Date of Sample Collection/Monitoring :	11-06-2021
Point of Collection :	Near Coal Yard (Cement Plant)	Date of Sample Receipt :	13-06-2021
Date of Test :	13-06-2021 to 02-07-2021	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	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
1	Suspended Particulate Matter [microgram/m3]	1058.16	IS 5182 (Part 4) : 1999 RA 2019

Notes :-

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

Puran
Puran Mal Yogi
Senior Analyst

Rajesh
Rajesh Maheshwar
Authorized Signatory
(Report No: TC502521400001660)



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



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

RSPCB

ISO 9001:2015

OHSAS 18001:2007

JDA/UDH

Office : E-65, Chitrangan Marg,
C-Scheme, Jaipur - 302001, Rajasthan
Phone : +91 6377210064, 9414077379,
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. :	TC502521400001661	Date :	03-07-2021
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Industry
Type of Sample :	Fugitive Emission Quality Monitoring	Date of Sample Collection/Monitoring :	11-06-2021
Point of Collection :	Near Limestone Crushing Site	Date of Sample Receipt :	13-06-2021
Date of Test :	13-06-2021 to 02-07-2021	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	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
1	Suspended Particulate Matter [microgram/m ³]	2676.53	IS 5182 (Part 4) : 1999 RA 2019

Notes :-

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

Puran Mal Yogi
Puran Mal Yogi
Senior Analyst

Rajesh Manesnwan
Rajesh Manesnwan
Authorized Signatory
(Report No: TC502521400001661)



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



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

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

TEST REPORT

Report No./ULR No. :	TC502521400001662	Date :	03-07-2021
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Industry
Type of Sample :	Fugitive Emission Quality Monitoring	Date of Sample Collection/Monitoring :	11-06-2021
Point of Collection :	Near Stacker @ Reclaimer	Date of Sample Receipt :	13-06-2021
Date of Test :	13-06-2021 to 02-07-2021	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	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
1	Suspended Particulate Matter [microgram/m3]	1752.13	IS 5182 (Part 4) : 1999 RA 2019

Notes :-

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

Puran Mal Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: TC502521400001662)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502521400001663	Date :	03-07-2021
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Industry
Type of Sample :	Fugitive Emission Quality Monitoring	Date of Sample Collection/Monitoring :	10-06-2021
Point of Collection :	Near Gypsum Yard	Date of Sample Receipt :	13-06-2021
Date of Test :	13-06-2021 to 02-07-2021	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	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
1	Suspended Particulate Matter [microgram/m3]	1484.7	IS 5182 (Part 4) : 1999 RA 2019

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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwan
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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502521400001664	Date :	03-07-2021
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Industry
Type of Sample :	Fugitive Emission Quality Monitoring	Date of Sample Collection/Monitoring :	10-06-2021
Point of Collection :	Near Coal Yard (Cement Plant)	Date of Sample Receipt :	13-06-2021
Date of Test :	13-06-2021 to 02-07-2021	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	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
1	Suspended Particulate Matter [microgram/m ³]	1187.33	IS 5182 (Part 4) : 1999 RA 2019

Notes :-

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Puran Mal Yogi
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Rajesh Maheshwan
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Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502521400002789	Date :	12-10-2021
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Fugitive Emission Quality Monitoring	Date of Sample Collection/Monitoring :	25-09-2021
Point of Collection :	Near Coal Yard (Cement Plant)	Date of Receipt :	04-10-2021
Date of Test/Analysis :	04-10-2021 to 12-10-2021	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
1	Suspended Particulate Matter [microgram/m3]	618.69	IS 5182 (Part 4) : 1999 RA 2019

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Puran Mal Yogi
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Rajeshwar
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Email : director@teamtesthouse.com,
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TEST REPORT

Report No./ULR No. :	TC502521400002790	Date :	12-10-2021
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Fugitive Emission Quality Monitoring	Date of Sample Collection/Monitoring :	25-09-2021
Point of Collection :	Near Limestone Crushing Site	Date of Receipt :	04-10-2021
Date of Test/Analysis :	04-10-2021 to 12-10-2021	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
1	Suspended Particulate Matter [microgram/m3]	572.29	IS 5182 (Part 4) : 1999 RA 2019

Notes :-

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TEST REPORT

Report No./ULR No. :	TC502521400002791	Date :	12-10-2021
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Fugitive Emission Quality Monitoring	Date of Sample Collection/Monitoring :	25-09-2021
Point of Collection :	Near Stacker @ Reclaimer	Date of Receipt :	04-10-2021
Date of Test/Analysis :	04-10-2021 to 12-10-2021	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
1	Suspended Particulate Matter [microgram/m3]	809.27	IS 5182 (Part 4) : 1999 RA 2019

Notes :-

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TEST REPORT

Report No./ULR No. :	TC502521400002792	Date :	12-10-2021
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Fugitive Emission Quality Monitoring	Date of Sample Collection/Monitoring :	25-09-2021
Point of Collection :	Near Gypsum Yard	Date of Receipt :	04-10-2021
Date of Test/Analysis :	04-10-2021 to 12-10-2021	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
1	Suspended Particulate Matter [microgram/m3]	736.46	IS 5182 (Part 4) : 1999 RA 2019

Notes :-

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TEST REPORT

Report No./ULR No. :	TC502521400002793	Date :	12-10-2021
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Fugitive Emission Quality Monitoring	Date of Sample Collection/Monitoring :	25-09-2021
Point of Collection :	Near Coal Yard (power Plant)	Date of Receipt :	04-10-2021
Date of Test/Analysis :	04-10-2021 to 12-10-2021	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
1	Suspended Particulate Matter [microgram/m3]	707.68	IS 5182 (Part 4) : 1999 RA 2019

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Puran Mal Yogi
Senior Analyst


Authorized Signatory
(Report No: TC502521400002793)

Annexure-2

J.K. Cement WORKS, NIMBAHERA (RAJ)								
DATA SHEET FOR PARTICULATE MATTER EMISSION FROM POINT SOURCE								
HALF YEARLY REPORT FY-2021-22 (April' 2021 to September' 2021)								
DATE	NAME OF THE STACK / DUCT ATTACHED WITH UNIT	CROSS SECTIONAL AREA OF DUCT (M ²)	STACK GASES TEMP. (°K)	STACK GASES VELOCITY (M / Sec.)	FLOW OF GASES IN STACK (NM ³ /Sec.)	DUST CONC. (Mg/NM ³)	MEAN DUST CONC. (Mg/NM ³)	EMISSION RATE (Ts/DAY)
April'2021								
01.04.2021	L.S. CRUSHER (B.F.)	0.26	304	7.07	1.80	16.6	18.3	0.003
07.04.2021	L.S. CRUSHER (B.F.)	0.26	303	6.89	1.76	20.0		0.003
13.04.2021	L.S. CRUSHER (B.F.)	0.26	306	6.75	1.71	13.6		0.002
22.04.2021	L.S. CRUSHER (B.F.)	0.26	302	7.38	1.89	23.1		0.004
May '2021								
05.05.2021	L.S. CRUSHER (B.F.)	0.26	309	7.62	1.91	14.0	11.9	0.002
10.05.2021	L.S. CRUSHER (B.F.)	0.26	305	7.41	1.88	9.8		0.002
STOPPED	L.S. CRUSHER (B.F.)	Not in operation						
	L.S. CRUSHER (B.F.)							
June'2021								
05.06.2021	L.S. CRUSHER (B.F.)	0.26	320	6.33	1.53	17.7	17.2	0.002
10.06.2021	L.S. CRUSHER (B.F.)	0.26	324	5.74	1.37	13.9		0.002
18.06.2021	L.S. CRUSHER (B.F.)	0.26	332	6.65	1.55	18.1		0.002
26.06.2021	L.S. CRUSHER (B.F.)	0.26	329	6.90	1.62	19.1		0.003
July'2021								
01.07.2021	L.S. CRUSHER (B.F.)	0.26	328	8.25	1.95	16.8	16.9	0.003
08.07.2021	L.S. CRUSHER (B.F.)	0.26	326	7.66	1.82	19.3		0.003
17.07.2021	L.S. CRUSHER (B.F.)	0.26	330	7.88	1.85	19.6		0.003
22.07.2021	L.S. CRUSHER (B.F.)	0.26	331	8.97	2.10	12.0		0.002
August'2021								
02.08.2021	L.S. CRUSHER (B.F.)	0.26	325	6.77	1.61	20.1	18.2	0.003
10.08.2021	L.S. CRUSHER (B.F.)	0.26	328	7.26	1.71	18.8		0.003
16.08.2021	L.S. CRUSHER (B.F.)	0.26	327	8.08	1.91	17.6		0.003
23.08.2021	L.S. CRUSHER (B.F.)	0.26	326	9.59	2.28	16.4		0.003
September'2021								
04.09.2021	L.S. CRUSHER (B.F.)	0.26	324	8.43	2.02	16.0	14.6	0.003
09.09.2021	L.S. CRUSHER (B.F.)	0.26	323	7.87	1.89	17.4		0.003
18.09.2021	L.S. CRUSHER (B.F.)	0.26	321	8.83	2.13	10.3		0.002
STOPPED		Not in operation						
April'2021								
03.04.2021	KILN No.1 (Bag House)	4.90	421	17.39	46.78	17.9	18.9	0.093
08.04.2021	KILN No.1 (Bag House)	4.90	426	17.25	45.85	12.5		0.064
16.04.2021	KILN No.1 (Bag House)	4.90	423	17.10	45.78	20.5		0.105
21.04.2021	KILN No.1 (Bag House)	4.90	420	17.27	46.56	24.5		0.127
May '2021								
STOPPED	KILN No.1 (Bag House)	Not in operation						
June'2021								
02.06.2021	KILN No.1 (Bag House)	4.90	416	16.13	43.91	16.40	16.9	0.080
09.06.2021	KILN No.1 (Bag House)	4.90	399	16.42	46.60	19.80		0.103
15.06.2021	KILN No.1 (Bag House)	4.90	413	16.10	44.14	15.10		0.074
21.06.2021	KILN No.1 (Bag House)	4.90	401	16.41	46.34	16.30		0.084
July'2021								
02.07.2021	KILN No.1 (Bag House)	4.90	409	15.79	56.37	17.4	16.5	0.085
07.07.2021	KILN No.1 (Bag House)	4.90	405	14.69	52.96	17.7		0.081
15.07.2021	KILN No.1 (Bag House)	4.90	402	15.05	54.67	14.8		0.070
21.07.2021	KILN No.1 (Bag House)	4.90	398	15.45	56.68	16.0		0.078
August'2021								
03.08.2021	KILN No.1 (Bag House)	4.90	413	14.89	52.64	19.6	19.2	0.089
09.08.2021	KILN No.1 (Bag House)	4.90	411	15.01	53.33	17.8		0.082
17.08.2021	KILN No.1 (Bag House)	4.90	408	15.58	55.76	19.2		0.092
23.08.2021	KILN No.1 (Bag House)	4.90	404	14.02	50.67	20.2		0.088
September'2021								
STOPPED	KILN No.1 (Bag House)	Not in operation						
21.09.2021	KILN No.1 (Bag House)	4.90	441	13.81	45.73	18.80	17.2	0.074
28.09.2021	KILN No.1 (Bag House)	4.90	446	13.45	44.04	15.60		0.059

April'2021								
05.04.2021	KILN No. 2 (Bag house)	3.80	431	14.07	36.97	21.40	19.4	0.068
12.04.2021	KILN No. 2 (Bag house)	3.80	428	17.44	46.14	18.00		0.072
19.04.2021	KILN No. 2 (Bag house)	3.80	427	16.84	44.66	13.30		0.051
29.04.2021	KILN No. 2 (Bag house)	3.80	425	16.00	42.63	24.80		0.091
May '2021								
STOPPED	KILN No. 2 (Bag house)	Not in operation						
June'2021								
03.06.2021	KILN No. 2 (Bag house)	3.80	420	13.86	37.37	19.1	14.1	0.062
10.06.2021	KILN No. 2 (Bag house)	3.80	418	16.23	43.97	12.9		0.049
16.06.2021	KILN No. 2 (Bag house)	3.80	399	15.00	42.57	13.1		0.048
23.06.2021	KILN No. 2 (Bag house)	3.80	411	14.36	39.57	11.3		0.039
July'2021								
03.07.2021	KILN No. 2 (Bag house)	3.80	411	15.73	43.34	16.20	14.9	0.061
09.07.2021	KILN No. 2 (Bag house)	3.80	413	15.36	42.12	15.70		0.057
16.07.2021	KILN No. 2 (Bag house)	3.80	402	15.46	43.55	13.70		0.052
22.07.2021	KILN No. 2 (Bag house)	3.80	408	16.07	44.60	14.00		0.054
August'2021								
04.08.2021	KILN No. 2 (Bag house)	3.80	417	14.80	40.19	19.10	17.3	0.066
11.08.2021	KILN No. 2 (Bag house)	3.80	424	15.46	41.29	18.70		0.067
19.08.2021	KILN No. 2 (Bag house)	3.80	409	15.85	43.88	17.20		0.065
25.08.2021	KILN No. 2 (Bag house)	3.80	411	16.13	44.44	14.10		0.054
September'2021								
02.09.2021	KILN No. 2 (Bag house)	3.80	436	14.62	37.97	12.8	12.3	0.042
08.09.2021	KILN No. 2 (Bag house)	3.80	433	14.97	39.15	13.5		0.046
14.09.2021	KILN No. 2 (Bag house)	3.80	425	15.58	41.51	10.5		0.038
STOPPED	KILN No. 2 (Bag house)	Not in operation						
April'2021								
01.04.2021	KILN No. 3 (Bag House)	3.80	432	17.23	45.16	22.3	15.7	0.087
06.04.2021	KILN No. 3 (Bag House)	3.80	435	17.63	45.89	17.6		0.070
15.04.2021	KILN No. 3 (Bag House)	3.80	438	17.50	45.24	12.9		0.050
24.04.2021	KILN No. 3 (Bag House)	3.80	433	17.30	45.24	10.1		0.039
May '2021								
05.05.2021	KILN No. 3 (Bag House)	3.80	440	17.68	45.50	15.2	17.4	0.060
11.05.2021	KILN No. 3 (Bag House)	3.80	435	17.72	46.13	19.5		0.078
STOPPED								
June'2021								
STOPPED	KILN No. 3 (Bag House)	not in operation						
July'2021								
STOPPED	KILN No. 3 (Bag House)	Not in operation						
August'2021								
STOPPED	KILN No. 3 (Bag House)	Not in operation						
September'2021								
STOPPED	KILN No. 3 (Bag House)	Not in operation						
April'2021								
05.04.2021	PRE-CALCINER (Bag House)	7.79	421	16.53	126.64	14.7	14.6	0.161
12.04.2021	PRE-CALCINER (Bag House)	7.79	426	16.82	127.19	12.7		0.140
20.04.2021	PRE-CALCINER (Bag House)	7.79	429	16.53	124.18	21.5		0.231
29.04.2021	PRE-CALCINER (Bag House)	7.79	423	16.22	120.30	9.3		0.097
May '2021								
04.05.2021	PRE-CALCINER (Bag House)	7.79	432	17.09	127.16	13.6	16.0	0.149
11.05.2021	PRE-CALCINER (Bag House)	7.79	434	16.93	125.16	18.4		0.199
STOPPED	PRE-CALCINER (Bag House)							
April'2021								
05.04.2021	FOLAX COOLER (E.S.P)	12.56	420	16.31	200.15	25.2	20.1	0.436
12.04.2021	FOLAX COOLER (E.S.P)	12.56	423	16.52	200.75	17.9		0.310
20.04.2021	FOLAX COOLER (E.S.P)	12.56	425	16.65	201.03	22.3		0.387

29.04.2021	FOLAX COOLER (E.S.P)	12.56	419	16.92	202.33	14.9		0.260
May '2021								
04.05.2021	FOLAX COOLER (E.S.P)	12.56	426	17.01	204.72	15.4	19.0	0.272
11.05.2021	FOLAX COOLER (E.S.P)	12.56	422	16.69	199.58	22.6		0.390
STOPPED	FOLAX COOLER (E.S.P)							
June'2021								
STOPPED	FOLAX COOLER (E.S.P)	Not in operation						
July'2021								
STOPPED	FOLAX COOLER (E.S.P)	Not in operation						
August'2021								
STOPPED	FOLAX COOLER (E.S.P)	Not in operation						
September'2021								
STOPPED	FOLAX COOLER (E.S.P)	Not in operation						
April'2021								
03.04.2021	COAL MILL - 1 (B.F.)	0.38	349	13.73	5.08	9.0	17.5	0.004
09.04.2021	COAL MILL - 1 (B.F.)	0.38	352	13.23	4.86	24.7		0.010
16.04.2021	COAL MILL - 1 (B.F.)	0.38	344	13.18	4.80	14.0		0.006
22.04.2021	COAL MILL - 1 (B.F.)	0.38	355	13.75	4.97	22.1		0.009
May '2021								
STOPPED	COAL MILL - 1 (B.F.)	Not in operation						
	COAL MILL - 1 (B.F.)							
	COAL MILL - 1 (B.F.)							
	COAL MILL - 1 (B.F.)							
June'2021								
02.06.2021	COAL MILL - 1 (B.F.)	0.38	335	13.16	4.89	12.8	15.9	0.005
08.06.2021	COAL MILL - 1 (B.F.)	0.38	344	13.08	4.82	16.6		0.007
14.06.2021	COAL MILL - 1 (B.F.)	0.38	350	13.30	4.95	15.4		0.007
21.06.2021	COAL MILL - 1 (B.F.)	0.38	334	13.34	4.99	18.7		0.008
July'2021								
02.07.2021	COAL MILL - 1 (B.F.)	0.38	336	14.14	5.28	15.7	15.6	0.007
07.07.2021	COAL MILL - 1 (B.F.)	0.38	345	14.89	5.58	15.4		0.007
16.07.2021	COAL MILL - 1 (B.F.)	0.38	341	13.72	5.11	15.6		0.007
21.07.2021	COAL MILL - 1 (B.F.)	0.38	335	13.46	5.05	15.5		0.007
August'2021								
03.08.2021	COAL MILL - 1 (B.F.)	0.38	338	14.00	5.27	13.1	13.8	0.006
12.08.2021	COAL MILL - 1 (B.F.)	0.38	347	14.28	5.35	14.2		0.007
19.08.2021	COAL MILL - 1 (B.F.)	0.38	337	14.02	5.27	14.3		0.007
24.08.2021	COAL MILL - 1 (B.F.)	0.38	339	12.93	4.85	13.4		0.006
September'2021								
STOPPED	COAL MILL - 1 (B.F.)	Not in operation						
22.09.2021	COAL MILL - 1 (B.F.)	0.38	339	13.04	4.86	13.7	12.9	0.006
27.09.2021	COAL MILL - 1 (B.F.)	0.38	344	13.44	4.99	12.1		0.005
April'2021								
02.04.2021	COAL MILL - 2 (B.F.)	0.38	349	13.73	5.08	9.0	17.5	0.004
09.04.2021	COAL MILL - 2 (B.F.)	0.38	352	13.23	4.86	24.7		0.010
13.04.2021	COAL MILL - 2 (B.F.)	0.38	344	13.18	4.80	14.0		0.006
21.04.2021	COAL MILL - 2 (B.F.)	0.38	355	13.75	4.97	22.1		0.009
May '2021								
STOPPED	COAL MILL - 2 (B.F.)	Not in operation						
	COAL MILL - 2 (B.F.)							
	COAL MILL - 2 (B.F.)							
	COAL MILL - 2 (B.F.)							
June'2021								
03.06.2021	COAL MILL - 2 (B.F.)	0.38	340	13.26	4.91	10.7	11.7	0.005
09.06.2021	COAL MILL - 2 (B.F.)	0.38	342	13.14	4.88	12.2		0.005
15.06.2021	COAL MILL - 2 (B.F.)	0.38	345	13.80	5.14	12.2		0.005
22.06.2021	COAL MILL - 2 (B.F.)	0.38	344	13.49	5.01	11.6		0.005

July'2021								
01.07.2021	COAL MILL - 2 (B.F.)	0.38	344	13.13	4.87	12.3	11.8	0.005
08.07.2021	COAL MILL - 2 (B.F.)	0.38	337	13.35	4.96	11.9		0.005
13.07.2021	COAL MILL - 2 (B.F.)	0.38	346	15.13	5.64	11.6		0.006
20.07.2021	COAL MILL - 2 (B.F.)	0.38	342	14.27	5.35	11.5		0.005
August'2021								
04.08.2021	COAL MILL - 2 (B.F.)	0.38	342	12.52	4.71	16.7	16.2	0.007
11.08.2021	COAL MILL - 2 (B.F.)	0.38	338	12.81	4.80	16.4		0.007
20.08.2021	COAL MILL - 2 (B.F.)	0.38	344	13.49	5.08	15.2		0.007
25.08.2021	COAL MILL - 2 (B.F.)	0.38	343	13.81	5.18	16.3		0.007
September'2021								
01.09.2021	COAL MILL - 2 (B.F.)	0.38	343	12.91	4.82	14.9	14.8	0.006
09.09.2021	COAL MILL - 2 (B.F.)	0.38	341	13.58	5.04	14.0		0.006
13.09.2021	COAL MILL - 2 (B.F.)	0.38	348	12.63	4.67	15.6		0.006
STOPPED	COAL MILL - 2 (B.F.)	not in operation						
April'2021								
05.04.2021	COAL MILL - 3 (B.F.)	0.38	341	12.82	4.74	12.2	16.4	0.005
14.04.2021	COAL MILL - 3 (B.F.)	0.38	346	13.12	4.81	20.4		0.008
19.04.2021	COAL MILL - 3 (B.F.)	0.38	349	12.75	4.64	18.0		0.007
17.04.2021	COAL MILL - 3 (B.F.)	0.38	354	13.37	4.84	14.8		0.006
May '2021								
05.05.2021	COAL MILL - 3 (B.F.)	0.38	354.00	13.48	4.92	16.9	14.6	0.007
11.05.2021	COAL MILL - 3 (B.F.)	0.38	349.00	13.12	4.73	12.2		0.005
STOPPED	COAL MILL - 3 (B.F.)	Not in operation						
June'2021								
STOPPED	COAL MILL - 3 (B.F.)	Not in operation						
July'2021								
STOPPED	COAL MILL - 3 (B.F.)	Not in operation						
August'2021								
STOPPED	COAL MILL - 3 (B.F.)	Not in operation						
September'2021								
STOPPED	COAL MILL - 3 (B.F.)	Not in operation						
April'2021								
05.04.2021	COAL MILL - 4 (BAG FILTER)	1.13	344	14.77	16.36	26.1	20.7	0.037
12.04.2021	COAL MILL - 4 (BAG FILTER)	1.13	351	14.26	15.59	14.9		0.020
19.04.2021	COAL MILL - 4 (BAG FILTER)	1.13	361	14.85	16.03	19.0		0.026
27.04.2021	COAL MILL - 4 (BAG FILTER)	1.13	354	14.85	15.93	22.8		0.031
May '2021								
04.05.2021	COAL MILL - 4 (BAG FILTER)	1.13	352.00	15.08	16.22	18.7	16.5	0.026
11.05.2021	COAL MILL - 4 (BAG FILTER)	1.13	355.00	14.82	16.10	14.2		0.020
STOPPED	COAL MILL - 4 (BAG FILTER)							
June'2021								
STOPPED	COAL MILL - 4 (BAG FILTER)	Not in operation						
July'2021								
STOPPED	COAL MILL - 4 (BAG FILTER)	Not in operation						
August'2021								
STOPPED	COAL MILL - 4 (BAG FILTER)	Not in operation						
September'2021								

STOPPED	COAL MILL - 4 (BAG FILTER)	Not in operation						
April'2021								
03.04.2021	CEMENT MILL - 1 (BAG FILTER)	0.28	345	13.90	3.80	19.9	17.2	0.007
09.04.2021	CEMENT MILL - 1 (BAG FILTER)	0.28	349	14.41	3.92	11.1		0.004
16.04.2021	CEMENT MILL - 1 (BAG FILTER)	0.28	354	15.26	4.12	22.1		0.008
24.04.2021	CEMENT MILL - 1 (BAG FILTER)	0.28	356	14.98	4.01	15.7		0.005
May '2021								
STOPPED	CEMENT MILL - 1 (BAG FILTER)	Not in operation						
June'2021								
STOPPED	CEMENT MILL - 1 (BAG FILTER)	STOPPED					14.8	
10.06.2021	CEMENT MILL - 1 (BAG FILTER)	0.28	350.00	13.80	3.78	14.6		0.005
21.06.2021	CEMENT MILL - 1 (BAG FILTER)	0.28	338.00	13.66	3.72	16.1		0.005
24.06.2021	CEMENT MILL - 1 (BAG FILTER)	0.28	335.00	13.41	3.64	13.80		0.004
July'2021								
STOPPED	CEMENT MILL - 1 (BAG FILTER)	Not in operation					15.6	
28.07.2021	CEMENT MILL - 1 (BAG FILTER)	0.28	341	13.77	3.80	15.6		0.092
August'2021								
STOPPED	CEMENT MILL - 1 (BAG FILTER)	Not in operation					16.1	
	CEMENT MILL - 1 (BAG FILTER)							
18.08.2021	CEMENT MILL - 1 (BAG FILTER)	0.28	335	13.65	3.80	16.0		0.005
24.08.2021	CEMENT MILL - 1 (BAG FILTER)	0.28	337	13.50	3.74	16.2		0.005
September'2021								
STOPPED	CEMENT MILL - 1 (BAG FILTER)	Not in operation						
	CEMENT MILL - 1 (BAG FILTER)							
	CEMENT MILL - 1 (BAG FILTER)							
	CEMENT MILL - 1 (BAG FILTER)							
April'2021								
01.04.2021	CEMENT MILL - 2 (BAG FILTER)	0.61	362.00	15.01	8.92	20.2	19.1	0.016
10.04.2021	CEMENT MILL - 2 (BAG FILTER)	0.61	349.00	15.15	8.91	15.3		0.012
17.04.2021	CEMENT MILL - 2 (BAG FILTER)	0.61	355.00	15.64	9.23	23.8		0.019
24.04.2021	CEMENT MILL - 2 (BAG FILTER)	0.61	361.00	15.13	8.82	16.9		0.013
May '2021								
STOPPED	CEMENT MILL - 2 (BAG FILTER)	Not in operation						
June'2021								
02.06.2021	CEMENT MILL - 2 (BAG FILTER)	0.61	355.00	15.24	9.08	9.4	14.9	0.007
09.06.2021	CEMENT MILL - 2 (BAG FILTER)	0.61	357.00	14.29	8.46	18.9		0.014
18.06.2021	CEMENT MILL - 2 (BAG FILTER)	0.61	353.00	16.04	9.47	18.4		0.015
22.06.2021	CEMENT MILL - 2 (BAG FILTER)	0.61	360.00	14.64	8.73	13.0		0.010
July'2021								
03.07.2021	CEMENT MILL - 2 (BAG FILTER)	0.61	352.00	13.69	8.19	15.8	14.7	0.011
07.07.2021	CEMENT MILL - 2 (BAG FILTER)	0.61	356.00	14.36	8.62	15.1		0.011
14.07.2021	CEMENT MILL - 2 (BAG FILTER)	0.61	353.00	13.15	7.86	16.5		0.011
19.07.2021	CEMENT MILL - 2 (BAG FILTER)	0.61	360.00	15.34	9.23	11.4		0.009
August'2021								
03.08.2021	CEMENT MILL - 2 (BAG FILTER)	0.61	352.00	13.18	7.96	18.8	18.0	0.013
13.08.2021	CEMENT MILL - 2 (BAG FILTER)	0.61	356.00	13.15	7.92	17.8		0.012
16.08.2021	CEMENT MILL - 2 (BAG FILTER)	0.61	353.00	14.50	8.76	16.7		0.013
27.08.2021	CEMENT MILL - 2 (BAG FILTER)	0.61	360.00	15.21	9.22	18.5		0.015
September'2021								
03.09.2021	CEMENT MILL - 2 (BAG FILTER)	0.61	354.00	12.84	7.68	14.3	13.2	0.009
09.09.2021	CEMENT MILL - 2 (BAG FILTER)	0.61	348.00	12.79	7.67	12.4		0.008
15.09.2021	CEMENT MILL - 2 (BAG FILTER)	0.61	350.00	13.60	8.11	13.1		0.009
24.09.2021	CEMENT MILL - 2 (BAG FILTER)	0.61	357.00	14.43	8.57	12.9		0.010
April'2021								
06.04.2021	CEMENT MILL - 3 (BAG FILTER)	0.50	360	15.34	7.48	24.4	21.6	0.016
12.04.2021	CEMENT MILL - 3 (BAG FILTER)	0.50	353	15.01	7.37	20.4		0.013
23.04.2021	CEMENT MILL - 3 (BAG FILTER)	0.50	361	15.73	7.60	23.4		0.015
30.04.2021	CEMENT MILL - 3 (BAG FILTER)	0.50	366	15.70	7.49	18.0		0.012

May '2021								
07.05.2021	CEMENT MILL - 3 (BAG FILTER)	0.50	368.00	15.61	7.56	16.5	19.7	0.011
14.05.2021	CEMENT MILL - 3 (BAG FILTER)	0.50	362.00	15.80	7.58	20.9		0.014
21.05.2021	CEMENT MILL - 3 (BAG FILTER)	0.50	356.00	15.44	7.65	23.0		0.015
26.05.2021	CEMENT MILL - 3 (BAG FILTER)	0.50	364.00	15.70	7.66	18.4		0.012
June'2021								
05.06.2021	CEMENT MILL - 3 (BAG FILTER)	0.50	360.00	14.15	6.88	13.7	13.8	0.008
11.06.2021	CEMENT MILL - 3 (BAG FILTER)	0.50	349.00	14.37	7.03	13.4		0.008
18.06.2021	CEMENT MILL - 3 (BAG FILTER)	0.50	361.00	15.46	7.54	14.9		0.010
22.06.2021	CEMENT MILL - 3 (BAG FILTER)	0.50	367.00	15.07	7.42	13.1		0.008
July'2021								
02.07.2021	CEMENT MILL - 3 (BAG FILTER)	0.50	356	13.77	6.76	16.4	14.0	0.010
10.07.2021	CEMENT MILL - 3 (BAG FILTER)	0.50	354	14.28	7.03	15.5		0.009
17.07.2021	CEMENT MILL - 3 (BAG FILTER)	0.50	356	13.72	6.78	12.8		0.007
19.07.2021	CEMENT MILL - 3 (BAG FILTER)	0.50	354	14.32	7.10	11.3		0.007
August'2021								
07.08.2021	CEMENT MILL - 3 (BAG FILTER)	0.50	357.00	14.24	7.06	17.3	16.3	0.011
12.08.2021	CEMENT MILL - 3 (BAG FILTER)	0.50	352.00	13.18	6.56	15.4		0.009
21.08.2021	CEMENT MILL - 3 (BAG FILTER)	0.50	351.00	13.77	6.87	14.0		0.008
28.08.2021	CEMENT MILL - 3 (BAG FILTER)	0.50	353.00	13.25	6.59	18.5		0.011
September'2021								
02.09.2021	CEMENT MILL - 3 (BAG FILTER)	0.50	355.00	13.24	6.52	14.8	15.3	0.008
06.09.2021	CEMENT MILL - 3 (BAG FILTER)	0.50	353.00	13.86	6.85	16.7		0.010
16.09.2021	CEMENT MILL - 3 (BAG FILTER)	0.50	350.00	14.15	6.95	15.0		0.009
25.09.2021	CEMENT MILL - 3 (BAG FILTER)	0.50	349.00	13.02	6.41	14.8		0.008
April'2021								
05.04.2021	CEMENT MILL - 4 (BAG FILTER)	0.63	352	15.58	9.50	15.4	18.4	0.013
13.04.2021	CEMENT MILL - 4 (BAG FILTER)	0.63	357	15.51	9.39	23.5		0.019
21.04.2021	CEMENT MILL - 4 (BAG FILTER)	0.63	361	16.00	9.60	13.3		0.011
30.04.2021	CEMENT MILL - 4 (BAG FILTER)	0.63	354	15.31	9.15	21.4		0.017
May '2021								
06.05.2021	CEMENT MILL - 4 (BAG FILTER)	0.63	360.00	15.57	9.46	11.0	16.3	0.009
14.05.2021	CEMENT MILL - 4 (BAG FILTER)	0.63	352.00	15.11	9.06	23.5		0.018
20.05.2021	CEMENT MILL - 4 (BAG FILTER)	0.63	356.00	15.03	9.28	16.8		0.013
28.05.2021	CEMENT MILL - 4 (BAG FILTER)	0.63	364.00	15.75	9.60	14.0		0.012
June'2021								
01.06.2021	CEMENT MILL - 4 (BAG FILTER)	0.63	352.00	14.66	9.05	10.5	12.7	0.008
08.06.2021	CEMENT MILL - 4 (BAG FILTER)	0.63	358.00	15.30	9.42	16.3		0.013
14.06.2021	CEMENT MILL - 4 (BAG FILTER)	0.63	350.00	15.35	9.39	11.4		0.009
23.06.2021	CEMENT MILL - 4 (BAG FILTER)	0.63	349.00	14.27	8.84	12.5		0.010
July'2021								
05.07.2021	CEMENT MILL - 4 (BAG FILTER)	0.63	352	14.66	9.05	12.5	12.5	0.010
12.07.2021	CEMENT MILL - 4 (BAG FILTER)	0.63	358	15.30	9.42	13.0		0.011
17.07.2021	CEMENT MILL - 4 (BAG FILTER)	0.63	350	15.35	9.39	12.2		0.010
24.07.2021	CEMENT MILL - 4 (BAG FILTER)	0.63	349	14.27	8.84	12.4		0.009
August'2021								
05.08.2021	CEMENT MILL - 4 (BAG FILTER)	0.63	352.00	13.18	8.22	16.4	15.1	0.012
14.08.2021	CEMENT MILL - 4 (BAG FILTER)	0.63	358.00	14.60	9.14	14.4		0.011
17.08.2021	CEMENT MILL - 4 (BAG FILTER)	0.63	350.00	14.29	8.97	12.7		0.010
26.08.2021	CEMENT MILL - 4 (BAG FILTER)	0.63	349.00	14.13	8.81	16.7		0.013
September'2021								
01.09.2021	CEMENT MILL - 4 (BAG FILTER)	0.63	347.00	13.54	8.36	16.6	14.8	0.012
08.09.2021	CEMENT MILL - 4 (BAG FILTER)	0.63	354.00	14.32	8.87	14.3		0.011
17.09.2021	CEMENT MILL - 4 (BAG FILTER)	0.63	355.00	14.30	8.77	16.1		0.012
25.09.2021	CEMENT MILL - 4 (BAG FILTER)	0.63	346.00	13.72	8.42	12.0		0.009

J.K. Cement WORKS, Nimbahera (RAJ)
22 MW THERMAL POWER PLANT
Stack monitoring results (April '2021 - September '2021)

S.No.	Location/Month	SPM (Mg/Nm3)					
		Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21
1	Stack attached with Boiler	18.1	19.7	20.6	18.5	22.0	18.0
2	Stack attached with Coal Handling system	13.6	15.6	13.8	15.3	17.3	19.6
3	Stack attached with Coal transfer point	15.9	17.3	16.8	16.5	15.3	18.5

L.K. Cement WORKS, NIMBAHERA (RAJ) (1.3 MMTPA HRP)
DATA SHEET FOR PARTICULATE MATTER EMISSION FROM POINT SOURCE
HALF YEARLY REPORT FY-2021-22 (April' 2021 to September' 2021)

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)
Apr-21								
05.04.2021	HYRADULIC ROLLER PRESS- Bag House	7.07	389	9.3	50.5	21.4	20.8	0.093
13.04.2021		7.07	397	10.0	52.9	26.1		0.119
21.04.2021		7.07	393	9.0	48.1	15.7		0.065
30.04.2021		7.07	402	9.7	50.5	19.8		0.086
May-21								
08.05.2021	HYRADULIC ROLLER PRESS- Bag House	7.07	407	9.8	50.6	17.7	16.8	0.077
14.05.2021		7.07	397	10.0	52.9	22.3		0.102
20.05.2021		7.07	391	9.4	50.8	12.8		0.056
26.05.2021		7.07	399	9.6	50.7	14.5		0.064
Jun-21								
03.06.2021	HYRADULIC ROLLER PRESS- Bag House	7.07	379	8.2	45.6	13.8	13.7	0.054
11.06.2021		7.07	384	8.4	46.3	12.6		0.050
18.06.2021		7.07	381	8.8	48.8	12.0		0.051
24.06.2021		7.07	380	7.7	42.4	16.3		0.060
Jul-21								
05.07.2021	HYRADULIC ROLLER PRESS- Bag House	7.07	374	5.2	29.5	12.3	12.8	0.031
12.07.2021		7.07	372	6.3	35.9	12.9		0.040
24.07.2021		7.07	362	6.6	38.3	11.5		0.038
28.07.2021		7.07	364	5.9	34.3	14.3		0.042
Aug-21								
05.08.2021	HYRADULIC ROLLER PRESS- Bag House	7.07	371	7.9	44.6	17.8	15.6	0.069
11.08.2021		7.07	375	6.1	34.5	16.4		0.049
20.08.2021		7.07	359	7.6	44.8	15.0		0.058
24.08.2021		7.07	370	7.4	41.9	13.0		0.047
Sep-21								
08.09.2021	HYRADULIC ROLLER PRESS- Bag House	7.07	378	8.7	48.5	17.6	17.3	0.074
17.09.2021		7.07	387	9.4	51.1	16.1		0.071
25.09.2021		7.07	371	10.9	61.9	18.3		0.098
28.09.2021		7.07	367	8.1	46.3	17.3		0.069

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

HALF YEARLY REPORT (April - Sept '21)

FY (2021-22)

S.No.	LOCATION	Month					
			PM10	PM2.5	SO2	NOx	CO
1	NEAR MAIN SECURITY GATE	Apr-21	62.2	47.0	11.2	23.7	703
2		May-21	59.3	48.3	13.4	20.7	713
3		Jun-21	57.1	46.4	14.3	24.2	610
4		Jul-21	39.9	25.6	12.5	22.0	498
5		Aug-21	34.1	15.1	14.1	27.2	453
6		Sep-21	31.0	13.4	12.6	26.4	438
Half Yearly Average			47.3	32.7	13.0	24.0	569
1	NEAR NEW J.K. FACTORY GATE	Apr-21	58.9	42.7	18.1	29.2	653
2		May-21	57.0	44.4	16.1	24.2	683
3		Jun-21	58.4	43.0	12.1	22.2	669
4		Jul-21	50.0	31.4	10.6	20.0	540
5		Aug-21	31.5	16.9	11.8	18.9	475
6		Sep-21	24.5	12.1	12.6	19.4	422
Half Yearly Average			46.7	31.8	13.6	22.3	574
1	NEAR MINE GATE	Apr-21	62.1	44.2	16.2	28.1	558
2		May-21	60.1	42.4	14.1	30.4	596
3		Jun-21	63.5	43.4	11.9	27.1	627
4		Jul-21	51.2	36.4	12.0	26.0	531
5		Aug-21	27.3	16.4	11.5	21.2	418
6		Sep-21	24.6	12.6	13.7	9.9	431
Half Yearly Average			48.1	32.6	13.2	23.8	527
1	NEAR THERMAL POWER PLANT GATE	Apr-21	69.4	51.8	19.1	31.4	753
2		May-21	61.4	48.9	17.4	28.3	733
3		Jun-21	68.0	46.1	16.2	25.9	736
4		Jul-21	56.0	31.9	15.0	23.5	683
5		Aug-21	40.9	21.7	15.4	23.1	587
6		Sep-21	36.5	18.7	14.6	20.5	505
Half Yearly Average			55.4	36.5	16.3	25.5	666



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

TEST REPORT

Report No./ULR No. :	TC502521500000812	Date :	03-07-2021
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Stack Emission Level	Date of Sample Collection/Monitoring :	10-06-2021
Point of Collection :	22 MW Thermal Power Plant	Date of Sample Receipt :	13-06-2021
Date of Test :	13-06-2021 to 02-07-2021	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	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	Particulate matter [mg/Nm ³]	18.82	IS 11255 (Part 1):1985 Reaffirmed 2014	50
2	Sulphur Dioxide [mg/Nm ³]	169	IS 11255(Part 2) :1985 Reaffirmed 2014	-
3	Oxides of Nitrogen [mg/Nm ³]	188	IS 11255 (Part 7) :1985 Redffirmed 2012	-

Notes :-

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

Puran
Puran Mal Yogi
Senior Analyst

Rajesh
Rajesh Maheshwan
Authorized Signatory
(Report No: TC502521500000812)



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TEST REPORT

Report No./ULR No. :	500000812	Date :	03-07-2021
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Stack Emission Level	Date of Sample Collection/Monitoring :	10-06-2021
Point of Collection :	22 MW Thermal Power Plant	Date of Sample Receipt :	13-06-2021
Date of Test :	13-06-2021 to 02-07-2021	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	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	Mercury [mg/Nm ³]	BDL(<0.001)	USEPA 29	-

Notes :-

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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwan
Authorized Signatory
(Report No: 500000812)



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TEST REPORT

Report No./ULR No. :	TC502521500000813	Date :	03-07-2021
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Industry
Type of Sample :	Stack Emission Level	Date of Sample Collection/Monitoring :	10-06-2021
Point of Collection :	Limestone Crusher	Date of Receipt :	23-06-2021
Date of Test/Analysis :	23-06-2021 to 03-07-2021	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	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	Particulate matter [mg/Nm ³]	16.62	IS 11255 (Part 1):1985 Reaffirmed 2014	30

Notes :-

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Purni Mal Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: TC502521500000813)



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TEST REPORT

Report No./ULR No. :	TC502521500000814	Date :	03-07-2021
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Industry
Type of Sample :	Stack Emission Level	Date of Sample Collection/Monitoring :	10-06-2021
Point of Collection :	Kiln-1	Date of Sample Receipt :	13-06-2021
Date of Test :	13-06-2021 to 02-07-2021	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	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	Particulate matter [mg/Nm ³]	5.35	IS 11255 (Part 1):1985 Reaffirmed 2014	30
2	Sulphur Dioxide [mg/Nm ³]	44.8	IS 11255(Part 2) :1985 Reaffirmed 2014	-
3	Oxides of Nitrogen [mg/Nm ³]	193	IS 11255 (Part 7) :1985 Redffirmed 2012	-

Notes :-

NOTE : Opacity Meter Reading during Monitoring Time(09:30AM-10:00AM) was 4.59

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Prahlad Yogi
Senior Analyst

Rajesh Maheshwan
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(Report No: TC502521500000814)



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TEST REPORT

Report No./ULR No. :	TC502521500000815	Date :	03-07-2021
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Industry
Type of Sample :	Stack Emission Level	Date of Sample Collection/Monitoring :	10-06-2021
Point of Collection :	Kiln 2	Date of Receipt :	23-06-2021
Date of Test/Analysis :	23-06-2021 to 03-07-2021	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	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	Particulate matter [mg/Nm ³]	4.68	IS 11255 (Part 1):1985 Reaffirmed 2014	30
2	Sulphur Dioxide [mg/Nm ³]	46.93	IS 11255(Part 2) :1985 Reaffirmed 2014	-
3	Oxides of Nitrogen [mg/Nm ³]	365	IS 11255 (Part 7) :1985 Redfirmed 2012	-

Notes :-

NOTE : Opacity Meter Reading during Monitoring Time(10:30AM-11:15AM) was 4.92

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Rajesh
Rajesh Maheshwan
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TEST REPORT

Report No./ULR No. :	TC502521500000816	Date :	03-07-2021
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Industry
Type of Sample :	Stack Emission Level	Date of Sample Collection/Monitoring :	24-04-2021
Point of Collection :	Kiln 3	Date of Sample Receipt :	26-04-2021
Date of Test :	26-04-2021 to 27-04-2021	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	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	Particulate matter [mg/Nm ³]	5.97	IS 11255 (Part 1):1985 Reaffirmed 2014	30
2	Sulphur Dioxide [mg/Nm ³]	BDL(<2.0)	IS 11255(Part 2) :1985 Reaffirmed 2014	-
3	Oxides of Nitrogen [mg/Nm ³]	345	IS 11255 (Part 7) :1985 Redfirmed 2012	-

Notes :-

NOTE : Opacity Meter Reading during Monitoring Time(16:00PM-16:45PM) was 6.57

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Rajesh
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TEST REPORT

Report No./ULR No. :	TC502521500000817	Date :	03-07-2021
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Industry
Type of Sample :	Stack Emission Level	Date of Sample Collection/Monitoring :	24-04-2021
Point of Collection :	Precalciner Stack	Date of Sample Receipt :	26-04-2021
Date of Test :	26-04-2021 to 27-04-2021	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	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	Particulate matter [mg/Nm ³]	7.45	IS 11255 (Part 1):1985 Reaffirmed 2014	30
2	Sulphur Dioxide [mg/Nm ³]	BDL(<2.0)	IS 11255(Part 2) :1985 Reaffirmed 2014	-
3	Oxides of Nitrogen [mg/Nm ³]	690	IS 11255 (Part 7) :1985 Redffirmed 2012	-

Notes :-

NOTE : Opacity Meter Reading during Monitoring Time(10:00AM-10:45AM) was 7.20

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Puran Mal Yogi
Senior Analyst

Rajesh
Rajesh Maheshwan
Authorized Signatory
(Report No: TC502521500000817)



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TEST REPORT

Report No./ULR No. :	TC502521500000818	Date :	03-07-2021
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Industry
Type of Sample :	Stack Emission Level	Date of Sample Collection/Monitoring :	24-04-2021
Point of Collection :	Clinker Cooler Line _3	Date of Sample Receipt :	26-04-2021
Date of Test :	26-04-2021 to 27-04-2021	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	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	Particulate matter [mg/Nm ³]	18.58	IS 11255 (Part 1):1985 Reaffirmed 2014	30

Notes :-

NOTE : Opacity Meter Reading during Monitoring Time(11:15AM-12:00AM) was 19.70

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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwan
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(Report No: TC502521500000818)



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TEST REPORT

Report No./ULR No. :	TC502521500000819	Date :	03-07-2021
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan).	Type of Unit :	Industry
Type of Sample :	Stack Emission Level	Date of Sample Collection/Monitoring :	10-06-2021
Point of Collection :	Coal Mill-1	Date of Sample Receipt :	13-06-2021
Date of Test :	13-06-2021 to 02-07-2021	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	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	Particulate matter [mg/Nm ³]	4.14	IS 11255 (Part 1):1985 Reaffirmed 2014	30

Notes :-

NOTE : Opacity Meter Reading during Monitoring Time(13:00PM-13:30PM) was 2.59

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Rajesh Maheshwan
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TEST REPORT

Report No./ULR No. :	TC502521500000820	Date :	03-07-2021
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Industry
Type of Sample :	Stack Emission Level	Date of Sample Collection/Monitoring :	10-06-2021
Point of Collection :	Coal Mill-2	Date of Sample Receipt :	13-06-2021
Date of Test :	13-06-2021 to 02-07-2021	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	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	Particulate matter [mg/Nm ³]	10.15	IS 11255 (Part 1):1985 Reaffirmed 2014	30

Notes :-

NOTE : Opacity Meter Reading during Monitoring Time(14:00PM-14:30PM) was 9.07

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Puran
Puran Mal Yogi
Senior Analyst

Rajesh
Rajesh Maheshwan
Authorized Signatory
(Report No: TC502521500000820)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502521500000821	Date :	03-07-2021
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Industry
Type of Sample :	Stack Emission Level	Date of Sample Collection/Monitoring :	24-04-2021
Point of Collection :	Coal Mill-3	Date of Sample Receipt :	26-04-2021
Date of Test :	26-04-2021 to 27-04-2021	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	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	Particulate matter [mg/Nm ³]	10.23	IS 11255 (Part 1):1985 Reaffirmed 2014	30

Notes :-

NOTE : Opacity Meter Reading during Monitoring Time(13:00PM-13:45PM) was 10.74

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Purnan Mal Yogi
Senior Analyst

Rajesh Maheshwan
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(Report No: TC502521500000821)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502521500000822	Date :	03-07-2021
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Industry
Type of Sample :	Stack Emission Level	Date of Sample Collection/Monitoring :	24-04-2021
Point of Collection :	Coal Mill-4	Date of Sample Receipt :	26-04-2021
Date of Test :	26-04-2021 to 27-04-2021	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	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	Particulate matter [mg/Nm ³]	14.69	IS 11255 (Part 1):1985 Reaffirmed 2014	30

Notes :-

NOTE : Opacity Meter Reading during Monitoring Time(14:15PM-15:00PM) was 15.58

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Senior Analyst


Authorized Signatory
(Report No: TC502521500000822)



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TEST REPORT

Report No./ULR No. :	TC502521500000823	Date :	03-07-2021
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Industry
Type of Sample :	Stack Emission Level	Date of Sample Collection/Monitoring :	11-06-2021
Point of Collection :	Cement Mill-1	Date of Sample Receipt :	13-06-2021
Date of Test :	13-06-2021 to 02-07-2021	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	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	Particulate matter [mg/Nm ³]	5.03	IS 11255 (Part 1):1985 Reaffirmed 2014	30

Notes :-

NOTE : Opacity Meter Reading during Monitoring Time(09:30AM-10:15AM) was 5.28

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Prahlad Yogi
Senior Analyst


Rajesh Maheshwan
Authorized Signatory
(Report No: TC502521500000823)



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TEST REPORT

Report No./ULR No. :	TC502521500000824	Date :	03-07-2021
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Industry
Type of Sample :	Stack Emission Level	Date of Sample Collection/Monitoring :	11-06-2021
Point of Collection :	Cement Mill-2	Date of Sample Receipt :	13-06-2021
Date of Test :	13-06-2021 to 02-07-2021	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	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	Particulate matter [mg/Nm ³]	15.28	IS 11255 (Part 1):1985 Reaffirmed 2014	30

Notes :-

NOTE : Opacity Meter Reading during Monitoring Time(11:00PM-11:30PM) was 13.13

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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwan
Authorized Signatory
(Report No: TC502521500000824)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502521500000825	Date :	03-07-2021
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Industry
Type of Sample :	Stack Emission Level	Date of Sample Collection/Monitoring :	11-06-2021
Point of Collection :	Cement Mill-3	Date of Sample Receipt :	13-06-2021
Date of Test :	13-06-2021 to 02-07-2021	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	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	Particulate matter [mg/Nm ³]	9.72	IS 11255 (Part 1):1985 Reaffirmed 2014	30

Notes :-

NOTE : Opacity Meter Reading during Monitoring Time(12:00PM-12:30PM) was 10.12

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Purni Mal Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: TC502521500000825)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502521500000826	Date :	03-07-2021
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Industry
Type of Sample :	Stack Emission Level	Date of Sample Collection/Monitoring :	11-06-2021
Point of Collection :	Cement Mill-4	Date of Sample Receipt :	13-06-2021
Date of Test :	13-06-2021 to 02-07-2021	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	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	Particulate matter [mg/Nm ³]	9.93	IS 11255 (Part 1):1985 Reaffirmed 2014	30

Notes :-

NOTE : Opacity Meter Reading during Monitoring Time(13:00PM-13:30PM) was 8.68

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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwan
Authorized Signatory
(Report No: TC502521500000826)



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TEST REPORT

Report No./ULR No. :	TC502521500000827	Date :	03-07-2021
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Industry
Type of Sample :	Stack Emission Level	Date of Sample Collection/Monitoring :	11-06-2021
Point of Collection :	Hydraulic roller Press	Date of Sample Receipt :	13-06-2021
Date of Test :	13-06-2021 to 02-07-2021	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	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	Particulate matter [mg/Nm ³]	1.47	IS 11255 (Part 1):1985 Reaffirmed 2014	30

Notes :-

NOTE : Opacity Meter Reading during Monitoring Time(12:00PM-12:30PM) was 1.32

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Purn Mal Yogi
Senior Analyst

Rajesh Maheshwan
Authorized Signatory
(Report No: TC502521500000827)



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TEST REPORT

Report No./ULR No. :	SA/JKC/21-22/01	Date :	03-07-2021
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Industry
Type of Sample :	Stack Emission Level	Date of Sample Collection/Monitoring	11-06-2021
Point of Collection :	Coal Crusher Plant	Date of Sample Receipt :	13-06-2021
Date of Test :	13-06-2021 to 03-07-2021	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	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	Particulate matter [mg/Nm ³]	7.93	IS 11255 (Part 1):1985 Reaffirmed 2014	30

Notes :-

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Puran Mal Yogi
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Rajesh Maheshwan
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(Report No: SA/JKC/21-22/01)



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TEST REPORT

Report No./ULR No. :	TC502521500001348	Date :	12-10-2021
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Stack Emission Level	Date of Sample Collection/Monitoring :	18-09-2021
Point of Collection :	Limestone Crusher	Date of Receipt :	04-10-2021
Date of Test/Analysis :	04-10-2021 to 12-10-2021	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
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	Particulate matter [mg/Nm ³]	13.06	IS 11255 (Part 1):1985 Reaffirmed 2014	30

Notes :-

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Puran Mal Yogi
Puran Mal Yogi
Senior Analyst

Rajesh Maheshwan
Rajesh Maheshwan
Authorized Signatory
(Report No: TC502521500001348)



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TEST REPORT

Report No./ULR No. :	TC502521500001349	Date :	12-10-2021
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Stack Emission Level	Date of Sample Collection/Monitoring :	25-09-2021
Point of Collection :	Kin-1	Date of Receipt :	04-10-2021
Date of Test/Analysis :	04-10-2021 to 12-10-2021	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
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	Particulate matter [mg/Nm ³]	23.62	IS 11255 (Part 1):1985 Reaffirmed 2014	30
2	Sulphur Dioxide [mg/Nm ³]	52	IS 11255(Part 2) :1985 Reaffirmed 2014	-
3	Oxides of Nitrogen [mg/Nm ³]	492	IS 11255 (Part 7) :1985 Redffirmed 2012	-

Notes :-

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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwari
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(Report No: TC502521500001349)



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TEST REPORT

Report No./ULR No. :	TC502521500001350	Date :	12-10-2021
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Stack Emission Level	Date of Sample Collection/Monitoring :	17-09-2021
Point of Collection :	Kin 2	Date of Receipt :	04-10-2021
Date of Test/Analysis :	04-10-2021 to 12-10-2021	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
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	Particulate matter [mg/Nm ³]	10.55	IS 11255 (Part 1):1985 Reaffirmed 2014	30
2	Sulphur Dioxide [mg/Nm ³]	38	IS 11255(Part 2) :1985 Reaffirmed 2014	-
3	Oxides of Nitrogen [mg/Nm ³]	584	IS 11255 (Part 7) :1985 Redffirmed 2012	-

Notes :-

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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwan
Authorized Signatory
(Report No: TC502521500001350)



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TEST REPORT

Report No./ULR No. :	TC502521500001354	Date :	12-10-2021
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Industry
Type of Sample :	Stack Emission Level	Date of Sample Collection/Monitoring :	25-09-2021
Point of Collection :	Coal Mill-1	Date of Receipt :	04-10-2021
Date of Test/Analysis :	04-10-2021 to 12-10-2021	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
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	Particulate matter [mg/Nm ³]	10.66	IS 11255 (Part 1):1985 Reaffirmed 2014	30

Notes :-

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Puran Mal Yogi
Senior Analyst


Rakesh Maheshwari
Authorized Signatory
(Report No: TC502521500001354)



TEAM TEST HOUSE

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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502521500001355	Date :	12-10-2021
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Stack Emission Level	Date of Sample Collection/Monitoring :	17-09-2021
Point of Collection :	Coal Mill-2	Date of Receipt :	04-10-2021
Date of Test/Analysis :	04-10-2021 to 12-10-2021	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
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	Particulate matter [mg/Nm ³]	8.55	IS 11255 (Part 1):1985 Reaffirmed 2014	30

Notes :-

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Purni Mal Yogi
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: TC502521500001355)



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TEST REPORT

Report No./ULR No. :	TC502521500001359	Date :	12-10-2021
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Stack Emission Level	Date of Sample Collection/Monitoring :	24-09-2021
Point of Collection :	Cement Mill-2	Date of Receipt :	04-10-2021
Date of Test/Analysis :	04-10-2021 to 12-10-2021	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
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	Particulate matter [mg/Nm ³]	12.89	IS 11255 (Part 1):1985 Reaffirmed 2014	30

Notes :-

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Puran Mal Yogi
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: TC502521500001359)



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TEST REPORT

Report No./ULR No. :	TC502521500001360	Date :	12-10-2021
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Stack Emission Level	Date of Sample Collection/Monitoring :	24-09-2021
Point of Collection :	Cement Mill-3	Date of Receipt :	04-10-2021
Date of Test/Analysis :	04-10-2021 to 12-10-2021	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
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	Particulate matter [mg/Nm ³]	13.87	IS 11255 (Part 1):1985 Reaffirmed 2014	30

Notes :-

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Puran Mal Yogi
Senior Analyst

Rajesh Maneshwar
Authorized Signatory
(Report No: TC502521500001360)



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TEST REPORT

Report No./ULR No. :	TC502521500001361	Date :	12-10-2021
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Stack Emission Level	Date of Sample Collection/Monitoring :	24-09-2021
Point of Collection :	Cement Mill-4	Date of Receipt :	04-10-2021
Date of Test/Analysis :	04-10-2021 to 12-10-2021	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
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	Particulate matter [mg/Nm3]	19.26	IS 11255 (Part 1):1985 Reaffirmed 2014	30

Notes :-

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Purnan Lal Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory

(Report No: TC502521500001361)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502521500001362	Date :	12-10-2021
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Stack Emission Level	Date of Sample Collection/Monitoring :	24-09-2021
Point of Collection :	Hydraulic roller Press	Date of Receipt :	04-10-2021
Date of Test/Analysis :	04-10-2021 to 12-10-2021	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
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	Particulate matter [mg/Nm ³]	21.58	IS 11255 (Part 1):1985 Reaffirmed 2014	30

Notes :-

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Purnima Singh
Senior Analyst


Rajesh Kumar
Authorized Signatory
(Report No: TC502521500001362)



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TEST REPORT

Report No./ULR No. :	TC502521500001363	Date :	12-10-2021
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Stack Emission Level	Date of Sample Collection/Monitoring :	17-09-2021
Point of Collection :	22 MW Thermal Power Plant	Date of Receipt :	04-10-2021
Date of Test/Analysis :	04-10-2021 to 12-10-2021	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
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	Particulate matter [mg/Nm ³]	18.12	IS 11255 (Part 1):1985 Reaffirmed 2014	50
2	Sulphur Dioxide [mg/Nm ³]	232	IS 11255(Part 2) :1985 Reaffirmed 2014	600
3	Oxides of Nitrogen [mg/Nm ³]	138	IS 11255 (Part 7) :1985 Redffirmed 2012	300
4	Mercury & its Compounds [mg/Nm ³]	0.005	USEPA method 29	0.03

Notes :-

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Senior Analyst

Authorized Signatory
(Report No: TC502521500001363)



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TEST REPORT

Report No.	TTH/SA/JKN/2021-22/01	Date :	25-10-2021
Issued To :	M/S J.K. Cement Works , Nimbahera Tehsil - Nimbahera,, District -Chittorgarh- 312617 (Rajasthan).	Type of Unit :	Cement Plant
Type of Sample :	Stack Emission Level	Date of Sample Collection/Monitori ng :	18-09-2021
Point of Collection :	Coal Crusher Plant	Date of Receipt :	04-10-2021
Date of Test/Analysis :	04-10-2021 to 12-10-2021	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
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	Particulate matter [mg/Nm ³]	25.4	IS 11255 (Part 1):1985 Reaffirmed 2014	30

Notes :-

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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwan
Authorized Signatory
(Report No: TTH/SA/JKN/2021-22/01)

J.K. Cement WORKS, Nimbahera (RAJ)

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

Month	HALF YEARLY REPORT (April - Sept '21) FY 2021-22							
	Main Security		Thermal Power		New JK Factory		Mines Office	
	Day	Night	Day	Night	Day	Night	Day	Night
Apr-21	67.1	51.4	62.2	51.1	64.3	52.7	63.4	51.9
May-21	68.4	53.9	64.4	54.2	66.1	54.7	64.2	52.3
Jun-21	65.2	54.6	63.2	53.4	62.6	56.2	67.5	56.6
Jul-21	66.9	54.8	63.2	59.2	64.2	58.4	62.1	56.2
Aug-21	64.2	55.3	62.0	58.6	65.1	54.7	61.9	52.2
Sep-21	67.1	56.8	68.2	58.1	63.7	54.9	64.6	51.7
Average	66.5	54.5	63.9	55.8	64.3	55.3	64.0	53.5

J.K. Cement WORKS, Nimbahera (RAJ)

Noise Monitoring Report

(April-21 to Sept-21)

(ALL VALUES IN dB)

Month	22 MW CPP		13.2 MW WHR	
	Day	Night	Day	Night
Apr-21	69.2	67.9	71.1	69.7
May-21	70.3	64.1	67.8	61.4
Jun-21	68.5	63.8	65.5	64.6
Jul-21	70.3	65.8	68.1	64.1
Aug-21	71.5	64.2	71.5	59.8
Sep-21	69.1	60.5	64.2	60.6



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TEST REPORT

Report No./ULR No. :	TC502521600001180	Date :	02-07-2021
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Industry
Type of Sample :	Ambient Noise Level Monitoring	Date of Sample Collection/Monitoring :	10-06-2021
Point of Collection :	Near Main Security Gate	Date of Sample Receipt :	13-06-2021
Date of Test :	13-06-2021 to 02-07-2021	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	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	Noise Level (Night Time) : Leq [dB(A)]	55.2	IS 9989	70
2	Noise Level (Day Time) : Leq [dB(A)]	66.4	IS 9989	75

Notes :-

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Senior Analyst

Authorized Signatory
(Report No: TC502521600001180)



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TEST REPORT

Report No./ULR No. :	TC502521600001181	Date :	02-07-2021
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Industry
Type of Sample :	Ambient Noise Level Monitoring	Date of Sample Collection/Monitoring :	10-06-2021
Point of Collection :	Near Thermal Power Plant	Date of Sample Receipt :	13-06-2021
Date of Test :	13-06-2021 to 02-07-2021	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	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	Noise Level (Night Time) : Leq [dB(A)]	53.1	IS 9989	70
2	Noise Level (Day Time) : Leq [dB(A)]	64.2	IS 9989	75

Notes :-

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Puran Mal Yogi
Senior Analyst

Prahlad Maheshwar
Authorized Signatory
(Report No: TC502521600001181)



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TEST REPORT

Report No./ULR No. :	TC502521600001182	Date :	02-07-2021
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Industry
Type of Sample :	Ambient Noise Level Monitoring	Date of Sample Collection/Monitoring :	10-06-2021
Point of Collection :	New J.k Factory Gate	Date of Sample Receipt :	13-06-2021
Date of Test :	13-06-2021 to 02-07-2021	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	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	Noise Level (Night Time) : Leq [dB(A)]	53.7	IS 9989	70
2	Noise Level (Day Time) : Leq [dB(A)]	64.6	IS 9989	75

Notes :-

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Puran Mal Yogi
Senior Analyst


Rajesh Maheshwan
Authorized Signatory
(Report No: TC502521600001182)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502521600001183	Date :	02-07-2021
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Industry
Type of Sample :	Ambient Noise Level Monitoring	Date of Sample Collection/Monitoring :	10-06-2021
Point of Collection :	Near Mine Gate	Date of Sample Receipt :	13-06-2021
Date of Test :	13-06-2021 to 02-07-2021	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	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	Noise Level (Night Time) : Leq [dB(A)]	51.8	IS 9989	70
2	Noise Level (Day Time) : Leq [dB(A)]	65.6	IS 9989	75

Notes :-

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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwan
Authorized Signatory
(Report No: TC502521600001183)



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TEST REPORT

Report No./ULR No. :	TC502521600002012	Date :	12-10-2021
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Ambient Noise Level Monitoring	Date of Sample Collection/Monitoring :	25-09-2021
Point of Collection :	Near Main Security Gate	Date of Receipt :	04-10-2021
Date of Test/Analysis :	04-10-2021 to 12-10-2021	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)]	53.7	IS 9989	70
2	Noise Level (Day Time) : Leq [dB(A)]	65.3	IS 9989	75

Notes :-

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Puran
Puran Mal Yogi
Senior Analyst

Rajesh
Rajesh Maheshwan
Authorized Signatory
(Report No: TC502521600002012)



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

TEST REPORT

Report No./ULR No. :	TC502521600002013	Date :	12-10-2021
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Ambient Noise Level Monitoring	Date of Sample Collection/Monitoring :	25-09-2021
Point of Collection :	Near Thermal Power Plant	Date of Receipt :	04-10-2021
Date of Test/Analysis :	04-10-2021 to 12-10-2021	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)]	56.3	IS 9989	70
2	Noise Level (Day Time) : Leq [dB(A)]	65.2	IS 9989	75

Notes :-

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Puran
Puran Mai Yogi
Senior Analyst

Rajesh
Rajesh Maheshwar
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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502521600002014	Date :	12-10-2021
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Ambient Noise Level Monitoring	Date of Sample Collection/Monitoring :	25-09-2021
Point of Collection :	New J.k Factory Gate	Date of Receipt :	04-10-2021
Date of Test/Analysis :	04-10-2021 to 12-10-2021	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)]	56.6	IS 9989	70
2	Noise Level (Day Time) : Leq [dB(A)]	64.7	IS 9989	75

Notes :-

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Pawan Maheshwari
Senior Analyst

Rajesh Maheshwari
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(Report No: TC502521600002014)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502521600002015	Date :	12-10-2021
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Ambient Noise Level Monitoring	Date of Sample Collection/Monitoring :	25-09-2021
Point of Collection :	Near Mine Gate	Date of Receipt :	04-10-2021
Date of Test/Analysis :	04-10-2021 to 12-10-2021	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	kishan murari
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Night Time) : Leq [dB(A)]	52.9	IS 9989	70
2	Noise Level (Day Time) : Leq [dB(A)]	60.6	IS 9989	75

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Purnan Kishan Yogi
Senior Analyst

Rajesh Maheshwari
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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502521100000931	Date :	02-06-2021
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera,, District - Chittorgarh (Rajasthan)	Type of Unit :	Cement Plant
Type of Sample :	Borewell Water	Date of Sample Collection/Monitoring :	14-05-2021
Point of Collection :	Borewell No. -01	Date of Receipt :	25-05-2021
Date of Test/Analysis :	25-05-2021 to 31-05-2021	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2Ltr.	Sample Collected By :	kishan murari
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983 RA 2017	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 2018	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7) : 2017 & (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	8.12	IS 3025 (Part 11) : 1983 RA 2017	6.5 to 8.5	-
6	Hardness (total) [mg/l]	350	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]	63.98	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00

Note:

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RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
9	Total Dissolved Solids [mg/l]	587	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
10	Calcium [mg/l]	116	IS 3025 (Part 40) : 1991 RA 2019	75.00	200.00
11	Magnesium [mg/l]	14.58	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]	57.42	IS 3025 (Part 24) : 1986 RA 2019	200.00	400.00
15	Nitrate [mg/l]	15.34	IS 3025 (Part 34) : 1988 RA 2019	45.00	-
16	Fluoride [mg/l]	0.67	IS 3025 (Part 60) : 2008 RA 2019	1.00	1.50
17	Cadmium [mg/l]	BDL (<0.001)	IS 3025 (Part 41) : 1992 RA 2019	0.003	-
18	Arsenic [mg/l]	BDL (<0.001)	IS 3025 (Part 37) : 1988 RA 2019	0.01	-
19	Lead [mg/l]	BDL (<0.01)	IS 3025 (Part 47) : 1994 RA 2019	0.01	-
20	Zinc [mg/l]	BDL (<0.01)	IS 3025 (Part 49) : 1994 RA 2019	5	15
21	Chromium [mg/l]	BDL (<0.01)	IS 3025 (Part 52) : 2003 RA 2019	0.05	-
22	Alkalinity - T [mg/l]	280	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]	0.52	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 [mg/l]	Not Detected	IS 5401 (Part 2) : 2012 RA 2018	Shall not be detectable in any 100 ml sample	-
27	E-Coli [mg/l]	Not Detected	IS 5887 (Part 1) : 1976 RA 2018	Shall not be detectable in any 100 ml sample	-
28	Iron [mg/l]	BDL (<0.001)	IS 3025 (Part 48) : 1994 RA 2019	0.001	-



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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	-
30	Residual free chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986 RA 2019	0.2	1.0
31	Phenolic Compound [mg/l]	BDL(<0.001)	APHA 2017 : 5530 C	0.001	0.002
32	Mineral oil [mg/l]	BDL(<0.5)	APHA 2017 : 5520 B	1.0	-
33	Anionic Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)	0.2	1.0
34	Cyanide as CN [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2019	0.05	-
35	Nickel [mg/l]	BDL (<0.01)	IS 3025 (Part 54) : 2003 RA 2019	0.02	-
36	Silver [mg/l]	BDL (<0.01)	APHA :2017 :3111- B	0.1	-
37	Ammonia [mg/l]	BDL(<0.1)	IS 3025 (Part 34) : 1988 RA 2019	0.5	-
38	Barium [mg/l]	BDL(<0.5)	IS 13428 (Annexure F)	0.7	-
39	Chloramines [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986 RA 2019	4.0	-
40	Molybdenum as Mo [mg/l]	BDL (<0.01)	APHA :2017 :3111- B	0.07	-

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Puran Mal Yogi
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: TC502521100000931)



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TEST REPORT

Report No./ULR No. :	100000931	Date :	02-06-2021
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera,, District - Chittorgarh (Rajasthan)	Type of Unit :	Cement Plant
Type of Sample :	Borewell Water	Date of Sample Collection/Monitoring :	14-05-2021
Point of Collection :	Tube Well No -01	Date of Receipt :	25-05-2021
Date of Test/Analysis :	25-05-2021 to 31-05-2021	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2Ltr.	Sample Collected By :	kishan murari
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
1	Polynuclear Aromatic Hydrocarbon [mg/l]	BDL (<0.0001)	APHA 2017 : 6440 B	0.0001	-
2	Pesticides [mg/l]	Not detected	TTH/Pes/01	-	-
3	Polychlorinated Biphenyls [mg/l]	BDL (<0.0001)	APHA 2017 : 6630 C	0.0005	-

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Purni Mal Yogi
Senior Analyst

Raresh Maheshwari
Authorized Signatory
(Report No: 100000931)

J.K. *Cement* WORKS, Nimbahera (RAJ)
Treated Domestic Effluent Analysis Report
HALF YEARLY REPORT (April - Sept '21)

S.No.	PARAMETER	Standards	April-21	May-21	June-21	July-21	August-21	September-21
1	pH	Between 5.5 to 9.0	7.74	7.80	7.85	7.60	7.70	7.56
2	Total Suspended solids	Not to exceed 100 mg/l	25.00	29.00	30.00	32.00	41.00	26.00
3	Chemical Oxygen Demand	Not to exceed 250 mg/l	46.00	39.00	124.03	62.00	66.00	137.98
4	Biological Oxygen Demand (3 days at 27 Degree C)	Not to exceed 30 mg/l	5.84	6.85	21.00	3.25	4.77	18.50
5	Oil & Grease	Not to exceed 10 mg/l	<2.0	<2.00	5.00	<2.0	<2.00	5.00
6	Ammonical Nitrogen (as N)	Not to exceed 50 mg/l	<0.15	0.25	11.20	<0.15	<0.22	14.29
7	Sulphide (as S)	Not to exceed 2.0 mg/l	<0.30	0.40	0.69	<0.30	<0.31	<0.1
8	Total Kjeldahl Nitrogen (as N)	Not to exceed 100 mg/l	0.64	0.78	17.36	0.35	0.56	18.52
9	Residual Chlorine	Not to exceed 1.0 mg/l	<0.1	<1.0	<0.1	<0.1	<0.1	<0.1



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502521200001072	Date :	03-07-2021
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Wastewater Sample	Date of Sample Collection/Monitoring :	11-06-2021
Point of Collection :	STP Kailash Nagar Colony	Date of Sample Receipt :	12-06-2021
Date of Test :	12-06-2021 to 02-07-2021	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]	30	APHA.2017:2540-D	100
2	Ammonical Nitrogen as N [mg/l]	11.20	APHA 2017 : 4500-NH3 C	50
3	Biochemical Oxygen Demand (BOD) [mg/l]	21	APHA 2017:5210-B	30
4	Chemical Oxygen Demand (COD) [mg/l]	124.03	APHA:2017 : 5220-C	250
5	pH	7.85	APHA:2017 : 4500 H+B	5.5 - 9.0
6	Sulphide as S [mg/l]	0.69	APHA. 2017 : 4500-S2-F	2
7	Total Kjeldahl Nitrogen (TKN) [mg/l]	17.36	APHA 2017 : 4500-Norg B	100
8	Oil & Grease [mg/l]	5	APHA 2017 : 5520 B	10

Note:

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RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
9	Total Nitrogen [mg/l]	9.52	APHA 2017 : 4500-Norg B	-
10	Residual Free Chlorine [mg/l]	BDL(<0.1)	APHA:2017 : 4500-Cl B	-

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Ratan Mal Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: TC502521200001072)



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TEST REPORT

Report No./ULR No. :	200001072	Date :	03-07-2021
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Wastewater Sample	Date of Sample Collection/Monitoring :	11-06-2021
Point of Collection :	STP Kailash Nagar Colony	Date of Sample Receipt :	12-06-2021
Date of Test :	12-06-2021 to 02-07-2021	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	Faecal coliform [MPN/100ml]	Not Detected	IS 1622 : 1981	-

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Puran Mal Yogi
Senior Analyst

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

TEST REPORT

Report No./ULR No. :	TC502521200001787	Date :	25-10-2021
Issued To :	M/S J.K. Cement Works, Nimbaheera Tehsil - Nimbaheera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Wastewater Sample	Date of Sample Collection/Monitoring :	25-09-2021
Point of Collection :	STP Kailash Nagar Colony	Date of Receipt :	04-10-2021
Date of Test/Analysis :	04-10-2021 to 14-10-2021	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	3 Ltr.	Sample Collected By :	kishan murari
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Total Suspended Solids [mg/l]	26	APHA.2017:2540-D	100
2	Ammonical Nitrogen as N [mg/l]	14.29	APHA 2017 : 4500-NH3 C	50
3	Biochemical Oxygen Demand (BOD) [mg/l]	18.5	APHA 2017:5210-B	30
4	Chemical Oxygen Demand (COD) [mg/l]	137.98	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]	18.52	APHA 2017 : 4500-Norg B	100
8	Oil & Grease [mg/l]	5	APHA 2017 : 5520 B	10
9	Total Nitrogen [mg/l]	11.36	APHA 2017 : 4500-Norg B	100
10	Residual Free Chlorine [mg/l]	BDL(<0.1)	APHA 2017 : 4500- Cl- B	1.0

Notes :-

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Sunil Kumar
Senior Analyst

K.N. Mukhopadhyay
Authorized Signatory

(Report No: TC502521200001787)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	200001787	Date :	25-10-2021
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Wastewater Sample	Date of Sample Collection/Monitoring :	25-09-2021
Point of Collection :	STP Kailash Nagar Colony	Date of Receipt :	04-10-2021
Date of Test/Analysis :	04-10-2021 to 14-10-2021	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	3 Ltr.	Sample Collected By :	kishan murari
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

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

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Sunil Kumar
Senior Analyst


K.N. Mukhopadhyay
Authorized Signatory
(Report No: 200001787)

J.K. Cement WORKS,Nimbahera (RAJ)
13.2 MW WASTE HEAT RECOVERY PLANT
 Outlet of Waste heat recovery plant
 (April '2021 - September ' 2021)

S.No.	MONTH/ PARAMETRS	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21
1	pH	7.60	7.80	7.88	Not in Operation		
2	Total Suspended Solids (TSS)	27.00	41.00	17.00			
3	Oil & Grease	2.00	<1.2	4.00			
4	Bio-Chemical Oxygen Demand (BOD) (3 Days at 270C)	12.30	6.30	10.40			
5	Chemical Oxygen Demand (COD)	67.50	85.00	71.81			
6	Chlorides (as Cl)	97.00	138.00	111.97			
7	Sulphates (as SO ₄)	108.00	152.00	84.55			
8	Phosphate	<0.30	<0.2	<0.1			
9	Iron (as Fe)	<0.01	<0.01	<0.01			
10	Total Chromium (as Cr)	<0.02	<0.01	<0.01			
11	Free Available chlorine	<0.1	<0.1	<0.1			
12	Copper as (Cu)	<0.01	<0.01	<0.01			
13	Zinc (Zn)	<0.02	<0.01	<0.01			
14	Total Residual Chlorine	<0.1	<0.1	<0.1			
15	Temperature	4°C higher than the intake water	4°C higher than the intake water	4°C higher than the intake water			



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

TEST REPORT

Report No./ULR No. :	TC502521200001071	Date :	03-07-2021
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Wastewater Sample	Date of Sample Collection/Monitoring :	11-06-2021
Point of Collection :	13.2 MW WHRS ETP	Date of Receipt :	23-06-2021
Date of Test/Analysis :	23-06-2021 to 03-07-2021	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]	17	APHA.2017:2540-D	100
2	Biochemical Oxygen Demand (BOD) [mg/l]	10.4	APHA 2017:5210-B	30
3	Chloride as Cl [mg/l]	111.97	APHA 2017 : 4500- Cl- B	-
4	Chemical Oxygen Demand (COD) [mg/l]	71.81	APHA:2017 : 5220-C	250
5	pH	7.88	APHA:2017 : 4500 H+B	6.5-8.5
6	Phosphate (total) as P [mg/l]	BDL(<0.1)	APHA 2017 : 4500-P C	5
7	Sulphate [mg/l]	84.55	APHA:2017 : 4500-SO4-E	-
8	Chromium Total [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	0.2

Note:

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

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
9	Copper [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	1.0
10	Iron [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	1.0
11	Zinc [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	1.0
12	Oil & Grease [mg/l]	4	APHA 2017 : 5520 B	10
13	Free available chlorine [mg/l]	BDL(<0.1)	APHA:2017 : 4500-CI B	0.5
14	Residual Free Chlorine [mg/l]	BDL(<0.1)	APHA:2017 : 4500-CI B	-

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Purnan Mal Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: TC502521200001071)



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TEST REPORT

Report No./ULR No. :	200001071	Date :	03-07-2021
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Wastewater Sample	Date of Sample Collection/Monitoring :	11-06-2021
Point of Collection :	13.2 MW WHRS ETP	Date of Receipt :	23-06-2021
Date of Test/Analysis :	23-06-2021 to 03-07-2021	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	Temperature [°C]	32	APHA 2017 :2550A	-

Notes :-

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Puran Mal Yogi
Senior Analyst


Rajesh Maheshwar
Authorized Signatory
(Report No: 200001071)



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TEST REPORT

Report No./ULR No. :	TC502521200001786	Date :	25-10-2021
Issued To :	M/S J.K. Cement Works, Nimbaheera Tehsil - Nimbaheera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Wastewater Sample	Date of Sample Collection/Monitoring :	25-09-2021
Point of Collection :	13.2 MW WHRS ETP	Date of Receipt :	04-10-2021
Date of Test/Analysis :	04-10-2021 to 14-10-2021	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	3 Ltr.	Sample Collected By :	kishan murari
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Total Suspended Solids [mg/l]	27	APHA.2017:2540-D	100
2	Biochemical Oxygen Demand (BOD) [mg/l]	11	APHA 2017:5210-B	30
3	Chloride as Cl [mg/l]	118.26	APHA 2017 : 4500- Cl- B	-
4	Chemical Oxygen Demand (COD) [mg/l]	78.4	APHA:2017 : 5220-C	250
5	pH	7.81	APHA:2017 : 4500 H+B	5.5 - 9.0
6	Phosphate (total) as P [mg/l]	BDL (<0.1)	APHA 2017 : 4500-P C	5
7	Sulphate [mg/l]	73.33	APHA:2017 : 4500-SO4-E	-
8	Chromium Total [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	2.0
9	Copper [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	3.0
10	Iron [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	3.0
11	Zinc [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	5.0
12	Oil & Grease [mg/l]	4	APHA 2017 : 5520 B	10
13	Free available chlorine [mg/l]	BDL(<0.1)	APHA 2017 : 4500- Cl- B	0.5
14	Residual Free Chlorine [mg/l]	BDL(<0.1)	APHA 2017 : 4500- Cl- B	0.5

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Sunil Kumar

K.N. Mukhopadhyay



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	200001786	Date :	25-10-2021
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Wastewater Sample	Date of Sample Collection/Monitoring :	25-09-2021
Point of Collection :	13.2 MW WHRS ETP	Date of Receipt :	04-10-2021
Date of Test/Analysis :	04-10-2021 to 14-10-2021	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	3 Ltr.	Sample Collected By :	kishan murari
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Temperature [°C]	28	APHA 2017 :2550A	-

Notes :-

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Sunil Kumar
Senior Analyst

K.N. Mukhopadhyay
Authorized Signatory
(Report No: 200001786)

J.K. Cement WORKS, Nimbahera (RAJ)

22 MW THERMAL POWER PLANT

Outlet of Power Plant

(April '2021 - September ' 2021)

S.No.	PARAMETERS/MONTH	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21
1	pH	7.40	7.60	7.88	7.80	7.40	7.92
2	Total Suspended Solids (TSS)	28.00	22.00	31.00	56.20	58.00	25.00
3	Bio-Chemical Oxygen Demand (BOD) (3 Days at 27 deg C)	5.80	6.70	9.20	4.60	5.20	8.33
4	Chemical Oxygen Demand (COD)	38.00	42.00	68.54	46.00	38.00	75.26
5	Oil & Grease	<1.3	<1.2	3.00	<1.2	<1.2	4.00
6	Chlorides	107.00	108.00	89.97	119.00	97.00	96.58
7	Sulphate	68.00	73.00	29.65	55.00	68.00	37.95
8	Temperature	4°C higher than the intake water	4°C higher than the intake water	4°C higher than the intake water	4°C higher than the intake water	4°C higher than the intake water	4°C higher than the intake water
9	Iron (Total)	0.02	0.01	<0.01	0.02	0.01	<0.01
10	Copper (total)	<0.02	<0.01	<0.01	<0.02	<0.01	<0.01
11	Phosphate (as PO ₄)	0.80	0.90	<0.1	0.65	0.64	<0.1
12	Zinc (as Zn)	<0.02	<0.02	0.05	<0.02	<0.02	0.07
13	Chromium (total)	<0.03	<0.06	<0.01	<0.02	<0.03	<0.01
14	Total Residual Chlorine	<0.1	<0.1	<0.1	<0.1	<0.1	0.10
15	Free available chlorine	<0.01	<0.01	<0.1	<0.01	<0.01	0.10



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502521200001070	Date :	03-07-2021
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Wastewater Sample	Date of Sample Collection/Monitoring :	11-06-2021
Point of Collection :	22 MW CPP-ETP	Date of Sample Receipt :	12-06-2021
Date of Test :	12-06-2021 to 02-07-2021	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	Biochemical Oxygen Demand (BOD) [mg/l]	9.2	APHA 2017:5210-B	30
3	Chloride as Cl [mg/l]	89.97	APHA 2017 : 4500- Cl- B	-
4	Chemical Oxygen Demand (COD) [mg/l]	68.54	APHA:2017 : 5220-C	250
5	pH	7.88	APHA:2017 : 4500 H+B	6.5-8.5
6	Phosphate (total) as P [mg/l]	BDL(<0.1)	APHA 2017 : 4500-P C	5
7	Sulphate [mg/l]	29.65	APHA:2017 : 4500-SO4-E	-
8	Chromium Total [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	0.2

Note:

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

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
9	Copper [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	1.0
10	Iron [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	1.0
11	Zinc [mg/l]	0.05	APHA :2017 :3111- B	1.0
12	Oil & Grease [mg/l]	3	APHA 2017 : 5520 B	10
13	Free available chlorine [mg/l]	BDL(<0.1)	APHA:2017 : 4500-CI B	0.5
14	Residual Free Chlorine [mg/l]	BDL(<0.1)	APHA:2017 : 4500-CI B	-

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Purni Mal Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: TC502521200001070)



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

TEST REPORT

Report No./ULR No. :	200001070	Date :	03-07-2021
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Wastewater Sample	Date of Sample Collection/Monitoring :	11-06-2021
Point of Collection :	22 MW CPP-ETP	Date of Sample Receipt :	12-06-2021
Date of Test :	12-06-2021 to 02-07-2021	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	Temperature [°C]	29	APHA 2017 :2550A	-

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Puran Mal Yogi
Senior Analyst


Rajesh Maheshwar
Authorized Signatory
(Report No: 200001070)



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TEST REPORT

Report No./ULR No. :	TC502521200001785	Date :	25-10-2021
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Wastewater Sample	Date of Sample Collection/Monitoring :	25-09-2021
Point of Collection :	22 MW CPP-ETP	Date of Receipt :	04-10-2021
Date of Test/Analysis :	04-10-2021 to 14-10-2021	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	3 Ltr.	Sample Collected By :	kishan murari
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Total Suspended Solids [mg/l]	25	APHA.2017:2540-D	100
2	Biochemical Oxygen Demand (BOD) [mg/l]	8.33	APHA 2017:5210-B	30
3	Chloride as Cl [mg/l]	96.58	APHA 2017 : 4500- Cl- B	-
4	Chemical Oxygen Demand (COD) [mg/l]	75.26	APHA:2017 : 5220-C	250
5	pH	7.92	APHA:2017 : 4500 H+B	5.5 - 9.0
6	Phosphate (total) as P [mg/l]	BDL (<0.1)	APHA 2017 : 4500-P C	5
7	Sulphate [mg/l]	37.95	APHA:2017 : 4500-SO4-E	-
8	Chromium Total [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	2.0
9	Copper [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	3.0
10	Iron [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	3.0
11	Zinc [mg/l]	0.07	APHA :2017 :3111- B	5.0
12	Oil & Grease [mg/l]	4	APHA 2017 : 5520 B	10
13	Free available chlorine [mg/l]	BDL(<0.1)	APHA 2017 : 4500- Cl- B	0.5
14	Residual Free Chlorine [mg/l]	BDL(<0.1)	APHA 2017 : 4500- Cl- B	0.5

Notes :-

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

K.N. Mukhopadhyay

Sunil Kumar



TEAM TEST HOUSE

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

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

RSPCB

ISO 9001:2015

OHSAS 18001:2007

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TEST REPORT

Report No./ULR No. :	200001785	Date :	25-10-2021
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Wastewater Sample	Date of Sample Collection/Monitoring :	25-09-2021
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Quantity of Sample :	3 Ltr.	Sample Collected By :	kishan murari
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Temperature [°C]	28	APHA 2017 :2550A	-

Notes :-

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Sunil Kumar
Senior Analyst

K.N. Mukhopadhyay
Authorized Signatory
(Report No: 200001785)



REPORT ON
GREEN HOUSE GAS (GHG) EMISSION INVENTORY
(Period April 2020 - March 2021)
OF
M/s J. K. CEMENT WORKS
NIMBAHERA, DIST: CHITTORGARH (RAJASTHAN)

Prepared by:
Environment Department

DECLARATION BY J. K. WORKS

J. K. Cement Works (hereafter referred as JKCW) has undertaken Greenhouse Gas (GHG) accounting study for its integrated cement plant situated at

- JKCW , Nimbahera , Dist Chittorgarh (Rajasthan) with 2.8 MMTPA Clinker & 4.9 MMTPA Cement

The study was undertaken by industry to evaluate the greenhouse gas (GHG) emission of its integrated cement unit for the above mentioned unit for the period April 2020 to March 2021. The following methodologies and standards were used for assessment of the GHG inventory from the operations of the unit of JKCW:

1. *"Greenhouse Gases – Part 1: Specification with guidance at the organization level for quantification and reporting of greenhouse gas emissions and removals"*
International Standard ISO 14064 Part-1, 2006

2. *"GHG Protocol Corporate Accounting and Reporting Standard"*
- Greenhouse Gas Protocol

3. *"CO₂ Accounting & Reporting"*
- WBCSD Cement Sustainability Initiative Cement CO₂ and Energy Protocol Version 3.1, Emissions and Energy Inventory

The entire accounting exercise has been carried out and the GHG inventory report has been prepared in line with the ISO 14064-1:2006 and WBCSI Cement Sustainability Initiative Cement CO₂ and Energy Protocol Version 3.1, Emissions and Energy Inventory standard as mentioned above. The ISO 14064-1:2006 requires that:

"The organization should prepare a GHG report to facilitate GHG inventory verification, participation in a GHG programme, or to inform external or internal users."

Accordingly, this report has been prepared to facilitate GHG verification of the emission inventory and to enhance transparency of stakeholder communication. The compliance to ISO14064-1:2006 in the inventory estimation and reporting exercise has been objectively demonstrated in different sections of the report. Various assumptions, inclusions and exclusions of data; and deviations from methodologies/standards, wherever applicable, have been appropriately documented with explanations in the report.

This report covers direct and indirect Carbon Dioxide (CO₂) emissions. Other GHG's i.e. Methane (CH₄), Nitrous Oxide (N₂O), Sulphur Hexafluoride (SF₆), Perfluorocarbon (PFCs), Nitrogen Tri-fluoride (NF₃) and Hydrofluorocarbon (HFCs) emissions have not been accounted for since the emissions of these gases do not have any material impact on the overall emissions from the operations of the above mentioned unit and are hence not considered relevant for the present study. The scope covers emissions under "Direct" and "Energy Indirect" (i.e. scope 1 & scope 2 respectively as defined in GHG protocol) categories.

Foreword

Environmental, Health and Safety Policy of J. K. Cement

We at J.K. Cement Ltd. (Grey Cement) are committed to Manufacturing and Supply of cements and cement derivative products to the satisfaction of our customers with due consideration to legal and other requirements by;

- Continually improve the effectiveness of Integrated Management System, which includes Quality Management System (QMS), Environmental Management System (EMS), Energy management System (EnMS) and Occupational Health & Safety Management System (OHSMS).
- Minimise and / or control environmental impacts, significant energy use and emphasis on elimination of hazards associated with its operations.
- Continuous Prevention and reduce pollution, resources wastage and probability of injury and ill health of Employees & interested parties.
- Inculcate a working culture with emphasis on prevention of pollution, minimizing and controlling waste generation, Safe work practices and optimize consumption of resources/energy.
- Provide necessary resources and information to achieve objectives and targets.
- Support purchase of environment friendly & energy efficient products, services & design.
- Provide effective facilities for consultation between management and worker' representatives.

The policy is made available to all employees and interested parties.

Energy Policy of J. K. Cement

We, at JK Cement Works are committed to demonstrate the excellence in Energy management in all our activities of cement manufacturing on continual basis as to make our operations environmentally sustainable.

We are improving energy efficiency & conservation by:

- We have implemented IS 9001: 50001, Energy Management System in our organization.
- Establishing a framework for setting energy objectives and targets through effective energy management cell with certified energy managers.
- Reviewing, monitoring and analyzing energy consumption and bench marking performances and set new targets.
- Conducting audits for improvement of overall energy efficiency of the plant.
- Purchasing equipment and appliances with consideration of the Bureau of Energy Efficiency Star Rating and Energy Efficiency.
- Using alternative fuels which helps the environment also directly/ indirectly to protect natural resources.
- Ensuring energy conservation, Management and Awareness throughout the organization.
- Always complying with relevant and applicable laws and regulations.
- Maximizing generation of Waste Heat Recovery Power & Solar Power in our organization.
- We have collaborated with EESL (Energy Efficiency Service Limited), Govt. of India improving energy efficiency in our organization.

To promote energy conservation & energy saving propagate awareness amongst all employee and stakeholders.

Water Management Policy of J. K. Cement

JK Cement committed toward water management & conservation that water is a key resource for continuing its business operations and the value attached to it for all its stakeholders as an integral part of business philosophy. We recognize that good quality water has strong sustainability and ecosystem service values. Protecting and conserving water resources through excellent water management practices and governance systems. Water management is not only a business imperative but also provide it with a competitive advantage in the long run.

We shall endeavor to:

- Complying with all legal and applicable rule, law, regulation and other requirement to water related.
- Minimize our impact on water resources from operations by measuring and understanding water use, management and wastewater generation
- Reduce water consumption (freshwater, groundwater) by re-use, recycling water and implementing more sustainable use of water sources.
- Implementation of rain water harvesting measure to increase water table.
- Implement a water monitoring system for water usage & consumption.
- Implementation of latest technology to reduce water consumption and ensure zero water leakages.
- Involve our employees and contract workers in water conservation initiatives.
- Engage with our stakeholders and communities to increase their awareness on the responsible use of water and involve them in protection of water resources.
- Communicate on the progress and performance of water conservation and water management efforts to stakeholders

Intended Use and Intended Users of the report

This report will further serve as the launching pad for more detailed and inclusive studies for the installations and operations of JKCW. Since GHG emission and energy /fuel costs have a direct correlation, this may serve as an ideal platform to identify GHG hotspots for any future GHG emission/fuel consumption reduction program. This report will also be the reference point for any verification of GHG inventory to be estimated in future.

Overall and specific responsibilities for preparing and producing the report:

JKCW owns the overall responsibility for preparing and producing this report, by data collection & calculation of GHG emissions as per applicable standards. The responsibility of ascertaining calculation methods in line with ISO 14064-1:2006 was entrusted by JKCW.

Frequency and base year selection

JKCW envisages assessing its GHG performance on an annual basis. Hence Inventorization of GHG emissions will be taken up on an annual frequency. The present study period includes data from 1st April 2020 to 31st March 2021, both days inclusive. As this is the first year of evaluation, hence the base year for the present GHG Inventorization Study has been selected as 2020-21.

Format & Contents

The report is organized in 3 chapters excluding the Executive Summary. The first section provides the background & scope of the GHG estimation study including the corporate EHS, Energy policy and Water management Policy of JKCW and relevance of the study, Objectives and Scope of the exercise. The second chapter deals with the approach for calculation of emissions including description of operational boundary and quantification methodology. The third and final section provides the detailed organization-wise, unit-wise and GHG-wise break-up of the emissions and results.

Executive Summary

Statement of Intent

As a responsible corporate citizen JKCW aims to own and manage the greenhouse gas emission inventory due to its operation. Through this exercise, the site of JKCW intends to

- Volunteer its resources to adopt sustainability as a core business value and thereby showcase its commitment towards clean and green future to its stakeholders.
- To monitor, inventorize, report and own the Greenhouse Gas emissions due to its operation.
- Lay the foundation for future roll up of the inventory to arrive at inventory for JKCW.

Emission Summary

The overall emission inventory has been calculated as aggregated emissions from the operation of JKCW site. The table below presents the emission inventory for the year 2020-21:

Table 1 : Absolute GHG emissions in tCO₂e for the unit of JKCW

Emissions	Classification	Nimbahera
<i>Direct Emissions (Scope 1)</i>	<i>Total CO₂ from Raw Materials</i>	<i>812438</i>
	<i>Total CO₂ from fossil based kiln fuels</i>	<i>363303</i>
	<i>Total Direct Emissions</i>	<i>1355617</i>
<i>Indirect Emissions (Scope 2)</i>	<i>CO₂ from External Power Generation</i>	<i>31738</i>

** Both direct emission and indirect emission figures have been rounded-up to the nearest integer. The total figure reported is the sum of the rounded-up figures. The emission figures reported*

The emission sources for JKCW (Nimbahera unit) have been tabulated below:

Table 2: Explanation of Direct Emission Sources

Emission Type	Direct Emissions
CO ₂ Emissions from Raw Materials	Emissions from Calcination of raw materials consumed for clinker production
	Emissions from organic carbon content of raw meal
CO ₂ Emissions from Kiln Fuels (incl. of Drying of Fuels & Raw Materials)	Emissions from fossil fuel consumption (conventional)
	Emissions from alternative fossil fuel consumption
CO ₂ Emissions from Non- Kiln Fuels	Emissions from fossil fuel consumption
	Emissions from fossil fuel consumption for onsite vehicles and equipment's
	Emissions from fossil fuel consumption in onsite power generation

Table 3: Explanation of Indirect Emission Sources

Emission Type	Indirect Emissions
Main Sources	Emissions from External Power Generation

The emission sources have been referenced rom WBCSI Cement Sustainability Initiative Version 3.1

Background and Scope

A leading cement manufacturer in the country, JK Cement Ltd is an affiliate in an multi-disciplinary industry conglomerate JK Organization which was founded by Lala Kamlapat Singhania. For over four decade, JK Cement has partnered India multi-sectoral infrastructure needs on the strength of its product excellence, customer orientation and technology leadership. The Company has over four decades of experience in cement manufacturing. Our operations commenced with commercial production at our first grey cement plant at Nimbahera, Rajasthan in May 1975. Subsequently, the company also set up 2 more units in Rajasthan at Mangrol and Gotan. In the year 2009, the company extended its footprint by setting up a green-field unit in Muddapur, Karnataka giving it access to the markets of south-west India. In the year 2014, the company further expanded its capacity in the north with brownfield expansion of 1.5 MnTPA integrated unit at Mangrol and split grinding unit of 1.5 MnTPA at Jhajjar. Today, JK Cement has an installed grey cement capacity of 14 MnTPA, making it one of the top cement manufacturers in the country.

JK White Cement, a division of JK Cement Ltd., enjoys a PAN India presence and the Company is the leading producer of Wall Putty in the Country. The Company is the second largest manufacturer of white cement in India, with an annual capacity of 600,000 tonnes. Having established a strong presence in India, the Company made its first international foray with the setting up of a green-field dual process White Cement-cum-Grey Cement plant in the free trade zone at Fujairah, U.A.E to cater to the GCC and African markets. JK White Cement is sold across 43 countries around the globe. With the commissioning of this plant, JK Cement became one of largest producers of White Cement in the world, with a total white cement capacity of 1.20 MnTPA and wall putty capacity of 0.9 MnTPA.

JK Cement was the first company to install a captive power plant in the year 1987 at Bamania, Rajasthan and the first cement company to install a waste heat recovery power plant to take care of the need of green power. Today at its different locations, the Company has captive power generation capacity of over 125.7 MWs which includes 23.2 MW of waste heat recovery power plants.

We are steadily enhancing our capacity, diversifying our range of products, ushering in advanced technology and quality assurance, and above all, expanding our presence nationally and internationally. Our brands continue to enjoy the trust of millions of consumers for the high quality and innovation benchmarks that we have attained.

Superior products and a strong Brand name, an extensive marketing and distribution network and the technical know-how represent JK Cement’s abiding strengths.

About the Unit:

J. K. Cement Works, Nimbahera is situated at Nimbahera tehsil in Chittorgarh district, Rajasthan. Near Railway station is Nimbahera (2 km), NH - (1.5 km), airport Udaipur (120 km). Production Capacity: Clinker - 2.80 MMTPA, Cement – 4.90 MMTPA, CPP – 22 MW, WHRS 13.2 MW and Total Area: 170.72 Hectare

Our plant is also ISO 9001:2015 & ISO 14001:2015 certified and our laboratory is accredited with the NABL-National Accreditation Board for Testing and Calibration Laboratories. Plant is also certified with ISO 5001: 2011 & ISO 45001: 2018

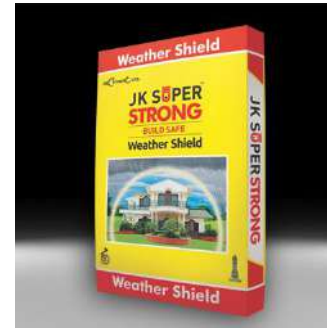
Our Products & Informations



OPC



PPC



Weather Sheild

Ordinary Portland cement (OPC)

Company also produces Ordinary Portland cement (OPC) which is much in demand for its extra strength and fineness. It is ideal for all kinds of construction jobs and concrete components production. OPC has three grade that we produce, that are differentiated by their compressive strengths expressed in Mega Pascals (MPa) as specified by BIS. These grades are 53 grade OPC, 43 grade OPC, 33 grade OPC, 53 grade OPC having the highest compressive strength. The customer selects the grade of OPC based on the intended application. Our most popular cement is 43 grade cement, with 53 grade cement being used in application which require high strength characteristics.

JK Super Cement (PPC)

JK Super Cement is one of the premium gray cement brands in the country, available as application friendly Portland Pozzolona Cement (PPC). The product complies with quality standards specified by the Bureau of Indian Standard (BIS) and is much in demand by both the retail and the institutional segment.

JK Super strong Weather Shield Cement

JK Super strong Weather Shield Cement is a water repellent cement having and integral water repellent property at the cement particle level manufactured through a technology developed in-house called PWRT (Particle Level Water Repellent Technology). Cement manufactured with PWRT exhibits resistance to penetration of water in mortar, plaster & concrete. This property is incorporated by modifying the particle size distribution and fineness of cement through an innovative technique. It significantly reduces water permeation to concrete or mortar, which results in dry walls and healthy indoor climate. This cement can be used all applications such as foundations, masonry & concrete work.

JK Cement: Environment, Health & Safety (EHS) Policy

JK Cement actively promotes environment, health & safety responsibility as one of its core business values and is committed towards environmental protection and providing healthy & safe work environment by way of

- ❖ *Compliance with all applicable legal, social and other requirements.*
- ❖ *Improvement in environmental performance and resource efficiency*
- ❖ *Reviewing objectives and targets for continual improvement in environment, workplace, health and safety*
- ❖ *Engaging and training human capital to enhance their skills and augment resources for effective EHS performance.*
- ❖ *Controlling Pollution*
- ❖ *Prevention of occupational injuries and health hazards*

JK Cement: Energy Policy

JK Cement is also committed towards improvement of Energy Efficiency and performance by using alternative fuels and by identification and reduction of energy losses by:

- ❖ *Establishing framework for setting energy objectives and targets*
- ❖ *Reviewing, monitoring and analysing Energy Consumption*
- ❖ *Conducting audits for improvement of overall Energy Efficiency of the plant*
- ❖ *Purchasing equipment and appliances with consideration of the Bureau of Energy Efficiency Star Ratings and energy efficiency.*
- ❖ *Ensuring Energy conservation, management and awareness throughout the organization*
- ❖ *Always complying with relevant and applicable Laws and Regulations*

JKCW has initiated estimation of Greenhouse Gas inventory from cement manufacturing unit in the same spirit. JKCW management has already reported the GHG emissions as a key performance indicator in its annual Sustainability Report.

GHG Footprint Assessment: Drivers and Benefits

Greenhouse gas emissions being one of the key concerns of “cost to environment” for modern businesses, JKCW wishes to embark on a low carbon growth trajectory in its operations. Managing GHG emissions is only possible with effective monitoring set-up and practices to measure, record, calculate and report emissions over a period of time. Hence, JKCW has decided to calculate the GHG inventory of its installation at Nimbahera. The initial study will help to fulfil the following objectives:

1. Review its monitoring set-up and improve it to enable a corporate level replication for future.
2. Increase know-how of the employees for future repetitions of the exercise.
3. Capitalize on the benefits of GHG inventory estimation.

Various business goals that may be served by GHG footprint estimation include:

(I) Managing GHG risks and identifying reduction opportunities – By becoming cognizant to the current emission status of the organization a company can:

(a) Evaluate its position with respect to industry leaders

(b) Identify risks associated with GHG constraints in the future - Identification and quantification of the carbon assets and liabilities of an organization which are the two essential components for understanding climate change risk-return perspective of the organization.

(c) Identify cost effective reduction opportunities - Identification of potential opportunities of GHG emission reduction (Energy optimization, Process modifications and improvements, adoption of clean technologies etc.). JK Cement has already implemented CDM projects off set RPO obligation of RE power (Solar + Wind) by WHRS power plant.

(d) Set GHG targets, measuring and reporting progress

(II) Public reporting and participation in voluntary GHG programs – Voluntary GHG abatement initiatives are globally acknowledged. It requires:

(a) Voluntary stakeholder reporting of GHG emissions and progress towards GHG targets.

(b) Reporting to Government and NGO reporting programs, including GHG registries.

(c) Eco-labelling, benchmarking and GHG Certification

(III) Recognition for early action and associated intangible benefits, which include:

(a) Recognition for early accounting and taking ownership of its emission inventory leading to enhancement of brand image and pan industry recognition.

(b) Greater preparedness to effectively align present and future business policies in line with the GHG risk exposure.

(c) Optimum utilisation of the carbon market to avail financial incentives and credits for GHG abatement measures, as applicable presently.

(d) Align with Indian government climate policy

Approach and Methodology

Approach

The GHG Inventorization was carried out in the below mentioned way:

- ❖ Training Programs on GHG Inventorization were conducted.
- ❖ An understanding of the cement manufacturing process.
- ❖ Determination of operational boundary and emission sources.
- ❖ This was followed by data collection and subsequent analysis
- ❖ Determination of GHG Inventory and Submission of Results

Methodology

The methodology for GHG Footprint Estimation has been designed in line with ISO 14064-1:2006 Guidelines. The key steps followed in the determination of the GHG Footprint are as follows:

- ❖ Confirmation of Organizational Boundary
- ❖ Determination of Operational Boundary
- ❖ Quantification of GHG emission and removal
- ❖ Quantification of directed actions in the organization
- ❖ Reporting of GHG emissions and removals

Determination of Organizational Boundary

The organization may comprise one or more facilities. Facility-level GHG emissions or removals may be produced from one or more GHG sources or sinks. The organization shall consolidate its facility-level GHG emissions and removals by one of the following approaches:

- (a) Control: the organization accounts for all quantified GHG emissions and/or removals from facilities over which it has financial or operational control; or
- (b) Equity share: the organization accounts for its portion of GHG emissions and/or removals from respective facilities.

It is imperative from the above guidance that if the reporting company wholly own operation, its organizational boundary will be the same, whichever approach is used. The unit of JKCW covered under this study is operationally directly controlled by JK Cement Limited and hence the **Operational Control** approach for setting the organizational boundaries has been selected.

Determination of Operational Boundary

The establishment of operational boundaries includes identifying GHG emissions and removals associated with the organization's operation, categorizing GHG emissions and removals into direct emissions, energy indirect emissions and other indirect emissions. It includes choosing which of the other indirect emissions will be quantified and reported." In line with the above guidance, the operational boundary for JKCW has been determined. The boundary encompasses the process operation at the following location:

Integrated Cement Unit at Kailash Nagar, PO-Nimbahera, Chittorgarh District, Rajasthan

This includes the cement manufacturing operations in the above mentioned sites. The following operations/activities are included in the operational boundary of JKCW:

- Calcination of raw materials consumed for clinker production
- Kiln Fuel Consumption
- Non-Kiln Fuel Consumption
- Alternative Fuel Consumption
- Fossil fuel consumption in onsite vehicles and equipments
- Purchased Electricity
- Electricity Generated by own thermal power plant

The standard ISO 14064-1:2006

- ❖ mandates quantification of Direct GHG emissions in the boundary
- ❖ recommends quantification of Direct GHG removals in the operational boundary
- ❖ mandates quantification of energy indirect GHG emissions from the generation of imported electricity, heat or steam consumed
- ❖ provides for the choice to (or not to) quantify other indirect GHG emissions.

Accordingly, JKCW has chosen to quantify and report **direct GHG emissions (scope 1) and energy indirect GHG emissions (scope 2)** from all sources within the chosen operational boundary.

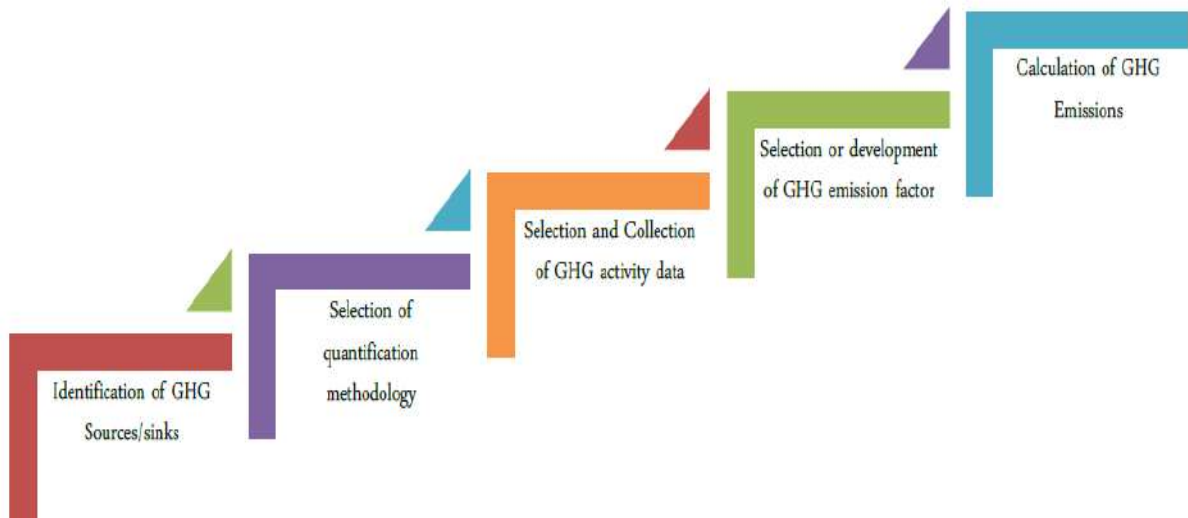
Direct emissions accounts for all operations related emissions due to Raw Material consumption for clinker production, Kiln and Non Kiln Fuel Consumption, Alternative Fuel Consumption, Fossil Fuel consumption in onsite vehicles and equipments, the Kiln related emissions for the unit location.

Energy Indirect emissions accounts for emissions due to electricity purchased from the grid.

JKCW has decided not to report Scope 3 (**Other Indirect**) emissions due to non-availability of data.

Quantification of GHG emissions and removals

Quantification of GHG emissions have been carried out as per the steps outlined in ISO14064-1:2006 and WBCSI Cement Sustainability Initiative (Cement CO2 and Energy Protocol, Version 3.1, CO2 Emissions Energy Inventory). GHG removals in the operational boundary have not been quantified due to absence of verifiable data. The steps of calculation are as presented in the list below:



Identification of GHG Sources and sinks

An activity wise or process wise approach was considered for evaluating the GHG emissions. The following sources were identified and accordingly data collection templates were prepared and circulated.

Table 4 : Direct and Indirect Emission Sources for JKCW

Source		GHG	Unit
Scope 1 (Direct Emissions)			
Kiln operations	Raw Material Consumption for clinker production	CO2	tCO2e
	Organic Carbon Content of Raw Material	CO2	tCO2e
	Consumption of Fossil based kiln fuels	CO2	tCO2e
Non-kiln Operations	Consumption of non-kiln fossil fuels	CO2	tCO2e
Mobile Emissions	Fossil Fuel Consumption usage in onsite vehicles and equipment's	CO2	tCO2e
On-site power generation	Consumption of Fossil based fuels	CO2	tCO2e
Scope 2 (Energy Indirect Emissions)			
Consumption of purchased electricity from grid	Emissions associated with power generation in the power plants connected to the regional grid	CO2	tCO2e

Memo Item:

Table 5: Memo Item representing Biomass consumption

Source		GHG	Unit
Direct CO2 from Biomass			
Biomass Consumption	Combustion of Biomass (kiln fuel)	CO2	tCO2e

The only GHG sink relevant is due to afforestation within the physical boundaries. However, quantification of these being extremely difficult due to requirement of tree species specific data which is unavailable, GHG sinks have not been reported in this study. Further, JKCW would like to focus on reducing emission at source for mitigating their GHG inventory.

Selection and Collection of GHG activity data

The different emission sources, activity data required and algorithm for determination of emissions is presented below:

I. Direct Emissions:

The following sources were considered while computing the direct emissions:

- *Emissions from calcination of raw materials consumed for clinker production*
- *Emissions from organic carbon content of raw meal*
- *Emissions from consumption of fossil based kiln fuel*
- *Emissions from consumption of fossil based non-kiln fuel*
- *Emissions from consumption of fossil fuel in onsite power generation*

The computation for direct GHG Emissions have been done based on WBCSI Cement Sustainability Initiative (Cement CO2 and Energy Protocol, Version 3.1, CO2 Emissions and Energy Inventory) GNR database.

II. Indirect Emissions

The following sources were considered while computing the indirect emissions:

- *Emissions from external power generation*

The computation for indirect GHG Emissions have been done based on GHG Protocol (Scope 2 Guidance on how corporations measure emissions from purchased or acquired electricity, steam, heat, and cooling)

Selection or development of GHG emission factors

JKCW has selected GHG emission factors as per recognized sources such as 2006 IPCC Guidelines for National Greenhouse Gas Inventories, IPCC Fourth Assessment Report, CSI default and CEA. The following emission factors have been used in the calculations:

Table 6: List of emission factors and other constants

Type	Category		IPCC default kg CO2/GJ	CSI default kg CO2/GJ	CSI default % biomass
Fossil fuels					
1		coal + anthracite + waste coal	96		
2		petrol coke		92.8	
3		(ultra) heavy fuel	77.4		
4		diesel oil	74.1		
5		natural gas (dry)	56.1		
6		oil shale	107		
6, a		lignite	101		
7		gasoline	69.3		
Alternative fossil fuels					
8		waste oil		74	
9		tyres		85	27.00%
10		plastics		75	
11		solvents		74	
12		impregnated saw dust		75	
12,a		mixed industrial waste		83	
13		other fossil based wastes		80	
Biomass fuels					
14		dried sewage sludge		110	
15		wood, non-impregnated saw dust		110	
16		paper, carton		110	
17		animal meal		89	
18		animal bone meal		89	
19		animal fat		89	
20		agricultural, organic, diaper waste, charcoal		110	
21		other biomass		110	

The values have been sourced from IPCC Guidelines for National Greenhouse Gas Inventories, Prepared by the National Greenhouse Gas Inventories Programme, and WBCSI Cement Sustainability Initiative Cement CO₂ and Energy Protocol, Version 3.1, CO₂ Emissions and Energy Inventory

Table 7: Grid Emission Factor

Parameter	Unit	Value
Grid Emission Factor	tCO2/MWh	0.82
Grid Emission Factor	tCO2/MWh	0.82

This may be noted that the CEA Data base version 10 has been used to compute the GHG emissions from external power generation.

Calculation of GHG emissions and removals

Using the activity data collected as explained above and the emission factors selected in previous section, emissions due to different processes / activities are calculated. The next chapter provides the result of the calculations for FY 2020-21 for JKCW.

GHG Emissions & Performance Indicators

This section provides the specific activity wise details on data and information that has been collated, verified and used as per the computation methodology described in the previous sections of this report, to estimate the greenhouse gas emissions due to the operations of JKCW. This chapter includes the following:

- I. Total GHG emission (Direct & Energy Indirect) for Nimbahera
- II. CO₂ Specific Performance Indicators
- III. Other Performance Indicators

Total GHG Emissions (Direct & Indirect for Nimbahera)

Table 8: Source wise Direct GHG Emissions for JKCW (Nimbahera Unit) (all units in tCO₂e)

<i>Location</i>	<i>Latitude</i>	<i>Longitude</i>	<i>Source</i>	<i>Total Emissions</i>
JK Cement Works, Nimbahera	24°38”18.46 to 24°38,41.50 N	74°41”5.93 to 74°41:1.84 E	Calcination of Raw Materials consumed for Clinker Production	812438
			Consumption of Fossil based Kiln Fuels	338304
<i>Total Direct Emissions (Scope 1)</i>				<i>1150742</i>

**Total figures rounded-up to the nearest integer*

Table 9: Source wise Energy Indirect GHG Emissions for JKCW (Nimbahera Unit) (all units in tCO₂e)

Location	Latitude	Longitude	Source	Total Emissions
JK Cement Works, Nimbahera	24°38'18.46 to 24°38,41.50 N	74°41'5.93 to 74°41:1.84 E	External Power Generation	31738
Energy Indirect Emissions (Scope 2)				

**Total figures rounded-up to the nearest integer*

CO₂ specific Performance Indicators

Following performance indicators have been shown for Nimbahera:

- Specific Gross CO₂ per tonne of cementitious product
- Specific Gross CO₂ per tonne of calcination component
- Specific Gross CO₂ per tonne of fuel component
- Specific Net CO₂ per tonne of cementitious product

Table 10: CO₂ specific performance indicators (all units in tCO₂e)

Location	Specific Gross CO ₂ per tonne of cementitious product	Specific Gross CO ₂ per tonne of calcination component
	Kg CO ₂ /t cem. prod	Kg CO ₂ /t cem. prod
Nimbahera	587	402

Other performance parameters

Apart from the CO₂ specific parameters, other general performance indicators have been identified for Nimbahera Unit:

- Specific heat consumption of clinker production
- Biomass fuel rate
- Specific total power consumption
- Specific power consumption of clinker production
- Specific power consumption of cement production

Performance indicators and relevant values for Nimbahera Unit have been provided below:

Table 11: Other Performance Indicators -Nimbahera (all units in tCO₂e)

Performance Indicator	Unit	Value
Specific heat consumption of clinker production	MJ/t clinker	2577
Specific total power consumption	kWh/t cem. Prod.	106.7
Specific power consumption of clinker production	kWh/t clinker	74.1
Specific power consumption of cement production	kWh/t cem. Prod.	105.9
Total alternative fuel rate at plant level	AFR %	5.2
Total conventional fossil fuel rate at plant level	Coal %	94.6

Table 12: Key performance Indicator –Nimbahera (all units in tCO₂e)

Performance Indicator	Unit	Value
Specific Net CO ₂ per tonne of cementitious product	Kg CO ₂ /t cem. Prod.	575

Energy Efficiency Measures

Cement is a highly energy intensive industry. The energy cost accounts to almost 50% of the total operational cost, hence reduction in the energy cost is JKCW prime target. BEE in this PAT cycle has given targets and 24 energy intensive sectors to reduce their specific energy consumption. JKCW Nimbahera unit has been a designated consumer under PAT is in the process of reducing its specific energy consumption. Thus JKCW gives priority to fulfilling regulatory obligations arising out of the climate change policies of the government. The company also prioritizes and identifies improvement opportunities based on return on investment and effect on the organization on a mid to long term basis which reduces the input costs and increases operational efficiency.

Energy Efficiency Measures Taken by JKCW during 2020-21

As a part of the improvement opportunities, JKCW has identified and implemented the following improvement measures:

With emission reduction and energy efficiency improvement measures in place, it is anticipated that JK Cement Works would take realistic and achievable GHG reduction targets which not only reduces the GHG emissions from present level but also increases the resource efficiency.

Table 13: Energy Efficiency Measures taken at Nimbahera unit

S. No.	Project Type	Description	Electricity Saved (kWh)
1	Process Optimisation	One dryer removed from circuit which is running idle	14400
		Power saving from blaster operation timing optimization	26400
		Kiln-3 DBC Tunnel ventilation fan running optimization	77400
		Reduce idle running of Coal mill -3 & 4 auxiliary by group start of equipments	104000
		Kiln-3 Cooler Fan Silencer Removing from 3 nos fans	356200
		water pump running optimization stopping of L-1 & 2 water flow	98000
		Saving through Dust transport system 1 & 2 start stop time optimization.	54000
		Optimization of ESP 3rd field current power saving will achieved	91200
		Reciprocating compressor for CM-1 and CM-2 stopped and air supplied from common compressor	23600

		Raw Mills Auxiliary tripping changing from 15 min to 5 min	28000
		Reducing idle running of cement mill auxiliary drives	32000
		Cement mill section running planned in night shift to consume low cost power, saving	137200
		Cooler dust conveyor & tube dust extractor time optimization.	8000
		Through Separator sealing work completed in RM-4(Oct'20).	458000
2	Kizen	Comprssor power saving through reduction in pressure for dust filters,cf silo and preheater air	291200
		Power utilization in night shift, Incremental Consumption benefit & power factor incentive (Dec'20).	205800
		Power utilization in night shift, Incremental Consumption benefit & power factor incentive (Dec'20).	86000
		C.F. silo top bag filter 15% RPM reduction by pulley replacement.	28000
		LS crusher implementing single start logic	86000
		Reclaimer-1 & 2 rbc sequence interlocking with pile-1 & 2 indication with surge hopper level.	10000
		Reclaimer-1 & 2 rbc sequence interlocking with pile-1 & 2 indication with RM-4 hopper level.	14200
		L02 RBC (Below main crusher) old motor replaced by new energy efficient motor.	18400
		P3P10 dust Filter fan Power Reducing By fan impeller pulley replacement	29600
		Kiln-3 Dust transport equipment idle time reductions	34000
		Kiln-3 WHR screw conveyor idle running optimization P87 & P88	52400
		Power Saving due to Crusher TPH Increased, (Looping done with belt load and Apron speed)	55000
		Maliyakhera Crusher , Transportation Group Interlock with timer & Made bag filters Dp mode	495000
		power utilization in night shift, IEX power purchase, Incremental Consumption benefit.	1318800
		Packing Plant S/C P3J06 Motor replacement (3.2 KW to 2.2 KW)	6200
		ON/OFF time optimization of cooler ESP conveyor W3P16 & W3P17.	20800

		Kiln-2 Dust transport equipment idle time reductions	24800
		Maliakhera Crusher bag filter damper removing saving.	63400
		HRP Bag filter FN188 and FN183 VFD installation done	86400
		Packing Plant S/C P1J01 Motor replacement (110 KW to 55 KW)	195200
		Power utilization in night shift, Incremental Consumption benefit & power factor incentive (Aug'20).	515000
		Crusher Dust filter Motor replacement (132 KW to 90 KW)	21600
		Crusher RBC A3L09 Motor replacement (55 KW to 37 KW)	31600
		Power utilization in night shift, Incremental Consumption benefit & power factor incentive (Oct'20).	686800
3	Others	VFD installation in 20 HP water pump at compressor house no.4	74000
		Centrifugal water pump 40 hp replaced by 25 hp at hrp	75000
		VFD installation in compressor P3X04 of packing plant	160000
4	Downsizing the equipments	Packing Plant S/C P3J02 Motor replacement (110 KW to 55 KW)	147600
		Cooler fan 09 & 10 replacement.	276000
	Total		6617200



J.K.CEMENT WORKS, NIMBAHERA

PERIODICAL MEDICAL EXAMINATION

NAME: - BIRDI CHAND

S/O: - PANNA LAL.

AGE: - 57 YRS., SEX: - Male. Height: - 172 Cm, Weight: - 87 Kg Dept.: - P.P S&S,

EMP. No.: - 40-146 , P.P(S&S) , B.M.I.: - 31.98(Obese).

Mark of identification: - Cut mark over forehead.

Drug allergy

NOT KNOWN

History of any chronic diseases:

K/C/O H.T.N. ON Rx

Family History, if any

NONE

Digestive System-P/A.....

Soft

Respiratory System -R.R.....

16/min

Chest.....

B.L.L.

Spirometry

ECG.....

WNL

CVS- H.R 78 /min. , B.P 120/80 mm hg,

Heart sound.....

S, S, P, M.

CNSNAD

Blood group & RH: - O-VE , Urine Albumin: - NIL, Urine Sugar: - NIL.

Other investigations if any

Medical advice -.....

Rx as advised

Physical Fitness.....

Fit

Signature of person examined

Date: - 21/7/2022

Signature of qualified
Medical practitioner



258

J.K.CEMENT WORKS, NIMBAHERA

PERIODICAL MEDICAL EXAMINATION

NAME: - AMRA RAM

S/O: - KHUMA JI.

AGE: - 58 YRS., SEX: - Male. Height: - 172 Cm, Weight: - 75 Kg Dept.: - P.P S&S,

EMP. No.: - 40-147

B.M.I.: - 25.35(Over weight).

Mark of identification: - Cut mark over forehead.

Drug allergy

NOT KNOWN

History of any chronic diseases: NOT SIGNIFICANT

Family History, if any

NONE

Digestive System-P/A.....Soft.....

Respiratory System -R.R.....16/min.....

Chest.....B.I./C.....

Spirometry-.....

ECG.....WNL.....

CVS- H.R 70/min. , B.P 126/80 mm hg,

Heart sound.....S.S.H.....

CNSNAD.....

Blood group & RH: - O +VE, Urine Albumin: - NIL, Urine Sugar: - NIL.

Other investigations if any

Medical advice -

Physical Fitness.....Fit.....

312/21

Signature of person examined

Date:- 21/7/2021


Signature of qualified
Medical practitioner



JK Cement LTD.

28
P/P.

DISPENSARY LABORATORY

NIMBAHERA - 312617

Registration No. : 7580 Relation : Age/Sex : 57/ M Date : 09-AUG-21
Name : SH.AMBA RAM
Emp.Code : Emp.Name: Deptt. :
Ref.by Dr. : SH.S.K.CHAUDHARY

BLOOD TEST REPORT

FACTORS	RESULT	NORMAL VALUES
Glucose fasting	79.0	65-110 mg/dl
Post Parential		80-150 mg/dl
Blood urea	20.7	15-45 mg/dl
Serum Uric Acid		Male: 3.6-7.7 mg/dl Female: 2.5-6.8 mg/dl
Serum Creatinine	0.8	Male: 0.7-1.4 mg/dl Female: 0.6-1.1 mg/dl
S Cholestrol	220.0	125-200 mg/dl
Alkaline Phosphate		Child - 151-240 IU/L Adult - 90-130 IU/L
Acid Phosphate		0.5-50 KA
Total Proteins		6.6-83 mg/dl
S.G.O.T.	18.0	0-37 IU/L
S.G.P.T.	26.0	0-37 IU/L
Serum Bilirubin (Total)		0.00 to 1.2 mg/dl
Serum Bilirubin (Direct)		0-0.3 mg/dl
Serum Bilirubin (Indirec)		0-0.9 mg/dl
S.Tri Glycerides	145.0	Male: 40-160 mg/dl Female: 35-135 mg/dl
HDL Cholestrol	41.0	Male: 35-50 mg/dl Female: 45-60 mg/dl
LDL Cholestrol	150.0	65-180 mg/dl
VLDL Cholestrol	29.0	5-40 mg/dl
CK - MB		30-70 IU/L
Calcium		8.5-10.5 mg/dl

(SATURDAY CLOSED)

(C.M.O)

All test by STAT FAX - 3300 Auto Analyser
This report is not valid for medico legal purpose

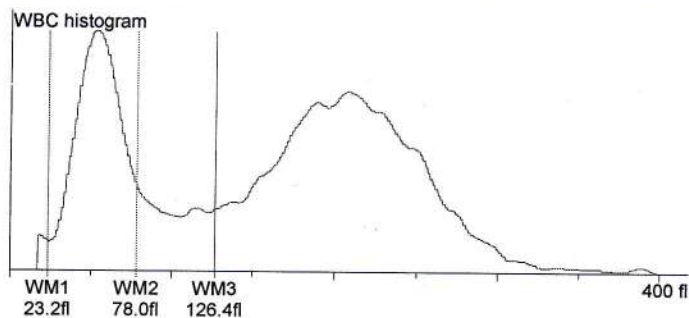
Patient ID:
Name: SH.AMBA RAM

Birth date: 0000-00-00
Sex: Male

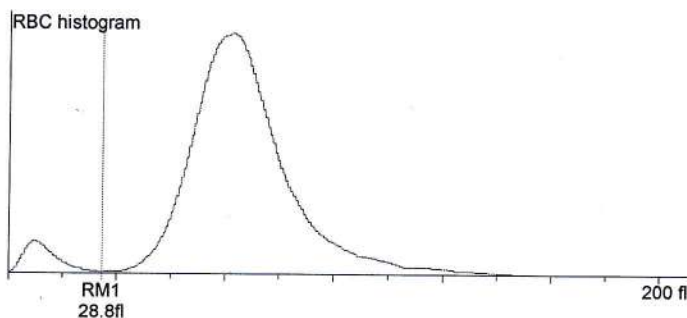
Measure type: Human
Sample ID: 6231

Doctor: S.K.Chaudhary
Date: 2021-08-09

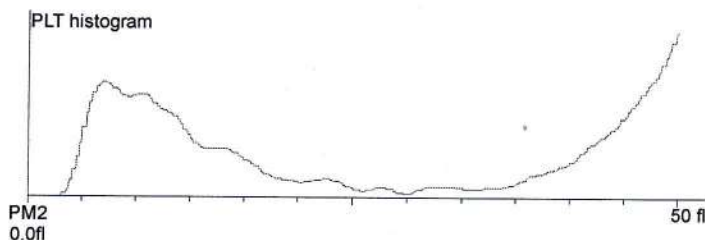
Parameter:	Result:	Limit:
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LYM:	1.75 $10^9/l$	[1.30 - 4.00]
MID:	0.52 $10^9/l$	[0.15 - 0.70]
GRA:	4.59 $10^9/l$	[2.50 - 7.50]
LYM%:	25.50 %	[25.0 - 40.0]
MID%: +	7.60 %	[3.0 - 7.0]
GRA%:	66.90 %	[50.0 - 75.0]



RBC:	4.84 $10^{12}/l$	[4.00 - 5.50]
HGB:	13.20 g/l	[12 - 17.4]
HCT: -	35.47 %	[36.00 - 52.00]
MCV: -	73.00 fl	[76 - 96]
MCH:	27.30 pg	[27 - 32]
MCHC: +	37.20 g/l	[30 - 35]
RDWs: +	45.30 fl	[20.0 - 42.0]
RDWcv:	14.40 %	[0.0 - 0.0]



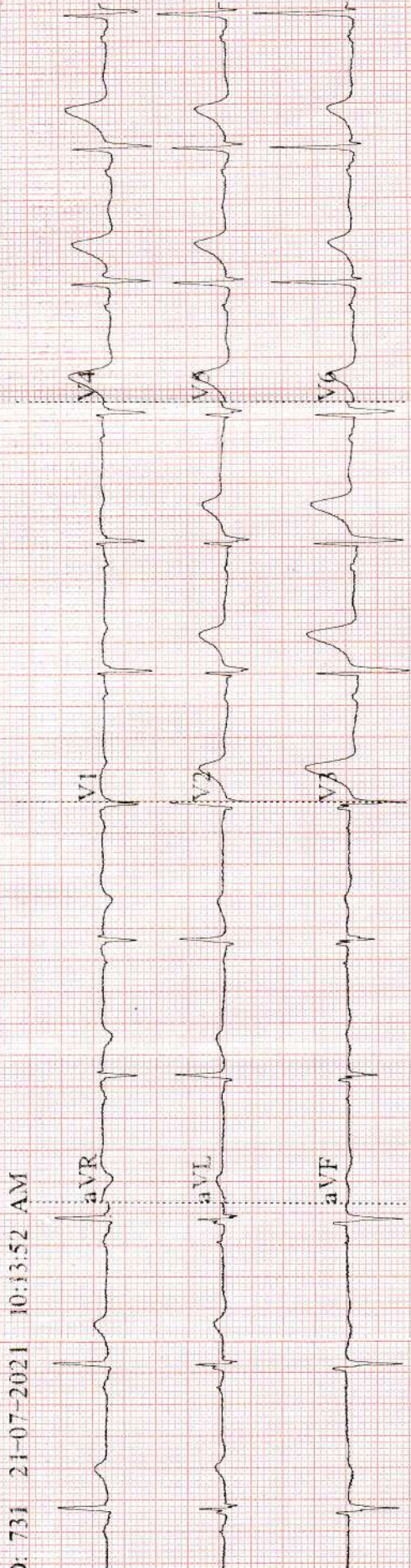
PLT:	261.00 $10^9/l$	[150 - 450]
PCT:	0.24 %	[0.00 - 0.00]
MPV:	9.10 fl	[8.0 - 15.0]
PDWs:	12.40 fl	[0.0 - 0.0]
PDWcv:	39.60 %	[0.0 - 0.0]



Doctor:

9: 731 21-07-2021 10:13:52 AM

BPL - 02



57-100Hz AC50 25mm/s 10mm/mV ♡66 V1.0 SEMIP V1.7

CARDIART

ID
Ma
35
PR
OR
QT
PC
RV

Diagnosis Information:
Sinus Rhythm
Normal ECG

/ mmHg

kg

Am. Run

Age 58^{ys}

70 bpm

105 ms

154 ms

82 ms

371-402 ms

25-141°

110.707 mV

Report Confirmed by:
CARDIARI



J.K.CEMENT WORKS, NIMBAHERA

PERIODICAL MEDICAL EXAMINATION

NAME:- **NAVEEN PRAKASH** , S/O:- **MAHIPAL SINGH**

AGE:-**33YRS.** , SEX:-**Male.** , Height:-**172Cm** , Weight:-**78 KG.**

Dept.:- **PROCESS** , EMP. NO. :-**13000319** , B.M.I.:- **26.44(Over weight).**

Mark of identification: - **Mole over middle of chest.**

Drug allergy: - **NOT KNOWN**

History of any chronic diseases: - **none**

Family History, if any **none**

Digestive System-P/A **soft**

Respiratory System -R.R. **18/min**, Chest **B/L clear**

ECG **WNL** , CXR **-**

CVS- H.R.:-**71** /min. , B.P.:- **116/70** mmhg, Heart sound **S1, S2 heard**

CNS **NAD**

Blood group& RH:- **A (-)VE**

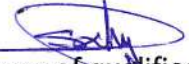
Other investigations if any **report attached**

Medical advice -

Physical Fitness **Fit**


Signature of person examined

Date **26/08/21**

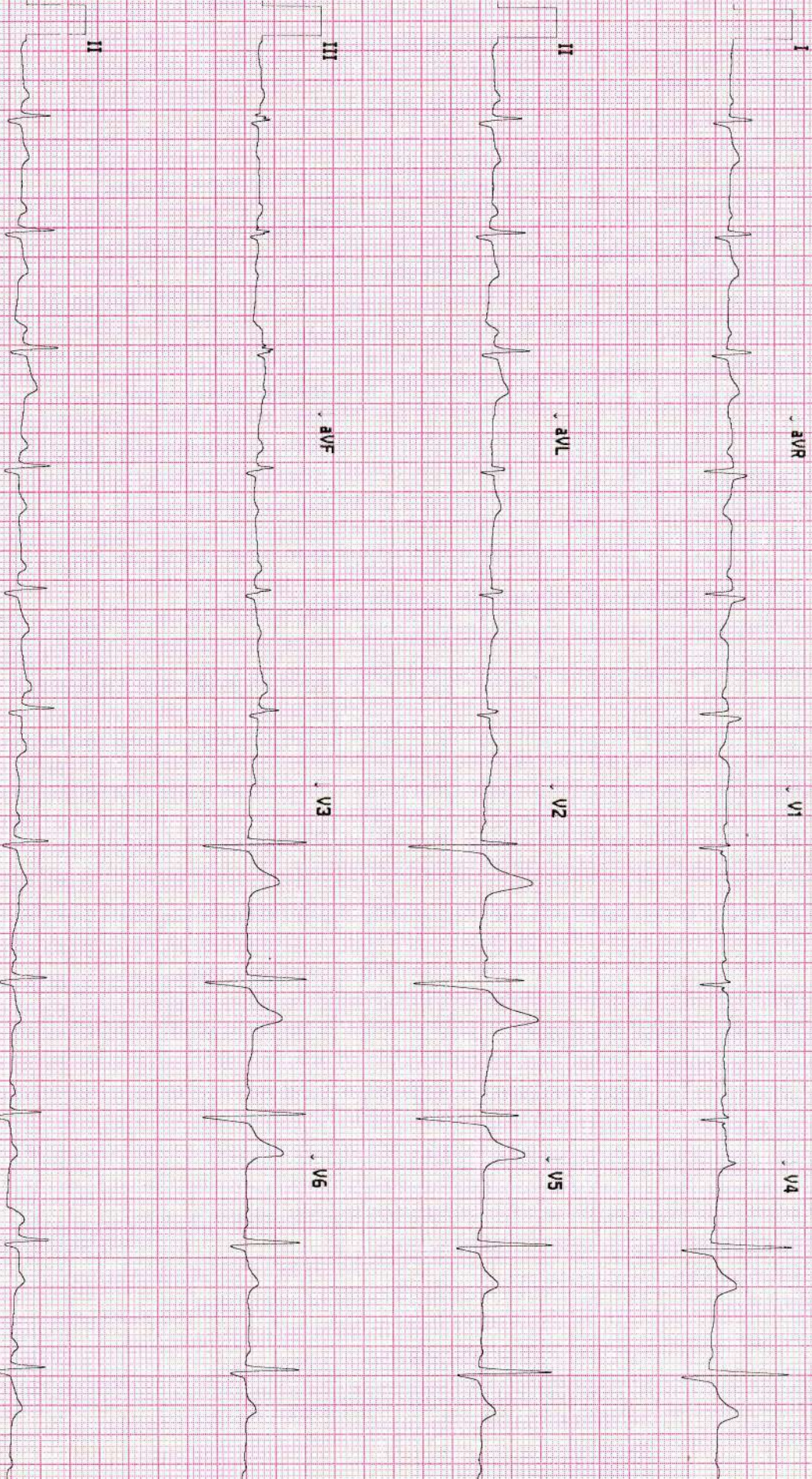

Signature of qualified
Medical practitioner

Naureen Prakash
ID:
DOB 01-Dec-1988
32yr, Male

26-Aug-2021 15:45:24

Vent Rate 71 BPM
PR int 170 ms
QRS dur 96 ms
QT/QTc 383/406 ms
P-R-T axes 57 61 12

SINUS RHYTHM
NORMAL ECG
UNCONFIRMED REPORT



115390273745

JKcement

Site # 0 Cart # 0 Version 1.2.1 Sequence #05655 25mm/c 10mm/mV AEC-MU-U



JK Cement LTD.

OCCUPATIONAL HEALTH CENTRE

NIMBAHERA-312617

Pt. Name:	NAVEEN PRAKASH	Age	33	Yrs.	Date	26.08.2021
Ref. By Dr.	SH.S.K.CHAUDHARY	Emp	13000319	Dept.	PROCESS	

RUTINE EXAMINATION

URINE ALBUMIN	NIL
URINE SUGAR	NIL

(Saturday Closed)


(C.M.O.)



JK Cement LTD.

DISPENSARY LABORATORY

NIMBAHERA - 312617

Registration No. : **7680** Relation : Age/Sex : **33/ M** Date : **27-AUG-21**
Name : **SH.NAVEEN PRAKASH**
Emp.Code : **1300031** Emp.Name: Deptt. :
Ref.by Dr. : **SH.S.K.CHAUDHARY**

BLOOD TEST REPORT

FACTORS	RESULT	NORMAL VALUES
Glucose fasting	84.0	65-110 mg/dl
Post Parential		80-150 mg/dl
Blood urea		15-45 mg/dl
Serum Uric Acid		Male: 3.6-7.7 mg/dl Female: 2.5-6.8 mg/dl
Serum Creatinine		Male: 0.7-1.4 mg/dl Female: 0.6-1.1 mg/dl
S Cholestrol	222.0	125-200 mg/dl
Alkaline Phosphate		Child - 151-240 IU/L Adult - 90-130 IU/L
Acid Phosphate		0.5-50 KA
Total Proteins		6.6-83 mg/dl
S.G.O.T.	21.0	0-37 IU/L
S.G.P.T.	29.0	0-37 IU/L
Serum Bilirubin (Total)		0.00 to 1.2 mg/dl
Serum Bilirubin (Direct)		0-0.3 mg/dl
Serum Bilirubin (Indirec)		0-0.9 mg/dl
S.Tri Glycerides	145.0	Male: 40-160 mg/dl Female: 35-135 mg/dl
HDL Cholestrol	46.0	Male: 35-50 mg/dl Female: 45-60 mg/dl
LDL Cholestrol	147.0	65-180 mg/dl
VLDL Cholestrol	29.0	5-40 mg/dl
CK - MB		30-70 IU/L
Calcium		8.5-10.5 mg/dl

(SATURDAY CLOSED)

(C.M.O)

All test by STAT FAX - 3300 Auto Analyser
This report is not valid for medico legal purpose

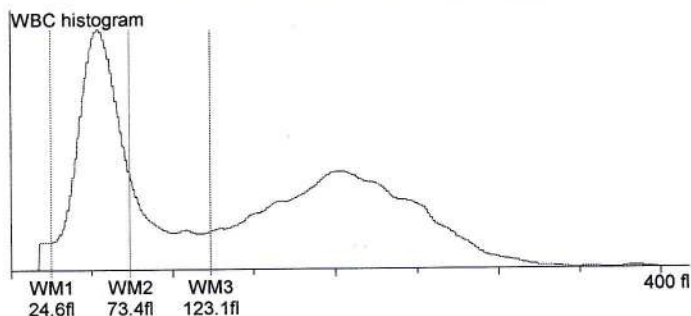
ID: SH.NAVEEN PRAKASH

Birth date: 0000-00-00
Sex: Male

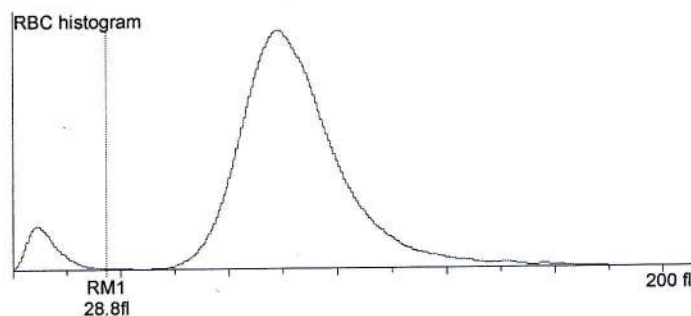
Measure type: Human
Sample ID: 6401

Doctor: S.K.Chaudhary
Date: 2021-08-27

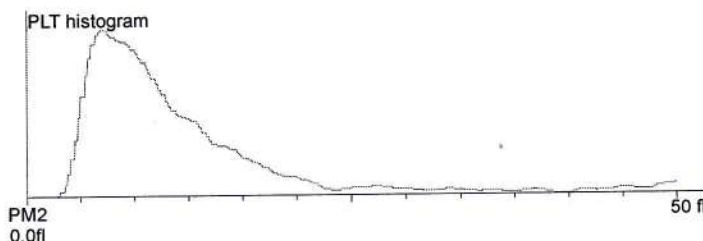
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WBC:	7.32 $10^9/l$	[3.50 - 10.50]
LYM:	2.66 $10^9/l$	[1.30 - 4.00]
MID:	0.43 $10^9/l$	[0.15 - 0.70]
GRA:	4.24 $10^9/l$	[2.50 - 7.50]
LYM%:	36.30 %	[25.0 - 40.0]
MID%:	5.80 %	[3.0 - 7.0]
GRA%:	57.90 %	[50.0 - 75.0]



RBC:	4.56 $10^{12}/l$	[4.00 - 5.50]
HGB:	15.60 g/l	[12 - 17.4]
HCT:	40.14 %	[36.00 - 52.00]
MCV:	88.00 fl	[76 - 96]
MCH: +	34.30 pg	[27 - 32]
MCHC: +	38.90 g/l	[30 - 35]
RDWs: +	48.40 fl	[20.0 - 42.0]
RDWcv:	12.70 %	[0.0 - 0.0]



PLT:	280.00 $10^9/l$	[150 - 450]
PCT:	0.23 %	[0.00 - 0.00]
MPV:	8.30 fl	[8.0 - 15.0]
PDWs:	11.80 fl	[0.0 - 0.0]
PDWcv:	39.00 %	[0.0 - 0.0]



Doctor:



J.K.CEMENT WORKS, NIMBAHERA

PERIODICAL MEDICAL EXAMINATION

NAME:- LALKAR SINGH DEORA,

S/O:- BHANWER SINGH DEORA

AGE:- 28 YRS. , SEX:- Male. , Height:- 172Cm , Weight:- 59 KG .

Dept:-PROCESS, EMP. NO.13000953, B.M.I:- 20.00 (Normal weight).

Mark of identification: Black mole over chest.

Drug allergy: -

NOT KNOWN

History of any chronic diseases: - none

Family History, if any none

Digestive System-P/A Soft

Respiratory System -R.R. 14/min, Chest B/L clear

ECG WNL, CXR

CVS- H.R:- 80 /min. , B.P:- 110/70 mmhg, Heart sound S. S. heard

CNS NAD

Blood group& RH:- O+VE

Other investigations if any report attached

Medical advice -

Physical Fitness Fit

Lalkar

Signature of person examined

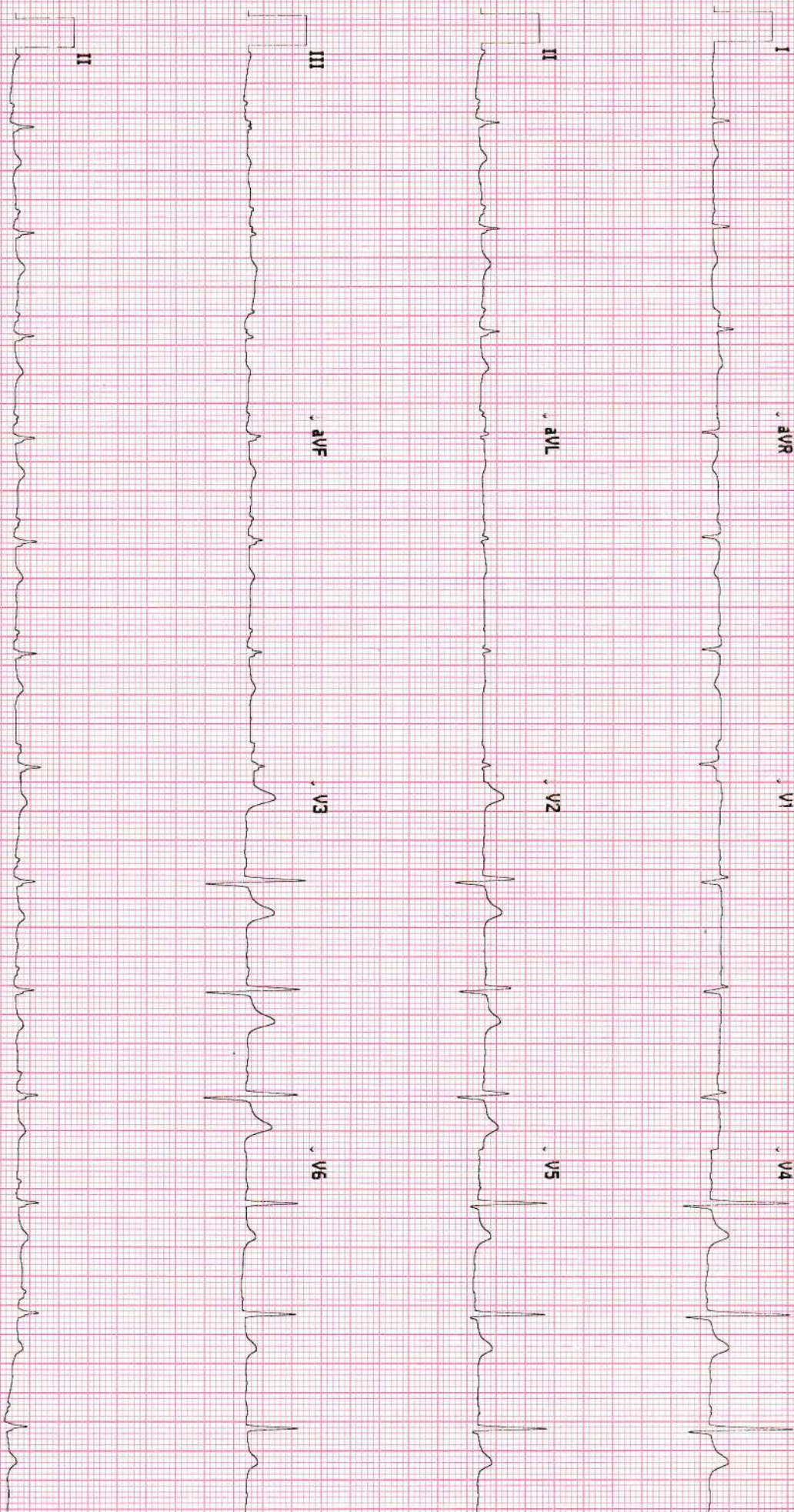
Date 19/08/21

Signature of qualified
Medical practitioner

ID: Leland Simon
DOB 05-Aug-1993
28yr, Male

Vent rate 80 BPM
PR int 143 ms
QRS dur 82 ms
QT/QTc 339/375 ms
P-R-T axes 68 51 59

SINUS RHYTHM
LOW QRS VOLTAGE IN EXTREMITY LEADS (QRS DEFLECTION < 0.5 mV IN LIMB LEADS)
BORDERLINE ECG
UNCONFIRMED REPORT



115390273745

Jkement

Site # 0 Cart # 0 Version 1.2.1 Sequence #05568 25mm/s 10mm/mV 0.05-40 Hz

CE



JK Cement LTD.

DISPENSARY LABORATORY

NIMBAHERA - 312617

Registration No. : 965 Relation : Age/Sex : 28/ M Date : 19-AUG-21
Name : SH.LALKAR SINGH DEORA
Emp.Code : Emp.Name: Deptt. :
Ref.by Dr. : SH.S.K.CHAUDHARY

URINE TEST REPORT

FACTORS	RESULT	Dr.Remark
Colour		
SP Gravity		
Deposit		
Appearance		
Reaction		
Sugar	NIL	
Albumin	NIL	
Acetone Bodies		
Bile Salts		
Bile Pigments		
Blood		
Pus Cells		
R.B.Cs		
Epithelial Cell		
Crystals		
Casts		
Bacteria		

(SATURDAY CLOSED)

(C.M.O.)

This report is not valid for medico legal purpose

19-Aug-2021 17:39:06

ar singh

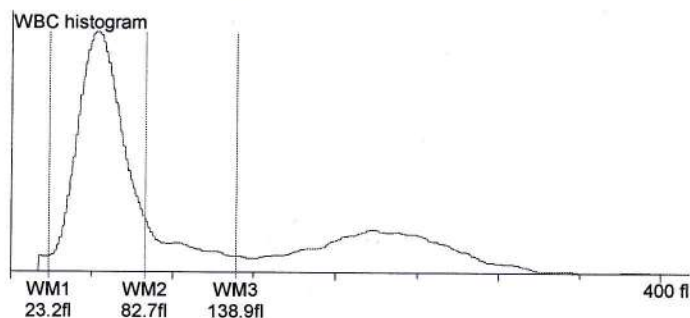
Patient ID:
Name: SH.LALKAR SINGH DEORA

Birth date: 0000-00-00
Sex: Male

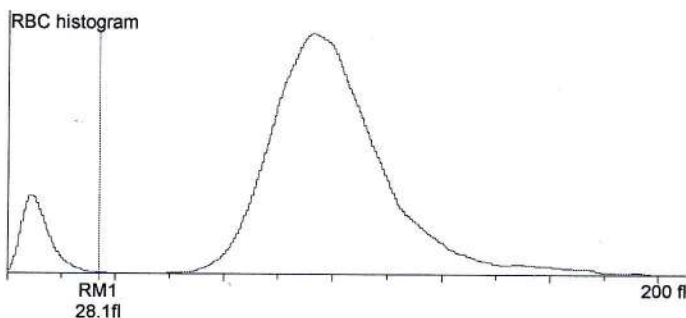
Measure type: Human
Sample ID: 6350

Doctor: S.K.Chaudhary
Date: 2021-08-19

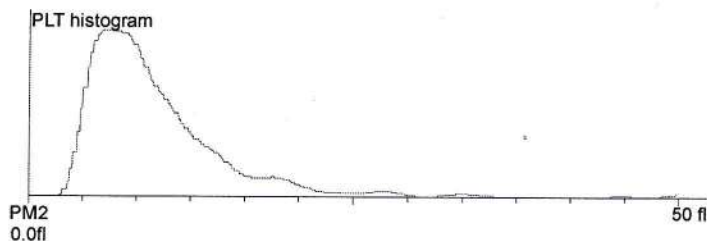
Parameter:	Result:	Limit:
WBC:	7.75 $10^9/l$	[3.50 - 10.50]
LYM: +	4.43 $10^9/l$	[1.30 - 4.00]
MID: +	0.70 $10^9/l$	[0.15 - 0.70]
GRA:	2.61 $10^9/l$	[2.50 - 7.50]
LYM%: +	57.20 %	[25.0 - 40.0]
MID%: +	9.10 %	[3.0 - 7.0]
GRA%: -	33.70 %	[50.0 - 75.0]



RBC: -	3.81 $10^{12}/l$	[4.00 - 5.50]
HGB:	14.80 g/l	[12 - 17.4]
HCT:	38.44 %	[36.00 - 52.00]
MCV: +	101.00 fl	[76 - 96]
MCH: +	38.90 pg	[27 - 32]
MCHC: +	38.50 g/l	[30 - 35]
RDWs: +	55.50 fl	[20.0 - 42.0]
RDWcv: 12.70 %		[0.0 - 0.0]



PLT:	325.00 $10^9/l$	[150 - 450]
PCT:	0.25 %	[0.00 - 0.00]
MPV: -	7.70 fl	[8.0 - 15.0]
PDWs:	9.90 fl	[0.0 - 0.0]
PDWcv: 36.90 %		[0.0 - 0.0]



Doctor: