

JKC/ENV/EC/13 B/

Date: 04.11.2025

The Director,

Ministry of Environment, Forest & Climate Change (Integrated Regional Office)

A-209 & 218, "ARANYA BHAWAN", Jhalana Institutional Area, Jaipur-302004

Email: iro.jaipur-mefcc@gov.in

Subject: Six Monthly Report of Environmental Clearance conditions for- Expansion of Grey Cement production capacity from 13,33,530 TPA to 13,69,830 TPA by debottlenecking / internal modification and product mix change of Line-I (i.e. production of both grey and white clinker & cement from existing grey facility) by implementation of white & grey convertible facility in both Line - I & Line- II without any change in total granted capacity of Grey Clinker (8,77,950 TPA), White Clinker (4,95,000 TPA) & White Cement (5,54,400 TPA) at Village: Gotan, Tehsil: Merta, District: Nagaur (Rajasthan) by M/s. JK Cement Works, Gotan (Unit of J.K Cement Ltd.).

Ref.: EC letter No. J-11011/63/2008-IA-II dated August 18, 2008 & Letter No. EC22A009RJ183791 File no. IA-J-11011/63/2008-IA-II(I) dated 27.05.2022

Dear Sir,

Kindly refer to the above subject matter, we are submitting six monthly EC compliance reports for the period of April-September, 2025.

Following is the compliance status of environment clearance for production of cement as above referred letter:

Name of the Project : Expansion of Grey Cement line-1 from 471900 TPA to 508200 TPA with convertible facility - White Cement production 242659 TPA (Line - 2 project is on hold.)

Period of EC Compliance : From 1st April -2025 to 30th September-2025

As per MoEF&CC notification S.O. 5845(E), dated 26.11.2018, we are submitting herewith the compliance report to your good office through e-mail.

Thanking you,

Yours Faithfully,

For J K Cement Works, Gotan



Dr. Ranjeet Kumar Bagariya
(Authorised Signatory)

CC To:

Reg. A/d Member Secretary,
Rajasthan State Pollution Control Board
4, Institutional Area, Jhalana Doongari, Jaipur (Raj.) - 302 004

CPP

Reg. A/d Regional Officer,
Rajasthan State Pollution Control Board,
First Floor, Sehkar Bhoomi Vikas Bank Ltd., Nagaur- 341001

Encl: as above

Corporate Office

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Your (Half Yearly Compliance Report) has been Submitted with following details

Proposal No	IA/RJ/IND/261790/2022
Compliance ID	138055903
Compliance Number(For Tracking)	EC/M/COMPLIANCE/138055903/2025
Reporting Year	2025
Reporting Period	01 Dec(01 Apr - 30 Sep)
Submission Date	04-11-2025
RO/SRO Name	Dr G Trinadh Kumar
RO/SRO Email	agmu174.ifs@nic.in
State	RAJASTHAN
RO/SRO Office Address	Integrated Regional Offices, Gandhi Nagar
Note:- SMS and E-Mail has been sent to Dr G Trinadh Kumar, RAJASTHAN with Notification to Project Proponent.	

Half Yearly Compliance Report

2025

01 Dec(01 Apr - 30 Sep)

Acknowledgement

Proposal Name	Expansion of Grey Cement production capacity from 13,33,530 TPA to 13,69,830 TPA by debottlenecking / internal modification and product mix change of Line-1 (i.e. production of both grey and white clinker and cement from existing grey facility) by implementation of white and grey convertible facility in both Line - I and Line- II without any change in total granted capacity of Grey Clinker (8,77,950 TPA), White Clinker (4,95,000 TPA) and White Cement (5,54,400 TPA) at Village: Gotan, Tehsil: Merta, Dis																		
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Village(s)	GOTAN																		
District	NAGAU																		
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Entity's PAN	*****0355R																		
Entity name as per PAN	J K CEMENT LIMITED																		

Compliance Reporting Details

Reporting Year 2025

Remarks (if any) Line-II Project is on Hold.

Reporting Period 01 Dec(01 Apr - 30 Sep)

Details of Production and Project Area

Name of Entity / Corporate Office J K CEMENT WORKS GOTAN

	Project Area as per EC Granted	Actual Project Area in Possession
Private	68.99	68.99
Revenue Land	0	0
Forest	0	0
Others	0	0
Total	68.99	68.99

Production Capacity

Sr. no	Product Name	units	Valid Upto	Capacity	Production last year	Capacity as per CTO
1	Grey Clinker	Tons per Annum (TPA)	31/07/2027	262500	0	262500
2	Grey Cement	Tons per Annum (TPA)	31/07/2027	508200	0	508200
3	White Clinker	Tons per Annum (TPA)	31/07/2027	216660	61050	216660
4	White Cement	Tons per Annum (TPA)	31/07/2027	242659	0	242659

Conditions

Specific Conditions

Sr.No.	Condition Type	Condition Details
1	GREENBELT	Three tier green belt are from 19ha. to 23ha. To achieve 33 percent of the project area shall be completed by monsoon season 2022 with native species all along the periphery of the project site of adequate width and tree density shall not be less than 2500 per ha. Survival rate of green belt developed shall be monitored on periodic basic to ensure that damaged plants are replaced with new plants in the subsequent years. Compliance status in thin regard, shall be submitted to concerned Regional Office, of the MOEFCC.

PPs Submission: Complied

We have successfully developed and maintained a robust green belt covering more than 33 percent of the total plant area, featuring species such as Neem, Desi Ashok, Pendular Ashok, Arjun, Conocarpus, and the State Tree Khejri, strategically planted around the plant boundary, nearby areas, and the colony. This effort has resulted in a total plantation area of 24.55 hectares with 45407 surviving saplings and a 67.02 percent survival rate. We actively conduct gap filling every monsoon season to increase density, having planted 1112 new trees in the last session, and are planning a significant expansion of approximately 3,000 additional trees for the upcoming monsoon session. Greenbelt Photos is attached in Annexure-1.

Date:
04/11/2025

2	GREENBELT	Greening and paving shall be implemented in the plant area to arrest soil erosion and dust pollution from the exposed soil surface.
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PPs Submission: Complied

We have already implemented comprehensive measures to control soil erosion and fugitive dust emissions, thereby meeting the intent of the condition. This includes the successful concreting of high-traffic movement areas, which stabilizes the ground surface, and the extensive greening through the development and maintenance of our plant's green belt. Furthermore, we maintain dust control through the continuous adoption of improved housekeeping procedures. Photos of pucca road/ concreted surface is attached in Annexure-2.

Date:
04/11/2025

3	Risk Mitigation and Disaster Management	Ammonia Gas Detectors shall be installed at the storage site and the kiln stack for detecting leakage / seepage of ammonia gas.
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PPs Submission: Complied

We have installed Ammonia Gas Detectors at the storage site and the kiln stack for detecting leakage / seepage of ammonia gas. (SNCR) that is also interlocked with operation.

Date:
04/11/2025

4	AIR QUALITY MONITORING AND PRESERVATION	All stockyards shall have impervious flooring and shall be equipped with water spray system for dust suppression. Stock yards shall also have garland drains to trap the run off material.	
PPs Submission: Complied All stockyards are fully compliant with the environmental conditions. The stockyards are maintained with impervious flooring and are effectively equipped with a functional water spray system for comprehensive dust suppression, operating as required and designed. Furthermore, garland drains are in place around the stockyards and are properly maintained to successfully trap and manage any material run-off, thereby preventing environmental contamination.			Date: 04/11/2025
5	AIR QUALITY MONITORING AND PRESERVATION	Particulate matter emission from all the stacks shall not exceed 30 mg/Nm ³ .	
PPs Submission: Complied Particulate matter emission from all the stacks are well within limit of 30 mg/Nm ³ . and OCEM system has installed at site for monitoring and connected with PCBs servers. Photos of OCEMS and Connectivity on PCBs Server attached in Annexure-3.			Date: 04/11/2025
6	MISCELLANEOUS	Slip road shall be provided at gates and along crossing on main gate.	
PPs Submission: Complied Slip roads have been provided at the specified locations to ensure safe and efficient traffic flow. Specifically, they are installed at all gates and along the crossing on the main gate, ensuring full compliance with the traffic management requirement.			Date: 04/11/2025
7	AIR QUALITY MONITORING AND PRESERVATION	Performance monitoring of all pollution control device shall be carried out annually and report shall be submitted to MoEF CC, Regional Office.	
PPs Submission: Being Complied Performance monitoring of all pollution control devices are carried out by RSPCB Lab during inspections as well as accredited lab on quarterly basis. Monitoring Reports attached in Annexure-4			Date: 04/11/2025
8	MISCELLANEOUS	All internal roads and connecting road from project site to main highway shall be developed and maintained with suitable Million Axle Standard (MSA) as per traffic load due to existing and proposed project.	
PPs Submission: Complied All internal roads and the connecting road from the project site to the main highway are developed and consistently maintained to the required standards. The roads are currently at a Million Standard Axle (MSA) specification appropriate for the existing and proposed project traffic load, ensuring they meet all stipulated traffic norms and the design capacity for safe and effective transport.			Date: 04/11/2025
9	MISCELLANEOUS	Covered shed and toe walls shall be provided for raw material storage to check any attrition of raw materials. Storage shed shall have garland drains, material trap and shall be built on concrete platform.	
PPs Submission: Complied A covered shed and toe walls have been provided to effectively prevent the attrition of raw materials. The storage shed is constructed on a concrete platform and is fully equipped with garland drains and a material trap to manage run-off and ensure environmental protection.			Date: 04/11/2025
10	AIR QUALITY MONITORING AND PRESERVATION	Following addition arrangements to control fugitive dust shall be provided. a) Fog/ Mist sprinklers at all conveyors point and on bulk raw material storage area (at the transfer points) like Iron Ore, Coal,	

		and Fly ash and similar solid waste storage areas. b) Proper covered vehicle shall be used while transport of material. c) Wheel washing mechanism shall be provided in entry and exists gate.	
	PPs Submission: Complied Mist sprinklers are installed and fully operational at all conveyor transfer points and at bulk raw material storage areas. Proper covered vehicles are utilized for the transport of all raw materials and finished products, with compliance strictly enforced at the factory gate. The wheel washing mechanism is currently not provided because as per the site feasibility condition, it is not required. This decision is based on the facility utilizing a dry process and maintaining paved ('pucca') and well-maintained roads throughout the site, which minimizes the tracking of external dust.		Date: 04/11/2025
11	WATER QUALITY MONITORING AND PRESERVATION	1166 KLD water after expansion shall be met from ground water sources as approved by the competent authority. Surface water sources like mine pit water, rain water harvested water and use of treated sewage water from nearby municipal corporation shall be explored and action plan in thin regard shall be submitted to the Regional Office of the MOEF CC for gradual phase out of the ground water in a time frame of two years from the date of issue of EC.	
	PPs Submission: Complied We have obtained NOC from CGWA and water consumption shall not exceed the limit up to 1100 KLD. Feasibility report has been carried out by accredited consultant M/s JM EnviroNet Pvt. Ltd. and same submitted to your good office, there is no possibility of using water from surface water sources surrounding. CGWA NOC Copy attached.		Date: 04/11/2025
12	WATER QUALITY MONITORING AND PRESERVATION	Rain Water Harvesting shall be carried out to recharge 200 percent of annual ground water withdrawal as committed by the PP.	
	PPs Submission: Complied We have provided very well Rainwater harvesting System for recharging more than 200 percent of annual ground water withdrawal. Drawing and other in Letter No.- JKC/ENV/13 A/ dated 26.11.2014 and subsequent correspondence to CGWA compliances on yearly basis as well as presented during the NOC renewal EAC of CGWA, on base of these system we have received the Ground Water Abstraction Charge 50 percent rebate and NOC renewal on time.		Date: 04/11/2025
13	AIR QUALITY MONITORING AND PRESERVATION	Particulate matter emissions from all the stacks shall be less than 30 mg/Nm ³ .	
	PPs Submission: Complied Particulate matter emission from all the stacks are well within limit of 30 mg/Nm ³ . and OCEM system has installed at site for monitoring and connected with PCBs servers. OCEMS and connectivity with PCBs Photos is attached in Annexure-3.		Date: 04/11/2025
14	AIR QUALITY MONITORING AND PRESERVATION	Dioxin and furans shall be monitored twice a year during co-processing of hazardous waste and report shall be submitted to the Regional Office of the MOEF CC.	
	PPs Submission: Being Complied Dioxin and Furans is being monitored twice a year during co-processing and reports are being sent to Regional Office of MoEFCC. Due to frequent plant shutdown in this FY, monitoring not done. Last monitoring report in Annexure-5		Date: 04/11/2025
15	AIR QUALITY MONITORING AND PRESERVATION	Petcoke dosing shall be controlled automatically to control SO ₂ emission from chimney within the prescribed limit.	

PPs Submission: Complied SO2 emission is very less and are well within prescribed limit and are controlled automatically.		Date: 04/11/2025
16	AIR QUALITY MONITORING AND PRESERVATION	Develop a control strategy and plan that incorporates the pollution control measures. The clean air practice shall be adopted like mechanical collectors, wet scrubbers, fabric filters (bag house) electrostatic precipitator, combustion system (thermal oxidizers), condensers, absorbers and biological degradation. Controlling emission related to transportation shall include emission controls on vehicle as well as use of cleaner fuels.
PPs Submission: Complied Clean air practice has been adopted. Bag filter has been installed at all material transfer points and ESP has been installed at main stacks. Dust suppression system and water sprinkling system has been also installed. Stock yard is fully covered and arrangements for water sprinkling have been made to reduce fugitive emission. The unit has also deployed road sweeping machine and industrial vacuum cleaners. Photos attached in Annexure-6.		Date: 04/11/2025
General Conditions		
Sr.No.	Condition Type	Condition Details
1	Statutory compliance	The Environment Clearance (EC) granted to the project/ activity is strictly under the provisions of the EIA Notification, 2006 and its amendments issued from time to time. It does not tantamount / construe to approval/ consent / permission etc. required to be obtained or standards / conditions to be followed under any other Acts/ Rules / Subordinate legislation etc. as may be applicable to the project.
PPs Submission: Complied Agreed and we are complying the same.		Date: 04/11/2025
2	AIR QUALITY MONITORING AND PRESERVATION	The project proponent shall install 24X7 continuous Monitoring System (CEMS) at process stacks to monitor stack emission as well as 4 nos. Continuous Ambient Air Quality Stations (CAAQS) for monitoring of AAQ parameters with respect to the standards prescribed in Environment Protection Rules, 1986 as amended from time to time. The CEMS and CAAQMS shall be connected to SPCB and CPCB online server and calibrate these systems from time to time according to equipment supplier specification through labs recognized under Environment Protection Rules, 1986 or NABL accredited laboratory.
PPs Submission: Complied Continuous Monitoring System (CEMS) is installed at all process stacks and Four CAAQM stations are installed at site and connected to RSPCB and CPCB servers for online monitoring. Apart from this, we also get monitoring done from approved labs on regular basis. Besides, RSPCB also conducts monitoring inspections from time to time. Calibration Report by authorised third party is attached in Annexure-7.		Date: 04/11/2025
3	AIR QUALITY MONITORING AND PRESERVATION	The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.
PPs Submission: Complied Every Bag filter (plus jet) facility equipped the leakage detection system through DP monitoring by CCR operators.		Date: 04/11/2025

4	AIR QUALITY MONITORING AND PRESERVATION	The project proponent 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.	
PPs Submission: Complied The covered transportation and conveying for ore, coal and other raw material has provided to prevent spillage and dust generation. Transportation of all powder form of raw materials and finished product are done by means of covered conveyor system and fly ash is handled through bulkers with pneumatic system.			Date: 04/11/2025
5	WATER QUALITY MONITORING AND PRESERVATION	Garland drains and collection pits shall be provided for each stock pile to arrest the run-off in the event of heavy rains and check the water pollution due to surface run off.	
PPs Submission: Complied Garland drains has been provided at stock pile area to arrest the run off in heavy rains.			Date: 04/11/2025
6	AIR QUALITY MONITORING AND PRESERVATION	The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through labs recognized under Environment Protection Rules, 1986.	
PPs Submission: Being Complied We are monitoring fugitive emissions in the plant premises at least every quarter on specific fugitive emissions areas. We are already taking care for controlling the fugitive dust emission by adopting better house-keeping, concreting the movement areas and development of green belt. Bag filters have been provided at material transfer points, packing, loading and unloading points. Further, quarterly AAQM reports are submitted accordingly.			Date: 04/11/2025
7	AIR QUALITY MONITORING AND PRESERVATION	The project proponent shall provide wind shelter fence and chemical spraying on the material stock piles.	
PPs Submission: Complied Covered shed for raw materials and fuels has been provided and chemical spraying not applicable at site. Covered Shed photo is attached in Annexure-8.			Date: 04/11/2025
8	AIR QUALITY MONITORING AND PRESERVATION	Ventilation system shall be designed for adequate air charges as per the prevailing norms for all tunnels, motors houses and cement bagging plants.	
PPs Submission: Complied We have provided proper ventilation system for required sites.			Date: 04/11/2025
9	WATER QUALITY MONITORING AND PRESERVATION	The project proponent shall install 24X7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules, 1986 vide G.S.R. No. 612 (E) dated 25th August 2014 (Cement and subsequent amendment dated 09th May, 2016 (Cement) and 10th May, 2016 9in case of co-processing cement) as amended from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.	
PPs Submission: Being Complied No any process effluent generated from cement process. Only domestic water effluent generated and treated at STP. Treated water use in plantation and maintained ZLD premises. We have install 24X7 continuous effluent monitoring PTZ camera and flow meter with respect to standards. Both are connected with PCBs servers.			Date: 04/11/2025
10	WATER QUALITY	The project proponent shall regularly ground water quality at least	

	MONITORING AND PRESERVATION	twice a year (pre-and post-monsoon) at sufficient number of piezometers/sampling wells in the plant and adjacent area through labs recognized under Environmental (protection) Act 1986 and NABL accredited laboratories.
PPs Submission: Being Complied We are monitoring groundwater quality twice a year (pre and post monsoon) at our borewells in our premise through labs recognized under Environment (Protection) Act, 1986 and NABL accredited laboratories. For ground water level monitoring, AWLR (Piezometer) has been installed at two locations connected with vendor server for real time monitoring. Monitoring Reports is attached in Annexure-9.		Date: 04/11/2025
11	WATER QUALITY MONITORING AND PRESERVATION	Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards.
PPs Submission: Complied Sewage Treatment Plant has been installed for treatment of all domestic waste water and is being used in plantation meeting the prescribed standards. RSPCB also conducts monitoring inspections from time to time. Monitoring reports attached in Annexure-10.		Date: 04/11/2025
12	WATER QUALITY MONITORING AND PRESERVATION	Water meters shall be provided at the inlet to all unit processes in the cement plant.
PPs Submission: Complied Water meters has been provided at inlets of processes.		Date: 04/11/2025
13	WATER QUALITY MONITORING AND PRESERVATION	The project proponent shall make efforts to minimize water consumption in the cement plant complex by segregation of used water, practicing cascade use and by recycling treated water.
PPs Submission: Complied We are doing efforts to minimize water consumption in the cement plant with new technology adaption. Water audit is being carried out periodically to identify the opportunites for water saving and recommendations is being implemented.		Date: 04/11/2025
14	Noise Monitoring & Prevention	Noise quality shall be monitored as per the prescribed Noise Pollution (Regulation and Control) Rules, 2000 and report in this regard shall be submitted to regional officer of the Ministry as a part of six-monthly compliance report.
PPs Submission: Being Complied Regular noise monitoring is being done around plant boundary. Noise levels are well within stipulated norms. Proper enclosures have been provided at high noise area. PPEs have been provided to all the workers. Reports are being submitted along with this six monthly compliance report. Reports attached in Annexure-11.		Date: 04/11/2025
15	WATER QUALITY MONITORING AND PRESERVATION	Tyre washing facility shall be provided at the entrance and exit of the plant gates.
PPs Submission: Agreed to Comply No as such sludge/sticky materials is being transported at site.		Date: 04/11/2025
16	ENERGY PRESERVATION MEASURES	Waste heat recovery system shall be provided for kiln and cooler.

PPs Submission: Complied The Existing Line-1 is not feasible and Line-II project hold presently, further we will install the same as per feasibility of project.		Date: 04/11/2025
17	ENERGY PRESERVATION MEASURES	The project proponent shall make efforts to achieve power consumption less than 65 unit/ton for Portland pozzolana Cement (PPC) and 85 unit/ton for the ordinary Portland cement (OPC) production and thermal energy consumption of 670 Kcal/Kg of clinker.
PPs Submission: Agreed to Comply We will make efforts to achieve the same for grey cement production.		Date: 04/11/2025
18	ENERGY PRESERVATION MEASURES	Provide solar power generation on roof tops of buildings, for solar light system for all common areas street lights, parking around project area and maintain the same regularly.
PPs Submission: Complied We have installed solar power generation on rooftops of capacity 100 KWh for lighting of street lights, parking and other required areas. Photos attached in Annexure-12.		Date: 04/11/2025
19	ENERGY PRESERVATION MEASURES	Provide the project proponent for LED lights in their offices and residential areas.
PPs Submission: Complied We have provided LED lights at all premises for lighting.		Date: 04/11/2025
20	WASTE MANAGEMENT	Used refractories shall be recycled as far as possible.
PPs Submission: Complied We are provide to OEM for the recycling.		Date: 04/11/2025
21	GREENBELT	The project proponent shall prepare GHG emissions inventory for the plant and shall submit the program for reduction of the same including carbon sequestration by tree in the plant premises.
PPs Submission: Being Complied M/s JK Cement Ltd make sustainability report and track of GHG and others targets. IR report by third party being published by third party and available on website for public domain. Link is Below: https:// www.jkcement.com/investor-relationship/		Date: 04/11/2025
22	GREENBELT	The project proponent shall submit a study report on Decarbonization program, which would essentially consist of company carbon emissions, carbon budgeting/balancing, carbon sequestration activities and carbon capture, use and storage and offsetting strategies. Further, the report shall also contain time bound action plan to reduce its carbon intensity of its operations and supply chain, energy transition pathway from fossil fuels to renewable energy etc. All these activities/ assessment should be measurable and monitor able with defined time frames
PPs Submission: Being Complied M/s JK Cement Ltd make sustainability report and track of GHG and others targets. IR report by third party being published by third party and available on website for public domain. Link is Below: https:// www.jkcement.com/investor-relationship/		Date: 04/11/2025
23	PUBLIC HEARING	Emergency preparedness plan based on the hazardous identification and Risk Assessment(HIRA) and Disaster Management Plan shall be

implemented.

PPs Submission: Complied

Onsite Emergency Plan based on HIRA and Disaster Management Plan has been prepared and implemented at site. OEP attached in Annexure-13.

Date:
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PUBLIC HEARING

The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide personal protection equipment (PPE) as per norms.

PPs Submission: Being Complied

Safety Department has been established and heat stress analysis being carried out periodically for workmen who work in high temperature zone. Accordingly, PPEs is being provided as norms.

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PUBLIC HEARING

Occupational health surveillance of the workers shall be done on a regular basis and records maintained.

PPs Submission: Being Complied

Periodic health checkup of all the employees is conducted at our OHC (Dispensary) where all facilities are available. The records is maintained and attached in Annexure-15.

Date:
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Corporate Environmental Responsibility

The project proponent shall comply with the provisions contained in this Ministry OM vide F. NO.22-65/2017-IA.III dated 30/09/2020.

PPs Submission: Being Complied

Agreed, We are continually working for community welfare along with eco-developmental in the nearby villages of the unit area under of CSR for overall improvement of the environment and community welfare.

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Corporate Environmental Responsibility

The company shall have a well laid down environmental policy duly approved by the board of Directors. The environment policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviations/violation of the environment/ forest/ wildlife norms/conditions and /or shareholders/stakeholders. The copy of board resolution in this regard shall be submitted to MoEF CC as a part of six monthly report.

PPs Submission: Complied

Company have a well laid down environmental policy duly approved by board of directors available on company websites. Corporate Environment Policy is attached in Annexure-15.

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Corporate Environmental Responsibility

A separate Environmental Cell both at the project and company headquarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of organization.

PPs Submission: Complied

Environmental Management Cell has been setup. The Factory Manager looks after the total control of pollutions, monitoring and maintenance of pollution control devices with the help of Technical - Head along with Environment Department, Environment Officers, Engineers and trained team.

Date:
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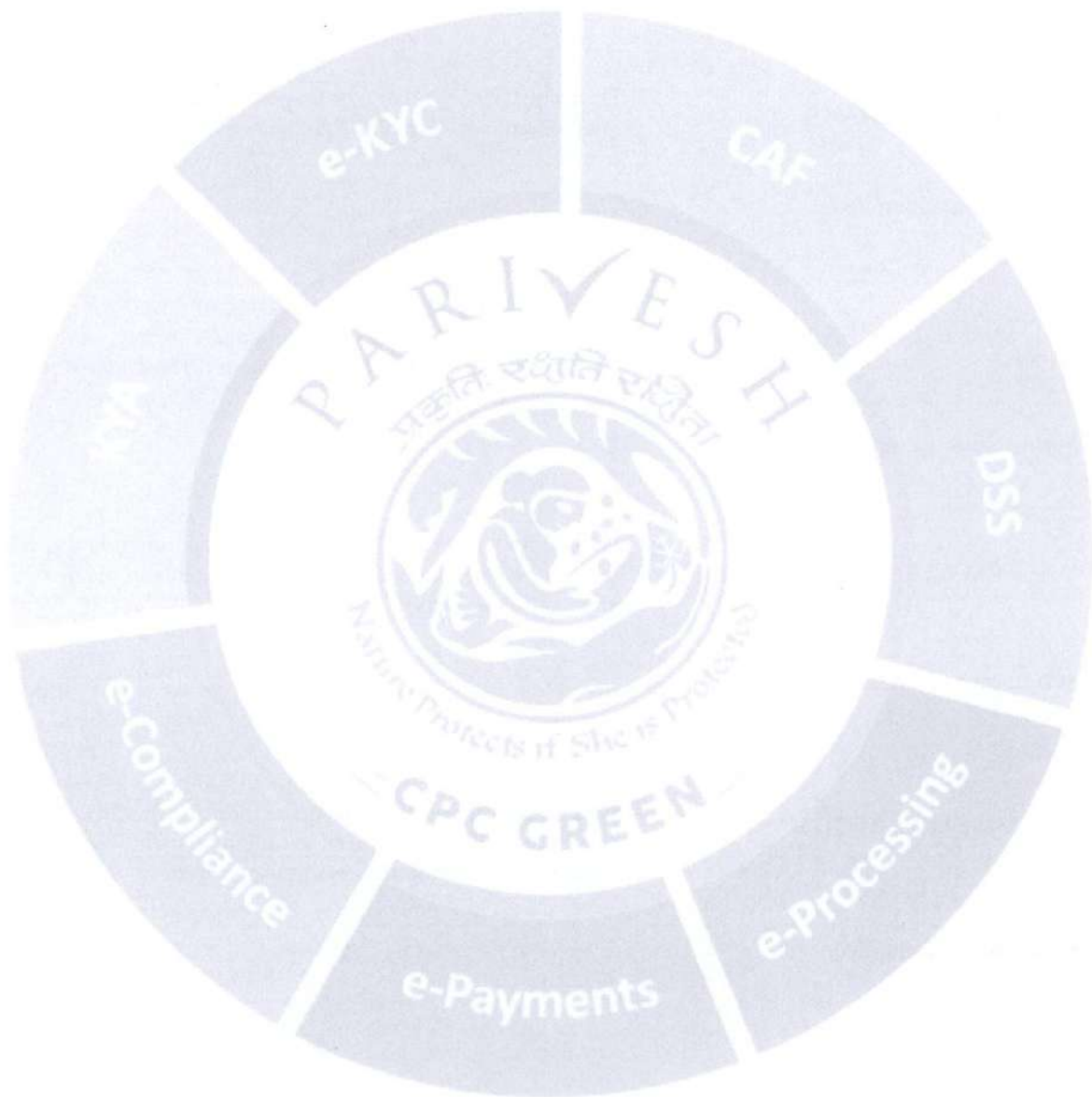
MISCELLANEOUS

The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the district or state, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponents website permanently.

PPs Submission: Complied Expansion EC: advertised in Rajasthan Dainak Navjyoti and Dainik Bhasker on dated 30.05.2022. Copies are already submitted to your good office earlier compliance report.		Date: 04/11/2025
30	MISCELLANEOUS	The copy of the environment clearance shall be submitted by the project proponents to the head of local bodies, panchayats and municipal body in addition to the relevant offices of the government who in turn has to display the same for 30 days from date of receipt.
PPs Submission: Complied We have submitted the copy of the environment clearance to local bodies and Gram Panchayat Gotan within time frame dated 23.06.2022		Date: 04/11/2025
31	MISCELLANEOUS	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including result of monitored data on their web site and upload on half-yearly basis.
PPs Submission: Being Complied Status of compliance stipulated in environment clearance conditions is being uploaded periodically on company websites.		Date: 04/11/2025
32	MISCELLANEOUS	The project proponent shall monitor the criteria of 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.
PPs Submission: Being Complied Applicable norms in being followed and monitoring done as per CTO conditions and reports are made available on company website.		Date: 04/11/2025
33	MISCELLANEOUS	The project proponent shall submit six monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of environment, forest and climate change at environmental clearance portal.
PPs Submission: Being Complied Agreed, we are complying the same.		Date: 04/11/2025
34	MISCELLANEOUS	The project proponent 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 .
PPs Submission: Being Complied We are submitting every financial year in Form-V to the concerned State Pollution Control Board as prescribed and also put on the website of the company.		Date: 04/11/2025
35	MISCELLANEOUS	The project proponent shall inform the Regional Office as well as the ministry, the date of the financial closure and final approval of the project by the concerned authorities , commencing the land development work and start of production of the project.
PPs Submission: Complied There is no land development work applicable, our project is brown field and all the land is already in our possession. Even after getting EC for Line-II project, it has been hold and CTE (for machinery modification) of this project has not been obtained, currently, only Line-I CTE and CTO have been obtained.		Date: 04/11/2025

36	MISCELLANEOUS	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitments made during the public hearing and also that during the their presentation to EAC.
PPs Submission: Complied Noted. We will comply the same.		Date: 04/11/2025
37	MISCELLANEOUS	No further expansion or modification in the plant shall be carried out without prior approval of the MoEF CC.
PPs Submission: Complied Noted.		Date: 04/11/2025
38	MISCELLANEOUS	The ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
PPs Submission: Complied Noted.		Date: 04/11/2025
39	MISCELLANEOUS	Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of the Environment (Protection) Act 1986.
PPs Submission: Complied Noted.		Date: 04/11/2025
40	MISCELLANEOUS	The ministry reserves the right to stipulate additional conditions if found necessary. The company in the time bound manner shall implement these conditions.
PPs Submission: Complied Noted.		Date: 04/11/2025
41	MISCELLANEOUS	The regional office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer(s) of the regional office by furnishing the requisite data/ information/ monitoring reports.
PPs Submission: Complied Noted.		Date: 04/11/2025
42	MISCELLANEOUS	Any appeal against this EC shall lie with the National Green Tribunal, if preferred , within a period of 30 days as prescribed under section 16 of the National Green Tribunal Act, 2010.
PPs Submission: Complied Noted.		Date: 04/11/2025
Visit Remarks		
Last Site Visit Report Date:		N/A
Additional Remarks:		

Note: This acknowledgement is as per the details submitted by project proponent. In no way is this document to be considered as conclusion on any action on the compliance of the project. This is strictly for the project proponent's reference purpose.

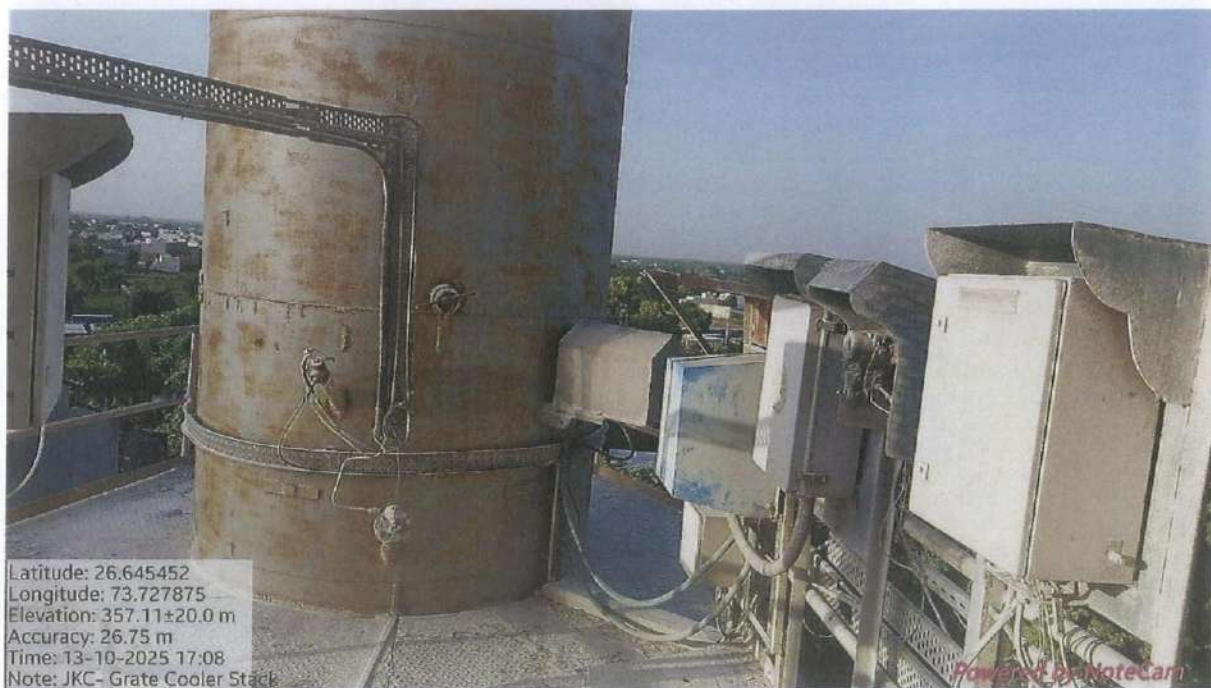


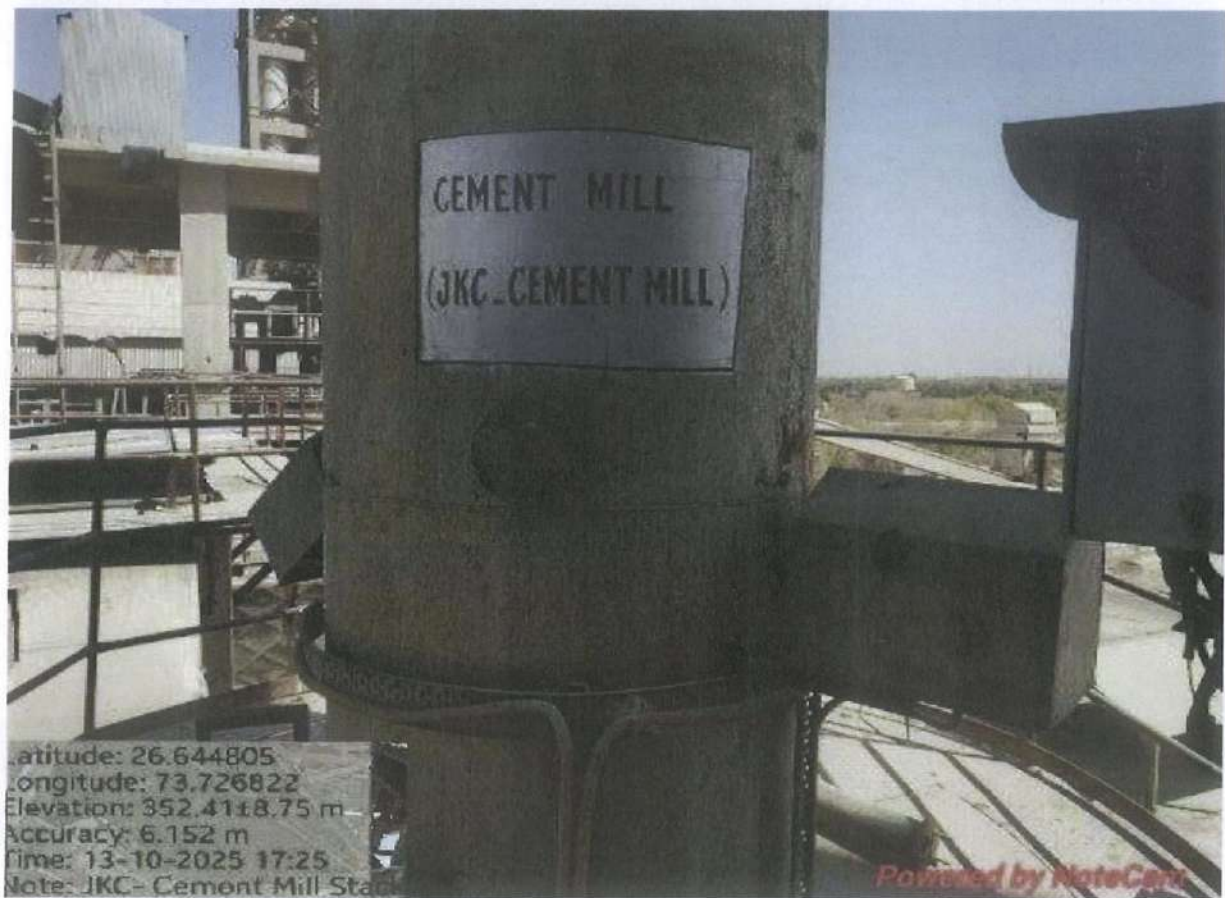


Annexure- 02



OCEMS Photos





Central Pollution Control Board

Welcome Industry (Logout) Menu

Dashboard / Industry Dashboard / JK Cement Works

2025-11-04 09:45 | 4. BHULANA INDUSTRIAL AREA | Report Frequency: 0 (Last 7 Days) | Subsid Response

Live Readings

Emission | Effluent | Air

CEMS: 8 | Filtered: 8 | Total Stations: 9

Subsid Response

24.3 mg/Nm³ - PM
Limit: < 50.0 mg/Nm³
Range: - mg/Nm³
Last Received: 27 minutes ago
Diagnostic Status: Good

-1.4 mbar - Pressure
Limit: - mbar
Range: - mbar
Last Received: 27 minutes ago
Diagnostic Status: Good

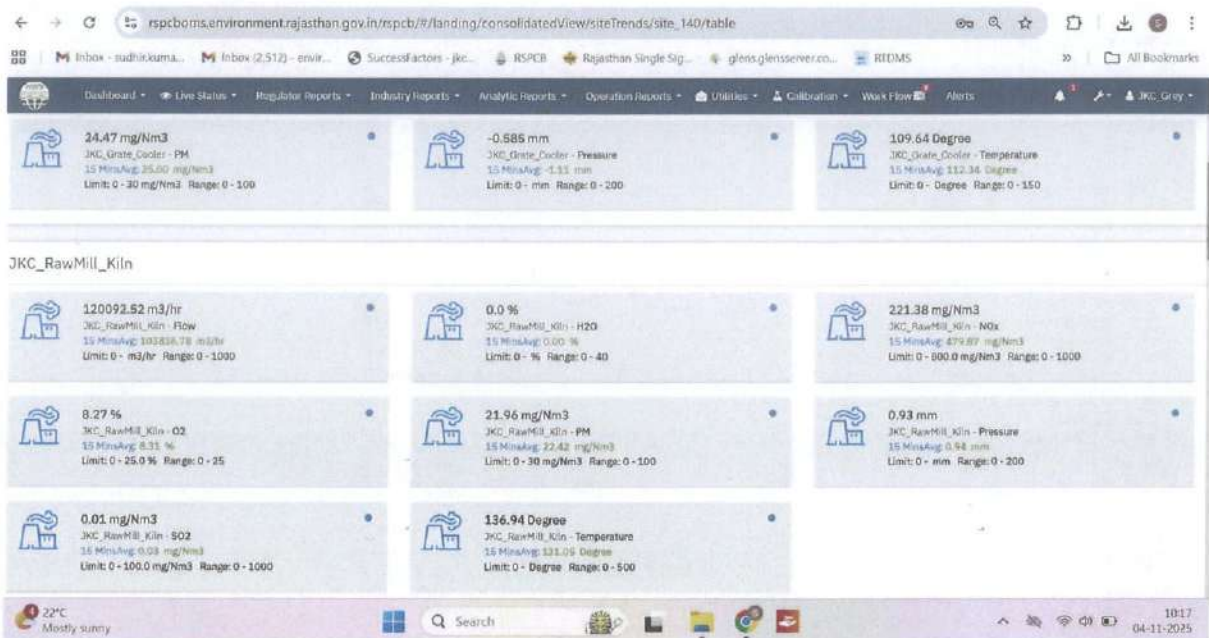
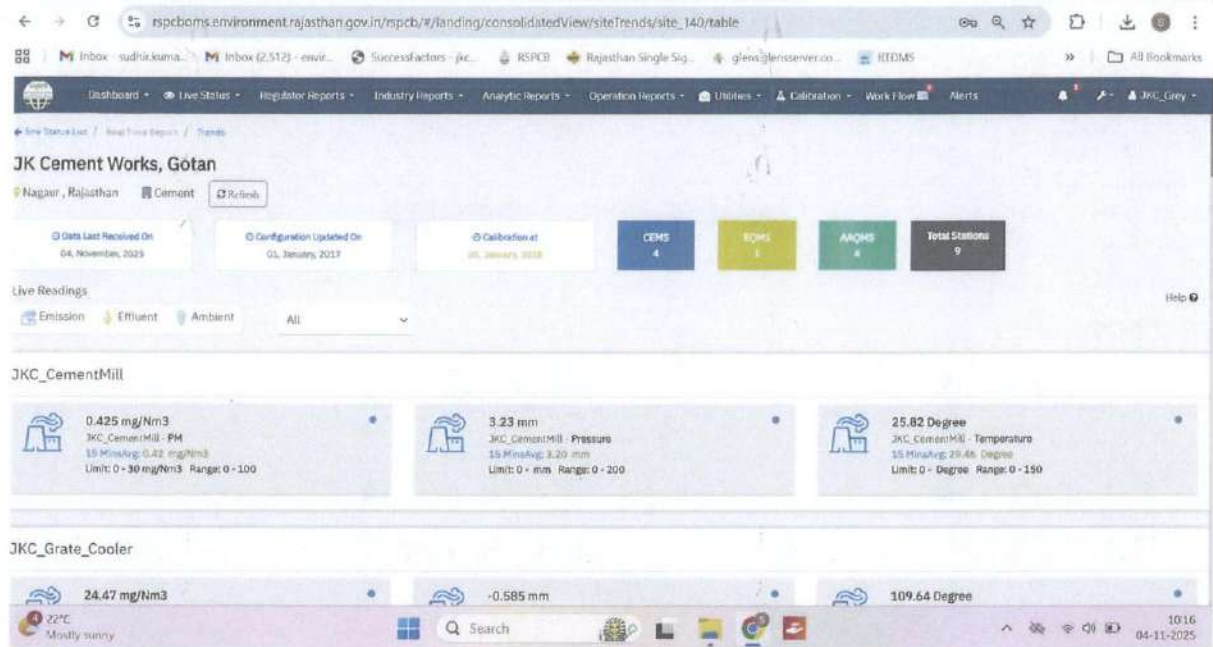
110.3 °C - Stack Temperature
Limit: - °C
Range: - °C
Last Received: 27 minutes ago
Diagnostic Status: Good

110.3 °C - Stack Temperature
Limit: - °C
Range: - °C
Last Received: 27 minutes ago
Diagnostic Status: Good

Stack2_Cement_Mill

Site best viewed at 1024 X 768 resolution in Mozilla 40.0 or above; Google Chrome 50.0 or above

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**VIBRANT**

Sample Number : VTL/S/14

Name & Address of the Party : M/S JK Cement Works
(Unit of JK Cement Ltd.) Vill. & PO. - Gotan Dist -
Nagaur, Rajasthan



TC-16019

VIBRANT TECHNO LAB PVT. LTD.

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TEST REPORT

Report No. : VTL/S/2506150015/A
Format No : 7.8 F-03
Party Reference No : GTN/WH/PVR/37/010/25-26
Report Date : 23/06/2025
Period of Analysis : 15/06/2025-23/06/2025
Receipt Date : 15/06/2025

Sample Description : Stack Emission Monitoring

General Information:-
Sampling Location : Raw Mill Kiln ESP
Sample Collected By : VTL Team
Date of Sampling : 12/06/2025
Sampling duration (Minutes) : 29 Min. (14:00 to 14:29 Hrs.)
Stack attached to : Bag House
Make of stack : MS
Diameter of stack(m) : 2.58 M
Height of stack(m) : 82 M
Instrument calibration status : Calibrated
Meteorological Condition : Clear Sky
Ambient Temperature - Ta (°C) : 42
Temperature of Stack Gases - Ts (°C) : 142
Velocity of Stack Gases (m/sec.) : 11.36
Flow rate of PM (LPM) : 35
Flow rate of Gas (LPM) : --
Sampling condition : OK
Protocol used : IS 11255 & USEPA
Coordinates : --

S.No.	Parameters	Test Method	Results	Units	Limits
1	Particulate Matter (PM)	IS: 11255 (P-1) : 1985, RA 2019	17.16	mg/Nm3	30

*BLQ= Below Limit Of Quantification; **LOQ= Limit Of Quantification

End of Report



Checked by



RK Yadav
Lab Incharge
Authorized Signatory



Corporate & Registered Office:

Plot No. Q-39, Shringarpura, Narayan Vihar Q,
Bhankrota, Jaipur 302026 (Raj.)

0141-2954638 bd@vibranttechnolab.com

www.vibranttechnolab.com

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Page No. 1/1

**VIBRANT**

Sample Number : VTL/S/14

Name & Address of the Party : M/S JK Cement Works

(Unit of JK Cement Ltd.) Vill. & PO. - Gotan Dist -
Nagaur, Rajasthan

TC-16019

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TEST REPORT

Report No. : VTL/S/2506150014/A
 Format No : 7.8 F-03
 Party Reference No : GTN/WH/PVR/37/010/25-26
 Report Date : 23/06/2025
 Period of Analysis : 15/06/2025-23/06/2025
 Receipt Date : 15/06/2025

Sample Description : Stack Emission Monitoring

General Information:-

Sampling Location : Ready Mix Mortar
 Sample Collected By : VTL Team
 Date of Sampling : 12/06/2025
 Sampling duration (Minutes) : 22 Min. (15:00 to 15:22 Hrs.)
 Stack attached to : Bag House
 Make of stack : MS
 Diameter of stack(m) : 0.75 M
 Height of stack(m) : 30 M
 Instrument calibration status : Calibrated
 Meteorological Condition : Clear Sky
 Ambient Temperature - Ta (°C) : 43
 Temperature of Stack Gases - Ts (°C) : 49
 Velocity of Stack Gases (m/sec.) : 11.35
 Flow rate of PM (LPM) : 45
 Flow rate of Gas (LPM) : --
 Sampling condition : OK
 Protocol used : IS 11255 & USEPA
 Coordinates : --

S.No.	Parameters	Test Method	Results	Units	Limits
1	Particulate Matter (PM)	IS: 11255 (P-1) : 1985, RA 2019	22.37	mg/Nm3	30

*BLQ= Below Limit Of Quantification, **LOQ= Limit Of Quantification

End of Report



Checked by

RK Yadav
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Authorized Signatory 

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Page No. 1/1

**VIBRANT**

Sample Number : VTL/S/16

Name & Address of the Party : M/S JK Cement Works
(Unit of JK Cement Ltd.) Vill. & PO. - Gotan Dist -
Nagaur, Rajasthan

TC-16019

VIBRANT TECHNO LAB PVT. LTD.ISO 9001, 14001 & 45001 Certified Company
EPA Recognized Laboratory | NABET Accredited EIA Consultant Organisation**TEST REPORT**Report No. : VTL/S/2506150016/A
Format No : 7.8 F-03
Party Reference No : GTN/WH/PVR/37/010/25-26
Report Date : 23/06/2025
Period of Analysis : 15/06/2025-23/06/2025
Receipt Date : 15/06/2025

Sample Description : Stack Emission Monitoring

General Information:-Sampling Location : Grate Cooler
Sample Collected By : VTL Team
Date of Sampling : 12/06/2025
Sampling duration (Minutes) : 21 Min. (13:00 to 13:21 Hrs.)
Stack attached to : Bag House
Make of stack : MS
Diameter of stack(m) : 2.00 M
Height of stack(m) : 30 M
Instrument calibration status : Calibrated
Meteorological Condition : Clear Sky
Ambient Temperature - Ta (°C) : 41
Temperature of Stack Gases - Ts (°C) : 198
Velocity of Stack Gases (m/sec.) : 18.05
Flow rate of PM (LPM) : 47
Flow rate of Gas (LPM) : --
Sampling condition : OK
Protocol used : IS 11255 & USEPA
Coordinates : --

S.No.	Parameters	Test Method	Results	Units	Limits
1	Particulate Matter (PM)	IS: 11255 (P-1) : 1985, RA 2019	19.91	mg/Nm3	30

*BLQ= Below Limit Of Quantification, **LOQ= Limit Of Quantification

End of Report



Checked by

RK Yadav
Lab Incharge
Authorized Signatory **Corporate & Registered Office:**Plot No. Q-39, Shringarpura, Narayan Vihar Q,
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TEST REPORT

Sample Number : VTL/S/03
Name & Address of the Party : M/S JK Cement Works
(Unit of JK Cement Ltd.) Vill. & PO. - Gotan Dist -
Nagaur, Rajasthan

Report No. : VTL/S/2509270003/A
Format No : 7.8 F-03
Party Reference No : GTN/WH/PVR/37/010/25-26
Report Date : 06/10/2025
Period of Analysis : 27/09/2025-06/10/2025
Receipt Date : 27/09/2025

Sample Description : Stack Emission Monitoring

General Information:-

Sampling Location : Raw Mill Kiln ESP
Sample Collected By : VTL Team
Date of Sampling : 24/09/2025
Sampling duration (Minutes) : 25 Min. (11:00 to 11:25 Hrs.)
Stack attached to : ESP
Make of stack : MS
Diameter of stack(m) : 2.58 M
Height of stack(m) : 82 M
Instrument calibration status : Calibrated
Meteorological Condition : Clear Sky
Ambient Temperature - Ta (°C) : 30
Temperature of Stack Gases - Ts (°C) : 130
Velocity of Stack Gases (m/sec.) : 12.53
Flow rate of PM (LPM) : 40
Flow rate of Gas (LPM) : -
Sampling condition : OK
Protocol used : IS 11255 & USEPA
Coordinates : -

S.No.	Parameters	Test Method	Results	Units	Limits
1	Particulate Matter (PM)	IS: 11255 (P-1) : 1985, RA 2019	16.54	mg/Nm3	30
2	Oxide of Nitrogen (NoX)	IS 11255 (P- 7) 2005, RA 2017	426	mg/Nm3	800.0
3	Sulphur Dioxide (SO2)	IS: 11255(P- 2): 1985, RA 2019	22.64	mg/Nm3	100
4	Carbon Monoxide (CO)	USEPA 10: 1996	15.2	mg/Nm3	-

*BLQ= Below Limit Of Quantification, **LOQ= Limit Of Quantification

End of Report



Checked by



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TEST REPORT

Sample Number : VTL/S/04
Name & Address of the Party : M/S JK Cement Works
(Unit of JK Cement Ltd.) Vill. & PO. - Gotan Dist -
Nagaur, Rajasthan

Report No. : VTL/S/2509270004/A
Format No : 7.8 F-03
Party Reference No : GTN/WH/PVR/37/010/25-26
Report Date : 06/10/2025
Period of Analysis : 27/09/2025-06/10/2025
Receipt Date : 27/09/2025

Sample Description : Stack Emission Monitoring

General Information:-
Sampling Location : Grate Cooler
Sample Collected By : VTL Team
Date of Sampling : 24/09/2025
Sampling duration (Minutes) : 20 Min. (12:10 to 12:30 Hrs.)
Stack attached to : Bag House
Make of stack : MS
Diameter of stack(m) : 2.00 M
Height of stack(m) : 30 M
Instrument calibration status : Calibrated
Meteorological Condition : Clear Sky
Ambient Temperature - Ta (°C) : 31
Temperature of Stack Gases - Ts (°C) : 184
Velocity of Stack Gases (m/sec.) : 18.13
Flow rate of PM (LPM) : 51
Flow rate of Gas (LPM) : --
Sampling condition : OK
Protocol used : IS 11255 & USEPA
Coordinates : --

S.No.	Parameters	Test Method	Results	Units	Limits
1	Particulate Matter (PM)	IS: 11255 (P-1) : 1935, RA 2019	18.40	mg/Nm3	30

*BLQ= Below Limit Of Quantification, **LOQ= Limit Of Quantification

End of Report



Checked by



RK Yadav
Lab Incharge
Authorized Signatory



Corporate & Registered Office:

- Plot No. Q-39, Shringarpura, Narayan Vihar Q,
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TEST REPORT

Sample Number : VTL/S/05

Name & Address of the Party : M/S JK Cement Works

(Unit of JK Cement Ltd.) Vill. & PO. - Gotan Dist -
Nagaur, Rajasthan

Report No. : VTL/S/2509270005/A

Format No : 7.8 F-03

Party Reference No : GTN/WH/PVR/37/010/25-26

Report Date : 06/10/2025

Period of Analysis : 27/09/2025-06/10/2025

Receipt Date : 27/09/2025

Sample Description : Stack Emission Monitoring

General Information:-

Sampling Location : Pet coke
Sample Collected By : VTL Team
Date of Sampling : 27/09/2025
Sampling duration (Minutes) : 22 Min. (09:00 to 09:22 Hrs.)
Stack attached to : Bag House
Make of stack : MS
Diameter of stack(m) : 0.85 M
Height of stack(m) : 40.59 M
Instrument calibration status : Calibrated
Meteorological Condition : Clear Sky
Ambient Temperature - Ta (°C) : 31
Temperature of Stack Gases - Ts (°C) : 54
Velocity of Stack Gases (m/sec.) : 11.87
Flow rate of PM (LPM) : 46
Flow rate of Gas (LPM) : --
Sampling condition : OK
Protocol used : IS 11255 & USEPA
Coordinates : --

S.No.	Parameters	Test Method	Results	Units	Limits
1	Particulate Matter (PM)	IS: 11255 (P-1) : 1985, RA 2019	9.26	mg/Nm3	30

*BLQ= Below Limit Of Quantification, **LOQ= Limit Of Quantification

End of Report



Checked by



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Lab Incharge
Authorized Signatory



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TEST REPORT

Sample Number : VTL/S/24
Name & Address of the Party : M/S JK Cement Works
(Unit of JK Cement Ltd.) Vill. & PO. - Gotan Dist -
Nagaur, Rajasthan

Report No. : VTL/S/2509270024/A
Format No : 7.8 F-03
Party Reference No : GTN/WH/PVR/37/010/25-26
Report Date : 06/10/2025
Period of Analysis : 27/09/2025-06/10/2025
Receipt Date : 27/09/2025

Sample Description : Stack Emission Monitoring

General Information:-
Sampling Location : Cement Mill
Sample Collected By : VTL Team
Date of Sampling : 27/09/2025
Sampling duration (Minutes) : 27 Min. (10:00 to 10:27 Hrs.)
Stack attached to : Bag House
Make of stack : MS
Diameter of stack(m) : 0.71 M
Height of stack(m) : 30 M
Instrument calibration status : Calibrated
Meteorological Condition : Clear Sky
Ambient Temperature - Ta (°C) : 28
Temperature of Stack Gases - Ts (°C) : 70
Velocity of Stack Gases (m/sec.) : 10.12
Flow rate of PM (LPM) : 38
Flow rate of Gas (LPM) : --
Sampling condition : OK
Protocol used : IS 11255 & USEPA
Coordinates : --

S.No.	Parameters	Test Method	Results	Units	Limits
1	Particulate Matter (PM)	IS: 11255 (P-1) : 1985, RA 2019	15.73	mg/Nm3	30

*BLQ= Below Limit Of Quantification, **LOQ= Limit Of Quantification

End of Report



Checked by



RK Yadav
Lab Incharge
Authorized Signatory



Corporate & Registered Office:

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Bhankrota, Jaipur 302026 (Raj.)

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Page No. 1/1

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

Vimta

Driven by Quality. Inspired by Science.

ISSUED TO:

M/S. J.K. CEMENT WORKS
Unit: - J.K. CEMENT LTD
P O. GOTAN, DIST-NAGPUR,
RAJASTHAN-342902
INDIA.

Report Number : VLL/VLS/24/011892/001
Issued Date : 2024.09.27
P.O. Number : 4600003732
P.O. Date : 22.07.2024

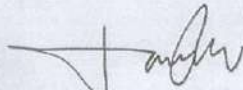
Page 1 of 3

SAMPLE PARTICULARS	:	Stack Emission Monitoring for Kiln ESP Stack (Co-Processing of Spent Carbon waste Mix Liquid and Distillation Residue with Pet Coke).			
Sample Registration Date	:	2024.09.20	Sample Collection Date	:	2024.09.17
Analysis Starting Date	:	2024.09.20	Analysis Completion Date	:	2024.09.27
Test Required	:	PM, SO ₂ , NO _x , HCl, HF, CO, O ₂ and TOC.			
Sample Collected by Vimta Labs Ltd.					

TEST REPORT

Sr. No.	Parameters	UoM	Method of Testing	Results	Limits as per MoE, F&CC Notification GSR 497(E)
1	Diameter of stack	m	-	2.58	--
2	Flue gas temperature	°C	-	116	--
3	Oxygen as O ₂	%	Flue Gas Analyzer	11.52	--
4	Velocity	m/sec	USEPA Method -3	11.4	--
5	Volumetric flow rate	Nm ³ /Sec	USEPA Method -3	42.25	--
6	Particulate Matter	mg/Nm ³	USEPA method-5	21.8	<30
7	Sulphur Dioxide	mg/Nm ³	Flue Gas Analyzer	30.4	<100
8	Oxides of Nitrogen, NO _x as NO ₂	mg/Nm ³	Flue Gas Analyzer	582.0	<800
9	Hydrogen Chloride as HCl	mg/Nm ³	USEPA method -26	1.9	<10
10	Hydrogen Fluoride as HF	mg/Nm ³	USEPA method -13	<1.0	<1.0
11	Carbon Monoxide as CO	mg/Nm ³	Flue Gas Analyzer	20.5	<100
12	Total Organic Compounds as TOC	mg/Nm ³	USEPA method -40 & MM5(10)	3.2	<10

All the Values are represented at 10% O₂


Dr. SubbaReddy Mallampati
Manager-Environment.

Vimta Labs Limited

Registered Office

142, IDA Phase II, Cherlapally

Hyderabad-500 051, Telangana, India

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F : +91 40 2726 3657

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ISSUED TO:**M/S. J.K. CEMENT WORKS****Unit: - J.K. CEMENT LTD****P O. GOTAN, DIST-NAGAU,****RAJASTHAN-342902****INDIA.****Report Number : VLL/VLS/24/011892/001****Issued Date : 2024.09.27****P.O. Number : 4600003732****P.O. Date : 22.07.2024**

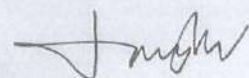
Page 2 of 3

Page 2 of 3

SAMPLE PARTICULARS	: Stack Emission Monitoring for Kiln ESP Stack (Co-Processing of Spent Carbon waste Mix Liquid and Distillation Residue with Pet Coke).		
Sample Registration Date	: 2024.09.20	Sample Collection Date	: 2024.09.17
Analysis Starting Date	: 2024.09.20	Analysis Completion Date	: 2024.09.27
Test Required	: Hg & its compounds, Cd + Tl its compounds, Sb+ As+ Pb+ Co+ Cr+ Cu+ Mn+ Ni+ V+ Their compounds		
Sample Collected by Vimta Labs Ltd.			

TEST REPORT

Sr.No.	Parameters	UoM	Method of Testing	Results	Limits as per MoE,F&CC Notification GSR 497(E)
1	Mercury as Hg + their Compound	mg/Nm3	USEPA method - 29	<0.001	<0.05
2	Cadmium + Thallium (Cd + Tl) + their Compound			<0.001	<0.05
3	Chromium as Cr + their Compound			0.015	(Sb+ As+ Pb+ Co+ Cr+ Cu+ Mn+ Ni+ V+ Their compounds) < 0.5
	Manganese as Mn + their Compound			0.020	
	Arsenic as As + their Compound			0.006	
	Antimony as Sb + their Compound			0.009	
	Lead as Pb + their Compound			0.022	
	Cobalt as Co + their Compound			0.014	
	Copper as Cu + their Compound			0.030	
	Nickel as Ni + their Compound			0.028	
	Vanadium as V + their Compound			0.021	
	Sb+ As+ Pb+ Co+ Cr+ Cu+ Mn+ Ni+ V+ Their compounds			0.165	

All the values are represented at 10% O₂**Dr. SubbaReddy Mallampati**
Manager-Environment.

Vimta Labs Limited

Registered Office

142, IDA Phase II, Cherlapally

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Vimta

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ISSUED TO:**M/S. J.K. CEMENT WORKS****Unit: - J.K. CEMENT LTD****P O. GOTAN, DIST-NAGAU,****RAJASTHAN-342902****INDIA.****Report Number : VLL/VLS/24/011892/001****Issued Date : 2024.10.14****P.O. Number : 4600003732****P.O. Date : 22.07.2024**

Page 3 of 3

**SAMPLE PARTICULARS : Stack Emission Monitoring for Kiln ESP Stack
(Co-Processing of Spent Carbon waste Mix Liquid
and Distillation Residue with Pet Coke).**

Sample Registration Date : 2024.09.20 Sample Collection Date : 2024.09.17
Analysis Starting Date : 2024.09.20 Analysis Completion Date : 2024.10.14
Test Required : PCDD & PCDF

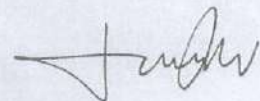
**Sample collected by Vimta Labs Ltd. Out sourcing Report Code AR-24-IR-100781-01 and out Sourced to
Eurofins Analytical Service India Pvt, Ltd.**

TEST REPORT

Sr.No	Congeners of Dioxins and Furans	UoM	Results
1	2,3,7,8-TCDD	ng/Nm ³ , TEQ	0.0012
2	1,2,3,7,8-PeCDD		0.0010
3	1,2,3,4,7,8-HxCDD		0.0001
4	1,2,3,6,7,8-HxCDD		0.0002
5	1,2,3,7,8,9-HxCDD		0.0001
6	1,2,3,4,6,7,8-HpCDD		0.0001
7	OCDD		0.0000
8	2,3,7,8-TCDF		0.0052
9	1,2,3,7,8-PeCDF		0.0008
10	2,3,4,7,8-PeCDF		0.0071
11	1,2,3,4,7,8-HxCDF		0.0007
12	1,2,3,6,7,8-HxCDF		0.0005
13	1,2,3,7,8,9-HxCDF		0.0002
14	2,3,4,6,7,8-HxCDF		0.0003
15	1,2,3,4,6,7,8-HpCDF		0.0001
16	1,2,3,4,7,8,9-HpCDF		0.0000
17	OCDF		0.0000
Total Furans & Dioxins			0.0176
Total Furans & Dioxins		ng/Nm³, TEQ Corrected to 10% O₂	0.0205
Limits as per MoEF & CC Notification GSR 497(E)			<0.1

Method of Testing: As per USEPA 23 A & 8290

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



Dr. SubbaReddy Mallampati
Manager-Environment.



Road Sweeping

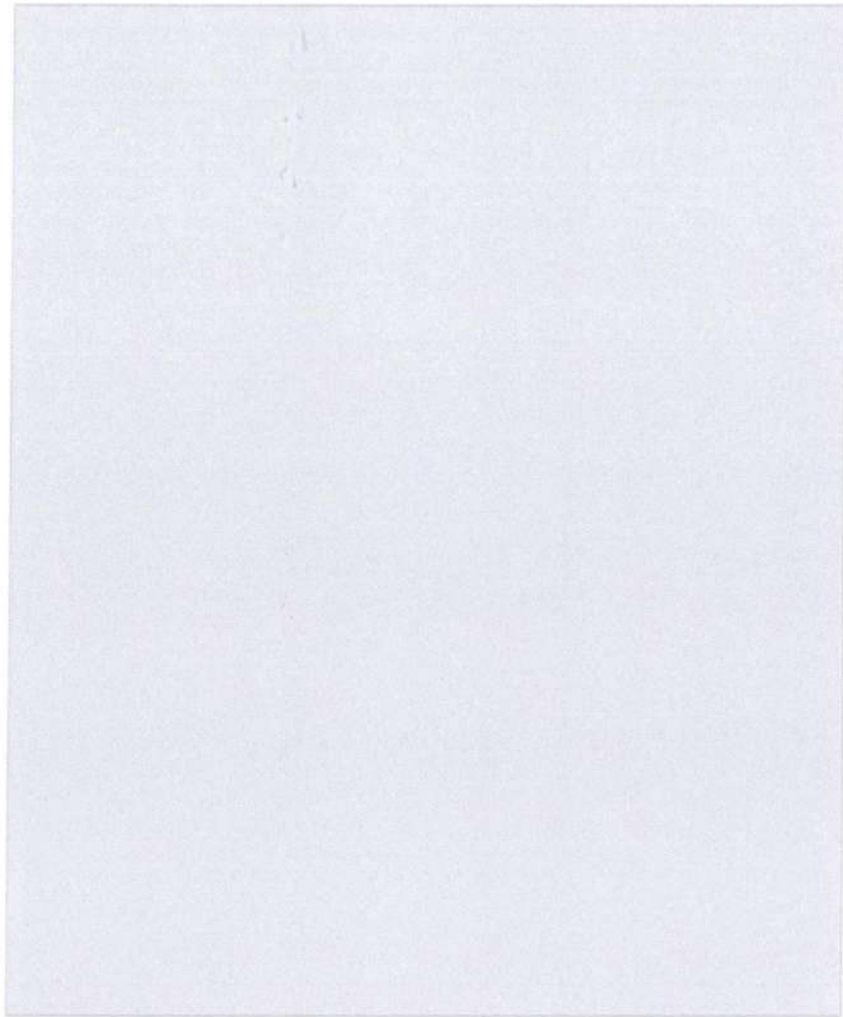




Latitude: 26.644129
Longitude: 73.743217
Elevation: 353.9±5.53 m
Accuracy: 8.86 m
Time: 11-10-2025 10:43
Note: Manual Sweeping Machine

Powered by NoteCam







J.M. ENVIROLAB PVT. LTD.

30 years of success

Approved from MoEF&CC & Certified - ISO 9001:2015, ISO 14001:2015, ISO 45001:2018

TEST REPORT

Sample Number **JME/JKCW/ST/01**
 Name & Address of Unit **M/s. J.K. Cement Limited
 (Unit: J.K. Cement Works),
 P.O. Gotan, District- Nagaur,
 Rajasthan (India)**
 Sample Description **STACK EMISSION MONITORING**

Report No. **JME/ST/250430041**
 Format No. **7.5 F-03**
 Party Reference No. **NII**
 Reporting Date **02/05/2025**
 Analysis Completion date **02/05/2025**
 Analysis Start Date **30/04/2025**
 Receipt Date **30/04/2025**

Client Representative (Name & Designation) : **Dr. Ranjeet Kumar Bagariya**
 Sample Collected by (Name & Designation) : **Mr. Shankar Lal Yadav (Sr. Manager)**
 Date of Sampling & Time : **29/04/2025 (14:15 to 15:15 hrs.)**
 Sampling Location & Code : **Grate Cooler (Sample No -1)**
 Measuring Principle : **Optical Transmission of Visible Light**
 Instrument Make & Model : **Durag 220**
 Serial Number of Instrument : **1246157**
 Sampling Duration (Minutes) : **60.0**
 Latitude : **26° 38' 43.50" N**
 Longitude : **73° 43' 40.49" E**
 Stack Attached to : **ESP**
 Make of Stack : **MS with Bricks**
 Diameter of Stack (Mtr) : **2.2**
 Height of Stack (Mtr) :
 (i) From the source of emission : **--**
 (ii) From roof level : **--**
 (iii) From Ground Level : **30.0**
 Operating Schedule (Hrs/day) : **24 hrs**
 Purpose of Monitoring : **Generation of Dust Factor**
 Control Measure if Any : **ESP**
 Operating Condition at the time of Sampling : **On Load**
 Type of fuel Used : **-**
 Meteorological Condition : **Clear Sky**
 Instrument Code : **JME/SMK/01/10**
 Instrument Calibration Status : **Calibrated**
 Ambient Temperature - Ta (°C) : **38.0**
 Temperature of Stack Gases - Ts (°C) : **116.0**
 Velocity of Stack Gases (m/sec.) : **6.73**
 Flow rate of PM (LPM) : **23.0**
 Flow rate of Gas (LPM) : **--**
 Volumetric Flow (NM³/Hr.) : **67410.0**
 Carbon Dioxide (CO₂) % : **0.08**
 Oxygen (O₂) % : **20.7**
 Carbon Monoxide + Nitrogen (CO + N₂) % : **79.22**
 Moisture % : **7.69**
 Atmospheric Pressure (mm Hg) : **726.5**
 Sampling Condition : **Iso-kinetic**
 Sampling Protocol : **JMELPL/STOP/04, Issue No.02**
 Parameter Required : **As per work order**

TEST RESULTS

S.No.	Parameters	Protocol	Result	Unit
1.	Particulate Matter	IS-11255 (Part-1)	16.76	mg/Nm ³

End of Report

Ritika Saini
 Tested by

Deepak Singh
 Checked by

Sita Ram Yadav
 Authorized Signatory

Note:

This test report has been at your request and test results pertain to the tested sample received.
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Reg. Office & Lab.

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 Phase-IV, Gurugram-122015 (Haryana)
 E-mail: jmenvirolab@hotmail.com | www.jmenvironet.org

Corporate Office

Emaar Digital Greens, Tower-B, Unit No.1517,
 Golf Course Ext. Road, Sector-61,
 Gurugram-122011(Haryana)



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TEST REPORT

Sample Number **JME/JKCW/ST/02**
 Name & Address of Unit **M/s. J.K. Cement Limited
 (Unit: J.K. Cement Works),
 P.O. Gotan, District- Nagaur,
 Rajasthan (India)**
 Sample Description **STACK EMISSION MONITORING**


Report No. **JME/ST/250430042**
 Format No. **7.5 F-03**
 Party Reference No. **NII**
 Reporting Date **02/05/2025**
 Analysis Completion date **02/05/2025**
 Analysis Start Date **30/04/2025**
 Receipt Date **30/04/2025**

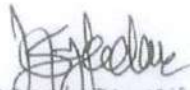
Client Representative (Name & Designation) : **Dr. Ranjeet Kumar Bagariya**
 Sample Collected by (Name & Designation) : **Mr. Shankar Lal Yadav (Sr. Manager)**
 Date of Sampling & Time : **29/04/2025 (15:45 to 16:45 hrs.)**
 Sampling Location & Code : **Grate Cooler (Sample No -2)**
 Measuring Principle : **Optical Transmission of Visible Light**
 Instrument Make & Model : **Durag 220**
 Serial Number of Instrument : **1246157**
 Sampling Duration (Minutes) : **60.0**
 Latitude : **26° 38' 43.50" N**
 Longitude : **73° 43' 40.49" E**
 Stack Attached to : **ESP**
 Make of Stack : **MS with Bricks**
 Diameter of Stack (Mtr) : **2.2**
 Height of Stack (Mtr) :
 (i) From the source of emission : **--**
 (ii) From roof level : **--**
 (iii) From Ground Level : **30.0**
 Operating Schedule (Hrs/day) : **24 hrs**
 Purpose of Monitoring : **Generation of Dust Factor**
 Control Measure if Any : **ESP**
 Operating Condition at the time of Sampling : **On Load**
 Type of fuel Used : **-**
 Meteorological Condition : **Clear Sky**
 Instrument Code : **JME/SMK/01/10**
 Instrument Calibration Status : **Calibrated**
 Ambient Temperature - Ta (°C) : **36.0**
 Temperature of Stack Gases - Ts (°C) : **119.0**
 Velocity of Stack Gases (m/sec.) : **7.44**
 Flow rate of PM (LPM) : **25.0**
 Flow rate of Gas (LPM) : **--**
 Volumetric Flow (NM³/Hr.) : **73951.0**
 Carbon Dioxide (CO₂) % : **0.06**
 Oxygen (O₂) % : **20.8**
 Carbon Monoxide + Nitrogen (CO + N₂) % : **79.13**
 Moisture % : **6.54**
 Atmospheric Pressure (mm Hg) : **726.5**
 Sampling Condition : **Iso-kinetic**
 Sampling Protocol : **JMELPL/STOP/04, Issue No.02**
 Parameter Required : **As per work order**

TEST RESULTS

S.No.	Parameters	Protocol	Result	Unit
1.	Particulate Matter	IS-11255 (Part-1)	17.31	mg/Nm ³

End of Report


Ritika Saini
 Tested by


Deepak Singh
 Checked by


Sita Ram Yadav
 Authorized Signatory

Reg. Office & Lab.
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 Phase-IV, Gurugram-122015 (Haryana)
 E-mail: jmenvirolab@hotmail.com | www.jmenvironet.org

Corporate Office
 Emaar Digital Greens, Tower-B, Unit No.1517,
 Golf Course Ext. Road, Sector-61,
 Gurugram-122011 (Haryana)

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TEST REPORT

Sample Number **JME/JKCW/ST/03**
 Name & Address of Unit **M/s. J.K. Cement Limited
 (Unit: J.K. Cement Works),
 P.O. Gotan, District- Nagaur,
 Rajasthan (India)**
 Sample Description **STACK EMISSION MONITORING**

Report No. **JME/ST/250430043**
 Format No. **7.6 F-03**
 Party Reference No. **Nil**
 Reporting Date **02/05/2025**
 Analysis Completion date **02/05/2025**
 Analysis Start Date **30/04/2025**
 Receipt Date **30/04/2025**

Client Representative (Name & Designation) : **Dr. Ranjeet Kumar Bagariya**
 Sample Collected by (Name & Designation) : **Mr. Shankar Lal Yadav (Sr. Manager)**
 Date of Sampling & Time : **29/04/2025 (17:15 to 18:15 hrs.)**
 Sampling Location & Code : **Grate Cooler (Sample No -3)**
 Measuring Principle : **Optical Transmission of Visible Light**
 Instrument Make & Model : **Durag 220**
 Serial Number of Instrument : **1246157**
 Sampling Duration (Minutes) : **60.0**
 Latitude : **26° 38' 43.50" N**
 Longitude : **73° 43' 40.49" E**
 Stack Attached to : **ESP**
 Make of Stack : **MS with Bricks**
 Diameter of Stack (Mtr) : **2.20**
 Height of Stack (Mtr) :
 (i) From the source of emission : **--**
 (ii) From roof level : **--**
 (iii) From Ground Level : **30.0**
 Operating Schedule (Hrs/day) : **24 hrs**
 Purpose of Monitoring : **Generation of Dust Factor**
 Control Measure if Any : **ESP**
 Operating Condition at the time of Sampling : **On Load**
 Type of fuel Used : **-**
 Meteorological Condition : **Clear Sky**
 Instrument Code : **JME/SMK/01/10**
 Instrument Calibration Status : **Calibrated**
 Ambient Temperature - Ta (°C) : **35.0**
 Temperature of Stack Gases - Ts (°C) : **126.0**
 Velocity of Stack Gases (m/sec.) : **7.23**
 Flow rate of PM (LPM) : **24.0**
 Flow rate of Gas (LPM) : **--**
 Volumetric Flow (NM³/Hr.) : **70803.0**
 Carbon Dioxide (CO₂) % : **0.09**
 Oxygen (O₂) % : **20.7**
 Carbon Monoxide + Nitrogen (CO + N₂) % : **79.21**
 Moisture % : **6.87**
 Atmospheric Pressure (mm Hg) : **726.5**
 Sampling Condition : **Iso-kinetic**
 Sampling Protocol : **JMELPL/STOP/04, Issue No.02**
 Parameter Required : **As per work order**

TEST RESULTS

S.No.	Parameters	Protocol	Result	Unit
1.	Particulate Matter	IS-11255 (Part-1)	18.95	mg/Nm ³

End of Report

Ritika Saini
 Tested by

Deepak Singh
 Checked by

Sita Ram Yadav
 Authorized Signatory

Reg. Office & Lab.
 424, Ground Floor, Udyog Vihar,
 Phase-IV, Gurugram-122015 (Haryana)
 E-mail: jmenvirolab@hotmail.com | www.jmenvirolab.com

Corporate Office
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 Golf Course Ext. Road, Sector-61,
 Gurugram-122011 (Haryana)

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PROJECT NAME: - M/s. J K Cement Limited
(Unit: J K Cement Works),
P O Gotan, District Nagaur,
Rajasthan (India)

STACK DETAIL: - Grate Cooler

MEASURING PRINCIPLE: - Optical Transmission of Visible Light

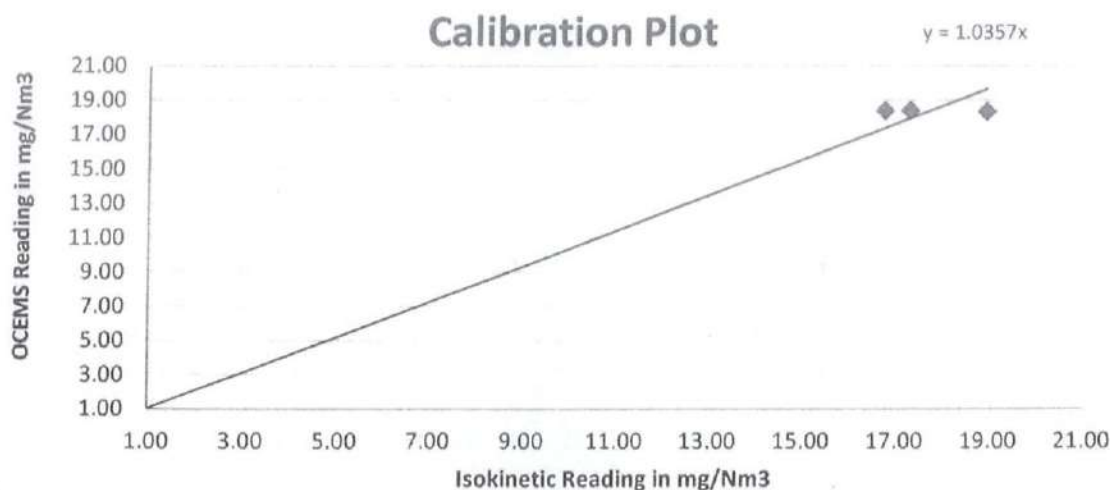
INSTRUMENT MAKE & MODEL: - Durag 220

SERIAL NUMBER OF INSTRUMENT; - 1246157

DATE OF MONITORING: 29/04/2025 to 29/04/2025

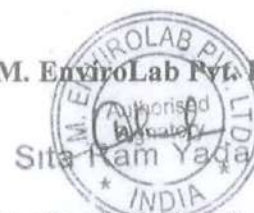
GENERATION OF DUST FACTOR FOR CALIBRATION OF OCEMS FOR PARTICULATE MATTER (PM): - To generate the dust factor for the calibration of OCEMS, sampling is carried out. The full-scale calibration is covered on working load using the isokinetic sampling method. A total of three samples were taken for generation of dust factor, with the help of OCEMS data and manual monitoring (Isokinetic sampling) results. In order to report particulate data as dust concentration in mg/m^3 , a correction factor (dust factor) must be determined for each installation.

SAMPLE NO	ISO-KINETIC READING	OCEMS READING
	PM (mg/Nm^3)	PM (mg/Nm^3)
1.	16.76	18.38
2.	17.31	18.39
3.	18.95	18.30



DUST FACTOR CORRECTION FOR OCEMS: 0.97

For J. M. EnviroLab Pvt. Ltd



(Authorised Signatory)



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J.M. ENVIROLAB PVT. LTD.

CIN No. U74220HR2011PTC085756

Approved from MoEF&CC & Certified - ISO 9001:2015, ISO 14001:2015, ISO 45001:2018

TEST REPORT

Sample Number	JME/JKCW/ST/01	Report No.	JME/ST/250501051
Name & Address of Unit	M/s. J.K. Cement Limited (Unit: J.K. Cement Works), P.O. Gotan, District- Nagaur, Rajasthan (India)	Format No.	7.5 F-03
		Party Reference No.	NIL
		Reporting Date	03/05/2025
		Analysis Completion date	03/05/2025
		Analysis Start Date	01/05/2025
		Receipt Date	01/05/2025
Sample Description	STACK EMISSION MONITORING		

Client Representative (Name & Designation)	:	Dr. Ranjeet Kumar Bagariya
Sample Collected by (Name & Designation)	:	Mr. Shankar Lal Yadav (Sr. Manager)
Date of Sampling & Time	:	30/04/2025 (13:45 to 14:45 hrs.)
Sampling Location & Code	:	Pet-coke and Coal Mill (Sample No -1)
Measuring Principle	:	Scattered Light Measurement
Instrument Make & Model	:	DH SB - 30
Serial Number of instrument	:	18148371
MCU Serial Number	:	18368469
Sampling duration (Minutes)	:	60.0
Latitude	:	26° 38' 42.00" N
Longitude	:	73° 43' 38.73" E
Stack attached to	:	Bag Filter
Make of stack	:	MS
Diameter of stack (Mtr)	:	0.85
Height of stack (Mtr)	:	
(i) From the source of emission	:	--
(ii) From roof level	:	--
(iii) From Ground Level	:	31.0
Operating Schedule (Hrs/day)	:	24 hrs
Purpose of Monitoring	:	Generation of Dust Factor
Control measure if Any	:	Bag Filter
Operating condition at the time of Sampling	:	On Load
Type of fuel used	:	-
Meteorological Condition	:	Clear Sky
Instrument code	:	JME/SMK/01/10
Instrument calibration status	:	Calibrated
Ambient Temperature - Ta (°C)	:	38.0
Temperature of Stack Gases - Ts (°C)	:	59.0
Velocity of Stack Gases (m/sec.)	:	13.45
Flow rate of PM (LPM)	:	20.0
Flow rate of Gas (LPM)	:	--
Volumetric Flow (NM ³ /Hr.)	:	23586.0
Carbon Dioxide (CO ₂) %	:	1.92
Oxygen (O ₂) %	:	18.80
Carbon Monoxide + Nitrogen (CO + N ₂) %	:	79.28
Moisture %	:	1.64
Atmospheric Pressure (mm Hg)	:	727.2
Sampling condition	:	Iso-kinetic
Sampling Protocol	:	JMELPL/STOP/04, Issue No.02
Parameter Required	:	As per work order

TEST RESULTS

S.No.	Parameters	Protocol	Result	Unit
1.	Particulate Matter	IS-11255 (Part-1)	7.28	mg/Nm ³

End of Report

Ritika Saini
Ritika Saini
Tested by

Deepak Singh
Deepak Singh
Checked by

Shankar Lal Yadav
Shankar Lal Yadav
Authorized Signatory

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TEST REPORT

Sample Number **JME/JKCW/ST/02**
Name & Address of Unit **M/s. J.K. Cement Limited (Unit: J.K. Cement Works), P.O. Gotan, District- Nagaur, Rajasthan (India)**
Sample Description **STACK EMISSION MONITORING**

Report No. **JME/ST/250501052**
Format No. **7.5 F-03**
Party Reference No. **Nil**
Reporting Date **03/05/2025**
Analysis Completion date **03/05/2025**
Analysis Start Date **01/05/2025**
Receipt Date **01/05/2025**

Client Representative (Name & Designation) : **Dr. Ranjeet Kumar Bagariya**
Sample Collected by (Name & Designation) : **Mr. Shankar Lal Yadav (Sr. Manager)**
Date of Sampling & Time : **30/04/2025 (15:15 to 16:15 hrs.)**
Sampling Location & Code : **Pet-coke and Coal Mill (Sample No -2)**
Measuring Principle : **Scattered Light Measurement**
Instrument Make & Model : **DH SB - 30**
Serial Number of instrument : **18148371**
MCU Serial Number : **18368469**
Sampling duration (Minutes) : **60.0**
Latitude : **26° 38' 42.00" N**
Longitude : **73° 43' 38.73" E**
Stack attached to : **Bag Filter**
Make of stack : **MS**
Diameter of stack (Mtr) : **0.85**
Height of stack (Mtr) :
(i) From the source of emission : **--**
(ii) From roof level : **--**
(iii) From Ground Level : **31.0**
Operating Schedule (Hrs/day) : **24 hrs**
Purpose of Monitoring : **Generation of Dust Factor**
Control measure if Any : **Bag Filter**
Operating condition at the time of Sampling : **On Load**
Type of fuel used : **-**
Meteorological Condition : **Clear Sky**
Instrument code : **JME/SMK/01/10**
Instrument calibration status : **Calibrated**
Ambient Temperature - Ta (°C) : **39.0**
Temperature of Stack Gases - Ts (°C) : **62.0**
Velocity of Stack Gases (m/sec.) : **13.44**
Flow rate of PM (LPM) : **20.0**
Flow rate of Gas (LPM) : **-**
Volumetric Flow (NM³/Hr.) : **23357.0**
Carbon Dioxide (CO₂) % : **1.90**
Oxygen (O₂) % : **19.0**
Carbon Monoxide + Nitrogen (CO + N₂) % : **79.1**
Moisture % : **1.51**
Atmospheric Pressure (mm Hg) : **727.2**
Sampling condition : **Iso-kinetic**
Sampling Protocol : **JMELPL/STOP/04, Issue No.02**
Parameter Required : **As per work order**

TEST RESULTS

S.No.	Parameters	Protocol	Result	Unit
1.	Particulate Matter	IS-11255 (Part-1)	7.69	mg/Nm ³

End of Report

Ritika Saini

Tested by

Deepak Singh
Checked by

Sita Ram Yadav
Authorized Signatory

Reg. Office & Lab.

424, Ground Floor, Udyog Vihar,
Phase-IV, Gurugram-122015 (Haryana)
E-mail: jmenvirolab@hotmail.com | www.jmenvironet.org

Corporate Office

Emaar Digital Greens, Tower-B, Unit No.1517,
Golf Course Ext. Road, Sector-61,
Gurugram-122014 (Haryana)

note:

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TEST REPORT

Sample Number **JME/JKCW/ST/03**
 Name & Address of Unit **M/s. J.K. Cement Limited
 (Unit: J.K. Cement Works),
 P.O. Gotan, District- Nagaur,
 Rajasthan (India)**
 Sample Description **STACK EMISSION MONITORING**

Report No. **JME/ST/250501063**
 Format No. **7.5 F-03**
 Party Reference No. **Nil**
 Reporting Date **03/05/2025**
 Analysis Completion date **03/05/2025**
 Analysis Start Date **01/05/2025**
 Receipt Date **01/05/2025**

Client Representative (Name & Designation) : **Dr. Ranjeet Kumar Bagariya**
 Sample Collected by (Name & Designation) : **Mr. Shankar Lal Yadav (Sr. Manager)**
 Date of Sampling & Time : **30/04/2025 (16:45 to 17:45 hrs.)**
 Sampling Location & Code : **Pet-coke and Coal Mill (Sample No -3)**
 Measuring Principle : **Scattered Light Measurement**
 Instrument Make & Model : **DH SB - 30**
 Serial Number of instrument : **18148371**
 MCU Serial Number : **18368469**
 Sampling duration (Minutes) : **60.0**
 Latitude : **26° 38' 42.00" N**
 Longitude : **73° 43' 38.73" E**
 Stack attached to : **Bag Filter**
 Make of stack : **MS**
 Diameter of stack (Mtr) : **0.85**
 Height of stack (Mtr) :
 (i) From the source of emission : **--**
 (ii) From roof level : **--**
 (iii) From Ground Level : **31.0**
 Operating Schedule (Hrs/day) : **24 hrs**
 Purpose of Monitoring : **Generation of Dust Factor**
 Control measure if Any : **Bag Filter**
 Operating condition at the time of Sampling : **On Load**
 Type of fuel used : **-**
 Meteorological Condition : **Clear Sky**
 Instrument code : **JME/SMK/01/10**
 Instrument calibration status : **Calibrated**
 Ambient Temperature – Ta (°C) : **37.0**
 Temperature of Stack Gases - Ts (°C) : **64.0**
 Velocity of Stack Gases (m/sec.) : **13.22**
 Flow rate of PM (LPM) : **19.0**
 Flow rate of Gas (LPM) : **--**
 Volumetric Flow (NM³/Hr.) : **22838.0**
 Carbon Dioxide (CO₂) % : **1.86**
 Oxygen (O₂) % : **19.3**
 Carbon Monoxide + Nitrogen (CO + N₂) % : **79.84**
 Moisture % : **1.37**
 Atmospheric Pressure (mm Hg) : **727.2**
 Sampling condition : **Iso-kinetic**
 Sampling Protocol : **JMELPL/STOP/04, Issue No.02**
 Parameter Required : **As per work order**

TEST RESULTS

S.No.	Parameters	Protocol	Result	Unit
1.	Particulate Matter	IS-11255 (Part-1)	6.56	mg/Nm ³

End of Report

Ritika Saini
 Tested by

Deepak Singh
 Checked by

Sita Ram Yadav
 Authorized Signatory

Reg. Office & Lab.
 424, Ground Floor, Udyog Vihar,
 Phase-IV, Gurugram-122015 (Haryana)
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PROJECT NAME: - M/s. J K Cement Limited
(Unit: J K Cement Works),
P O Gotan, District Nagaur,
Rajasthan (India)

STACK DETAIL: - Pet-Coke and Coal Mill

MEASURING PRINCIPLE: - Scattered Light Measurement

INSTRUMENT MAKE & MODEL: - DH SB - 30

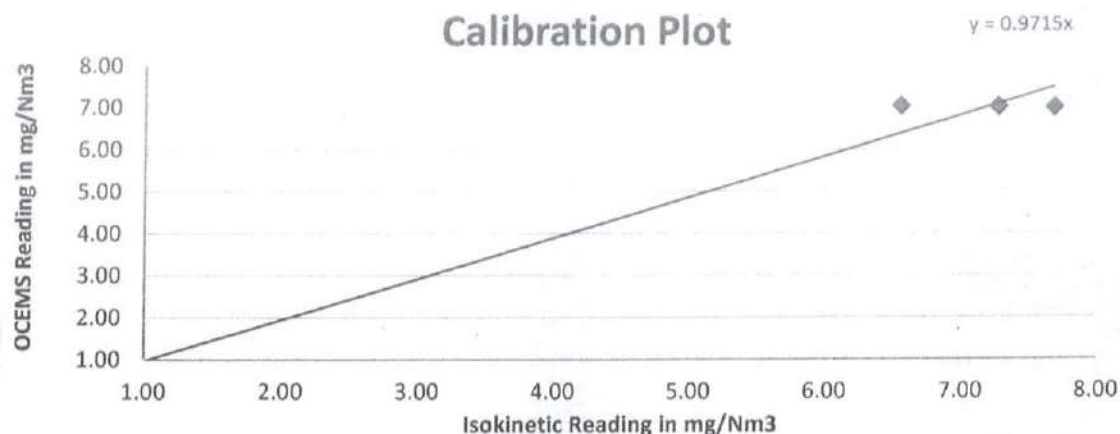
SERIAL NUMBER OF INSTRUMENT: - 18148371

MCU SERIAL NUMBER: - 18368469

DATE OF MONITORING: 30/04/2025

GENERATION OF DUST FACTOR FOR CALIBRATION OF OCEMS FOR PARTICULATE MATTER (PM): - To generate the dust factor for the calibration of OCEMS, sampling is carried out. The full-scale calibration is covered on working load using the isokinetic sampling method. A total of three samples were taken for generation of dust factor, with the help of OCEMS data and manual monitoring (Isokinetic sampling) results. In order to report particulate data as dust concentration in mg/m^3 , a correction factor (dust factor) must be determined for each installation.

SAMPLE NO	ISO-KINETIC READING	OCEMS READING
	PM (mg/Nm^3)	PM (mg/Nm^3)
1.	7.28	7.00
2.	7.69	6.98
3.	6.56	7.03



DUST FACTOR CORRECTION FOR OCEMS: 1.03

For J. M. EnviroLab Pvt. Ltd



(Authorised Signatory)



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TEST REPORT

Sample Number **JME/JKCW/ST/01**
Name & Address of Unit **M/s. J.K. Cement Limited
(Unit: J.K. Cement Works),
P.O. Gotan, District- Nagaur,
Rajasthan (India)**

Report No. **JME/ST/250430014**
Format No. **7.5 F-03**
Party Reference No. **NII**
Reporting Date **02/05/2025**
Analysis Completion Date **02/05/2025**
Analysis Start Date **30/04/2025**
Receipt Date **30/04/2025**

Sample Description **STACK EMISSION MONITORING**

Client Representative (Name & Designation) : **Dr. Ranjeet Kumar Bagariya**
Sample Collected by (Name & Designation) : **JMELPL TEAM**
Date of Sampling & Time : **29/04/2025 (10:00 to 11:00 hrs.)**
Sampling Location & Code : **Raw Mill Kiln Stack (Sample No -1)**
Measuring Principle : **Optical Transmission of Visible Light**
Instrument Make & Model : **Durag 220**
Serial Number of instrument : **1236775**
Sampling duration (Minutes) : **60.0**
Latitude : **26° 38' 41.03" N**
Longitude : **73° 43' 41.07" E**
Stack attached to : **ESP**
Make of stack : **MS**
Diameter of stack (Mtr) : **2.60**
Height of stack (Mtr) :
(i) From the source of emission : **--**
(ii) From roof level : **--**
(iii) From Ground Level : **80.2**
Operating Schedule (Hrs/day) : **24 hrs**
Purpose of Monitoring : **Accuracy Check of OCEMS**
Control measure if Any : **ESP**
Operating condition at the time of Sampling : **On Load**
Type of fuel used : **-**
Meteorological Condition : **Clear Sky**
Instrument code : **JME/SMK/01/08, JME/FGA/01/02**
Instrument calibration status : **Calibrated**
Ambient Temperature - Ta (°C) : **35.0**
Temperature of Stack Gases - Ts (°C) : **135.0**
Velocity of Stack Gases (m/sec.) : **9.47**
Flow rate of PM (LPM) : **-**
Flow rate of Gas (LPM) : **0.5**
Volumetric Flow (NM³/Hr.) : **125635.0**
Carbon Dioxide (CO₂) % : **9.05**
Oxygen (O₂) % : **11.48**
Carbon Monoxide + Nitrogen (CO + N₂) % : **79.47**
Moisture % : **1.14**
Atmospheric Pressure (mm Hg) : **722.6**
Sampling Protocol : **JMELPL/STOP/04, Issue No.02**
Parameter Required : **As per work order**

TEST RESULTS

S.No.	Parameters	Protocol	Result	Unit
1.	Oxides of Nitrogen (as NO ₂)	Cross-Flow Chemiluminescence Analyzer	705.79	mg/Nm ³
2.	Sulphur Dioxide	Non-Dispersive Infrared Absorption Analyzer (NDIR)	BDL (DL 5.0)	mg/Nm ³

End of Report

Ritika Saini
Ritika Saini
Tested by

Deepak Singh
Deepak Singh
Checked by

Sita Ram Yadav
Sita Ram Yadav
Authorized Signatory

Note:

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TEST REPORT

Sample Number **JME/JKCW/ST/02**
Name & Address of Unit **M/s. J.K. Cement Limited
(Unit: J.K. Cement Works),
P.O. Gotan, District- Nagaur,
Rajasthan (India)**

Report No. **JME/ST/250430015**
Format No. **7.5 F-03**
Party Reference No. **Nil**
Reporting Date **02/05/2025**
Analysis Completion Date **02/05/2025**
Analysis Start Date **30/04/2025**
Receipt Date **30/04/2025**

Sample Description **STACK EMISSION MONITORING**

Client Representative (Name & Designation) : **Dr. Ranjeet Kumar Bagariya**
Sample Collected by (Name & Designation) : **JMELPL TEAM**
Date of Sampling & Time : **29/04/2025 (11:30 to 12:30 hrs.)**
Sampling Location & Code : **Raw Mill Kiln Stack (Sample No - 2)**
Measuring Principle : **Optical Transmission of Visible Light**
Instrument Make & Model : **Durag 220**
Serial Number of instrument : **1236775**
Sampling duration (Minutes) : **60.0**
Latitude : **26° 38' 41.03" N**
Longitude : **73° 43' 41.07" E**
Stack attached to : **ESP**
Make of stack : **MS**
Diameter of stack (Mtr) : **2.60**
Height of stack (Mtr) :
(i) From the source of emission : **--**
(ii) From roof level : **--**
(iii) From Ground Level : **80.2**
Operating Schedule (Hrs/day) : **24 hrs**
Purpose of Monitoring : **Accuracy Check of OCEMS**
Control measure if Any : **ESP**
Operating condition at the time of Sampling : **On Load**
Type of fuel used : **-**
Meteorological Condition : **Clear Sky**
Instrument code : **JME/SMK/01/08, JME/SMK/01/02**
Instrument calibration status : **Calibrated**
Ambient Temperature - Ta (°C) : **37.0**
Temperature of Stack Gases - Ts (°C) : **138.0**
Velocity of Stack Gases (m/sec.) : **8.56**
Flow rate of PM (LPM) : **-**
Flow rate of Gas (LPM) : **0.5**
Volumetric Flow (NM³/Hr.) : **112733.0**
Carbon Dioxide (CO₂) % : **9.22**
Oxygen (O₂) % : **11.29**
Carbon Monoxide + Nitrogen (CO + N₂) % : **79.49**
Moisture % : **1.09**
Atmospheric Pressure (mm Hg) : **722.6**
Sampling Protocol : **JMELPL/STOP/04, Issue No.02**
Parameter Required : **As per work order**

TEST RESULTS

S.No.	Parameters	Protocol	Result	Unit
1.	Oxides of Nitrogen (as NO ₂)	Cross-Flow Chemiluminescence Analyzer	632.56	mg/Nm ³
2.	Sulphur Dioxide	Non-Dispersive Infrared Absorption Analyzer (NDIR)	BDL (DL 5.0)	mg/Nm ³

End of Report

Ritika Saini
Tested by

Deepak Singh
Checked by

Sita Ram Yadav
Authorized Signatory

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GIN No. UT4220HR2011PTC085750

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TEST REPORT

Sample Number **JME/JKCW/ST/03**
 Name & Address of Unit **M/s. J.K. Cement Limited
 (Unit: J.K. Cement Works),
 P.O. Gotan, District- Nagaur,
 Rajasthan (India)**

Report No. **JME/ST/250430016**
 Format No. **7.5 F-03**
 Party Reference No. **Nil**
 Reporting Date **02/05/2025**
 Analysis Completion Date **02/05/2025**
 Analysis Start Date **30/04/2025**
 Receipt Date **30/04/2025**

Sample Description STACK EMISSION MONITORING

Client Representative (Name & Designation) : **Dr. Ranjeet Kumar Bagariya**
 Sample Collected by (Name & Designation) : **JMELPL TEAM**
 Date of Sampling & Time : **29/04/2025 (13:00 to 14:00 hrs.)**
 Sampling Location & Code : **Raw Mill Kiln Stack (Sample No -3)**
 Measuring Principle : **Optical Transmission of Visible Light**
 Instrument Make & Model : **Durag 220**
 Serial Number of instrument : **1236775**
 Sampling duration (Minutes) : **60.0**
 Latitude : **26°38'41.03" N**
 Longitude : **73°43'41.07" E**
 Stack attached to : **ESP**
 Make of stack : **MS**
 Diameter of stack (Mtr) : **2.60**
 Height of stack (Mtr) :
 (i) From the source of emission : **--**
 (ii) From roof level : **--**
 (iii) From Ground Level : **80.2**
 Operating Schedule (Hrs/day) : **24 hrs**
 Purpose of Monitoring : **Accuracy Check of OCEMS**
 Control measure if Any : **ESP**
 Operating condition at the time of Sampling : **On Load**
 Type of fuel used : **-**
 Meteorological Condition : **Clear Sky**
 Instrument code : **JME/SMK/01/08, JME/FGA/01/02**
 Instrument calibration status : **Calibrated**
 Ambient Temperature - Ta (°C) : **38.0**
 Temperature of Stack Gases - Ts (°C) : **137.0**
 Velocity of Stack Gases (m/sec.) : **8.63**
 Flow rate of PM (LPM) : **-**
 Flow rate of Gas (LPM) : **0.5**
 Volumetric Flow (NM³/Hr.) : **113932.0**
 Carbon Dioxide (CO₂) % : **9.92**
 Oxygen (O₂) % : **10.19**
 Carbon Monoxide + Nitrogen (CO + N₂) % : **79.89**
 Moisture % : **1.05**
 Atmospheric Pressure (mm Hg) : **722.6**
 Sampling Protocol : **JMELPL/STOP/04, Issue No.02**
 Parameter Required : **As per work order**

TEST RESULTS

S.No.	Parameters	Protocol	Result	Unit
1.	Oxides of Nitrogen (as NO ₂)	Cross-Flow Chemiluminescence Analyzer	664.82	mg/Nm ³
2.	Sulphur Dioxide	Non-Dispersive Infrared Absorption Analyzer (NDIR)	BDL (DL 5.0)	mg/Nm ³

End of Report

Ritika Saini
 Tested by

Deepak Singh
 Checked by

Sita Ram Yadav
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PROJECT NAME: - M/s. J K Cement Limited
(Unit: J K Cement Works),
P O Gotan, District Nagaur,
Rajasthan (India)

STACK DETAIL: - Raw Mill Kiln Stack

MEASURING PRINCIPLE: - UV and NDIR technology with electrochemical sensors for Oxygen

INSTRUMENT MAKE & MODEL: - Ultramat

SERIAL NUMBER OF INSTRUMENT: - N1 - F4 - 694

DATE OF MONITORING: - 29/04/2025

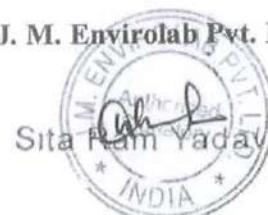
DATA VERIFICATION & ACCURACY CHECK OF OCEMS FOR SO₂ & NO_x: -

In order to output gaseous concentration in mg/Nm³, Verification and accuracy check must be determined for each installation. The full-scale calibration shall cover all working loads against parallel measurements performed with a Standard Reference Method (SRM). Total 03 numbers of samples taken on working load; sampling shall be carried out for Verification and accuracy check of OCEMS data.

S. No.	CALIBRATED REFERENCE ANALYZER'S READING		OCEMS READING	
	SO ₂ (mg/Nm ³)	NO _x (mg/Nm ³)	SO ₂ (mg/Nm ³)	NO _x (mg/Nm ³)
1	BDL (DL 5.0)	705.79	0.09	661.10
2	BDL (DL 5.0)	632.56	0.02	682.81
3	BDL (DL 5.0)	664.82	0.02	697.89

The finding of study in terms of Verification and accuracy check of OCEMS data with respect to SO₂ and NO_x have been done, Verification and accuracy of OCEMS data is find within acceptable range (within $\pm 10\%$).

For J. M. Envirolab Pvt. Ltd



Sita Ram Yadav

(Authorised Signatory)



J.M. ENVIROLAB PVT. LTD.

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TEST REPORT

Sample Number **JME/JKCW/ST/01**
Name & Address of Unit **M/s. J.K. Cement Limited (Unit: J.K. Cement Works), P.O. Gotan, District- Nagaur, Rajasthan (India)**
Sample Description **STACK EMISSION MONITORING**

Report No. **JME/ST/260430011**
Format No. **7.6 F-03**
Party Reference No. **Nil**
Reporting Date **02/05/2025**
Analysis Completion date **02/05/2025**
Analysis Start Date **30/04/2025**
Receipt Date **30/04/2025**

Client Representative (Name & Designation) : **Dr. Ranjeet Kumar Bagariya**
Sample Collected by (Name & Designation) : **JMELPL TEAM**
Date of Sampling & Time : **29/04/2025 (10:00 to 11:00 hrs.)**
Sampling Location & Code : **Raw Mill Kiln Stack (Sample No -1)**
Measuring Principle : **Optical Transmission of Visible Light**
Instrument Make & Model : **Durag 220**
Serial Number of instrument : **1236775**
Sampling duration (Minutes) : **60.0**
Latitude : **26° 38' 41.03" N**
Longitude : **73° 43' 41.07" E**
Stack attached to : **ESP**
Make of stack : **MS**
Diameter of stack (Mtr) : **2.6**
Height of stack (Mtr) :
(i) From the source of emission : **-**
(ii) From roof level : **-**
(iii) From Ground Level : **80.2**
Operating Schedule (Hrs/day) : **24 hrs**
Purpose of Monitoring : **Generation of Dust Factor**
Control measure if Any : **ESP**
Operating condition at the time of Sampling : **On Load**
Type of fuel used : **-**
Meteorological Condition : **Clear Sky**
Instrument code : **JME/SMK/01/08**
Instrument calibration status : **Calibrated**
Ambient Temperature - Ta (°C) : **35.0**
Temperature of Stack Gases - Ts (°C) : **135.0**
Velocity of Stack Gases (m/sec.) : **9.47**
Flow rate of PM (LPM) : **30.0**
Flow rate of Gas (LPM) : **-**
Volumetric Flow (NM³/Hr.) : **125635.0**
Carbon Dioxide (CO₂) % : **9.05**
Oxygen (O₂) % : **11.48**
Carbon Monoxide + Nitrogen (CO + N₂) % : **79.47**
Moisture % : **1.14**
Atmospheric Pressure (mm Hg) : **722.6**
Sampling condition : **Iso-kinetic**
Sampling Protocol : **JMELPL/STOP/04, Issue No.02**
Parameter Required : **As per work order**

TEST RESULTS

S.No.	Parameters	Protocol	Result	Unit
1.	Particulate Matter	IS-11255 (Part-1)	17.83	mg/Nm ³

End of Report

Ritika Saini
Ritika Saini
Tested by

Deepak Singh
Deepak Singh
Checked by

Sita Ram Yadav
Sita Ram Yadav
Authorized Signatory

Reg. Office & Lab.
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Phase-IV, Gurugram-122015 (Haryana)
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TEST REPORT

Sample Number **JME/JKCW/ST/02**
 Name & Address of Unit **M/s. J.K. Cement Limited
 (Unit: J.K. Cement Works),
 P.O. Gotan, District- Nagaur,
 Rajasthan (India)**

Sample Description **STACK EMISSION MONITORING**

Report No. **JME/ST/260430012**
 Format No. **7.5 F-03**
 Party Reference No. **Nil**
 Reporting Date **02/05/2025**
 Analysis Completion date **02/05/2025**
 Analysis Start Date **30/04/2025**
 Receipt Date **30/04/2025**

Client Representative (Name & Designation) : **Dr. Ranjeet Kumar Bagariya**
 Sample Collected by (Name & Designation) : **JMELPL TEAM**
 Date of Sampling & Time : **29/04/2025 (11:30 to 12:30 hrs.)**
 Sampling Location & Code : **Raw Mill Kiln Stack (Sample No - 2)**
 Measuring Principle : **Optical Transmission of Visible Light**
 Instrument Make & Model : **Durag 220**
 Serial Number of instrument : **1236775**
 Sampling duration (Minutes) : **60.0**
 Latitude : **26° 38' 41.03" N**
 Longitude : **73° 43' 41.07" E**
 Stack attached to : **ESP**
 Make of stack : **MS**
 Diameter of stack (Mtr) : **2.60**
 Height of stack (Mtr) :
 (i) From the source of emission : **--**
 (ii) From roof level : **--**
 (iii) From Ground Level : **80.2**
 Operating Schedule (Hrs/day) : **24 hrs**
 Purpose of Monitoring : **Generation of Dust Factor**
 Control measure if Any : **ESP**
 Operating condition at the time of Sampling : **On Load**
 Type of fuel used : **-**
 Meteorological Condition : **Clear Sky**
 Instrument code : **JME/SMK/01/08**
 Instrument calibration status : **Calibrated**
 Ambient Temperature - Ta (°C) : **37.0**
 Temperature of Stack Gases - Ts (°C) : **138.0**
 Velocity of Stack Gases (m/sec.) : **8.66**
 Flow rate of PM (LPM) : **27.0**
 Flow rate of Gas (LPM) : **--**
 Volumetric Flow (NM³/Hr.) : **112733.0**
 Carbon Dioxide (CO₂) % : **9.22**
 Oxygen (O₂) % : **11.29**
 Carbon Monoxide + Nitrogen (CO + N₂) % : **79.49**
 Moisture % : **1.09**
 Atmospheric Pressure (mm Hg) : **722.6**
 Sampling condition : **Iso-kinetic**
 Sampling Protocol : **JMELPL/STOP/04, Issue No.02**
 Parameter Required : **As per work order**

TEST RESULTS

S.No.	Parameters	Protocol	Result	Unit
1.	Particulate Matter	IS-11255 (Part-1)	19.65	mg/Nm ³

End of Report

Ritika Saini
 Tested by

Deepak Singh
 Checked by

Sita Ram Yadav
 Authorized Signatory

Reg. Office & Lab.

424, Ground Floor, Udyog Vihar,
 Phase-IV, Gurugram-122015 (Haryana)
 E-mail: jmenvirolab@hotmail.com | www.jmenvirolab.org

Corporate Office

Emaar Digital Greens, Tower-B, Unit No.1517,
 Golf Course Ext. Road, Sector-61,
 Gurugram-122011 (Haryana)

to:

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Approved from MoEF&CC & Certified - ISO 9001:2015, ISO 14001:2015, ISO 45001:2018

TEST REPORT

Sample Number **JME/JKCW/ST/03**
Name & Address of Unit **M/s. J.K. Cement Limited
(Unit: J.K. Cement Works),
P.O. Gotan, District- Nagaur,
Rajasthan (India)**
Sample Description **STACK EMISSION MONITORING**

Report No. **JME/ST/250430013**
Format No. **7.5 F-03**
Party Reference No. **Nil**
Reporting Date **02/05/2025**
Analysis Completion date **02/05/2025**
Analysis Start Date **30/04/2025**
Receipt Date **30/04/2025**

Client Representative (Name & Designation) : **Dr. Ranjeet Kumar Bagariya**
Sample Collected by (Name & Designation) : **JMELPL TEAM**
Date of Sampling & Time : **29/04/2025 (13:00 to 14:00 hrs.)**
Sampling Location & Code : **Raw Mill Kiln Stack (Sample No -3)**
Measuring Principle : **Optical Transmission of Visible Light**
Instrument Make & Model : **Durag 220**
Serial Number of instrument : **1236775**
Sampling duration (Minutes) : **60.0**
Latitude : **26°38'41.03" N**
Longitude : **73°43'41.07" E**
Stack attached to : **ESP**
Make of stack : **MS**
Diameter of stack (Mtr) : **2.60**
Height of stack (Mtr) :
(i) From the source of emission : **--**
(ii) From roof level : **--**
(iii) From Ground Level : **80.2**
Operating Schedule (Hrs/day) : **24 hrs**
Purpose of Monitoring : **Generation of Dust Factor**
Control measure if Any : **ESP**
Operating condition at the time of Sampling : **On Load**
Type of fuel used : **-**
Meteorological Condition : **Clear Sky**
Instrument code : **JME/SMK/01/08**
Instrument calibration status : **Calibrated**
Ambient Temperature - Ta (°C) : **38.0**
Temperature of Stack Gases - Ts (°C) : **137.0**
Velocity of Stack Gases (m/sec.) : **8.63**
Flow rate of PM (LPM) : **27.0**
Flow rate of Gas (LPM) : **--**
Volumetric Flow (NM³/Hr.) : **113932.0**
Carbon Dioxide (CO₂) % : **9.92**
Oxygen (O₂) % : **10.19**
Carbon Monoxide + Nitrogen (CO + N₂) % : **79.89**
Moisture % : **1.05**
Atmospheric Pressure (mm Hg) : **722.6**
Sampling condition : **Iso-kinetic**
Sampling Protocol : **JMELPL/STOP/04, Issue No.02**
Parameter Required : **As per work order**

TEST RESULTS

S.No.	Parameters	Protocol	Result	Unit
1.	Particulate Matter	IS-11255 (Part-1)	17.58	mg/Nm ³

End of Report

Ritika Saini
Ritika Saini
Tested by

Deepak Singh
Deepak Singh
Checked by

Sita Ram Yadav
Sita Ram Yadav
Authorized Signatory

to:

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Corporate Office

Emaar Digital Greens, Tower-B, Unit No.1517,
Golf Course Ext. Road, Sector-61,
Gurugram-122011(Haryana)

PROJECT NAME: - M/s. J K Cement Limited
(Unit: J K Cement Works),
P O Gotan, District Nagaur,
Rajasthan (India)

STACK DETAIL: - Raw Mill Kiln Stack

MEASURING PRINCIPLE: - Optical Transmission of Visible Light

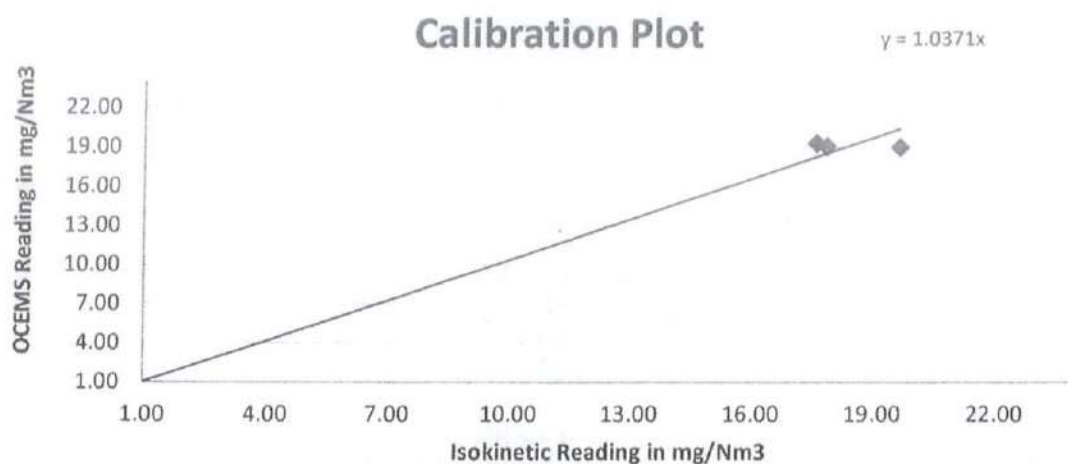
INSTRUMENT MAKE & MODEL: -Durag 220

SERIAL NUMBER OF INSTRUMENT; - 1236775

DATE OF MONITORING: 29/04/2025

GENERATION OF DUST FACTOR FOR CALIBRATION OF OCEMS FOR PARTICULATE MATTER (PM): - To generate the dust factor for the calibration of OCEMS, sampling is carried out. The full-scale calibration is covered on working load using the isokinetic sampling method. A total of three samples were taken for generation of dust factor, with the help of OCEMS data and manual monitoring (Isokinetic sampling) results. In order to report particulate data as dust concentration in mg/m^3 , a correction factor (dust factor) must be determined for each installation.

SAMPLE NO	ISO-KINETIC READING	OCEMS READING
	PM (mg/Nm^3)	PM (mg/Nm^3)
1.	17.83	19.03
2.	19.65	18.97
3.	17.58	19.26



DUST FACTOR CORRECTION FOR OCEMS: 0.96

For J. M. EnviroLab Pvt. Ltd

Authorised
Signatory
Sita Raniadav
(Authorised Signatory)




VIBRANT

Sample Number: VTL/W/01

 Name & Address of the Party : M/S JK Cement Works
 (Unit of JK Cement Ltd.) Vill. & PO. - Golan Dist -
 Nagaur, Rajasthan


TC-16019

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TEST REPORT

 ULR No. : TC160192500000522F
 Report No. : VTL/W/2506150013/A
 Format No : 7.8 F-01
 Party Reference No : GTN/WH/PVR/37/010/25-26
 Report Date : 23/06/2025
 Period of Analysis : 15/06/2025-23/06/2025
 Receipt Date : 15/06/2025
 Sampling Date : 13/06/2025
 Sampling Type : Grab
 Sample Quantity : 2 Ltr.
 Coordinates : 73°43'41" & 26°38'31"

 Sample Description : Ground Water
 Sampling Location : Borewell No.-01
 Sample Collected By : VTL Team
 Preservation : Suitable Preservation
 Method of sampling : IS :3025

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	pH (at 25°C)	IS : 3025 (P-11) : 2022	7.38	--	6.5 to 8.5	No Relaxation
2	Colour	IS : 3025 (P-4) : 2021	*BLQ(*LOQ-5.0)	Hazen	5	15
3	Turbidity	IS : 3025 (P-10) : 2023	*BLQ(*LOQ-1.0)	NTU	1	5
4	Total Hardness (as CaCO ₃)	IS: 3025 (P-21): 2009, RA 2019	474	mg/l	200	600
5	Calcium (as Ca)	IS: 3025 (P-40): 2024	126	mg/l	75	200
6	Total Alkalinity (as CaCO ₃)	IS: 3025 (P-23): 2023	558	mg/l	200	600
7	Chloride (as Cl)	IS: 3025 (P-32): 1988, RA 2019	800	mg/l	250	1000
8	Magnesium (as Mg)	IS: 3025 (P-46): 2023	38.80	mg/l	30	100
9	Total Dissolved Solids	IS :3025 (P-16): 2023	1970	mg/l	500	2000
10	Sulphate (as SO ₄)	IS: 3025 (P-24): Sec-1 :2022 (Clause 5.0)	161	mg/l	200	400
11	Fluoride (as F)	APHA 24th Edition ,4500 F-D :2023	2.09	mg/l	1.0	1.5
12	Nitrate (as NO ₃)	IS: 3025 (P-34): Sec-1 :2023 (Clause 6.4)	29.69	mg/l	45.0	No Relaxation
13	Iron (as Fe)	APHA 24th Edition , 3111B,2023	0.31	mg/l	1.0	No Relaxation
14	Aluminium (as Al)	IS 3025 (P-55): 2003, RA 2019	*BLQ(*LOQ-0.03)	mg/l	0.03	0.2
15	Boron (as B)	APHA 24th Edition ,4500 B-C :2023	*BLQ(*LOQ-0.2)	mg/l	0.5	2.4
16	Total Chromium (as Cr)	APHA 24th Edition , 3111B,2023	*BLQ(*LOQ-0.02)	mg/l	0.05	No Relaxation



Checked by


 RK Yadav
 Lab Incharge
 Authorized Signatory


Corporate & Registered Office:

 Plot No. Q-39, Shringarpura, Narayan Vihar Q,
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**VIBRANT**

TC-16019

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Sample Number : VTL/W/01

ULR No. : TC160192500000522F

Report No. : VTL/W/2506150013/A

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
17	Phenolic Compounds (C6H5OH)	APHA 24th Edition, 5530 C, 2023	*BLQ(**LOQ-0.001)	mg/l	0.001	0.002
18	Zinc (as Zn)	APHA 24th Edition, 3111B, 2023	0.51	mg/l	5.0	15.0
19	Copper (as Cu)	APHA 24th Edition, 3111B, 2023	*BLQ(**LOQ-0.02)	mg/l	0.05	1.5
20	Manganese (as Mn)	APHA 24th Edition, 3111B, 2023	*BLQ(**LOQ-0.05)	mg/l	0.1	0.3
21	Cadmium (as Cd)	APHA 24th Edition, 3111B, 2023	*BLQ(**LOQ-0.002)	mg/l	0.003	No Relaxation
22	Lead (as Pb)	APHA 24th Edition, 3111B, 2023	*BLQ(**LOQ-0.005)	mg/l	0.01	No Relaxation
23	Selenium (as Se)	APHA 24th Edition, 3114C, 2023	*BLQ(**LOQ-0.005)	mg/l	0.01	No Relaxation
24	Arsenic (as As)	APHA 24th Edition, 3114C, 2023	*BLQ(**LOQ-0.005)	mg/l	0.01	No Relaxation
25	Mercury (as Hg)	APHA 24th Edition, 3112 B, 2023	*BLQ(**LOQ-0.001)	mg/l	0.001	No Relaxation
26	Total Coliform	IS : 15185 : 2016 RA 2021	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	--
27	E.Coli	IS : 15185 : 2016 RA 2021	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	--
28	Ammonia (as Total Ammonia-N)	IS-3025 (P-34)- Sec-1, 2023 (Clause-5.3)	*BLQ(**LOQ-0.3)	mg/l	0.5	No Relaxation
29	Silver as Ag	APHA 24th Edition, 3111B, 2023	*BLQ(**LOQ-0.05)	mg/l	0.1	No relaxation
30	Nickel as Ni	APHA 24th Edition, 3111B, 2023	*BLQ(**LOQ-0.01)	mg/l	0.02	No relaxation
31	Free Residual Chlorine	IS 3025 (P-26):2021 Clause	*BLQ(**LOQ-0.2)	mg/l	0.2	1.0



Checked by

RK Yadav
Lab Incharge
Authorized Signatory

Corporate & Registered Office:

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**VIBRANT**

Sample Number : VTLW/01



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TEST REPORT

ULR No. : TC160192500000522F

Report No. : VTLW/2505150013/A

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
31		7.0)				
32	Sodium as Na	APHA 24th Edition,3500-Na, : 2023	250	mg/l	-	-
33	Potassium as K	APHA 24th Edition,3500-K, : 2023	21.94	mg/l	-	-

*BLQ-Below Limit Of Quantification, **LOQ- Limit of Quantification

End of Report



Checked by

RK Yadav
Lab Incharge
Authorized Signatory

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Page No. 3/3

**VIBRANT**

Sample Number : VTL/W/01

Name & Address of the Party : M/S JK Cement Works
(Unit of JK Cement Ltd.) Vill. & PO. - Gotan Dist -
Nagaur, RajasthanSample Description : Ground Water
Sampling Location : Borewell No.-01
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025**VIBRANT TECHNO LAB PVT. LTD.**ISO 9001, 14001 & 45001 Certified Company
EPA Recognized Laboratory | NABET Accredited EIA Consultant Organisation**TEST REPORT**Report No. : VTL/W/2505150013/B
Format No : 7.8 F-01
Party Reference No : GTN/WH/PPVR/37/010/25-26
Report Date : 23/06/2025
Period of Analysis : 15/06/2025-23/06/2025
Receipt Date : 15/06/2025
Sampling Date : 13/06/2025
Sampling Type : Grab
Sample Quantity : 2 Ltr.
Coordinates : 73°43'41" & 26°38'31"

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	Odour	IS : 3025 (P-5) : 2018	Agreeable	--	Agreeable	Agreeable
2	Taste	IS : 3025 (P-8) : 2023	Agreeable	--	Agreeable	Agreeable
3	Mineral Oil	IS 3025 (P-39) 1989	*BLQ(**LOQ-0.05)	mg/l	0.5	No Relaxation
4	Anionic Detergents (as MBAS)	IS 3025 (P-69) : 2019	*BLQ(**LOQ-0.05)	mg/l	0.2	1.0
5	Sulphide	IS 3025 (P-29) :1986 RA 2019 Idometric	*BLQ(**LOQ-0.04)	mg/l	0.05	No Relaxation
6	Chloramines as CL2	IS 3025 (P-26) :2021 (Clause 7.0)	*BLQ(**LOQ-0.05)	mg/l	4.0	No relaxation
7	Barium as Ba	APHA 24th Edition , 3500-Ba : 2023	*BLQ(**LOQ-0.02)	mg/l	0.7	No relaxation
8	Molybdenum	APHA 24th Edition , 3500-Ma : 2023	*BLQ(**LOQ-0.01)	mg/l	0.07	No relaxation
9	Polynuclear-aromatic Hydrocarbon (PAH)	APHA 24th Edition,6440 : 2023	*BLQ(**LOQ-0.0001)	mg/l	0.0001	No relaxation
10	Polychlorinated biphenyls (PCB)	APHA 24th Edition,6431, 2023	*BLQ(**LOQ-0.0001)	mg/l	0.0005	No relaxation

*BLQ-Below Limit Of Quantification, **LOQ- Limit of Quantification

End of Report



Checked by

RK Yadav
Lab Incharge
Authorized Signatory

Corporate & Registered Office:

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Page No. 1/1

**VIBRANT**

Sample Number : VTL/GW/08

Name & Address of the Party : M/S JK Cement Works
(Unit of JK Cement Ltd.) Vill. & PO. - Gotan Dist -
Nagaur, Rajasthan

TC-16019

VIBRANT TECHNO LAB PVT. LTD.ISO 9001, 14001 & 45001 Certified Company
EPA Recognized Laboratory | NABET Accredited EIA Consultant Organisation**TEST REPORT**ULR No. : TC160192500000511F
Report No. : VTL/W/2506150002/A
Format No : 7.8 F-01
Party Reference No : GTN/WH/PVR/37/010/25-26
Report Date : 23/06/2025
Period of Analysis : 15/06/2025-23/06/2025
Receipt Date : 15/06/2025
Sampling Date : 13/06/2025
Sampling Type : Grab
Sample Quantity : 2 Ltr.
Coordinates : 73°43'41" & 26°38'31"Sample Description : Ground Water
Sampling Location : Borewell No.-02
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	pH (at 25°C)	IS : 3025 (P-11) : 2022	7.39	--	6.5 to 8.5	No Relaxation
2	Colour	IS : 3025 (P-4) : 2021	*BLQ(**LOQ-5.0)	Hazen	5	15
3	Turbidity	IS : 3025 (P-10) : 2023	*BLQ(**LOQ-1.0)	NTU	1	5
4	Total Hardness (as CaCO ₃)	IS: 3025 (P-21): 2009, RA 2019	417	mg/l	200	600
5	Calcium (as Ca)	IS: 3025 (P-40): 2024	107	mg/l	75	200
6	Total Alkalinity (as CaCO ₃)	IS: 3025 (P-23):2023	402	mg/l	200	600
7	Chloride (as Cl)	IS: 3025 (P-32): 1988, RA 2019	875	mg/l	250	1000
8	Magnesium (as Mg)	IS: 3025 (P-46): 2023	36.29	mg/l	30	100
9	Total Dissolved Solids	IS :3025 (P-16): 2023	2130	mg/l	500	2000
10	Sulphate (as SO ₄)	IS: 3025 (P-24): Sec-1 :2022 (Clause 5.0)	283	mg/l	200	400
11	Fluoride (as F)	APHA 24th Edition ,4500 F-D :2023	1.56	mg/l	1.0	1.5
12	Nitrate (as NO ₃)	IS: 3025 (P-34): Sec-1 :2023 (Clause 6.4)	47.46	mg/l	45.0	No Relaxation
13	Iron (as Fe)	APHA 24th Edition , 3111B,2023	0.42	mg/l	1.0	No Relaxation
14	Aluminium (as Al)	IS 3025 (P-55): 2003, RA 2019	*BLQ(**LOQ-0.03)	mg/l	0.03	0.2
15	Boron (as B)	APHA 24th Edition ,4500 B-C :2023	*BLQ(**LOQ-0.2)	mg/l	0.5	2.4
16	Total Chromium (as Cr)	APHA 24th Edition , 3111B,2023	*BLQ(**LOQ-0.02)	mg/l	0.05	No Relaxation



Checked by

RK Yadav
Lab Incharge
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Corporate & Registered Office:

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**VIBRANT**

Sample Number : VTL/GW/08



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TEST REPORT

ULR No. : TC1601925000000511F

Report No. : VTLW/2506150002/A

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
17	Phenolic Compounds (C6H5OH)	APHA 24th Edition ,5530 C : 2023	*BLQ(**LOQ-0.001)	mg/l	0.001	0.002
18	Zinc (as Zn)	APHA 24th Edition , 3111B,2023	0.43	mg/l	5.0	15.0
19	Copper (as Cu)	APHA 24th Edition , 3111B,2023	*BLQ(**LOQ-0.02)	mg/l	0.05	1.5
20	Manganese (as Mn)	APHA 24th Edition , 3111B,2023	*BLQ(**LOQ-0.05)	mg/l	0.1	0.3
21	Cadmium (as Cd)	APHA 24th Edition , 3111B,2023	*BLQ(**LOQ-0.002)	mg/l	0.003	No Relaxation
22	Lead (as Pb)	APHA 24th Edition , 3111B,2023	*BLQ(**LOQ-0.005)	mg/l	0.01	No Relaxation
23	Selenium (as Se)	APHA 24th Edition , 3114C,2023	*BLQ(**LOQ-0.005)	mg/l	0.01	No Relaxation
24	Arsenic (as As)	APHA 24th Edition , 3114C,2023	*BLQ(**LOQ-0.005)	mg/l	0.01	No Relaxation
25	Mercury (as Hg)	APHA 24th Edition , 3112 B,2023	*BLQ(**LOQ-0.001)	mg/l	0.001	No Relaxation
26	Total Coliform	IS : 15185 : 2016 RA 2021	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	--
27	E.Coli	IS : 15185 : 2016 RA 2021	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	--
28	Ammonia (as Total Ammonia-N)	IS-3025 (P-34)- Sec-1:2023 (Clause-5.3)	*BLQ(**LOQ-0.3)	mg/l	0.5	No Relaxation
29	Silver as Ag	APHA 24th Edition , 3111B,2023	*BLQ(**LOQ-0.05)	mg/l	0.1	No relaxation
30	Nickel as Ni	APHA 24th Edition , 3111B,2023	*BLQ(**LOQ-0.01)	mg/l	0.02	No relaxation
31	Free Residual Chlorine	IS 3025 (P-26):2021 Clause	*BLQ(**LOQ-0.2)	mg/l	0.2	1.0



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RK Yadav
Lab Incharge
Authorized Signatory

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**VIBRANT**

Sample Number : VTL/GW/08



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TEST REPORT

ULR No. : TC160192500000511F

Report No. : VTL/W/2506150002/A

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
31		7.0)				
32	Sodium as Na	APHA 24th Edition,3500-Na, : 2023	549	mg/l	-	-
33	Potassium as K	APHA 24th Edition,3500-K, : 2023	76.68	mg/l	-	-

*BLQ-Below Limit Of Quantification, **LOQ- Limit of Quantification

End of Report



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VIBRANT

Sample Number : VTL/GW/08

Name & Address of the Party : M/S JK Cement Works
(Unit of JK Cement Ltd.) Vill. & PO. - Gotan Dist -
Nagaur, Rajasthan

Sample Description : Ground Water
Sampling Location : Borewell No.-02
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

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TEST REPORT

Report No. : VTL/W/2505150002/B
Format No : 7.9 F-01
Party Reference No : GTN/WH/PVR/37/010/25-26
Report Date : 23/08/2025
Period of Analysis : 15/08/2025-23/08/2025
Receipt Date : 15/08/2025
Sampling Date : 13/08/2025
Sampling Type : Grab
Sample Quantity : 2 Ltr.
Coordinates : 73°43'41" & 26°38'31"

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	Odour	IS : 3025 (P-5) : 2018	Agreeable	--	Agreeable	Agreeable
2	Taste	IS :3025 (P-8): 2023	Agreeable	--	Agreeable	Agreeable
3	Mineral Oil	IS 3025 (P-39) 1989	*BLQ(**LOQ-0.05)	mg/l	0.5	No Relaxation
4	Anionic Detergents (as MBAS)	IS 3025 (P-68) : 2019	*BLQ(**LOQ-0.05)	mg/l	0.2	1.0
5	Sulphide	IS 3025 (P-29) :1986 RA 2019 Idometric	*BLQ(**LOQ-0.04)	mg/l	0.05	No Relaxation
6	Chloramines as CL2	IS 3025 (P-26) :2021 (Clause 7.0)	*BLQ(**LOQ-0.05)	mg/l	4.0	No relaxation
7	Barium as Ba	APHA 24th Edition , 3500-Ba : 2023	*BLQ(**LOQ-0.02)	mg/l	0.7	No relaxation
8	Molybdenum	APHA 24th Edition , 3500-Ma : 2023	*BLQ(**LOQ-0.01)	mg/l	0.07	No relaxation
9	Polynuclear-aromatic Hydrocarbon (PAH)	APHA 24th Edition,6440 : 2023	*BLQ(**LOQ-0.0001)	mg/l	0.0001	No relaxation
10	Polychlorinated biphenyls (PCB)	APHA 24th Edition,6431, 2023	*BLQ(**LOQ-0.0001)	mg/l	0.0005	No relaxation

*BLQ-Below Limit Of Quantification, **LOQ- Limit of Quantification

End of Report



Checked by



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Page No. 1/1

**VIBRANT**

Sample Number : VTL/GW/03

Name & Address of the Party : M/S JK Cement Works
(Unit of JK Cement Ltd.) Vill. & PO. - Gotan Dist -
Nagaur, Rajasthan

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TEST REPORT

ULR No. : TC160192500000512F
 Report No. : VTLW/2506150003/A
 Format No : 7.8 F-01
 Party Reference No : GTN/WH/PVR/37/010/25-26
 Report Date : 23/06/2025
 Period of Analysis : 15/06/2025-23/06/2025
 Receipt Date : 15/06/2025
 Sampling Date : 13/06/2025
 Sampling Type : Grab
 Sample Quantity : 2 Ltr.
 Coordinates : 73°43'41" & 26°38'31"

Sample Description : Ground Water
 Sampling Location : Borewell No.-03
 Sample Collected By : VTL Team
 Preservation : Suitable Preservation
 Method of sampling : IS :3025

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	pH (at 25°C)	IS : 3025 (P-11) : 2022	7.18	--	6.5 to 8.5	No Relaxation
2	Colour	IS : 3025 (P-4) : 2021	*BLQ(**LOQ-5.0)	Hazen	5	15
3	Turbidity	IS : 3025 (P-10) : 2023	*BLQ(**LOQ-1.0)	NTU	1	5
4	Total Hardness (as CaCO ₃)	IS: 3025 (P-21): 2009, RA 2019	438	mg/l	200	600
5	Calcium (as Ca)	IS: 3025 (P-40): 2024	103	mg/l	75	200
6	Total Alkalinity (as CaCO ₃)	IS: 3025 (P-23):2023	382	mg/l	200	600
7	Chloride (as Cl)	IS: 3025 (P-32): 1988, RA 2019	825	mg/l	250	1000
8	Magnesium (as Mg)	IS: 3025 (P-46): 2023	43.80	mg/l	30	100
9	Total Dissolved Solids	IS :3025 (P-16): 2023	2055	mg/l	500	2000
10	Sulphate (as SO ₄)	IS: 3025 (P-24): Sec-1 :2022 (Clause 5.0)	149	mg/l	200	400
11	Fluoride (as F)	APHA 24th Edition ,4500 F-D :2023	1.50	mg/l	1.0	1.5
12	Nitrate (as NO ₃)	IS: 3025 (P-34): Sec-1 :2023 (Clause 6.4)	30.08	mg/l	45.0	No Relaxation
13	Iron (as Fe)	APHA 24th Edition , 3111B,2023	0.29	mg/l	1.0	No Relaxation
14	Aluminium (as Al)	IS 3025 (P-55): 2003, RA 2019	*BLQ(**LOQ-0.03)	mg/l	0.03	0.2
15	Boron (as B)	APHA 24th Edition ,4500 B-C :2023	*BLQ(**LOQ-0.2)	mg/l	0.5	2.4
16	Total Chromium (as Cr)	APHA 24th Edition , 3111B,2023	*BLQ(**LOQ-0.02)	mg/l	0.05	No Relaxation



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**VIBRANT**

Sample Number : VTL/GW/03



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TEST REPORT

ULR No.

: TC160192500000512F

Report No.

: VTL/W/2500150003/A

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
17	Phenolic Compounds (C6H5OH)	APHA 24th Edition, 5530 C : 2023	*BLQ(**LOQ-0.001)	mg/l	0.001	0.002
18	Zinc (as Zn)	APHA 24th Edition, 3111B, 2023	0.39	mg/l	5.0	15.0
19	Copper (as Cu)	APHA 24th Edition, 3111B, 2023	*BLQ(**LOQ-0.02)	mg/l	0.05	1.5
20	Manganese (as Mn)	APHA 24th Edition, 3111B, 2023	*BLQ(**LOQ-0.05)	mg/l	0.1	0.3
21	Cadmium (as Cd)	APHA 24th Edition, 3111B, 2023	*BLQ(**LOQ-0.002)	mg/l	0.003	No Relaxation
22	Lead (as Pb)	APHA 24th Edition, 3111B, 2023	*BLQ(**LOQ-0.005)	mg/l	0.01	No Relaxation
23	Selenium (as Se)	APHA 24th Edition, 3114C, 2023	*BLQ(**LOQ-0.005)	mg/l	0.01	No Relaxation
24	Arsenic (as As)	APHA 24th Edition, 3114C, 2023	*BLQ(**LOQ-0.005)	mg/l	0.01	No Relaxation
25	Mercury (as Hg)	APHA 24th Edition, 3112 B, 2023	*BLQ(**LOQ-0.001)	mg/l	0.001	No Relaxation
26	Total Coliform	IS : 15185 : 2016 RA 2021	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	--
27	E.Coli	IS : 15185 : 2016 RA 2021	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	--
28	Ammonia (as Total Ammonia-N)	IS-3025 (P-34)- Sec-1:2023 (Clause-5.3)	*BLQ(**LOQ-0.3)	mg/l	0.5	No Relaxation
29	Silver as Ag	APHA 24th Edition, 3111B, 2023	*BLQ(**LOQ-0.05)	mg/l	0.1	No relaxation
30	Nickel as Ni	APHA 24th Edition, 3111B, 2023	*BLQ(**LOQ-0.01)	mg/l	0.02	No relaxation
31	Free Residual Chlorine	IS 3025 (P-26):2021 Clause	*BLQ(**LOQ-0.2)	mg/l	0.2	1.0



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TEST REPORT

Sample Number : VTL/GW/03

ULR No. : TC1601925000000512F

Report No. : VTL/W/2506150003/A

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
31		7.0)				
32	Sodium as Na	APHA 24th Edition, 3500-Na, : 2023	274	mg/l	-	-
33	Potassium as K	APHA 24th Edition, 3500-K, : 2023	38.34	mg/l	-	-

*BLQ-Below Limit Of Quantification, **LOQ- Limit of Quantification

End of Report



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TEST REPORT

VIBRANT

Sample Number : VTL/GW/03

Name & Address of the Party : M/S JK Cement Works
(Unit of JK Cement Ltd.) Vill. & PO. - Gotan Dist -
Nagaur, Rajasthan

Sample Description : Ground Water
Sampling Location : Borewell No.-03
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

Report No. : VTL/W/2506150003/B
Format No : 7.8 F-01
Party Reference No : GTN/WH/PVR/37/010/25-26
Report Date : 23/06/2025
Period of Analysis : 15/06/2025-23/06/2025
Receipt Date : 15/06/2025
Sampling Date : 13/06/2025
Sampling Type : Grab
Sample Quantity : 2 Ltr.
Coordinates : 73°43'41" & 26°38'31"

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	Odour	IS : 3025 (P-5) : 2018	Agreeable	--	Agreeable	Agreeable
2	Taste	IS :3025 (P-8): 2023	Agreeable	--	Agreeable	Agreeable
3	Mineral Oil	IS 3025 (P-39) 1989	*BLQ(**LOQ-0.05)	mg/l	0.5	No Relaxation
4	Anionic Detergents (as MBAS)	IS 3025 (P-68) : 2019	*BLQ(**LOQ-0.05)	mg/l	0.2	1.0
5	Sulphide	IS 3025 (P-29) :1986 RA 2019 Iodometric	*BLQ(**LOQ-0.04)	mg/l	0.05	No Relaxation
6	Chloramines as CL2	IS 3025 (P-26) :2021 (Clause 7.0)	*BLQ(**LOQ-0.05)	mg/l	4.0	No relaxation
7	Barium as Ba	APHA 24th Edition , 3500-Ba : 2023	*BLQ(**LOQ-0.02)	mg/l	0.7	No relaxation
8	Molybdenum	APHA 24th Edition , 3500-Ma : 2023	*BLQ(**LOQ-0.01)	mg/l	0.07	No relaxation
9	Polynuclear-aromatic Hydrocarbon (PAH)	APHA 24th Edition,6440 : 2023	*BLQ(**LOQ-0.0001)	mg/l	0.0001	No relaxation
10	Polychlorinated biphenyls (PCB)	APHA 24th Edition,6431, 2023	*BLQ(**LOQ-0.0001)	mg/l	0.0005	No relaxation

*BLQ-Below Limit Of Quantification, **LOQ- Limit of Quantification

End of Report



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**VIBRANT**

Sample Number : VTL/GW/04

Name & Address of the Party : M/S JK Cement Works
(Unit of JK Cement Ltd.) Vill. & PO. - Gotan Dist -
Nagaur, Rajasthan



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TEST REPORT

ULR No. : TC1601925000000513F
Report No. : VTL/W/2508150004/A
Format No : 7.8 F-01
Party Reference No : GTN/WH/PVR/37/010/25-26
Report Date : 23/06/2025
Period of Analysis : 15/06/2025-23/06/2025
Receipt Date : 15/06/2025
Sampling Date : 13/06/2025
Sampling Type : Grab
Sample Quantity : 2 Ltr.
Coordinates : 73°43'41" & 26°38'31"

Sample Description : Ground Water
Sampling Location : Borewell No.-04
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	pH (at 25°C)	IS : 3025 (P-11) : 2022	7.36	--	6.5 to 8.5	No Relaxation
2	Colour	IS : 3025 (P-4) : 2021	*BLQ(**LOQ-5.0)	Hazen	5	15
3	Turbidity	IS : 3025 (P-10) : 2023	*BLQ(**LOQ-1.0)	NTU	1	5
4	Total Hardness (as CaCO ₃)	IS: 3025 (P-21): 2009, RA 2019	484	mg/l	200	600
5	Calcium (as Ca)	IS: 3025 (P- 40): 2024	99.08	mg/l	75	200
6	Total Alkalinity (as CaCO ₃)	IS: 3025 (P-23):2023	548	mg/l	200	600
7	Chloride (as Cl)	IS: 3025 (P-32): 1988, RA 2019	1375	mg/l	250	1000
8	Magnesium (as Mg)	IS: 3025 (P-46): 2023	57.56	mg/l	30	100
9	Total Dissolved Solids	IS :3025 (P-16): 2023	1595	mg/l	500	2000
10	Sulphate (as SO ₄)	IS: 3025 (P-24): Sec-1 :2022 (Clause 5.0)	187.56	mg/l	200	400
11	Fluoride (as F)	APHA 24th Edition ,4500 F-D :2023	1.33	mg/l	1.0	1.5
12	Nitrate (as NO ₃)	IS: 3025 (P-34): Sec-1 :2023 (Clause 6.4)	27.54	mg/l	45.0	No Relaxation
13	Iron (as Fe)	APHA 24th Edition , 3111B,2023	0.47	mg/l	1.0	No Relaxation
14	Aluminium (as Al)	IS 3025 (P-55): 2003, RA 2019	*BLQ(**LOQ-0.03)	mg/l	0.03	0.2
15	Boron (as B)	APHA 24th Edition ,4500 B-C :2023	*BLQ(**LOQ-0.2)	mg/l	0.5	2.4
16	Total Chromium (as Cr)	APHA 24th Edition , 3111B,2023	*BLQ(**LOQ-0.02)	mg/l	0.05	No Relaxation



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TEST REPORT

VIBRANT

Sample Number : VTL/GW/04

TC-16019

ULR No. : TC1601925000000513F

Report No. : VTL/W/2506150004/A

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
17	Phenolic Compounds (C6H5OH)	APHA 24th Edition ,5530 C : 2023	*BLQ(**LOQ-0.001)	mg/l	0.001	0.002
18	Zinc (as Zn)	APHA 24th Edition , 3111B,2023	0.48	mg/l	5.0	15.0
19	Copper (as Cu)	APHA 24th Edition , 3111B,2023	*BLQ(**LOQ-0.02)	mg/l	0.05	1.5
20	Manganese (as Mn)	APHA 24th Edition , 3111B,2023	*BLQ(**LOQ-0.05)	mg/l	0.1	0.3
21	Cadmium (as Cd)	APHA 24th Edition , 3111B,2023	*BLQ(**LOQ-0.002)	mg/l	0.003	No Relaxation
22	Lead (as Pb)	APHA 24th Edition , 3111B,2023	*BLQ(**LOQ-0.005)	mg/l	0.01	No Relaxation
23	Selenium (as Se)	APHA 24th Edition , 3114C,2023	*BLQ(**LOQ-0.005)	mg/l	0.01	No Relaxation
24	Arsenic (as As)	APHA 24th Edition , 3114C,2023	*BLQ(**LOQ-0.005)	mg/l	0.01	No Relaxation
25	Mercury (as Hg)	APHA 24th Edition , 3112 B,2023	*BLQ(**LOQ-0.001)	mg/l	0.001	No Relaxation
26	Total Coliform	IS : 15185 : 2016 RA 2021	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	--
27	E.Coli	IS : 15185 : 2016 RA 2021	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	--
28	Ammonia (as Total Ammonia-N)	IS-3025 (P-34)- Sec-1:2023 (Clause-5.3)	*BLQ(**LOQ-0.3)	mg/l	0.5	No Relaxation
29	Silver as Ag	APHA 24th Edition , 3111B,2023	*BLQ(**LOQ-0.05)	mg/l	0.1	No relaxation
30	Nickel as Ni	APHA 24th Edition , 3111B,2023	*BLQ(**LOQ-0.01)	mg/l	0.02	No relaxation
31	Free Residual Chlorine	IS 3025 (P-26):2021 Clause	*BLQ(**LOQ-0.2)	mg/l	0.2	1.0



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TEST REPORT

VIBRANT

Sample Number: VTL/GW/04

TC-16019

ULR No. : TC160192500000513F

Report No. : VTL/W/2506150004/A

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
31		7.0)				
32	Sodium as Na	APHA 24th Edition,3500-Na, : 2023	269	mg/l	-	-
33	Potassium as K	APHA 24th Edition,3500-K, : 2023	20.76	mg/l	-	-

*BLQ-Below Limit Of Quantification, **LOQ- Limit of Quantification

End of Report



Checked by



RK Yadav
Lab Incharge
Authorized Signatory



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**VIBRANT**

Sample Number : VTL/GW/04

Name & Address of the Party : M/S JK Cement Works
(Unit of JK Cement Ltd.) Vill. & PO. - Gotan Dist -
Nagaur, RajasthanSample Description : Ground Water
Sampling Location : Borewell No.-04
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025**VIBRANT TECHNO LAB PVT. LTD.**ISO 9001, 14001 & 45001 Certified Company
EPA Recognized Laboratory | NABET Accredited EIA Consultant Organisation**TEST REPORT**Report No. : VTL/W/2506150004/B
Format No : 7.8 F-01
Party Reference No : GTN/WH/PVR/37/010/25-26
Report Date : 23/06/2025
Period of Analysis : 15/06/2025-23/06/2025
Receipt Date : 15/06/2025
Sampling Date : 13/06/2025
Sampling Type : Grab
Sample Quantity : 2 Ltr.
Coordinates : 73°43'41" & 26°38'31"

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	Odour	IS : 3025 (P-5) : 2018	Agreeable	--	Agreeable	Agreeable
2	Taste	IS :3025 (P-8): 2023	Agreeable	--	Agreeable	Agreeable
3	Mineral Oil	IS 3025 (P-39) 1989	*BLQ(**LOQ-0.05)	mg/l	0.5	No Relaxation
4	Anionic Detergents (as MBAS)	IS 3025 (P-68) : 2019	*BLQ(**LOQ-0.05)	mg/l	0.2	1.0
5	Sulphide	IS 3025 (P-29) :1986 RA 2019 Idometric	*BLQ(**LOQ-0.04)	mg/l	0.05	No Relaxation
6	Chloramines as CL2	IS 3025 (P-26) :2021 (Clause 7.0)	*BLQ(**LOQ-0.05)	mg/l	4.0	No relaxation
7	Barium as Ba	APHA 24th Edition , 3500-Ba : 2023	*BLQ(**LOQ-0.02)	mg/l	0.7	No relaxation
8	Molybdenum	APHA 24th Edition , 3500-Ma : 2023	*BLQ(**LOQ-0.01)	mg/l	0.07	No relaxation
9	Polynuclear-aromatic Hydrocarbon (PAH)	APHA 24th Edition,6440 : 2023	*BLQ(**LOQ-0.0001)	mg/l	0.0001	No relaxation
10	Polychlorinated biphenyls (PCB)	APHA 24th Edition,6431, 2023	*BLQ(**LOQ-0.0001)	mg/l	0.0005	No relaxation

*BLQ-Below Limit Of Quantification, **LOQ- Limit of Quantification

End of Report



Checked by

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Lab Incharge
Authorized Signatory

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TEST REPORT

Sample Number : VTL/GW/08

Name & Address of the Party : M/S JK Cement Works
(Unit of JK Cement Ltd.) Vill. & PO. - Gotan Dist -
Nagaur, Rajasthan

Sample Description : Ground Water

Sampling Location : Borewell No.-01

Sample Collected By : VTL Team

Preservation : Suitable Preservation

Method of sampling : IS :3025

ULR No. : TC160192500000966F

Report No. : VTL/W/2509270003/A

Format No : 7.8 F-01

Party Reference No : GTN/WH/PVR/37/010/25-26

Report Date : 06/10/2025

Period of Analysis : 27/09/2025-06/10/2025

Receipt Date : 27/09/2025

Sampling Date : 24/09/2025

Sampling Type : Grab

Sample Quantity : 2 Ltr.

Coordinates : 73°43'41" & 26°38'31"

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	pH (at 25°C)	IS 3025(P- 11): 2022	7.29	--	6.5 to 8.5	No Relaxation
2	Colour	IS : 3025:(P-4) 2021	*BLQ(**LOQ-1.0)	Hazen	5	15
3	Turbidity	IS : 3025: (P-10) 2023	*BLQ**(LOQ-1.0)	NTU	1	5
4	Odour	IS : 3025 (P-5) : 2018	Agreeable	--	Agreeable	Agreeable
5	Taste	IS :3025 (P-8): 2023	Agreeable	--	Agreeable	Agreeable
6	Total Hardness (as CaCO ₃)	IS: 3025 (P-21): 2009, RA 2019	460	mg/L	200	600
7	Calcium (as Ca)	IS: 3025 (P- 40): 2024	120.24	mg/L	75	200
8	Total Alkalinity (as CaCO ₃)	IS: 3025 (P-23): 2023	550	mg/L	200	600
9	Chloride (as Cl)	IS: 3025 (P-32): 1988, RA 2019	700	mg/L	250	1000
10	Magnesium (as Mg)	IS: 3025 (P-46): 2023	38.88	mg/L	30	100
11	Total Dissolved Solids	IS :3025 (P-16): 2023	2144	mg/L	500	2000
12	Sulphate (as SO ₄)	IS: 3025 (P-24): Sec 1 : 2022	160	mg/L	200	400
13	Fluoride (as F)	APHA 24th Edition, 4500F-D: 2023	1.66	mg/L	1.0	1.5
14	Nitrate (as NO ₃)	IS 3025 : P-34 : Sec 1 : 2023 (Clause 6.4)	27.03	mg/L	45.0	No Relaxation
15	Iron (as Fe)	APHA 24th Edition 3111 B, 2023	0.27	mg/L	1.0	No Relaxation
16	Aluminium (as Al)	IS 3025 (P-55): 2003, RA 2019	*BLQ(**LOQ-0.03)	mg/L	0.03	0.2
17	Boron (as B)	APHA 24th Edition 4500B-C : 2023	*BLQ(**LOQ-0.2)	mg/L	0.5	2.4



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TEST REPORT

Sample Number : VTL/GW/08

ULR No. : TC160192500000965F

Report No. : VTL/W/2509270003/A

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
18	Total Chromium (as Cr)	APHA 24th Edition 3111 B, 2023	*BLQ(**LOQ-0.02)	mg/L	0.05	No Relaxation
19	Phenolic Compounds (C6H5OH)	APHA 24th Edition, 5530C, 2023	*BLQ(**LOQ-0.001)	mg/L	0.001	0.002
20	Zinc (as Zn)	APHA 24th Edition 3111 B, 2023	0.48	mg/L	5.0	15.0
21	Copper (as Cu)	APHA 24th Edition 3111 B, 2023	*BLQ(**LOQ-0.02)	mg/L	0.05	1.5
22	Manganese (as Mn)	APHA 24th Edition 3111 B, 2023	*BLQ(**LOQ-0.05)	mg/L	0.1	0.3
23	Cadmium (as Cd)	APHA 24th Edition 3111 B, 2023	*BLQ(**LOQ-0.002)	mg/L	0.003	No Relaxation
24	Lead (as Pb)	APHA 24th Edition 3111 B, 2023	*BLQ(**LOQ-0.005)	mg/L	0.01	No Relaxation
25	Selenium (as Se)	APHA 24th Edition 3114 C, 2023	*BLQ(**LOQ-0.005)	mg/L	0.01	No Relaxation
26	Arsenic (as As)	APHA 24th Edition 3114 C, 2023	*BLQ(**LOQ-0.005)	mg/L	0.01	No Relaxation
27	Mercury (as Hg)	APHA 24th Edition 3112B, 2023	*BLQ(**LOQ-0.001)	mg/L	0.001	No Relaxation
28	Total Coliform	IS 15185: 2016 RA 2021	Absent	cfu/100 ml	Shall not be detectable in any 100 ml sample	--
29	E.Coli	IS 15185: 2016 RA 2021	Absent	cfu/100 ml	Shall not be detectable in any 100 ml sample	--
30	Silver as Ag	APHA 24th Edition 3111 B, 2023	*BLQ(**LOQ-0.01)	mg/L	0.1	No relaxation
31	Nickel as Ni	APHA 24th Edition 3111 B, 2023	*BLQ(**LOQ-0.01)	mg/L	0.02	No relaxation
32	Free Residual Chlorine	IS 3025 (P-26):2021	*BLQ(**LOQ-0.2)	mg/L	0.2	1.0



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TC-16019

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TEST REPORT

Sample Number : VTL/GW/08

ULR No. : TC160192500000986F

Report No. : VTL/W/2509270003/A

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
33	Sodium as Na	APHA 24th Edition,3500 Na,2023	423	mg/L	-	-
34	Potassium as K	APHA 24th Edition,3500 K,2023	19.72	mg/L	-	-

*BLQ:- Below Detection Limit, **LOQ:- Limit Of Quantification

End of Report



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**VIBRANT**

TC-16019

VIBRANT TECHNO LAB PVT. LTD.ISO 9001, 14001 & 45001 Certified Company
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Sample Number : VTL/GW/04

Name & Address of the Party : M/S JK Cement Works
(Unit of JK Cement Ltd.) Vill. & PO. - Gotan Dist -
Nagaur, RajasthanSample Description : Ground Water
Sampling Location : Borewell No.-02
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025ULR No. : TC1601925000000967F
Report No. : VTLAW/2509270004/A
Format No : 7.8 F-01
Party Reference No : GTN/WH/PVR/37/010/25-26
Report Date : 06/10/2025
Period of Analysis : 27/09/2025-06/10/2025
Receipt Date : 27/09/2025
Sampling Date : 24/09/2025
Sampling Type : Grab
Sample Quantity : 2 Ltr.
Coordinates : 73°43'41" & 28°38'31"

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	pH (at 25°C)	IS 3025(P- 11): 2022	7.41	--	6.5 to 8.5	No Relaxation
2	Colour	IS : 3025 (P-4) 2021	*BLQ(**LOQ-1.0)	Hazen	5	15
3	Turbidity	IS : 3025 (P-10) 2023	*BLQ(**LOQ-1.0)	NTU	1	5
4	Odour	IS : 3025 (P-5) : 2018	Agreeable	--	Agreeable	Agreeable
5	Taste	IS :3025 (P-8): 2023	Agreeable	--	Agreeable	Agreeable
6	Total Hardness (as CaCO ₃)	IS: 3025 (P-21): 2009, RA 2019	380.0	mg/L	200	600
7	Calcium (as Ca)	IS: 3025 (P- 40): 2024	96.19	mg/L	75	200
8	Total Alkalinity (as CaCO ₃)	IS: 3025 (P-23): 2023	390.0	mg/L	200	600
9	Chloride (as Cl)	IS: 3025 (P-32): 1988, RA 2019	800	mg/L	250	1000
10	Magnesium (as Mg)	IS: 3025 (P-46): 2023	34.02	mg/L	30	100
11	Total Dissolved Solids	IS :3025 (P-16): 2023	2262	mg/L	500	2000
12	Sulphate (as SO ₄)	IS: 3025 (P-24): Sec 1 : 2022	209.41	mg/L	200	400
13	Fluoride (as F)	APHA 24th Edition, 4500F-D, 2023	1.46	mg/L	1.0	1.5
14	Nitrate (as NO ₃)	IS 3025 : P-34 : Sec 1 : 2023 (Clause 6.4)	41.37	mg/L	45.0	No Relaxation
15	Iron (as Fe)	APHA 24th Edition 3111 B, 2023	0.38	mg/L	1.0	No Relaxation
16	Aluminium (as Al)	IS 3025 (P-55): 2003, RA 2019	*BLQ(**LOQ-0.03)	mg/L	0.03	0.2
17	Boron (as B)	APHA 24th Edition 4500B-C : 2023	*BLQ(**LOQ-0.2)	mg/L	0.5	2.4



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TEST REPORT

Sample Number : VTL/GW/04

ULR No. : TC160192500000967F

Report No. : VTL/W/2509270004/A

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
18	Total Chromium (as Cr)	APHA 24th Edition 3111 B, 2023	*BLQ(**LOQ-0.02)	mg/L	0.05	No Relaxation
19	Phenolic Compounds (C6H5OH)	APHA 24th Edition, 5530C, 2023	*BLQ(**LOQ-0.001)	mg/L	0.001	0.002
20	Zinc (as Zn)	APHA 24th Edition 3111 B, 2023	0.41	mg/L	5.0	15.0
21	Copper (as Cu)	APHA 24th Edition 3111 B, 2023	*BLQ(**LOQ-0.02)	mg/L	0.05	1.5
22	Manganese (as Mn)	APHA 24th Edition 3111 B, 2023	*BLQ(**LOQ-0.05)	mg/L	0.1	0.3
23	Cadmium (as Cd)	APHA 24th Edition 3111 B, 2023	*BLQ(**LOQ-0.002)	mg/L	0.003	No Relaxation
24	Lead (as Pb)	APHA 24th Edition 3111 B, 2023	*BLQ(**LOQ-0.005)	mg/L	0.01	No Relaxation
25	Selenium (as Se)	APHA 24th Edition 3114 C, 2023	*BLQ(**LOQ-0.005)	mg/L	0.01	No Relaxation
26	Arsenic (as As)	APHA 24th Edition 3114 C, 2023	*BLQ(**LOQ-0.005)	mg/L	0.01	No Relaxation
27	Mercury (as Hg)	APHA 24th Edition 3112B, 2023	*BLQ(**LOQ-0.001)	mg/L	0.001	No Relaxation
28	Total Coliform	IS 15185: 2016 RA 2021	Absent	cfu/100 ml	Shall not be detectable in any 100 ml sample	--
29	E.Coli	IS 15185: 2016 RA 2021	Absent	cfu/100 ml	Shall not be detectable in any 100 ml sample	--
30	Silver as Ag	APHA 24th Edition 3111 B, 2023	*BLQ(**LOQ-0.01)	mg/L	0.1	No relaxation
31	Nickel as Ni	APHA 24th Edition 3111 B, 2023	*BLQ(**LOQ-0.01)	mg/L	0.02	No relaxation
32	Free Residual Chlorine	IS 3025 (P-26):2021	*BLQ(**LOQ-0.2)	mg/L	0.2	1.0



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TEST REPORT

Sample Number : VTL/GW/04

TC-16019

ULR No. : TC160192500000967F

Report No. : VTLW/2509270004/A

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
33	Sodium as Na	APHA 24th Edition, 3500 Na, 2023	520.0	mg/L	-	-
34	Potassium as K	APHA 24th Edition, 3500 K, 2023	63.60	mg/L	-	-

*BLQ:- Below Detection Limit, **LOQ:- Limit Of Quantification

End of Report



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TC-16019

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TEST REPORT

Sample Number : VTU/GW/05

Name & Address of the Party : M/S JK Cement Works

(Unit of JK Cement Ltd.) Vill. & PO. - Gotan Dist - Nagaur, Rajasthan

Sample Description : Ground Water

Sampling Location : Borewell No.-03

Sample Collected By : VTL Team

Preservation : Suitable Preservation

Method of sampling : IS :3025

ULR No. : TC160192500000968F

Report No. : VTLW/2509270005/A

Format No : 7.8 F-01

Party Reference No : GTN/WH/PVR/37/010/25-26

Report Date : 06/10/2025

Period of Analysis : 27/09/2025-06/10/2025

Receipt Date : 27/09/2025

Sampling Date : 24/09/2025

Sampling Type : Grab

Sample Quantity : 2 Ltr.

Coordinates : 73°43'41" & 26°38'31"

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	pH (at 25°C)	IS 3025(P- 11): 2022	7.34	—	6.5 to 8.5	No Relaxation
2	Colour	IS : 3025(P-4): 2021	*BLQ**(LOQ-1.0)	Hazen	5	15
3	Turbidity	IS : 3025 (P-10): 2023	*BLQ**(LOQ-1.0)	NTU	1	5
4	Odour	IS : 3025 (P-5) : 2018	Agreeable	—	Agreeable	Agreeable
5	Taste	IS :3025 (P-8): 2023	Agreeable	—	Agreeable	Agreeable
6	Total Hardness (as CaCO ₃)	IS: 3025 (P-21): 2009, RA 2019	420.0	mg/L	200	600
7	Calcium (as Ca)	IS: 3025 (P- 40): 2024	96.19	mg/L	75	200
8	Total Alkalinity (as CaCO ₃)	IS: 3025 (P-23): 2023	370	mg/L	200	600
9	Chloride (as Cl)	IS: 3025 (P-32): 1988, RA 2019	750	mg/L	250	1000
10	Magnesium (as Mg)	IS: 3025 (P-46): 2023	43.74	mg/L	30	100
11	Total Dissolved Solids	IS :3025 (P-16): 2023	2121	mg/L	500	2000
12	Sulphate (as SO ₄)	IS: 3025 (P-24): Sec 1 : 2022	142.08	mg/L	200	400
13	Fluoride (as F)	APHA 24th Edition, 4500F-D: 2023	1.42	mg/L	1.0	1.5
14	Nitrate (as NO ₃)	IS 3025 : P-34 : Sec 1 : 2023 (Clause 6.4)	29.69	mg/L	45.0	No Relaxation
15	Iron (as Fe)	APHA 24th Edition 3111 B, 2023	0.22	mg/L	1.0	No Relaxation
16	Aluminium (as Al)	IS 3025 (P-55): 2003, RA 2019	*BLQ**(LOQ-0.03)	mg/L	0.03	0.2
17	Boron (as B)	APHA 24th Edition 4500B-C : 2023	*BLQ**(LOQ-0.2)	mg/L	0.5	2.4



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TC-16019

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TEST REPORT

Sample Number : VTL/GW/05

ULR No.

: TC160192500000968F

Report No.

: VTL/W/2509270005/A

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
18	Total Chromium (as Cr)	APHA 24th Edition 3111 B, 2023	*BLQ(**LOQ-0.02)	mg/L	0.05	No Relaxation
19	Phenolic Compounds (C6H5OH)	APHA 24th Edition, 5530C, 2023	*BLQ(**LOQ-0.001)	mg/L	0.001	0.002
20	Zinc (as Zn)	APHA 24th Edition 3111 B, 2023	0.33	mg/L	5.0	15.0
21	Copper (as Cu)	APHA 24th Edition 3111 B, 2023	*BLQ(**LOQ-0.02)	mg/L	0.05	1.5
22	Manganese (as Mn)	APHA 24th Edition 3111 B, 2023	*BLQ(**LOQ-0.05)	mg/L	0.1	0.3
23	Cadmium (as Cd)	APHA 24th Edition 3111 B, 2023	*BLQ(**LOQ-0.002)	mg/L	0.003	No Relaxation
24	Lead (as Pb)	APHA 24th Edition 3111 B, 2023	*BLQ(**LOQ-0.005)	mg/L	0.01	No Relaxation
25	Selenium (as Se)	APHA 24th Edition 3114 C, 2023	*BLQ(**LOQ-0.005)	mg/L	0.01	No Relaxation
26	Arsenic (as As)	APHA 24th Edition 3114 C, 2023	*BLQ(**LOQ-0.005)	mg/L	0.01	No Relaxation
27	Mercury (as Hg)	APHA 24th Edition 3112B, 2023	*BLQ(**LOQ-0.001)	mg/L	0.001	No Relaxation
28	Total Coliform	IS 15185: 2016 RA 2021	Absent	cfu/100 ml	Shall not be detectable in any 100 ml sample	--
29	E.Coli	IS 15185: 2016 RA 2021	Absent	cfu/100 ml	Shall not be detectable in any 100 ml sample	--
30	Silver as Ag	APHA 24th Edition 3111 B, 2023	*BLQ(**LOQ-0.01)	mg/L	0.1	No relaxation
31	Nickel as Ni	APHA 24th Edition 3111 B, 2023	*BLQ(**LOQ-0.01)	mg/L	0.02	No relaxation
32	Free Residual Chlorine	IS 3025 (P-26):2021	*BLQ(**LOQ-0.2)	mg/L	0.2	1.0



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TEST REPORT

Sample Number : VTL/GW/05

ULR No.

: TC160192500000968F

Report No.

: VTL/W/2509270005/A

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
33	Sodium as Na	APHA 24th Edition, 3500 Na, 2023	375	mg/L	-	-
34	Potassium as K	APHA 24th Edition, 3500 K, 2023	29.44	mg/L	-	-

*BLQ:- Below Detection Limit, **LOQ:- Limit Of Quantification

End of Report



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TC-16019

VIBRANT TECHNO LAB PVT. LTD.ISO 9001, 14001 & 45001 Certified Company
EPA Recognized Laboratory | NABET Accredited EIA Consultant Organisation**TEST REPORT**

Sample Number : VTL/GW/06

Name & Address of the Party : M/S JK Cement Works
(Unit of JK Cement Ltd.) Vill. & PO. - Gotan Dist -
Nagaur, Rajasthan

Sample Description : Ground Water

Sampling Location : Borewell No.-04

Sample Collected By : VTL Team

Preservation : Suitable Preservation

Method of sampling : IS :3025

ULR No. : TC160192500000969F

Report No. : VTL/W/2509270006/A

Format No : 7.8 F-01

Party Reference No : GTN/WH/PVR/37/010/25-26

Report Date : 06/10/2025

Period of Analysis : 27/09/2025-06/10/2025

Receipt Date : 27/09/2025

Sampling Date : 24/09/2025

Sampling Type : Grab

Sample Quantity : 2 Ltr.

Coordinates : 73°43'41" & 26°38'31"

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	pH (at 25°C)	IS 3025(P- 11): 2022	7.43	--	6.5 to 8.5	No Relaxation
2	Colour	IS : 3025 (P-4) : 2021	*BLQ(**LOQ-1.0)	Hazen	5	15
3	Turbidity	IS : 3025 (P-10) : 2023	*BLQ(**LOQ-1.0)	NTU	1	5
4	Odour	IS : 3025 (P-5) : 2018	Agreeable	--	Agreeable	Agreeable
5	Taste	IS : 3025 (P-8) : 2023	Agreeable	--	Agreeable	Agreeable
6	Total Hardness (as CaCO ₃)	IS: 3025 (P-21): 2009, RA 2019	460	mg/L	200	600
7	Calcium (as Ca)	IS: 3025 (P- 40): 2024	88.18	mg/L	75	200
8	Total Alkalinity (as CaCO ₃)	IS: 3025 (P-23): 2023	530	mg/L	200	600
9	Chloride (as Cl)	IS: 3025 (P-32): 1988, RA 2019	600	mg/L	250	1000
10	Magnesium (as Mg)	IS: 3025 (P-46): 2023	58.32	mg/L	30	100
11	Total Dissolved Solids	IS :3025 (P-15): 2023	1742	mg/L	500	2000
12	Sulphate (as SO ₄)	IS: 3025 (P-24): Sec 1 : 2022	129.70	mg/L	200	400
13	Fluoride (as F)	APHA 24th Edition, 4500F-D: 2023	1.26	mg/L	1.0	1.5
14	Nitrate (as NO ₃)	IS 3025 : P-34 : Sec 1 : 2023 (Clause 6.4)	24.11	mg/L	45.0	No Relaxation
15	Iron (as Fe)	APHA 24th Edition 3111 B, 2023	0.38	mg/L	1.0	No Relaxation
16	Aluminium (as Al)	IS 3025 (P-55): 2003, RA 2019	*BLQ(**LOQ-0.03)	mg/L	0.03	0.2
17	Boron (as B)	APHA 24th Edition 4500B-C : 2023	*BLQ(**LOQ-0.2)	mg/L	0.5	2.4



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TEST REPORT

Sample Number : VTU/GW/06

ULR No.

: TC160192500000989F

Report No.

: VTUW/2509270006/A

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
18	Total Chromium (as Cr)	APHA 24th Edition 3111 B, 2023	*BLQ(**LOQ-0.02)	mg/L	0.05	No Relaxation
19	Phenolic Compounds (C6H5OH)	APHA 24th Edition, 5530C, 2023	*BLQ(**LOQ-0.001)	mg/L	0.001	0.002
20	Zinc (as Zn)	APHA 24th Edition 3111 B, 2023	0.53	mg/L	5.0	15.0
21	Copper (as Cu)	APHA 24th Edition 3111 B, 2023	*BLQ(**LOQ-0.02)	mg/L	0.05	1.5
22	Manganese (as Mn)	APHA 24th Edition 3111 B, 2023	*BLQ(**LOQ-0.05)	mg/L	0.1	0.3
23	Cadmium (as Cd)	APHA 24th Edition 3111 B, 2023	*BLQ(**LOQ-0.002)	mg/L	0.003	No Relaxation
24	Lead (as Pb)	APHA 24th Edition 3111 B, 2023	*BLQ(**LOQ-0.005)	mg/L	0.01	No Relaxation
25	Selenium (as Se)	APHA 24th Edition 3114 C, 2023	*BLQ(**LOQ-0.005)	mg/L	0.01	No Relaxation
26	Arsenic (as As)	APHA 24th Edition 3114 C, 2023	*BLQ(**LOQ-0.005)	mg/L	0.01	No Relaxation
27	Mercury (as Hg)	APHA 24th Edition 3112B, 2023	*BLQ(**LOQ-0.001)	mg/L	0.001	No Relaxation
28	Total Coliform	IS 15185: 2016 RA 2021	Absent	cfu/100 ml	Shall not be detectable in any 100 ml sample	—
29	E.Coli	IS 15185: 2016 RA 2021	Absent	cfu/100 ml	Shall not be detectable in any 100 ml sample	—
30	Silver as Ag	APHA 24th Edition 3111 B, 2023	*BLQ(**LOQ-0.01)	mg/L	0.1	No relaxation
31	Nickel as Ni	APHA 24th Edition 3111 B, 2023	*BLQ(**LOQ-0.01)	mg/L	0.02	No relaxation
32	Free Residual Chlorine	IS 3025 (P-26) 2021	*BLQ(**LOQ-0.2)	mg/L	0.2	1.0



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TEST REPORT

Sample Number : VTL/GW/06

ULR No.

: TC160192500000969F

Report No.

: VTL/W/2509270006/A

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
33	Sodium as Na	APHA 24th Edition, 3500 Na, 2023	276.80	mg/L	-	-
34	Potassium as K	APHA 24th Edition, 3500 K, 2023	17.44	mg/L	-	-

*BLQ:- Below Detection Limit, **LOQ:- Limit Of Quantification

End of Report



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Annexure 10: STP Water Analysis Report

**VIBRANT**

Sample Number : VTL/WW/01



TC-16019

M/S JK Cement Works
(Unit of JK Cement Ltd.) Vill. & PO. - Gotan Dist -
Nagaur, Rajasthan

Name & Address of the Party :

Sample Description : Waste Water
Sampling Location : STP Outlet (STP Treated Water) 300 KLD STP
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

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TEST REPORT

ULR No. : TC160192500000524F
Report No. : VTL/WW/2506150001/A
Format No : 7.8 F-01
Party Reference No : GTN/WH/PVR/37/010/25-26
Report Date : 23/06/2025
Period of Analysis : 15/06/2025-23/06/2025
Receipt Date : 15/06/2025
Sampling Date : 13/06/2025
Sampling Type : Grab
Sample Quantity : 2 Ltr
Coordinates : 73°43'22" N & 26°38'28"E

S.No.	Test Parameters	Test Method	Result	Unit	Limits
1	pH	IS: 3025 (P-11): 2022	7.71	-	6.5 to 9.0
2	Total Suspended Solids (TSS)	IS: 3025 (P-17): 2022	11.00	mg/l	20
3	Temperature	IS: 3025 (P-9): 2023	26.8	°C	Shall not exceed 5°C above the receiving water temperature
4	Oil & Grease	IS:3025 (P-39): 2021	*BLQ(**LOQ-4.0)	mg/l	10
5	Ammonical Nitrogen (as NH ₄ -N)	IS : 3025 (P-34) Sec 1 :2023 (Clause 5.3)	5.35	mg/l	5.0
6	Total Nitrogen (as N)	IS : 3025 (P-34) Sec 1 :2023	7.54		10
7	Biochemical Oxygen Demand (BOD) (3 days @ 27°C)	IS: 3025 (P-44): 2023	8.25	mg/l	10
8	Chemical oxygen Demand (COD)	IS : 3025 (P-58) : 2023	40	mg/l	50
9	Chloride (as Cl)	IS: 3025 (P-32): 1998, RA. 2019	700	mg/l	--
10	Sulphide (as S)	IS: 3025 (P-29) : 2022 (Clause 6.0)	*BLQ(**LOQ-0.1)	mg/l	2
11	Residual Free Chlorine	IS: 3025 (P-26): 2021 (Clause 5.0)	0.36	mg/l	1.0
12	Faecal coliform	APHA 24th Edition 9221 C ,2023	46	MPN/100 ml	<100

End of Report



Checked by
[Signature]



RK Yadav
Lab Incharge
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[Signature]



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TEST REPORT

Sample Number : VTL/WW/01

M/S JK Cement Works
(Unit of JK Cement Ltd.) Vill. & PO. - Gotan Dist -
Nagaur, Rajasthan

Name & Address of the Party :

Sample Description : Waste Water
Sampling Location : STP Outlet (STP Treated Water) 300 KLD STP
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

ULR No. : TC160192500000983F
Report No. : VTL/WW/2509270001/A
Format No. : 7.8 F-01
Party Reference No : GTN/VH/PVR/37/010/25-26
Report Date : 06/10/2025
Period of Analysis : 27/09/2025-06/10/2025
Receipt Date : 27/09/2025
Sampling Date : 24/09/2025
Sampling Type : Grab
Sample Quantity : 2 Ltr.
Coordinates : 73°43'22" N & 26°38'28" E

S.No.	Test Parameters	Test Method	Result	Unit	Limits
1	pH	IS: 3025 (P-11): 2022	7.58	-	6.5 to 9.0
2	Total Suspended Solids (TSS)	IS: 3025 (P-17): 2022	9.60	mg/l	20
3	Temperature	IS: 3025 (P-9): 2023	25.2	°C	Shall not exceed 5°C above the receiving water temperature
4	Oil & Grease	IS:3025 (P-39): 2021	*BLQ(**LOQ-4.0)	mg/l	10
5	Ammonical Nitrogen (as NH ₄ -N)	IS : 3025 (P-34) Sec 1 2023 (Clause 5.3)	4.20	mg/l	5.0
6	Biochemical Oxygen Demand (BOD) (3 days @ 27°C)	IS: 3025 (P-44): 2023	6.17	mg/l	10
7	Chemical oxygen Demand (COD)	IS : 3025 (P-58) : 2023	30.04	mg/l	50
8	Chloride (as Cl)	IS: 3025 (P-32): 1988, RA. 2019	650	mg/l	--
9	Sulphide (as S)	IS: 3025 (P-29) : 2022 (Clause 5.0)	*BLQ(**LOQ-0.1)	mg/l	2
10	Residual Free Chlorine	IS: 3025 (P-26): 2021 (Clause 5.0)	0.53	mg/l	1.0
11	Fecal Coliform	APHA 24th Edition 9221 C 2023	37	MPN/100 ml	<100

*BLQ-Below Limit OF Quantification, **LOQ- Limit Of Quantification

End of Report



Checked by



RK Yadav
Lab Incharge
Authorized Signatory



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**VIBRANT**

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Sample Number: VTL/AN/01-04
 Name & Address of the Party: M/s JK Cement Works
 (Unit of JK Cement Ltd.) Vill. & Po.- Gotan,
 Dist.-Nagaur, Rajasthan

Report No.: VTL/N/2506150017-20/A
 Format No.: 7.8 F 04
 Party Reference No.: GTN/WH/PVR/37/010/25-26
 Report Date: 23/06/2025
 Receipt Date: 15/06/2025
 Sampling Duration: 24 Hrs.
 Sample Collected by: VTL Team
 Instrument Calibration Status: Calibrated

Sample Description: Ambient Noise Level Monitoring
 Scope of Monitoring: Regulatory Requirement
 Protocol Used: IS 9989
 Instrument Used: SLM

Ambient Noise Level Monitoring Results**General Information:-**

Meteorological condition during monitoring : Clear sky
 Date of Monitoring : 09/06/2025 to 10/06/2025
 Time of Monitoring : 06:00 AM to 06:00 AM
 Ambient Temperature (°C) : Min. 31°C, Max. 46°C
 Surrounding Activity : Human, Vehicular & Plant Activities
 Parameter Required : As per Work Order

Sr.	Test Parameter	Protocol	Location & Latlong							
			Front of Pump house		Front of Weight Bridge		Front of Crusher MCC Room		Bachelor Hostel	
			73°49'36"E 26°38'49"N		73°43'46"E 26°38'46"N		73°43'50"E 26°38'36"N		73°43'41"E 26°38'31"N	
1.	Noise Level Leq, dB(A)	IS:9989-1981, RA 2020	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time
			60.4	45.2	58.7	41.1	55.6	40.7	52.9	39.4

Category of Zones	Leq in dB (A)	
	Day	Night
Industrial	75	70
Commercial	65	55
Residential	55	45
Silence Zone	50	40

1. Day Time is from 6.00 AM to 10.00 PM.
 2. Night Time is reckoned between 10.00 PM to 6.00 AM.
 3. Silence Zone is defined as an area up to 100 m around premises of Hospitals, Educational and Courts. Use of vehicle horn, Loudspeaker and bursting of crackers is banned in these zones.
 Note: Mixed categories of areas be declared as one of the four above mentioned categories by the competent Authority and the corresponding standards shall apply.

Checked By


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Corporate & Registered Office:

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TEST REPORT

TC-16019

Sample Number: VTL/AN/01-04
Name & Address of the Party: M/s JK Cement Works
(Unit of JK Cement Ltd.) Vill. & Po.- Gotan,
Dist.-Nagaur, Rajasthan

Report No.: VTL/N/2509270017-20/A
Format No.: 7.8 F 04
Party Reference No.: GTN/WH/PVR/37/010/25-26
Report Date: 06/10/2025
Receipt Date: 27/09/2025
Sampling Duration: 24 Hrs.
Sample Collected by: VTL Team
Instrument Calibration Status: Calibrated

Sample Description: Ambient Noise Level Monitoring
Scope of Monitoring: Regulatory Requirement
Protocol Used: IS 9989
Instrument Used: SLM

Ambient Noise Level Monitoring Results

General Information:-

Meteorological condition during monitoring : Clear sky
Date of Monitoring : 22/09/2025 to 23/09/2025
Time of Monitoring : 06:00 AM to 06:00 AM
Ambient Temperature (°C) : Min. 24°C, Max. 35°C
Surrounding Activity : Human, Vehicular & Plant Activities
Parameter Required : As per Work Order

Sr.	Test Parameter	Protocol	Location & Latlong							
			Front of Pump house		Front of Weight Bridge		Front of Crusher MCC Room		Bechelor Hostel	
1.	Noise Level Leq, dB(A)	IS:9989-1981, RA 2020	73°49'36"E 26°38'49"N		73°43'46"E 26°38'46"N		73°43'50"E 26°38'36"N		73°43'41"E 26°38'31"N	
			Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time
			58.2	44.1	56.5	40.4	53.9	38.7	50.4	37.5

Category of Zones	Leq in dB (A)	
	Day	Night
Industrial	75	70
Commercial	65	55
Residential	55	45
Silence Zone	50	40

1. Day Time is from 6.00 AM to 10.00 PM.
2. Night Time is reckoned between 10.00 PM to 6.00 AM.
3. Silence Zone is defined as an area up to 100 m around premises of Hospitals, Educational and Courts. Use of vehicle horn, Loudspeaker and bursting of crackers is banned in these zones.
Note: Mixed categories of areas be declared as one of the four above mentioned categories by the competent Authority and the corresponding standards shall apply

-----End of the Report-----

Checked By



RK Yadav
Lab Incharge
Authorized Signatory

Corporate & Registered Office:

Plot No. Q-39, Shringarpura, Narayan Vihar Q,
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www.vibranttechnolab.com

Terms & Conditions:

1. The Result Listed refer only to the tested sample and applicable parameters.
2. Total Liability of our concern is limited to the invoiced amount. 3. The report is not to be reproduced wholly or part and cannot be used as an evidence in the court of law and should not be used in any advertising media without our special permission in writing. 4. Authenticity of Test Report and Accreditation status may be seen online through QR Code. 5. Retention period of sample will be 30 days only, any query beyond 30 days will not be entertained.

Annexure-12

JK Cement Works, Gotan has installed 100 KW Solar Power Generation on Roof tops for lightings of street light, parking area and others.



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JK CEMENT WORKS, GOTAN (Line II)

EMERGENCY PREPAREDNESS AND RESPONSE PLAN

JK Cement Works, Unit – Gotan (Line II)
PO – Gotan, Dist. – Nagaur, Rajasthan
Pin Code - 342902

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PREFACE

We have the hereby submitting updated **"ON SITE EMERGENCY PLAN"** of our Plant .
While updating it, it was our endeavor to incorporate all the relevant requirements of the Factory Act, 1948 (Amended till date).

The comprehensive document ensured safety measures required to be taken for the persons employed in the factory and the general public living in the vicinity of the factory premises

Date: **01st April 2025**

For **JK Cement Works, Gotan (Line II)**

Anirudh Dani
(Factory Manager)

JK Cement Works, Gotan (Line II)

-O-O-OO-O-O-

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1. INTRODUCTION

Wherever industries exist, industrial hazards coexist (natural or manmade). The hazards can cause ill health and / or damage. The extent of damage can be determined by the potential for loss surrounding the event. Effective action has always been possible in the emergency situation, due to existence of pre-planned and practiced procedure for dealing with such emergencies

Defination:

Emergency means a situation or condition leading to a circumstance either natural (earth quakes, floods etc. or manmade or set of circumstances in which there is danger to the life or health of persons or which could result in big fire or explosion or pollution to the work and outside environment, affecting the workers or neighborhood in a serious manner, demanding immediate action.

The following essential things should be taken care-off for the effective implementation of the Emergency Preparedness Plan.

- Periodic review and Updating of the plan.
- Periodic rehearsal of the plan by way of Mock Drills.
- Review and the strengthening of the Resources needed.
- Training of the site personnel in handling emergency equipment- situations

Company Profile:

The dream of JK Cement Works was conceptualized with the state of the art technological assistance from M/s. FL Smidth & Co., Copenhagen, Denmark the leader to introduce white cement in the world market. JK White Cement Works became the pioneer to produce world-class white cement with dry process technology in India since 1984.

Plant Location:

The site of JK Cement Works is situated at Gotan at the intersection of 260 49' North latitude and 730 45' east longitudes at an attitude of about 324 meters above mean sea level.

PLANT / COMPANY DETAIL:

A.	Name of the Industry	:	J.K. Cement Works, Gotan (Unit of JK Cement Ltd)
B.	Address	:	P.O.- Gotan, District: - Nagaur (Raj.) – 342 902
C.	Total Employment	:	327
	Total Staff	:	71
	Total Workers	:	28
	Contract Labour	:	228
D.	Name of occupier	:	Sh. A.K.Saraogi
E.	Name of factory manager	:	Sh. Anirudh Dani
F.	Shift Details	:	3 Shift (A- B- C) and general shift
G.	Entry and Exit Gate	:	1 No.

(* The qty. may increase depending upon the temporary nature of work in certain condition.)

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Neighbourhood Detail:

#	Name of village/ Residential Colony	Distance KM (w. r. t. radius)	Direction	Population
01	Gotan	2	WNW	10380
02	Toonklia	2.5	ESE	1562
03	Shivgaon	5	N	1138
04	Harsholao	8.5	NNW	3536
05	Talanpur	5	SSW	2674
06	Basniseja	8.5	ESE	2031
07	Khariya	6.5	WSW	-
08	Bhilawas	4.75	ENE	161
09	Rol. Chandawata	9.75	NE	1674
10	Sodas	7.15	ESE	294
11	Bankliawas	8.5	E	518
12	Mangliawas	6.5	NE	690
13	Kaswon Ki Dhani	3.5	SSE	1522

Manufacturing Process:

Production of White Portland Cement involves Five significant manufacturing stages, namely Crushing, Raw meal grinding, Clinkerisation, Cement grinding & Packing for Despatch.

At Crushing stage, run of lime stone mines is crushed to desired size to achieve optimum grinding efficiency in the Raw mill. Crushed limestone is stored in the RMS yard, which serves as buffer stock storage.

At Raw mill, crushed limestone, clays and feldspar of desired chemical compositions are fed through electronic weigh feeders. The feed quantity and ratio of weigh feeders are controlled based on the chemical analysis results from laboratory / QCX (X-ray) laboratory through computerized RMP Control / PID control. The raw material is ground in ball mill and the residue (fineness) is controlled by air separator. The ground raw meal of desired chemical composition and physical properties is blended for homogeneity and stored in raw meal storage silo, which serves as buffer stock storage.

The Clinkerisation is the heart of cement manufacturing process, where the raw meal is fed to the preheater at controlled rate through electronic weigh feeder. The Feed enters the kiln through cyclones and fuel is fired at the kiln outlet end. The counter current of hot gases against the material flow converts raw mix to clinker. The clinker is quenched in reduced atmosphere and transported to clinker yard for storage.

Clinker and gypsum are fed to the Cement mills through electronic weigh feeders at controlled rate and ground in ball mills. The fineness of white cement is controlled by classifier (high efficiency separator). White Cement of desired chemical composition and physical properties is transported to Cement Silos for storage. White Cement is drawn from Cement silos for packing in bags by electronic rotary packer and in small pouches by FFS machines / manual packing of pouches.

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JK Cement Works manufactures allied products (Dry Mix Mortars) associated with white cement for specific applications under brand names like JK Wall Putty, Tile Grout, 2K. JK Cement Works is the major basic raw material used for manufacturing these products and other constituents are added to achieve desired properties for specific applications through grinding / blending process.

Sections, Plant and Machinery:

Our main sections, Plant and Machineries are as below:-

Process	:	Lime Stone Crusher
		Lime Stone Staker & Reclaimer
		Raw Mill
		Bleding Silo
		Pre Heater
		Decolizer
		Coal Mill
		Clinker Silo
		Cement Mill
		Cement Silo
		Packing Plant
		Tile Grout
		Bag godown
		Oil Storage Tanks
		ETP/ STP
		Solid & Liquid AFR Feeding System
Electrical	:	Power Sub-Station
Electrical Workshop	:	Workshop
Mechanical Workshop	:	Workshop
Admin Building	:	Administrative building
Quality Control	:	Laboratory

2. OBJECTIVES OF ONSITE EMERGENCY PLAN

Some of the minor incidents / accident may convert into big Disasters eventualities. Hence, there is a need to prepare and implement an emergency plan to meet out any type of big disasters / Emergency that may happen or take place in the industry. This plan should be in the form of a document so that in case of emergency it can be implemented effectively.

Main objectives of onsite emergency plan for J. K. Cement Works, Gotan are:

- To control the incident in minimum possible time
- To minimize losses (human being and property both) due to accident/ Disaster
- To restart affected section / plant in shortest possible time
- To give correct information to all concerned and provide a system known to them to be followed at the time of incidents.

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3. EMERGENCIES:

Cement, itself can act as a fire extinguisher in emergency situations. In our factory following hazards are involved:-

Fire/ Explosion:

Because of Electrical power, Coal, Oil storage, AFR and high temperature forming part of the process and production.

Explosion:

Explosion may occur in LDO/ HSD tanks/ power transformers , For which safety precaution has been taken by protecting the area by wire mess compound and by placing appropriate fire extinguishing system.

3.1 Fire at Control Room

On noticing the fire, the concerned shift In-charge shall immediately operate the "Emergency Stop" for plant shutdown. Subsequently, he shall leave the room, reach to safe zone and inform to Emergency Contact No. i.e. 4200 and from mobile dial – 9929188802.

In case of small fire, the concerned shift In-charge/ personnel available (trained in fire fighting) shall operate the fire Extinguisher (available at site) in order to extinguish the fire. If the fire does not extinguished, i.e. for large fire, he shall wait for further assistance and restricts any one from coming near to that area.

Once Emergency Team reaches to the spot, he shall take command of the situation as per on-site emergency plan. The entire floor shall be barricaded and no one except the authorized team is allowed to enter into the area.

All the persons working on that floor shall be evacuated through emergency exit door. They will be asked to move towards the nearest assembly point in an orderly fashion under the guidance of emergency team leader.

3.2 Fire at Bag Godown (Packing Plant):

On noticing the fire, the security guard posted at site shall immediately inform to the Emergency No 4200 and from mobile dial – 9929188802.

In case of small fire, the first witness/ concerned security guard shall operate the fire Extinguisher (available at site) in order to extinguish the fire. If the fire does not extinguished, i.e. for large fire, he shall wait for further assistance and restricts any one from coming near to that zone.

Once Emergency Team reaches to the spot, they shall take command of the situation as per on-site emergency plan. The entire floor shall be barricaded and no one except the authorized team is allowed to enter into the area.

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All the persons working on that floor shall be evacuated through emergency exit door. They will be asked to move towards the nearest assembly point in an orderly fashion under the guidance of emergency team controller.

All the persons working in nearby area packing plant office shall be evacuated. They will be asked to move towards the nearest assembly point in an orderly fashion under the guidance of emergency team leader.

3.3 Fire at Chemical Godown:

On noticing the fire, the security guard posted at site shall immediately inform to the Emergency No 4200 and from mobile dial – 9929188802. Subsequently, he shall evacuate the person (if available) from the main Chemical Godown.

In case of small fire, the first witness/ concerned security guard shall operate the fire Extinguisher (available at site) in order to extinguish the fire. If the fire does not extinguished, i.e. for large fire, he shall wait for further assistance and restricts any one from coming near to that zone.

Once Emergency Team reaches to the spot, they shall take command of the situation as per on-site emergency plan. The entire floor shall be barricaded and no one except the authorized team is allowed to enter into the area.

All the persons working on that floor shall be evacuated through emergency exit door. They will be asked to move towards the nearest assembly point in an orderly fashion under the guidance of emergency team controller.

All the persons working in nearby putty plant shall be evacuated. They will be asked to move towards the nearest assembly point in an orderly fashion under the guidance of emergency team leader.

3.4 Fire/ Explosion at Bulk Fuel Storage (Coal/ HSD/ LDO/ Liquid AFR) Area:

On noticing the fire, the first witness shall immediately inform the concerned In-charge or any staff shall inform to the Emergency No 4200 and from mobile dial – 9929188802.

In case of small fire, the concerned security guard/ personnel available (trained in fire fighting) shall operate the fire Extinguisher (available at site) in order to extinguish the fire. If the fire does not extinguished, i.e. for large fire, he shall wait for further assistance and restricts any one from coming near to that zone.

In the mean time, the concerned In-charge informs the central control room/ security office asking for help. Once Emergency Team reaches the spot, he shall take command of the situation as per on-site emergency plan. The entire area to be barricaded and no one except the authorized team is allowed to enter into the area.

All the persons from nearby area shall be evacuated. They will be asked to move towards the nearest assembly point in an orderly fashion under the guidance of emergency team leader.

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3.5 Fire at Switchyard and Transformer:

On noticing the fire, , the first witness shall immediately inform to the Emergency 4200 and from mobile dial – 9929188802. Subsequently, he shall evacuate the person (if available) from/ near switchyard and transformer.

In case of small fire, the first witness/ concerned security guard shall operate the fire Extinguisher (available at site) in order to extinguish the fire. If the fire does not extinguished, i.e. for large fire, he shall wait for further assistance and restricts any one from coming near to that zone.

Once Emergency Team reaches to the spot, they shall take command of the situation as per on-site emergency plan. The entire floor shall be barricaded and no one except the authorized team is allowed to enter into the area.

All the persons working on that floor shall be evacuated through emergency exit door. They will be asked to move towards the nearest assembly point in an orderly fashion under the guidance of emergency team controller.

All the persons working in nearby area shall be evacuated. They will be asked to move towards the nearest assembly point in an orderly fashion under the guidance of emergency team leader.

3.6 Fire at Putty Paint:

On noticing the fire, the security guard posted at site shall immediately inform to the Emergency No. 4200 and from mobile dial – 9929188802. Subsequently, he shall evacuate the person (if available) from/ near switchyard and transformer.

In case of small fire, the first witness/ concerned security guard shall operate the fire Extinguisher (available at site) in order to extinguish the fire. If the fire does not extinguished, i.e. for large fire, he shall wait for further assistance and restricts any one from coming near to that zone.

Once Emergency Team reaches to the spot, they shall take command of the situation as per on-site emergency plan. The entire floor shall be barricaded and no one except the authorized team is allowed to enter into the area.

All the persons working on that floor shall be evacuated through emergency exit door. They will be asked to move towards the nearest assembly point in an orderly fashion under the guidance of emergency team controller.

All the persons working in nearby area shall be evacuated. They will be asked to move towards the nearest assembly point in an orderly fashion under the guidance of emergency team leader.

For preventing fire following actions to be taken in different sections.

- Whenever highly inflammable goods are stored, electrical appliances to be used cautiously.
- Knowledge of fire Extinguisher should be provided to the employees where the equipment is placed and there should be mentioned how to use it for unknown persons.
- Inspection of storing area should be periodically and inflammable items and cloths etc. should be away from stores.
- Keep fire-fighting equipments in good condition.

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- Do not keep waste papers, waste wooden along with inflammable goods.

For preventing fire, following points are suggested:

- Whenever highly inflammable goods are stored, electrical appliances to be used cautiously.
- Do not keep waste papers, waste wooden pieces along with inflammable goods at a place.
- Store inflammable liquids, lubricants in proper containers, tins with tight lid and also put label on it.
- Knowledge of fire Extinguisher should be provided to the employees where the equipment is placed and how to use it.
- Keep open fire away from bed and cloths.
- All of us should be educated about the consequences of storing petrol, kerosene near store and tool rooms.
- Inspect your storing area periodically and put inflammable items, cloths etc. away from stores/ tool rooms.
- Alertness proves fruitful in fighting fire hazards and saving society from huge loss of person and property.
- Keep fire-fighting equipment in good working condition.
- Train security personnel in fire fighting to face situation in mishap.
- Control measures / protective approach to prevent fire
- Fire detection/ prevention and protection system at all fire / explosion prone area (fuel storage, HSD/ LDO, AFR, Coal mill, Bag Godown, Gas Cylinder storage area etc.) equipment in good working condition.
- Inspect Hydrant system, fire tender, portable fire Extinguishers,
- Training to engaged workmen and team.

3.7 Emergency Planning in Case of Machine Failure

Machine failures are inherent in any set up of plant. Since there are different types of machines in operation during plant operation it is quite likely that these machines can fail at times due to incorrect handling or operation or power distribution. In either case safety of the staff personnel is the prime consideration such emergencies are effectively dealt and minimized by:

- Providing automatic protection for persons and plant machinery.
- Providing automatic lock facilities.
- Alarm Systems are contributing important role in industries where by machines failure, it can be indicated locked automatically.

Precautionary and Effective Control Measures: -

We have adopted the following precautionary and control measures to ensure sound, safe and hazard free environment.

- Electrical appliances are used cautiously at the place of storage of highly inflammable goods.
- The inflammable liquids, lubricants are stored in proper containers, tins with light lid and they are labeled properly.
- The storing areas are inspected periodically and inflammable items and clothes etc. are put away from stores/tools room.
- First Aid box, telephone points are available near the work places in case of emergency.

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3.8 Trapped at Height and Falling from Height

In case any person trapped at height, the fellow person shall immediately inform to the Emergency No 4200 (Intercome) or dial – 9929188802 (Mobile) and concerned In-charge or any staff in the nearest office, who in turn shall to relevant members of emergency team.

Once Emergency Controllers/ trained rescuers reach the spot, they shall take command of the situation as per on-site emergency plan and start rescuing the personnel with the help of rescue equipmentsbased on the site scenario. In the mean time, ambulance is immediately rushed to the spot.

The rescue work shall be carried out by the rescue team headed by Technical Head. The victim shall be brought to Occupational Health Center by ambulance for first-aid treatment. In case of serious problem, he may be shifted to nearby Trauma Centers for further treatment as per criticality and discretion of Chief Medical officer.

Rescuing from Height

- After observing hanging person immediately inform emergency control centre and also inform to CCR about incident and its exact location.
- CCR in charge will immediately inform to available trained rescuers about incident and its exact location also he will send rescue kit at incident site.
- Rescue team has to rescue the personnel by descender and full body rescue harness.
- Consider rescue by Elevated work platform.
- Victim has to send hospital for necessary treatment.

3.9 Trapped in Confined Space

In case any person trapped in confined space, the fellow person shall immediately inform to the Emergency No 4200 (Intercome) or dial – 9929188802 (Mobile) and concerned In-charge or any staff in the nearest office, who in turn shall to relevant members of emergency team.

Once Emergency Controllers/ trained rescuers reach the spot, they shall take command of the situation as per on-site emergency plan and start rescuing the personnel with the help of rescue equipmentsbased on the site scenario. In the mean time, ambulance is immediately rushed to the spot.

The rescue work shall be carried out by the rescue team headed by Technical Head. The victim shall be brought to Occupational Health Center by ambulance for first-aid treatment. In case of serious problem, he may be shifted to nearby Trauma Centers for further treatment as per criticality and discretion of Chief Medical officer.

Rescuing from Confined Space

- Stand by person has to immediately inform emergency control centre and also inform to CCR in charge about incident and its exact location.
- Stand by person will not enter confined space for rescue.
- CCR in charge will immediately inform to available train rescuers about incident and its exact location also he will send rescue kit at incident site.
- Use proper respiratory protection (SCBA Set) system and PPE for rescuer safety.

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- Rescue team has to rescue the personnel by using ascender and descender equipment and full body rescue harness.
- Victim has to send hospital for necessary treatment

3.10 Electrocution/ Electric Shock

If the shock to anyone noticed the first observer immediately will put off the off the power supply and immediately inform to the Emergency No 4200 (Intercome) or dial – 9929188802 (Mobile) and concerned In-charge or any staff in the nearest office, who in turn shall to relevant members of emergency team.

Start CPR immediately till medical team reached at site. Once Emergency Controllers/ trained rescuers reach the spot, they shall take command of the situation as per on-site emergency plan and start rescuing the personnel with the help of rescue equipments based on the site scenario. In the mean time, ambulance is immediately rushed to the spot.

The rescue work shall be carried out by the rescue team headed by Technical Head. The victim shall be brought to Occupational Health Center by ambulance for first-aid treatment. In case of serious problem, he may be shifted to nearby Trauma Centers for further treatment as per criticality and discretion of Chief Medical officer.

Rescuing from Electrocution/ Electric Shock

- Do NOT touch the person if they are still in contact with the electrical source. You could become a victim yourself
- If possible, immediately switch off the circuit breaker, unplug the appliance, or turn off the main power supply.
- Use a dry, non-conductive object (wood, plastic, or rubber) to separate the person from the electrical source
- Dial Emergency No 4200 (Intercome) or dial – 9929188802 (Mobile) as quickly as possible.
- Provide clear and accurate information about the situation
- Once the person is safely away from the electrical source: Check for responsiveness, Check for breathing and a pulse, Be prepared to perform CPR if necessary.
- If the person is unresponsive and not breathing: Begin CPR immediately by Certified First Aider, If an automated external defibrillator (AED) is available, use it as soon as possible.
- If the person is breathing: Check for burns and other injuries, Cover any burns with a sterile gauze bandage or a clean cloth, Keep the person warm and comfortable, Even if the person appears to be fine, they should still be evaluated by medical professionals, as electrical shock can cause internal damage
- Sent the OHC immediatly

3.11 Toppling of Vehicle

In case of tilting/ toppling of vehicle on the tippler platform back supports, the present tippler operator first remove all the workmen, driver & khalasi in a safe distance. Then the person shall immediately inform to the Emergency No 4200 (Intercome) or dial – 9929188802 (Mobile) and concerned section In-charge or any staff in the nearest office, who in turn shall inform the security office, OH&S & concerned in charge.

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Once Emergency Team reaches the spot, he shall take command of the situation as per on-site emergency plan. In the mean time, ambulance along with Occupational Health Center personnel & hydra/ JCB/ Crane is immediately rushed to the spot.

In this case he shall take help of the concerned dept. In-charge & may use the Hydra/ JCB/ Crane and the necessary tools and tackles for taking the truck back to the tippler platform. If there is any victim, he shall be carefully taken out from that place.

The victim shall be brought to OHC by ambulance for first-aid treatment. In case of serious problem, he may be shifted to nearby Trauma Centers for further treatment as per criticality and discretion of CMO and the said truck along with driver shall be kept separately for further detail inspection and necessary formalities.

Rescuing from Toppling of Vehicle

For Those Inside the Vehicle:

- Stay Inside: Unless there's an immediate fire or other overwhelming danger, staying inside provides some protection.
- Brace Yourself: Hold onto anything secure, and brace your body to minimize movement.
- Seatbelts: If possible, ensure seatbelts are fastened tightly.
- Protect Your Head: If the vehicle is toppling, try to protect your head with your arms.
- Call for Help: If possible, immediately call emergency services.

For Those Outside the Vehicle:

- Maintain Distance: Keep a safe distance from the vehicle, as it may shift or continue to topple.
- Assess the Situation: Quickly evaluate the stability of the vehicle and any immediate hazards (fuel leaks, smoke, etc.).
- Call Emergency Services: Immediately call emergency services (fire department, ambulance, police).
- Warn Others: Keep bystanders away from the danger zone.

3.12 Contact with Hot Meal material

In case of contact with hot meal material, the fellow person shall immediately inform to the Emergency No 4200 (Intercome) or dial – 9929188802 (Mobile) as well as inform the Production CCR and concerned In-charge or any staff in the nearest office, who in turn shall to relevant members of emergency team.

The victim shall be brought to OHC by ambulance for first-aid treatment. In case of serious problem, he may be shifted to nearby Trauma Centers for further treatment as per criticality and discretion of CMO and the said truck along with driver shall be kept separately for further detail inspection and necessary formalities.

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Rescuing from Hot Meal Leakage

- After observing hot meal leakages immediately contact CCR in charge and inform about incident and location. Also inform at Emergency control centr about incident.
- Barricade Boiler & hot meal handling area.
- Dedicated train persons with proper tools and Category 4 suits will go to incident site and assess situation.
- Do not apply water on leaked hot meal, leave it for cooling down.
- Initiate TPP shut down / feed stoppage as needed.
- Carry evacuation.

3.13 Medical Emergency

To save the life of person due to medical emergency i.e Food Poisoning, Snake bite, Heart attack, Fits etc.. Call the ambulance/ Hospital at the incident site. Inform Control room & Plant gate Security. Casualty should be send to Health Centre immediately. Medical officer will examine & then give the treatment. Proper medical treatment will be given under close supervision. If required, further these casualties will be sent to referral Hospital.

3.14 Structural Failure

To combat with the emergency due to structural failure, the responsibility/ emergency team has been formed (Steel/ Civil Structure Cutting).

Spillage of HSD/ LDO/ Liquid AFR/ H_2SO_4 / HCL: -

The following protective equipment should be worn when using sulfuric acid:

- Respirator
- Long rubber gloves
- Boots
- Industrial apron
- Chemical safety goggles
- Face shield

As such these precautions and procedures should be observed to ensure the safety of handlers:

- Always wear protective goggles, gloves and a lab coat, as concentrated H_2SO_4 / HCL causes serious damage to skin and clothing, charring it (see dehydration of sucrose).
- When diluting H_2SO_4 /HCL, add small volumes of the acid to large volumes of water to disperse heat whilst mixing thoroughly. During pouring of the liquid, pouring down the sides prevents splashing.
- Work near a running supply of water. If the acid contacts the skin, it must be washed off rapidly with copious amounts of tap water (however with large spills onto the skin, wipe off excess first).
- Have a supply of neutraliser (sodium carbonate or bicarbonate) in case it is split. It should be first isolated to prevent it spreading and the area evacuated in case of fumes. Sand and a bucket can be used to clear acid for neutralisation.

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- Store the acid in smaller, easier to handle bottles (<1L). Avoid dribbling acid down the sides of containers, and wipe off any as soon as possible if present. Always place the bottle in a drip tray to ensure that do not contact the bench or shelf.

Rescuing from Collapse of building and structure

- If building collapse will occur immediately inform emergency control centre and also inform to CCR about incident and its exact location.
- Incident controller will reach at site and start action to control further damage to nearby structures, process and people.
- All persons will gather at safe assembly point for head counting.
- IC will inquire for nos of person were working in collapsed building and final location of them.
- Fire officer will mobilize rescue crew to searching of missing personnel and starting rescue activities.
- SMC will decide upon incident severity whether external agency to be called for rescue and necessary communication to be done

3.15 Mobile Equipment contact with OHE line

If Vehicle comes in contact with overhead powerlines

- A potentially dangerous electrical field will be created around anything in contact with the power lines. This field extends for approximately 8 metres around these items. Try not to panic, remain calm. An attempt can be made to break the contact by driving the vehicle a minimum of 8 meters away from the powerline.
- Advise anyone near the incident site to stay a minimum of 8 metres away from the vehicle and anything else in contact with the powerlines.
- Contact the emergency No 4200 (Intercome) or dial – 9929188802 (Mobile) and reporting the life threatening situation.
- Treat all powerlines as if they are 'live'

In case of personal evacuation from vehicle

- Stay in the vehicle until the power has been isolated and the powerlines removed. Don't risk being electrocuted by attempting to leave the vehicle before power is disconnected.
- An emergency evacuation from the vehicle is extremely dangerous and should only be attempted as a last resort, such as if the vehicle is on fire.
- If escape from the vehicle is absolutely necessary, it's critical that you jump clear ensuring that you don't have contact with the vehicle and ground at the same time. When you jump, ensure that you land with your feet together and if required, take another one or two jumps with your feet still together, ensuring that you do not touch the vehicle, fall forward or backwards or allow your feet to step apart. . You must jump/shuffle with your feet together until you are at least 8 metres clear of the vehicle, power lines or anything else in contact with them. Avoid being in line with the side of the tyres/rims as they may explode.
- Once clear, do not return to the vehicle for any reason.
- If a vehicle contacts overhead powerlines, it can cause the tires to explode on contact or could cause the tires to start burning inside. This creates a buildup of gases and heat which could cause the tire to explode at a later time, even 24 hours after the incident. The resulting explosion could potentially injure persons in the proximity with flying debris. The vehicle should be isolated at a safe distance for 24 hours to avoid injury.

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3.16 Oil & Chemical Spillage (Environmental Emergency) General Safety Precautions

Chemical Spills (liquid, gas, solid):

There is a wide range of chemicals in the workplace. The safe clean up of a chemical spill requires knowledge of the properties and hazards posed by the chemical, and any added dangers posed by the location of the spill. If you believe a spill is beyond your capacity to clean up, do not attempt to do so on your own, STOP and contact the University Police. Spill kits with instructions, absorbents, neutralizing agents if applicable, protective equipment, and sealable waste buckets should be present in the workplace. Refer to the chemical Safety Data Sheet (CSDS) for specific guidance on the chemical hazards and spill clean up.

Minor Spill:

- A minor spill is characterized by all of the following criteria:
- Is inside a laboratory and hasn't spread outside the laboratory;
- Did not result in a fire or explosion, nor presents a risk for a fire or explosion; and
- Did not result in personnel requiring medical attention.

Minor Spill Clean Up:

- Alert people in the immediate area of the spill.
- Put on appropriate Personnel Protective Equipment (PPE), (gloves, protective eyewear, lab coat).
- Contain the spill with absorbent spill material.
- Completely clean the area where the spill occurred.
- Place the absorbed spill material in secondary containment, such as the spill bucket. Label the container and notify Environmental Health & Safety to request a pick up.
- Dispose of contaminated PPE properly.
- Complete the Accident/Incident Report Form.

Major Spill:

- A major spill is characterized by all of the following criteria:
- Results in a fire or explosion, or presents a risk for a fire or explosion;
- Results in personnel requiring medical attention;
- Is not contained within a laboratory;
- or Is characterized as a major spill by the Emergency Coordinator.

For a Major Spill or Leak:

- Alert people in the immediate area of the spill.
- Remove any injured or contaminated persons if you can do so safely.
- Remove all contaminated clothing, shoes etc. and/or use an emergency shower if one is nearby.
- Seek immediate medical attention if you have been exposed.
- Do not attempt to clean up a major spill. Leave it to the experts!

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- Complete the Accident/Incident Report Form

Rescuing from Oil & Chemical Spillage

- After observing fire/Spillage at HSD storage tank immediately inform emergency control centre and also inform to CCR about incident and its exact location.
- Incident controller will reach at site and start action to control further damage by fire.
- Isolate the tanks by isolating valves.
- Evacuate the manpower from the fire location
- Fire officer will mobilize fire fighting crew to control and extinguish fire by using nearby fire hydrant, Spray system, foam pourer system and tender.
- Control the run off fire fighting water so that it does not endanger the environment.

3.17 Vehicular Accidents – Off Site & On Site

- Company Owned Vehicles
- Transport Vehicles

In-case of any vehicular Accident off site, the intimation received from any source at security gate or any other responsible person such as, Security Officer, he will immediately report site main controller and Incident Controller. Emergency Controller (Chief Security Officer) will rush to the site and send Ambulance with first aider for providing necessary first aid & shifting to Injured Person/s. After reaching the site he will report to Site Main Controller and Brief about the Incident and Site Main Controller in turn will instruct to Incident Controller to inform the Local Authorities such as police, Distt. Administration if required. Emergency Controller will inform to head Transport In-charge.

In-case of Transport Vehicles, Head Sales will inform to concerned Transporters In-charge to reach the site to provide necessary help & support to victims.

Other Emergency related to Isolation & Lockout has been developed and dealt accordingly.

All Injured Person will shift to civil Hospital for necessary further treatment.

3.18 Terrorism/ Sabotage - General Safety Precautions

Closely monitor news reports and Emergency Alert System (EAS) radio/TV stations.

- Expect delays, searches of purses and bags, and restricted access to public buildings.
- Take personal security precautions to avoid becoming a victim of crime or terrorist attack.
- Avoid crowded public areas and gatherings.
- Do not travel into areas affected by the attack or is an expected terrorist target.
- Be prepared to evacuate your home or shelter in place on order of local authorities.
- Assist neighbors who may need help.
- Avoid passing unsubstantiated information and rumors.
- Continue normal activities but be watchful for suspicious activities. Report criminal and suspicious activity to local law enforcement. Continue to enjoy individual freedom. Participate freely in travel, work, and recreational activities.
- Take a first aid and CPR classes.
- Learn what critical facilities are located in your community and report suspicious activities at or near these sites.
- Contact local officials to learn about specific hazards in your community.

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- Be familiar with local natural and technological (man-made) hazards in your community and what measures you can take to protect your family.
- Know how to turn off your power, gas, and water service to your house.
- Know what hazardous materials are stored in your home and how to properly dispose of unneeded chemicals.
- Support the efforts of your local emergency responders (public safety, fire fighters, law enforcement and emergency medical service).
- Volunteer to assist and support the community emergency response agencies.

3.19 Riot or Civil disturbances procedure or Bomb threat or terrorist attack

If there are persons on or near company property with the suspected intent of causing damage to the property, injury to the plant personnel, disruption of normal operations, etc. The information will be given to HOD (Personnel) / Head (Security) and the following steps will be taken:

- Security shift supervisor will be instructed to give the related details and the police services will be informed, if required.
- The staff on duty or other personnel as given under plant personnel emergency notification list will be called for alertness.
- Security shift supervisor will instruct to the security to close and lock all the site entry gates.
- It will be ensured that no unauthorized person is allowed access to the site without positive identification by the gate security staff & as per instructions given by HOD (personnel) / Head (Security).
- Emergency vehicles will be kept ready.
- Medical staff at the Medical Centre will be alerted.
- Fire & Safety staff will be alerted.
- All shift supervisors of the site will be alerted

3.20 ETP/STP Overflow

In case of overflow of ETP/STP, following action to be done:

- All PPEs to be worn by all engaged persons.
- Maintenance team to be worn all required PPEs to handle the situation
- The first priority is to stop or reduce the flow of wastewater into the affected area. This might involve diverting incoming streams or shutting down processes that contribute to the overflow.
- Using barriers or berms to create temporary containment areas.
- Deploying absorbent materials to soak up the spilled wastewater.
- Using pumps to relocate the overflow to a holding tank or another part of the treatment system.
- Thoroughly clean up the overflowed area, removing all contaminated materials.
- Disinfect the affected area to prevent the spread of pathogens.
- If the overflow reaches surrounding soil or water bodies, implement appropriate remediation measures
- Improving maintenance and monitoring procedures.
- If the overflow has escaped the plant, closely monitor the surrounding environment for contamination. This includes testing soil and water samples.

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3.21 Environmental Emission - Structure Collapsed/ Demolition

- Prioritize the immediate evacuation of all personnel and the public from the affected area.
- Quickly assess the types of materials involved in the collapse
- Conduct immediate air quality monitoring to detect any airborne contaminants. This is crucial if asbestos, chemicals, or other hazardous materials are suspected.
- Collect soil and water samples to assess contamination levels. This is particularly important if the collapse occurred near water bodies or sensitive ecosystems
- Characterize the debris from the collapse to identify any hazardous materials that require special handling.
- Remove and dispose of any hazardous materials according to environmental regulations. This may require specialized contractors
- Carefully remove debris, taking precautions to minimize dust and the spread of contaminants
- Remediate any contaminated soil or water to restore the site to a safe condition
- Ensure compliance with all applicable environmental regulations and reporting requirements.
- The collapse can generate large amounts of dust and particulate matter, which can cause respiratory problems. Use Mask inside the plant.

4. AREA SPECIFIC DANGERS (NATURAL CALAMITIES)

Type of Emergencies Identified under Disaster / Natural Calamities

4.1 Earthquake – General Safety Precautions

- Remain calm.
- If you are outdoors, move to an open area away from falling hazards
- Check yourself and others for injuries. Do not move injured people unless they are in danger.
- Safely shut down processes.
- Expect aftershocks. After large earthquakes, tremors and aftershocks can continue for days.
- Be ready to act without electricity or lights.

4.2 Flood – General Safety Precautions

Floods can also be very dangerous due to strong or swift currents. If you have warning of a potential flood, take the following precautionary steps:

- Initiate plant shutdown/ power shutdown if needed
- Turn off all utilities, if applicable, and move valuables to upper floors.
- Store clean water.
- If waters start to rise inside your building, quickly and carefully move to a higher floor. If necessary, you may need to retreat to the roof.
- If you are caught outdoors and there are no buildings or houses close by, move to higher ground and wait there for emergency personnel.
- NEVER try to swim to safety. Stay where you have retreated and wait for emergency personnel.
- Use all available resources to empty out the water from critical area and barricade the area with sand bags to avoid water coming back.

4.3 Rain and Storm

Shift supervisor will take the following actions in case of storm:

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- See that all the Electrical Inventories and Machines are properly placed and away from the contact from water.
- Keep inform to all the security gate to avoid the influx of Vehicles, Man power inside the site. specially Heavy Machines should not be allowed to enter the site as the soil is black cotton soil.
- See that all the machines/material at height which are in the rigging process is grounded.
- All the workers working at height are grounded.
- In Case people are trapped at site for long hours appropriate facilities to be provided by the service provider.
- Head count to be initiated to see that some one is not missing if necessary.
- Shift supervisor will take the following actions in case of storm.
- All loose, light objects will be removed from the site, which could become hazardous missiles during high winds.
- Buckets, ladders, maintenance materials and other like things are to be placed in the safe place.
- Hydra, trucks, welding machines, etc. are to be placed at safe positions / places.
- All construction materials i.e. beams, pipes, power equipments etc. which can not be moved to a safe location, they are to be latched in place in the best possible manner known.

4.4 Cyclone - General Safety Precautions

- Pay heed to the meteorological warnings
- Clear loose material that could blow about and possibly cause injuries or damages during extreme winds.
- In case of a storm warning Create Awareness and ask people to move to the nearest safest place.
- Maintain Communication to stay alerts through Government Authorities / Local Crisis Groups / NGOs or as a minimum local radio/TV for further warnings.
- When the cyclone strikes, disconnect all electrical appliances. Listen to your battery radio for updates.
- Stay indoors (unless you are asked to evacuate) in the strongest part of the building, i.e. cellar, internal hallway or rest room.

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5. DISASTER MANAGEMENT PLAN

GENERAL

An industry is expected to protect and preserve its manpower and machines and other assets and take all such measures as are necessary to ensure their safety while deploying them for the manufacturing process and housekeeping operations. We drive enough on this basic element right from the corporate level up to and from brasses to the lowest rank of employees.

A major emergency in a factory is which has potential to cause serious injury or illness or loss of life or damage or loss to property. It would cause serious disruption both inside and outside the factory. It normally requires assistance from emergency services to handle it effectively. Whatever be the causative factors e.g. plant failure, human error, earthquake, vehicle crash and sabotage etc. hazards will invariably manifest in three basic forms viz. Fire, explosion, and/ or toxic releases.

One of the essential steps to minimize these ill effects is to prepare on site Disaster Management Plan so that preparedness of staff/employees at all levels is spelt out in unequivocal terms and their safety stand ensured together with the nature of assistance from outside agencies to meet any emergent situation.

Purpose

Disaster Management Plan spells out actions and responsibilities for: -

- Quick stoppage of plant.
- Rescue and recuperation of the injured.
- Loss prevention to minimize loss of property in the plant and surroundings, and
- To ascertain normal safety and security and to restore normalcy as early as possible.

The Objective of Disaster Management Plan includes the following:-

- Controlling of an emergency, localizing the emergency and eliminating the hazard.
- Welfare of those managing the disaster.
- Head count and rescue operations
- Treatment of the injured.
- Safeguarding others by timely evacuation.
- Minimizing damage to property and environment.
- Informing and collaborating with statutory authorities.
- Informing the news media.
- Preserving records and organizing an investigation.
- Ensuring safety of the works before personnel re-enters and resumes work.

EMERGENCY PLANNING

Emergency is a general term implies hazardous situation both inside and outside the factory premises. Major emergency is defined as one, which may effect one or several sections of the plant and possibly extend beyond the factory boundaries. It may cause serious injuries, loss of life and or extensive property damage. In order to comply with provisions of the Factories Act and Environment Protection Act and to ensure the safety of workers as well as general public living in the vicinity of the factory,

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Risk Assessment and Emergency Planning has been prepared. The emergency planning has been prepared in order to provide proper guidance to the plant operating personnel to confidently handle any case of major fires and explosions. The main cause of hazard is fire and explosions. It is therefore essential that the plant personnel know all about handling such situations so that they will not be taken unaware under emergency condition. The emergency planning will be great help in making the works safety conditions and make them confident to handle any type of emergent situation.

OBJECTIVES OF EMERGENCY PLANNING:

Emergency planning for the full range of possible incidents is just one aspect of planning for safety. It cannot be considered in isolation. The main objectives of the emergency planning are as follows:

- a. To assess what dangers what could arise to people on and off site as a result of these foreseeable emergencies and what the effects could be on environment.
- b. To contain and control incidents.
- c. To assess the risks involved and to mitigate the same by preplanned remedial and rescue measures using when necessary the combined resources of the organization concerned and the public emergency services.
- d. To assess the wide range of events leading to disasters eg. Fires spillage release of toxic and corrosive material etc. The consequences of various events considered should be assessed.
- e. The training of individual personnel with duties under the plans will familiarize the site personnel with their roles, their equipment and details of the plans. Exercise should ensure that the onsite emergency procedures of each process of plant, storage of rice husk facility etc are tested regularly and these exercises should be arranged to test each part of the emergency plan as each process of the plant stage by stage starting with first immediate action.
- f. The On-Site emergency plan should be based on the specific needs of each particular site for dealing with those emergencies, which are unforeseen, may arise.
- g. For an emergency plan to be successful it should be tested when first devised and thereafter to be rehearsed at suitable intervals.

Emergency Lighting arrangement in the plant

The entire plant has been provided with proper lighting arrangement with a standard illumination required.

In case of total power failure a backup of 500 KVA DG Set

Emergency Notification Procedure: The emergency siren is situated at Time Office, Main Gate. For notification of Emergency the emergency siren will wail for 1 minute for duration of 15 seconds repeating after every 5 seconds (3 times Only). If case of emergency during shift changeover siren timings, ONLY EMEGENCY SIREN will wail.

Emergency Control Centre

This is the main center from where the operations to handle the emergency are directed and co-ordinated. Facilities to be made available in the emergency control are:-

- i. Internal and external communication.
- ii. Computer and other essential records.
- iii. Daily attendance of workmen employed in factory.
- iv. Storage of hazardous material records and manufacturing records.

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- v. Pollution records.
- vi. Walky-talky.
- vii. Plan of the plant showing:-
 - a. Storage area of hazardous materials
 - b. Storage of safety equipments
 - c. Fire fighting system and source of water
 - d. Site entrance, roadway and emergency exist
 - e. Assembly points
 - f. Truck parking area.
 - g. Surrounding location.
- viii. Note Book, Pad and Pencil.
- ix. List of Key Personnel with addresses, telephone number etc.

Communication System

Communication is a key component to control an emergency. The following communication system is available in the plant-

- Walky-Talky
- Telephone (internal & external)
- Cell phone
- Runners (verbal or written messages)

Escape Route:

The escape route of plant clearly marked. The escape route is the shortest route to reach out of the plant area to open area, which leads to assembly point. This route are indicated on the layout on-site Emergency Plan.

All Clear Signal:

After control of emergency the Work Incident Controller will communicate to the works main controller about the cessation of emergency. The main controller can declare all clear by instructing the time office to sound "All Clear Sirens".

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6. KEY PERSONNEL CONTACT DETAILS IN CASE OF EMERGENCY

Key Personnel

Emergency can take place in any hour of the day. As such during the time of Emergency, all key personnel and members of safety committee shall be responsible to control the incident.

Area / Section	Contact person	Office	Mobile
Area / Section	Contact person	Office	Residence
Fire/ Security Factory Gate	*Shift In-charge	4222	9929092117
Utility – For water supply	*Shift Operator	4275	7742090558
6.6 KV Sub station	*Shift Engineer and Section In -charge	4363 4229	9799042851 9001093833
Thermal Power Plant	Section In -Charge	2457 / 2321	7742090497
If response is delayed at 4240 /4241 Contact CCR – To announce	CCR Controller	4344/ 4244	9784592148 / 7742090575/
Doctor: To remain at colony dispensary	Dr. Kriti Sheen/ Dispensary	2276	8905989574/ 0159230898
Emergency Coordinator -	Mr. Mukesh Patel	2205	9888388860

*Shift In-charge to ensure water supply / power isolation / power supply to water pumps as applicable
For chemical storage and Petro coke / coal / Lignite storage: - The specific Emergency Response Plan supplement to this ON SITE EMERGENCY PLAN displayed at site shall be followed as applicable.

The emergency co-coordinator will arrange to inform the concerned area in-charge as mentioned below:

Department / Section	Contact Person Name	Office	Mobile Number
Technical Head	Mr. Rajkumar Bansal	2531	9799069482
Commercial Head	Mr. Tushar Sawhney	2224	9582809911
HR & Admin Head	Mr. Vikram Singh Rathore	2370	9773361281
Mechanical	Mr. Abhinav Jain	2405	9772332647
Mechanical	Mr. Niranjan Jain	4214	7742090552
Production	Mr. Narayan Lal Sharma	4244	9784592148
Production	Mr. Anil Kumar	4246	9784592176
E&I	Mr. Kherajram Chowdhary	2383	9900306217
E&I	Mr. Deepak Khabya	4208	9001093833
Planing	Mr. Virendra Singh Rathore	2345	9001092636
PM Cell	Mr. Prakash Gujar	2437	9001092617
Utility	Mr. Ashutosh Bhardwaj	2209	9001093884
QC	Mr. Surender Singh	2235	9001092665
QC	Mr. Dinesh Jangid	4237	9784594395
Civil	Mr. Rajesh Kumar Singh	2398	8308827588
Accounts/ Costing	Mr. Mukesh Mathur	2396	9001092700
Stores	Mr. Pushpendra Chouhan	2206	9001092689
Security	Mr. Nanu Ram Chowdhary	2268	8306675373
Environment	Dr. Ranjeet Bagariya	2391	7742090565
Capex	Mr. Aayoush Goel	2504	9799387816
Safety	Mr. Mukesh Patel	2205	9888388860

- Security department to ensure that trolley with working fire-fighting appliances, first aid box / appliances including stretcher and list of first aid trained persons is kept ready at all times at the main gate.
- If the magnitude of the emergency is calling for evacuation of the personnel, the area In-charge shall inform Emergency co-coordinator for use of alarming siren. All the plant personnel will then rush to the assembly point.
- Security team in consultation with the area In-charge / emergency coordinator shall give all clear.

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7. RESPONSIBILITIES OF KEY PERSONNEL AND MEMBERS OF EMERGENCY RESPONSE PLAN

In case of any emergency, the highest-ranking authority will hold the over all controls of the situation and issue necessary orders to other key personnel and safety committee members. Office of the **Manufacturing Head/ Unit Head** will be designated as “**Master Control Center**” If access to his office is not possible, alternate location shall be designated.

In the absence of **Manufacturing Head/ Unit Head**, **Technical Head** will hold the position highest-ranking authority.

Similarly, any responsibilities assigned to a superior person will be taken over by the next person in absence of the superior.

Role of Site Main Controller:

- Authorise declaration of Emergency.
- Site Main Controller will provide direction and guidance
- Inform higher management and civic authorities (if required)
- Conduct Post-incident meetings for preventive actions.
- Authorise press release, if so required in accordance with the company's policy.
- Give direction (If required) for reporting to concerned departments/ personnel to local authorities, higher authorities and insurance company.

Roles of Emergency Controllers:

- To immediately send the Fire Squad/ Rescue Team along with Team Leader to the Emergency Incident location and to start fire fighting/ rescue operations.
- To inform and update site main controller, Incident Controller, Chief Medical Officer, Central Control Room, Emergency services controller, Emergency support services controller and concerned HOD's viz Maintenance, HR, TPP on requirement of need basis
- Mobilization of fire fighting and rescue equipments.
- Rush to site to take charge of Fire Fighting and/ or rescue operation.
- Regulate access of Vehicles and Personals
- In case of electric fire, confirm from HOD E&I regarding power isolation.
- Advise Time Office for “ALL CLEAR” siren as soon as situation is brought under control.

Roles of Emergency Controllers:

- Render Medical treatment to the injured
- Transfer badly affected persons to nearby hospital
- Mobilize extra medical help from outside if required
- Keep information's about the availability of medicines and facilities.

Role of Fire Coordinator (FIRE FIGHTING, RESCUE OPERATION)

- Fire Officer will be fire coordinator
- His responsibilities are as under:

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- Rush to emergency site along with fire tender
- Report to incident controller
- Assess the situation
- Start fire fighting activities immediately for “control”; “suppression” and “mitigation” of the emergency situation
- Ask for additional resources if required to site in charge
- Carry out rescue operations along with rescue team if needed
- Maintain fire hydrant system pressure by operating fire pumps.

Role of Safety Coordinator:

- Safety Officer will be safety coordinator
- In his absence Site safety officer will take charge as safety coordinator
- His responsibilities are as under:
 - Rush to emergency site report to Site Main Controller / IC
 - To arrange for additional safety appliances from store
 - To assist / advice/ guide fire fighting and rescue operation
 - Access the situation whether the it can go beyond the plant premises & will bring it into the notice of Site Main Controller

Role of Administrative & Transportation Services:

- Head - admin will be admin coordinator
- In his absence admin officer will take charge as admin coordinator
- His responsibilities are as under:
 - Report to Site Main Controller
 - Arrange for additional vehicles if needed
 - To arrange for transport for emergency service personnel
 - To maintain record of personnel transported in and out of plant
 - To assist incident coordinator, medical coordinator, safety coordinator for the transportation of victims from the affected area to safe places.

Role of IR Coordinator:

His responsibilities are as under:

- Report to Site Main Controller
- To arrange for supply of food and other essentials to emergency fighting crew and affected people both for inside and outside agencies
- To intimate about the casualties to the relatives of the injured persons
- To assess the situation in the neighborhood and help evacuation if necessary
- To keep liaison with press media and release written statement to the press
- To inform state & central government and statutory bodies of the nature and magnitude of the incident, number of casualties etc

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Role of Security Coordinator:

- Security head will be security coordinator & overall in charge
- In his absence Security officers on duty will take charge as security coordinator
- His responsibilities are as under:
 - Rush to emergency control center and report to Site Main Controller
 - Inform the relevant in charges/ coordinators as per the protocol
 - Take charge of the security gates operations for restricted entries
 - Cordon off the area and control traffic movement
 - Carry out in evacuation if needed
 - Contact external emergency services & seek their help and communicate with all other services as required and directed by Site Main Controller.
 - Mobilize additional security personnel towards affected sites
 - Guide the outside resources to reach to the affected site

Role of Environment Coordinator:

- Head – environment will be environment coordinator
- His responsibilities are as under:
 - Rush to emergency affected area and report to Site Main Controller
 - Advice environment impact controls at site rising out of emergency scenario.
 - Carry out environment monitoring before "All Clear" declared by Site Main Controller

Evacuation procedure

- Plant evacuation is dependent on incident controller's decision
- All the occupants should rush to the nearest "Emergency Exit"
- After coming out of the risk area all should get assembled at emergency assembly point.
- Nobody is allowed to leave the assembly point unless ordered by the incident controller
- After taking the head count the incident controller will compare it with his available data so as to ensure that all the persons have been evacuated
- The same should be reported to SMC.

8. SERVICE GROUP IN OFF SITE EMERGENCY PLANS:

The essential service groups to form integrated team of emergency plans are:

- Police commandos with specific training in marshalling evacuation of communities from camps or in enforcing "Stay-in" during the crisis.
- Traffic Police to out-off traffic flow in to affected area and trained to enforce a temporary 'traffic freeze' along the traveling route of the emergency service vehicles to enable the team to reach the site of incident unimpeded and in shortest possible time.
- Fire Brigade with appropriate fighting facilities.
- Ambulance, with trained team of doctors and first aiders and on-board resuscitation units to enable medical care to commence while carrying the affected personnel to designate hospitals.

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- Paramedical Group trained in handling seriously injured persons, in administration of life saving medical assistance on the spot and in rescue operation of trapped victims.
- De-contamination squad to begin de-contamination of affected inventories and surface water in the vicinity which are meant for public consumption.

Each group will have to shoulder a specific responsibility and since the entire operation is inter active each group must know before hand what the other groups are doing or are expected to do and provide back-up assistance whenever any one group is severely strained in coping with the situation.

9. TRAINING & EXERCISE:

The training/ re-training/ refresher training shall be imparted as per the yearly training plan/ calendar.

10. MOCK DRILL:

Purpose:

To train and educate employees of their duties and responsibilities and to assess effectiveness of the on-site emergency plan by conducting mock drills of an emergency situation in the Plant.

Scope:

This procedure shall be used for conducting emergency mock drills in the Plant area

Frequency:

- Fire – Quarterly
- Medical Emergency – Six Monthly

Responsibility:

Head- Safety to organize the mock drill exercise with prior approval from Unit Head/ Technical

Procedure:

- An artificial emergency situation shall be created at suitable location by generating smoke/fire/ Emergency conditions i.e. serious injury.
- The emergency siren will Wail for 1 minute for 15 seconds repeating after every 5 seconds (3 times Only).
- The performance of mock drill will be evaluated to test
 - (a) the effectiveness of the communication system;
 - (b) the speed of mobilization of the plant emergency teams;
 - (c) the effectiveness of search, rescue and treatment of casualties;
 - (d) the emergency isolation and shut down and remedial measures taken on the system; and
 - (e) the conducting of a full rehearsal of all the actions to be taken during emergency through an "Observer".
- The evaluation results of mock drill and attendance shall be recorded by Observer and submitted to Head- Security for onward submission to Unit Head.
- Such exercise for implementation of On-site Emergency Plan shall be compulsory for all those who are responsible for the execution of On-site emergency plan.
- The on-site emergency plan shall be reviewed and revised, if necessary, every year from the date of issue based on the experience gained from the mock drills or inputs.

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Mock Drill Record

MEDICAL EMERGENCY RESPONSE (MOCK) DRILL REPORT			
Type of Emergency:			
Objective:			
Mock Drill Coordinator:			
Mock Drill Observer:			
1	Exact Location Where Drill Conducted		
2	Date & Time of Drill		
3	Reporting Time		
4	Reported by		
5	Emergency Services Response time		
6	Any injury reported		
7	Exercise done by Emergency services		
8	Time of Assembly of site worker		
9	Time of Closure Meeting		
10	Time of Emergency Drill Completed		
11	Mock Drill finding brief by		
12	Observations during Drill:		
Gaps Identified		Action Required	Action Taken/ Date of Compliance

Signatures:

Mock drill Coordinator

Safety Head

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11. FIRE FIGHTING FACILITIES

SN	Equipment Name	Qty
1	Fire Hydrant	8
2	Fire Extinguisher	82
3	Fire Sand Bucket Stand	6
4	Fire Sand Bucket	19
5	Fire Hose Boxes	2
6	Fire Hoses	10
7	Electrical Pump	1

12. FIRST AID BOX:

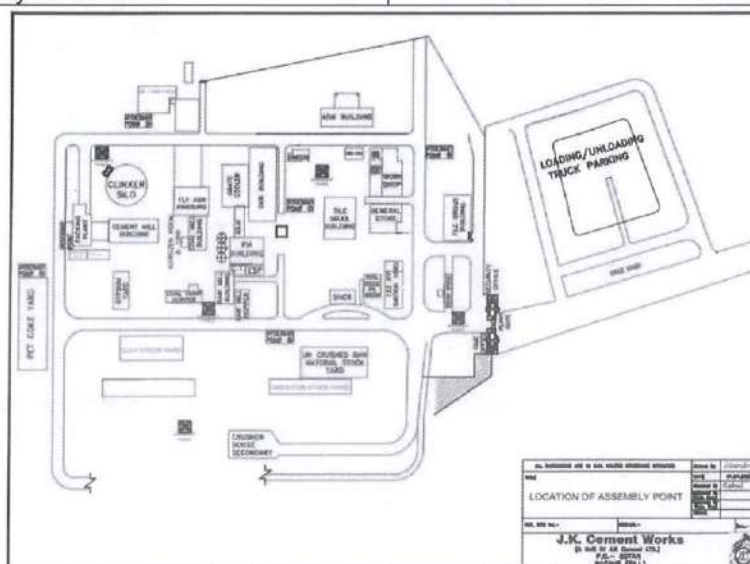
We have a first aid boxes at following locations:

JK White Cement Works				
SN		Location	Department	FAB Incharge
1	FAB/2023/01- JKC	Security Gate	Security	Prem Shekhawat
2	FAB/2023/02 - JKC	Admin Building	Mechanical	Niranjan Jain
3	FAB/2023/03 - JKC	Sub-station	Electrical	Deepak Deora
4	FAB/2023/04 - JKC	CCR	Production	Anil Kumar
5	FAB/2023/05 - JKC	Packing Plant	Tile Grout	Pradeep Mundel
6	FAB/2023/06 - JKC	QC	QC Department	Dinesh Jangid
7	FAB/2023/07 - JKC	Crusher	Mechanical	Dileep Singh

13. ASSEMBLY POINTS

We have 5 numbers of assembly points at following locations:

1. Lawn near weigh bridge	2. Near Raw Mill Building
3. Infront of Canteen	4. Near Clinker Silo
5. Near Secondary Crusher	



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14. LIST OF MEDICINES WITH QUANTITY KEPT IN EACH FIRST AID BOX - CONTENTS:

ITEM NAME	QTY
Bandage 5 Cm/7cm Roll	2
Bandage 9 Cm Roll	2
Betadine Solution 100 Ml	1
Soframycin Cream 30 Gm	1
Surgical Cotton 20 Gm Roll	1
Band Aid Flexi	10
Creap Bandage 6cm/8cm/10 Cm	1
Eye Drops	1
Scissor	1

15. EXTERNAL AGENCIES COMMUNICATION IF REQUIRED

SN	Agency	Distance (KM)	Telephone No.	
			Office	Residence
1	Primary Health Centre, Gotan	2	-	-
2	ESI Hospital	2	-	-
3	Police Station, Gotan	2	231064	-
4	District Collector Nagaur	80	01582-241444	01582-241555
5	Superintend of Police Nagaur	80	01582-242464	01582-242454
6	Inspector of Factories & Boilers, Makarana	88	01588-241348	-
7	Pollution Control Board, Jaipur	245	0141-2711263	-
8	Chief Medical Officer, Nagaur	80	01582-240844	-
9	Panchayat Gotan	2	01591-231158	-
10	Fire Brigade, Merta City	32	01590-220128	-
11	Fire Brigade, Nagaur	80	01582-240810	-
12	AVVNL, GSS Merta City	32	01590-220129	-
13	AVVNL, GSS, Gotan	1	231124	-
14	PHED, Gotan	2	231312	-

16. LIST OF RESCUE EQUIPMENT

(WORK AT HEIGHT)				
Sr. No	Particular	Qty	Purpose	Location
1	Rescue Harness	3	Work At Hight Rescue	Fire Tender
2	Work Positioning Lanyard	2	Work At Hight Rescue	Fire Tender
3	Rope	4	Work At Hight Rescue	Fire Tender
4	Fall Arrestor	2	Work At Hight Rescue	Fire Tender
5	Anchorage Web Sling	2	Work At Hight Rescue	Fire Tender
6	Karabiner	4	Work At Hight Rescue	Fire Tender
7	Knife	1	Work At Hight Rescue	Fire Tender

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(CONFINED SPACE)				
Sr. No	Particular	Qty	Purpose	Location
1	Folding Stretcher	1	Confined Space Rescue	Fire Tender
2	Rope	4	Confined Space Rescue	Fire Tender
3	SCBA	2	Confined Space Rescue	Fire Tender
4	Tripod with Winch	1	Confined Space Rescue	Fire Tender

17. LIST OF FIRST AIDERS

S.No	Name	Department	Contact Number	Ecode
1	Rakesh Dukiya	Civil	9887879021	
2	Kamal Vaishnav	Electrical	9001033325	6100240
3	Virendra Kumawat	Electrical	9116611078	6100268
4	Sandeep Choudhary	HR	9773361278	13002836
5	Yogesh Nagar	Instrumentation	9001092687	6100250
6	Ajay Kumar	Instrumentation	9602698124	6200184
7	Rajesh Kumar Rathore	Instrumentation	7742090495	5100011
8	Satyendra Kumar Pandey	Instrumentation	9001093868	6100076
9	Shaitan Singh	Instrumentation	8005766757	FT
10	Rajeev Rai	Kiln	7742090575	5100017
11	Bhanwar Puri	Kiln	7297027997	
12	Ram Lal	Kiln	9875117802	
13	Shafik Ali	Legal & Liasion	9001096618	6100215
14	Rahul Bhardwaj	Mechanical	9634438304	7910582
15	Om Prakash Joshi	Mechanical	9001092615	6100074
16	Niranjan Jain	Mechanical	7742090552	5100016
17	Dileep Singh	Mechanical	7742090556	5100031
18	Sachin Kumar	Mechanical	6375426391	
19	Dinesh Chouhan	Mechanical	8529419053	
20	Shalini Babu	Medical Services	9358824540	13000899
21	Nitesh Gupta	Medical Services	9358824538	13000896
22	Khalil Ahamad	Medical Services	9875046898	13000897
23	Jay Prakash	Medical Services	9460590470	13000898
24	Rahul Sain	NPD & Putty Lab	9001092645	6100191
25	Brij Gopal Sewag	NPD & Putty Lab	9001092642	6100124
26	Lalit Garg	Packing Plant	9166164468	6100174
27	Dhanraj Choudhary	Packing Plant	9001092628	6100161

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28	Navneet Patodi	Packing Plant	8905993794	
29	Shubham Arora	PM Cell	6376281811	13002419
30	Anil Kumar	Production	9784592176	5100060
31	Vijay Soni	Production	9001490400	6100220
32	Jai Prakash Ojha	Production	9460590470	6100136
33	Bharat Singh	Production	9216828371	
34	Bhagirath	Production	9602862743	
35	Ashok Prajapat	Production	9660224745	
36	Rameshwar Khokhar	Production	8432542556	
37	Manish Todwal	Project	9001092639	6100141
38	Pankaj Goutam	Project	7742090485	5100068
39	Aradhya Sharma	Project	9001093823	6100128
40	Anu Kumari	Putty Lab	9773361271	
41	Anil Kumar	Putty Plant	9001092650	6100178
42	Amit Kumar Sharma	Putty Plant	9001092647	6100177
43	Jagdish Nai	Putty Plant	9116016510	6100248
44	Gajendra Singh Shekhawat	Putty Plant	8209045285	13000638
45	Bharat Kumar	Putty Plant	9001092651	6100190
46	Sanjay Muwal	Quality Control	7742090568	5100009
47	Hemant Pareek	Quality Control	7742094923	5100083
48	Bal Mukund Sen	Quality Control	7742090573	5100069
49	Balwant Singh	Security	9592086504	
50	Abdul Khan	Security	9001092681	6100133
51	Laxman Singh	Security	7024153661	9000008
52	Sanjay Kumar Sharma	Store	7742090592	5100045
53	Ram Raj Beda	TPP	7742090497	5100020
54	Shubham Srivastava	TPP	9461245469	5100078

18. LIST OF RESCUERS

#	Name of Rescuers	Department	Agency	Mobile
01	Rameshwar Lal	Production	M/s Ram Nath	9571898402
02	Laxman Singh	Production	M/s A to Z Engg. service	9828813302
03	Nepal Singh Chouhan	Production	JKWC	9691986378
05	Mukesh Kathat	Electrical	JKWC Parmanent Worker	9001520987
05	Mahesh Bhambi	Electrical	JKWC Parmanent Worker	9928391867
06	Mahendra Sikhval	Electrical	M/s Tara Ram Suja Ram	8555518245
07	Ram Prasad Prajapat	Electrical	JKC Parmanent Worker	9460332493
08	Anshu Sharma	Electrical	JKWC	9001093831
09	Omprakash Gurjar	Electrical	JKWC	9001093862
10	Sanjeev Mundel	Electrical	JKWC	7742090494

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11	Kamlesh Choudhary	Electrical	JKWC	7742094924
12	Ashok Yadav	Mechanical	M/s Azad Fabricators	7568459129
13	Prakash	Mechanical	M/s Hamida Engg.	9460272178
14	Dilip Kumar	Mechanical	JKWC	9001093885
15	Vijay Khandelwal	Mechanical	JKWC	9001092621
16	Khiya Ram	Security	M/s SIS Security	7023140781
17	Bhera Ram	Security	M/s SIS Security	8107443288
18	Prem Singh Shekhawat	Security	JKWC	7728058237
19	Balwant Singh	Security	JKWC	9592086504
20	Mukesh Patel	Safety	JKWC	9888388860
21	Prakash Gujar	PM Cell	JKWC	9001092617
22	Lalit Garg	Packing Plant	JKWC	9001092629
23	Dhanraj Choudhary	Packing Plant	JKWC	9001092628
24	Bharat Kumar	Putty Plant	JKWC	9001092651
25	Praveen Singh	Putty Plant	JKWC	7024153669
26	Dinesh Kumar Jangid	QC	JKWC	9784594395
27	Arvind Purohit	Putty Lab	JKWC	9001092641
28	Kuldeep Singh	HR	JKWC	9001093792
29	Hitesh Gupta	HR	JKWC	9001092634
30	Shubham Srivastava	PM Cell	JKWC	7742090562
31	Ramraj Beda	TPP	JKWC	7742090497
32	Anil Kumar	Fire	M/s SIS Security	9001093851
32	Kamal Singh	Fire	M/s SIS Security	7725916945
34	Naredra Kumar	Fire	M/s SIS Security	8094471080
35	Jitendra Kumar	Fire	M/s SIS Security	8432585085
36	Ankit Yadav	Fire	M/s SIS Security	8955031747
37	Girdhari Lal	Fire	M/s SIS Security	6350319068

19. LIST OF PERSONAL RELATION OFFICERS (PRO)

Name and contact details of communication officers, who will communicate and meet with family in case of emergency with the members of injured person and will communicate them about compensation amount and other information:

#	Name of PRO	Contract Number
01	Girraj Sharan Sharma	9887550575

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Plant/Site	Employee Name	Employee Code	AUDIOMETRY	Blood Group	DISTANT VISION LEFT	DISTANT VISION RIGHT	ECG REPORT	HEIGHT	NEAR VISION LEFT	NEAR VISION RIGHT	SPIROMETRY	WEIGHT
Line-2	Anand Kumar Soni	5100038	ML LE	O+VE	6/6 C GLS	6/6 C GLS	NORMAL	175	N-6 C GLS	N-6 C GLS	MILD REST	80
Line-2	Anil Kumar	5100059	NORMAL	O+VE	6/6	6/6	NORMAL	176	N-6	N-6	NORMAL	84
Line-2	Anirudh Bhan Olha	5100060	NORMAL	B+VE	6/6GLS	6/6 GLS	NORMAL	166	N-6 GLS	N-6 GLS	NORMAL	80
Line-2	ANKIT AGARWAL	5100015	NORMAL	O -VE	6/6	6/6	NORMAL	178	N-6	N-6	NORMAL	96
Line-2	Ashok Kumar Chhaparwal	5100086	NORMAL	B+VE	6/6 C GLS	6/6 C GLS	NORMAL	173	N-6 C GLS	N-6 C GLS	MILD REST	63
Line-2	Bal Mukund Sen	5100069	NORMAL	O +VE	6/6	6/6	NORMAL	170	N-6	N-6	MILD REST	94
Line-2	Bhawani Lal Dhakar	5100049	NORMAL	AB+VE	6/6	6/6	NORMAL	168	N-6	N-6	NORMAL	93
Line-2	Dashrath Singh	5200024	NORMAL	B+VE	6/6	6/6	NORMAL	173	N-6	N-6	NORMAL	70
Line-2	Deepak Deora	5100025	NORMAL	A+VE	6/6 C GLASS	6/6 C GLASS	NORMAL	160	N-6 C GLASS	N-6 C GLASS	NORMAL	72
Line-2	Dharamraj Chouhan	5200001	NORMAL	A+VE	6/6	6/6	NORMAL	176	N-8	N-8	NORMAL	81
Line-2	Dharmesh Sharma	5100052	NORMAL	O+VE	6/6 GLS	6/6 GLS	NORMAL	167	N-6 cglss	N-6 GLS	NORMAL	88
Line-2	Dileep Singh	5100031	NORMAL	B+VE	6/6	6/6	NORMAL	165	N-8	N-8	NORMAL	64
Line-2	Dilip Bhargava	5100081	NORMAL	AB+VE	6/9 C GLS	6/9 C GLS	NORMAL	167	N-6 CGLASS	N-6 CGLASS	MILD REST	74
Line-2	Dinesh Kumar Janjaid	5100006	NORMAL	B+VE	6/6	6/6	NORMAL	172	N-6	N-6	NORMAL	91
Line-2	Dr Ranjeet Kumar Bagariya	5100021	NORMAL	B+VE	6/6 C GLS	6/6 C GLS	NORMAL	171	N-6	N-6	NORMAL	85
Line-2	Fer Singh Rathore	5200008	NORMAL	B-VE	6/6	6/18	NORMAL	185	N-6	N-6	NORMAL	87
Line-2	Gopal Lal Sharma	5100097	NORMAL	A+VE	6/9	6/9	NORMAL	183	N-8 C GLASS	N-8 C GLASS	MILD REST	67
Line-2	Govind Sharma	5200038	NORMAL	O+VE	6/6 GLS	6/6 GLS	NORMAL	172	N-6 GLS	N-6 GLS	NORMAL	71
Line-2	Harj Singh	5200010	NORMAL	O+VE	6/9 C GLASS	6/9 C GLASS	NORMAL	173	N-6 C GLASS	N-6 C GLASS	NORMAL	81
Line-2	Hemant Pareek	5100083	NORMAL	O+VE	6/6 GLS	6/6 GLS	NORMAL	173	N-6 GLS	N-6 GLS	NORMAL	76
Line-2	Jasdev Singh Rathore	5200003	NORMAL	A+VE	6/6	6/6	NORMAL	173	N-6	N-6	NORMAL	74
Line-2	Kailash Chandra Sikhwal	5200013	NORMAL	A-VE	6/6	6/6	NORMAL	166	N-6	N-6	NORMAL	96
Line-2	KAMLESH CHOUDHARY	5100084	NORMAL	B+VE	6/6	6/6	NORMAL	175	N-6	N-6	NORMAL	91
Line-2	Kedar Mal Kurmi	5100026	NORMAL	A+VE	6/6	6/6	NORMAL	172	N-6	N-6	NORMAL	86
Line-2	Kishore Singh	5100019	NORMAL	O+VE	6/6	6/6	NORMAL	180	N-6	N-6	NORMAL	98
Line-2	Kistur Bhukar	9000030	NORMAL	O+VE	6/6	6/6	NORMAL	171	N-6	N-6	NORMAL	63
Line-2	Mahavir Gusai	5100094	NORMAL	O+VE	6/6	6/6	NORMAL	168	N-6	N-6	NORMAL	71
Line-2	MASTER SHIVRAJ DHAKAR	13004630	NORMAL	A-VE	6/6 C GLS	6/9 C GLS	NORMAL	160	N-6 C GLS	N-6 C GLS	NORMAL	58
Line-2	Mohit Tiwari	5100096	NORMAL	B+VE	6/6	6/6	NORMAL	181	N-6 CGLASS	N-6 CGLASS	NORMAL	87
Line-2	Narendra Singh	5200025	NORMAL	O+VE	6/9 C GLASS	6/9 C GLASS	NORMAL	180	N-6	N-6	NORMAL	82
Line-2	Niranjan Jain	5100016	NORMAL	AB+VE	6/6 GLS	6/6 GLS	NORMAL	172	N-6 C GLASS	N-6 C GLASS	NORMAL	88
Line-2	Pankaj Goutam	5100068	NORMAL	B+VE	6/6 GLS	6/6 GLS	NORMAL	160	N-6	N-6	NORMAL	58
Line-2	PRADEEP KUMAR BAIS	13004516	NORMAL	A+VE	6/6 GLS	6/6 GLS	NORMAL	178	N-6 GLS	N-6 GLS	NORMAL	79
Line-2	Pradeep Mundel	5100005	NORMAL	O+VE	6/6	6/6	NORMAL	167.5	N-6 GLS	N-6 GLS	NORMAL	69
Line-2	Pradhan Singh Chouhan	5100036	ML BE	O+VE	6/6 CGLASS	6/6 CGLASS	NORMAL	183	N-6	N-6	NORMAL	74
Line-2	Prahlad Ram Godara	5200018	ML BE	O+VE	6/9 C GLS	6/9 C GLS	NORMAL	170	N-6 CGLASS	N-6 CGLASS	NORMAL	85
Line-2	Rajeev Rai	5100017	NORMAL	B+VE	6/6	6/6	NORMAL	171	N-8 C GLS	N-8 C GLS	MILD REST	59
Line-2	Rakesh Kumar Rathore	5100011	ML LE	O+VE	6/6 C GLS	6/6 C GLS	NORMAL	158	N-6	N-6	NORMAL	60
Line-2	RAKESH KUMAR ARYA	5100093	NORMAL	B+VE	6/6 GLS	6/6 GLS	NORMAL	183	N-6 C GLS	N-6 C GLS	NORMAL	80.5
Line-2	Ram Jeevan Choudhary	5200026	NORMAL	A+VE	6/6 C GLS	6/6 C GLS	NORMAL	166.5	N-6	N-6	NORMAL	66
Line-2	Ram Lal Prajapat	5200035	ML BE	O+VE	6/6 C GLS	6/6 C GLS	NORMAL	171	N-6 C GLS	N-6 C GLS	MILD REST	75
Line-2	Ram Raj Beda	5100020	NORMAL	B+VE	6/6 C GLASS	6/6 C GLASS	NORMAL	162	N-6 C GLASS	N-6 C GLASS	NORMAL	92
Line-2	Ramesh Chand Sharma	5200002	NORMAL	O+VE	6/9	6/9	NORMAL	170	N-6	N-6	NORMAL	72
Line-2	Rameshwar Lal Sain	5200021	ML BE	O+VE	6/6	6/6	NORMAL	152	N-8	N-8	NORMAL	46
Line-2	Ravi Khandiwad	5100065	NORMAL	O+VE	6/6	6/6	NORMAL	160	N-6 C GLASS	N-6 C GLASS	NORMAL	62
Line-2	ROHIT SINGH RATHORE	5100087	NORMAL	A+VE	6/6 CGLASS	6/6 CGLASS	NORMAL	163	N-6	N-6	NORMAL	70
Line-2	SANJAY KUMAR DUBE	5100085	NORMAL	A+VE	6/6	6/6	NORMAL	172	N-6 CGLASS	N-6 CGLASS	NORMAL	62
Line-2	Sanjay Kumar Sharma	5100045	NORMAL	A+VE	6/6	6/6	NORMAL	178	N-6	N-6	NORMAL	94
Line-2	Sanjay Muwal	5100009	NORMAL	AB+VE	6/6	6/6	NORMAL	179	N-6	N-6	NORMAL	73
Line-2	Sanjeev Mundel	5100008	NORMAL	A+VE	6/6 C GLASS	6/6 C GLASS	NORMAL	182	N-6	N-6	NORMAL	79
Line-2	SHAITAN SINGH RAJPUT	5200046	NORMAL	A+VE	6/6	6/6	NORMAL	175	N-6 GLS	N-6 GLS	NORMAL	72
Line-2	SOUBABH AJMERA	13005535	NORMAL	A+VE	6/6	6/6	NORMAL	172	N-6	N-6	NORMAL	85
Line-2	SRRAWAN KUMAR BENIWAL	5200004	NORMAL	O+VE	6/6	6/6	NORMAL	167	N-6	N-6	NORMAL	53
Line-2	SURENDER SINGH SHAKTAWAT	5100090	NORMAL	A -VE	6/6	6/6	NORMAL	169	N-6	N-6	NORMAL	63
Line-2	Tarun Kumar Chippa	5200042	NORMAL	A+VE	6/6	6/6	NORMAL	183	N-6	N-6	NORMAL	80
Line-2	Tela Ram Dewasi	5200039	NORMAL	A+VE	6/6	6/6	NORMAL	178	N-6	N-6	NORMAL	77
Line-2	TRILOK KUMAR	13003983	NORMAL	B +VE	6/6	6/6	NORMAL	166	N-6	N-6	MILD REST	73
Line-2	UMA SHANKAR MEHTA	5100073	NORMAL	B+VE	6/6 GLS	6/6 GLS	NORMAL	172	N-6 GLS	N-6 GLS	NORMAL	87
Line-2	Vikas Paliwal	5100058	NORMAL	B+VE	6/6 C GLASS	6/6 C GLASS	NORMAL	164	N-6 C GLASS	N-6 C GLASS	NORMAL	67
Line-2					6/6	6/6	NORMAL	176	N-6	N-6	NORMAL	86



Environment Policy

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Environment Policy

JK Cement Limited (JKCL) promotes environmental protection as a core value in its operations. The company is dedicated to maintain a clean, green, and healthy environment by adhering to responsible practices and continuously improving its efforts in sustainability and resource conservation. JKCL is committed to:

- Ensure full compliance with all relevant laws, regulations, industry standards, and best practices, while adopting any additional measures necessary to go beyond regulatory expectations.
- Make environmental due diligence a core requirement for all upcoming Greenfield and Brownfield projects ensuring the protection of human health and the environment.
- Ensure clearly defined roles and responsibilities for all personnel involved in managing, performing, and verifying activities related to environmental and occupational health & safety (OH&S).
- Optimize resource utilization to enhance environmental management and ensure effective operation of pollution control equipment.
- Implement advanced technologies and robust practices to minimize emissions from our operations, ensuring compliance with regulatory standards & go beyond compliances.
- Set clear, measurable objectives and targets aimed at reducing environmental impacts, such as greenhouse gas (GHG) emissions, air pollutants, and other critical parameters, promoting a culture of continuous improvement.
- Review all active goals and targets at a minimum every 05 years to ensure consistency in our progress. Targets shall be recalculated and revalidated as necessary to align with evolving regulations and requirements.
- Continuously monitor and enhance environmental performance across all units in the areas of air, water, and waste through regular reviews, inspections, and audits.
- Build awareness among all stakeholders on environmental issues and compliance with relevant regulations through training and regular capability building sessions.
- Continuously enhance the effectiveness of our environmental management through a systematic approach for preventing, mitigating, and controlling environmental impacts, across our operations.

The policy shall be reviewed and updated as necessary to align with evolving regulations and best practices. Any amendments will be communicated to all stakeholders in a timely manner.

Approved By:

A.K. SARAOGI
Deputy Managing Director & CFO