

Reg./AD & mail

JKC/ENV/EC/13 B/

Date: 26.05.2023

The Director,
Ministry of Environment, Forest & Climate Change (Integrated Regional Office)
A-209 & 218, "ARANYA BHAWAN",
Jhalana Institutional Area, Jaipur-302004
Tel No: 0141-2713786, 2713778 Email: iro.jaipur-mefcc@gov.in

Subject: Compliance 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-1 (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.)- **Reg. Environment Clearance** under the provision of para 7 (ii) of EIA Notification, 2006.

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

Sir,
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 production 242659 TPA (Line – 2 work is hold)
Period of EC Compliance : From 1st Oct-2023 to 31st Mar-2023

SPECIFIC CONDITIONS:

Sr.	Conditions	Compliance Status
i	Three tier green belt are from 19ha. to 23ha. To achieve 33% 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 MOEF&CC.	We have developed and well maintained more than 33% green belt area of plant area which is tree sapling of Neem, Desi Ashok, Pendular Ashok, Arjun etc. has been planted around the plant boundary, nearby area, colony area. Total area of plantation is developed 23.02 hectares with 34588 saplings at site & gapfilling is planned in monsoon FY 2023-24 for increasing of density of plants. Refer layout attached Annexure-1
ii	Greeting and paving shall be implemented in the plant area to arrest soil erosion and dust pollution from the exposed soil surface.	We have already taken care for controlling the fugitive dust emission by adopting the better house keeping, concreting the movement areas and development of Green belt.

Corporate Office

📍 Padam Tower, 19 DDA Community Centre
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JK CEMENT
WallMax
White Cement Based Putty



Registered Office : 🏠 Kamla Tower, Kanpur-208001, U.P., India. ☎ +91-512-2371478 to 85 📞 91-512-2399854 🌐 www.jkcement.com

iii	Ammonia Gas Detectors shall be installed at the storage site and the kiln stack for detecting leakage / seepage of ammonia gas.	We have installed Ammonia Gas Detectors at the storage site and the kiln stack for detecting leakage / seepage of ammonia gas. (SNCR)
iv	Particulate matter emission from all the stacks shall not exceed 30mg/Nm ³ .	Particulate matter emission from all the stacks are under 30mg/Nm ³ . & OCEM system has installed at site for monitoring & connected with PCB's servers.
v	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 of material.	All stockyards is maintained flooring and equipped with water spray system for dust suppression(As required & Designed).
vi	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.	Agreed, Factory roads connected with State highway directly & Axle Standard (MSA) maintained as per traffic norms.
vii	Slip road shall be provided at gates and along crossing on main gate.	We have provided at sites,
viii	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.	Covered shed and toe walls provided for raw material storage to check any attrition of raw materials. Storage shed have garland drains, material trap and built on concrete platform.
ix	Performance monitoring of all pollution control device shall be carried out annually and report shall be submitted to MEF&CC, Regional Office.	Environmental Management cell has been setup. The Unit Head looks after the total control of pollutions, monitoring & maintenance of pollution control devices with the help of Technical -Head along with mechanical department, Environment Department, Environment Officers, Engineers (Chemical) & a trained team. Periodically & Annually reports are submitted to MEF&CC, Regional Offices.
x	Following addition arrangements to control fugitive dust shall be provided. 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. Proper covered vehicle shall be used while transport of material. Wheel washing mechanism shall be provided in entry and exists gate.	As Below Status Mist sprinklers installed at all conveyors point and on bulk raw material storage area (at the transfer points) Proper covered vehicle are using for finished product and ensuring at factory gate level. Wheel washing mechanism not required due to dry process and all road maintained pacca.
xi	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 this 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.	We assure for the same i. e. the water consumption shall not exceed the limit. Permission for the same has been obtained from CGWA. Surface water sources like mine pit water, rain water harvested water and use of treated sewage water from nearby municipal corporation Water Report will be submit within time .
xii	Rain Water Harvesting shall be carried out to recharge 200% of annual ground water withdrawal as committed by the PP.	We have provided very well Rainwater harvesting System. Drawing and other in Letter No.- JKC/ENV/13 A/ dated 26.11.2014 and subsequent correspondence to CGWA compliances on yearly basis.
xiii	Particulate matter emissions from all the stacks shall be less than 30 mg/Nm ³ .	Particulate matter emission from all the stacks are under 30mg/Nm ³ . & OCEM system has installed at site for monitoring & connected with PCB's servers.
xiv	Petcoke dosing shall be controlled automatically to control SO ₂ emission from chimney within the	SO ₂ emission from chimney within the prescribed limit and controlled automatically.



	prescribed limit.	
xv	Dioxin and furans shall be monitored twice a year during coprocessing of hazardous waste and report shall be submitted to the Regional Office of the MOEF&CC.	Agreed, we have ensured and reports submitted to the Regional Office of the MOEF&CC.
xvi	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.	Environmental Management cell has been setup. The Unit Head looks after the total control of pollutions, monitoring & maintenance of pollution control devices with the help of Technical -Head along with mechanical department, Environment Department, Environment Officers, Engineers (Chemical) & a trained team. Periodically & Annually reports are submitted to MOEF&CC, Regional Offices.

GENERAL CONDITIONS:

Sr.	Conditions	Compliance Status
I	Statutory Compliance	
i.	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.	Agreed, we are follow & complying.
II	Air Quality Monitoring and Preservation	
i.	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.	Continuous Monitoring System (CEMS) is installed at all process stacks & Four CAAQM stations are installed at site and connected to RSPCB & CPCB servers for online monitoring. Refer recognized Lab Monitoring reports Attached: Annexure-2
ii.	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.	We have monitor fugitive emissions in the plant premises at least every quarter. 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 & unloading points. Further, quarterly report is submitted accordingly.
iii.	The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance.	Every Bag filter facility equipped the leakage detection system.
iv.	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.	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 & finished product are done by means of covered conveyor system.
v.	The project proponent shall provide wind shelter fence and chemical spraying on the material stock piles.	Agreed, if required
vi.	Ventilation system shall be designed for adequate air charges as per the prevailing norms for all tunnels,	We have provided proper Ventilation system for all required sites.



	motors houses and cement bagging plants.	
III	WATER QUALITY MONITORING AND PRESERVATION	
i.	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 in case of coprocessing cement) as amended from time to time.	The 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 & flow meter with respect to standards. Both are connected with PCB's servers.
ii	The project proponent shall regularly ground water quality at least 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.	We are conducted the water testing as per norms twice a year by approved lab and maintained records. For ground water level monitoring we have install two number piezometers and connected with servers for real-time monitoring.
iii	Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards	Sewage Treatment Plant has installed and all domestic waste water treated and use in plantation with meet the prescribed standards.
iv	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.	Agreed. garland drains available.
v	Water meters shall be provided at the inlet to all unit processes in the cement plant	Water meters installed
vi	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.	We are doing efforts to minimize water consumption in the cement plant with new technology adaption.
vii	Tyre washing facility shall be provided at the entrance and exit of the plant gates.	Agreed, if required, Actually no required because of no any sludge/ other material generated from the process.

IV Noise monitoring and prevention:

i	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.	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. Recognized Lab Monitoring Reports Attached: Annexure-2
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IV Energy Conservation Measures:

i	Waste heat recovery system shall be provided for kiln and cooler	Agreed – Line-II
ii	The project proponent shall make efforts to achieve power consumption less than 65unit/ton for Portland pozzolana Cement (PPC) and 85unit/ton for the ordinary Portland cement(OPC) production and thermal energy consumption of 670Kcal/Kg of clinker.	Agreed, we will efforts to achieve.
iii	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.	We have installed solar power generation on roof tops 100Khw for light system.
iv	Provide the project proponent for LED lights in their offices and residential areas.	We have provided all premises LED lights in their offices and residential areas.

VI Waste management:

i	Used refractories shall be recycled as far as possible	Agreed, we have provided recyclers.
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VII Green belt

i	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.	M/s JK Cement Ltd are make sustainability report and track of targets GHG & others. Every year published IR report by third party & provided on site for public domain
ii	The project proponent shall submit a study report on Decarbonization program which would essentially consist of company's carbon emissions, carbon budgeting/balancing carbon sequestration activities and carbon capture, use and storage and offsetting strategies. Further, the report shall also contain time bounding 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	

VIII. Public Hearing and Human issues:

i	Emergency preparedness plan based on the hazardous identification and Risk Assessment(HIRA) and Disaster Management Plan shall be implemented.	Emergency preparedness plan prepared based on the hazardous identification and Risk Assessment(HIRA) and Disaster Management. The unit is already IMS certified ((ISO9001, ISO 14001 & ISO 45001) and the plan copy is displayed at sites
ii	The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide personnel protection equipment(PPE)as per norms	The safety Department are established and well qualified officers given responsibility of sites which have ensure the personnel protection equipment(PPE)as per norms
ii	Occupational health surveillance of the workers shall be done on a regular basis and records maintained.	Agreed, Periodic health checkup of all the employees have been conducted at our dispensary(OHC) where all facilities are available. The records maintained Refer Report attached Annexure: -3

IX. Environment Management:

i	The project proponent shall comply with the provisions contained in this Minister's OM vide F. NO.22-65/2017-IA.III dated 30/09/2020	Agreed, we are comply
ii	The company shall have a well laid down environmental policy duly approved by the board of Directors.	The company has laid down environmental policy duly approved by the board of Directors. & available on company Website
ii	A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of organization.	Environmental Management cell has been setup. The Unit Head looks after the total control of pollutions, monitoring & maintenance of pollution control devices with the help of Technical -Head along with mechanical department, Environment Department, Environment Officers, Engineers (Chemical) & a trained team.

X. Miscellaneous:

i	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the district or state, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently	Expansion EC: advertised in Rajasthan Dainak Navjyoti & Dainik Bhasker on dated 30.05.2022.
ii	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.	We have submitted the copy of the environment clearance Gram Panchayat Gotan within time frame dated 23.06.2022
iii	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including result of monitored data on their	Agreed, we are complying



	web site and upload on half-yearly basis.	
iv	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.	
v	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.	Agreed, we are complying
vi	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	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
vii	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	Agreed, for the same.
viii	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	Agreed
ix	No further expansion or modification in the plant shall be carried out without prior approval of the MoEF& CC	It shall be followed at all times. Changes if any shall be under taken with due permissions.
x	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.	Agreed, Noted
xi	The ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Agreed, Noted
xii	The ministry reserves the right to stipulate additional conditions if found necessary. The company in the time bound manner shall implement these conditions.	Agreed, Noted
xiii	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.	Agreed, committed
xiv	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.	Agreed, Noted



We hope you will find the document in order.

Thanking you,

Yours Faithfully,

For J.K. Cement Works, Gotan



Dr. Pardeep Kumar Bagariya

Authorised Signatory

CC To:

Reg. A/d

Central Pollution Control Board,

Parivesh Bhawan, East Arjun Nagar, Shahdara, New Delhi – 110 032

Reg. A/d

Member Secretary,

Rajasthan State Pollution Control Board

4, Institutional Area, Jhalana Doongari, Jaipur (Raj.) – 302 004

CPP

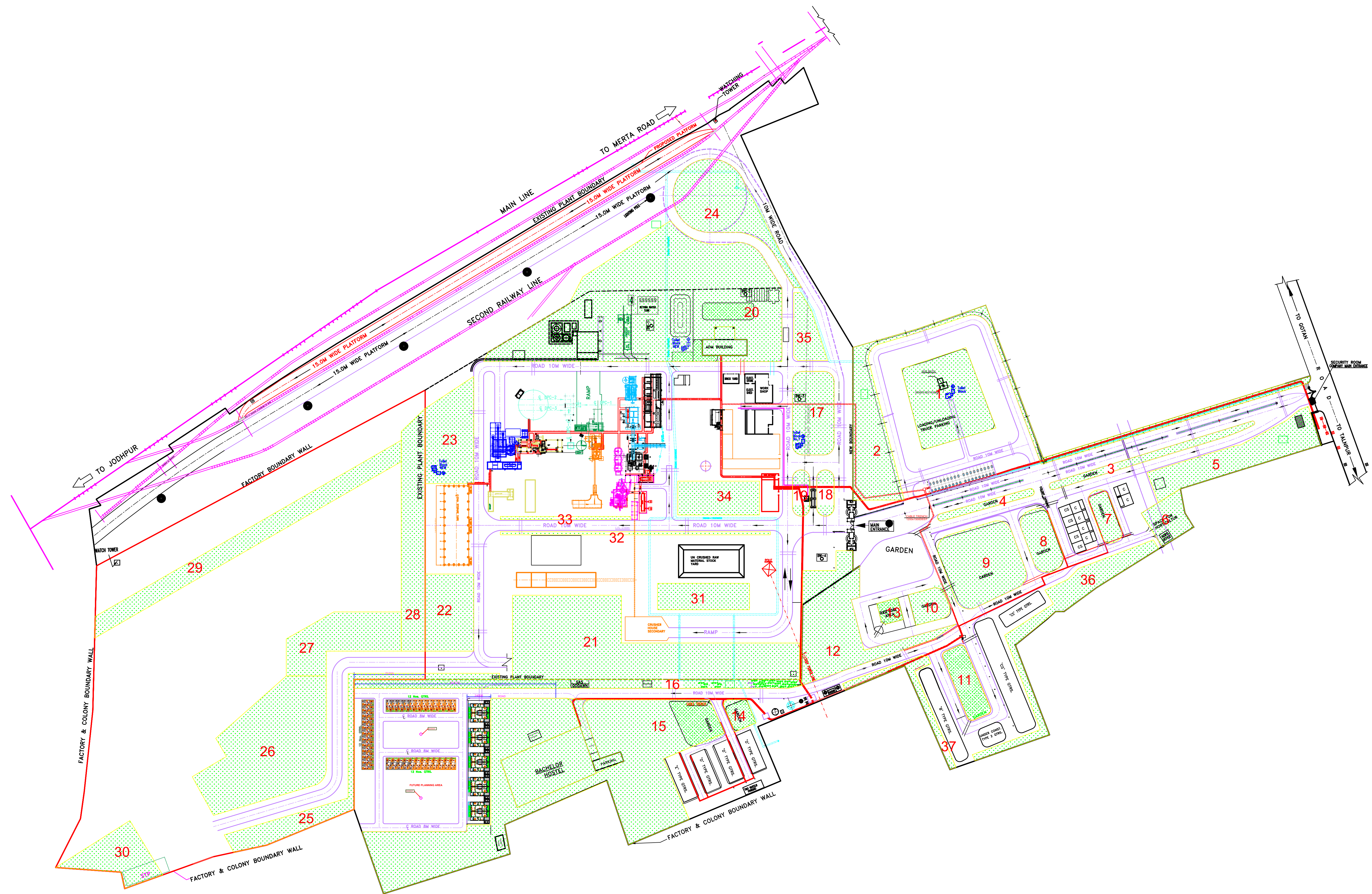
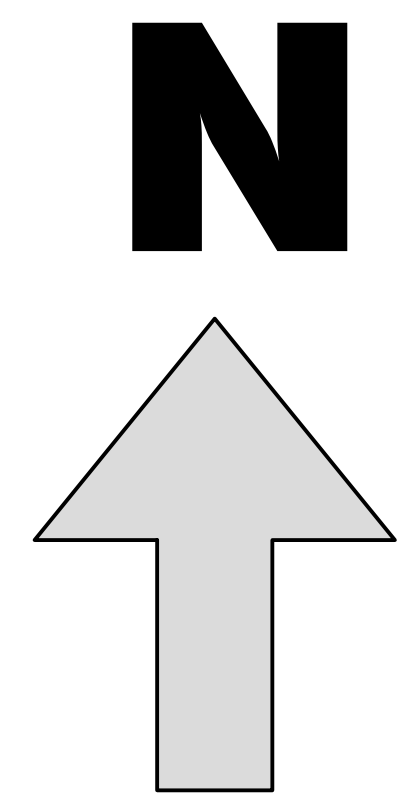
Reg. A/d

Regional Officer,

Rajasthan State Pollution Control Board,

First Floor, Sehkari Bhoomi Vikas Bank Ltd., Nagaur- 341001

Encl: as above



EXISTING PLANTATION

REV.	DESCRIPTION	DATE	DRN.	CHD.
REVISIONS				

ALL DIMENSIONS ARE IN M.M. UNLESS OTHERWISE SPECIFIED		DRAWN	ARADHYA S.
TITLE JK CEMENT FACTORY EXISTING PLANTATION LAYOUT		DATE	06.11.2017
		CHECKED	DR. R.K.V.
		APPROVED	
		SCALE	1:2000
REF. No.:-	DRG.NO.-JKC-GEN-E-1199	Rev.:-	1
J.K. Cement Works (A Unit Of J.K Cement LTD.) P.O.- GOTAN NAGPUR (RAJ.)			

ACAD FILE:-

LOCATION



Test Report

Page No. 1/2

Sample Number : VEL/A/01

Name & Address of the Party : M/s J.K Cement Works

Unit of JK Cement Ltd. Village & PO-Gotan, Distt-
Nagaur, Rajasthan.

Sample Description : Ambient Air

Report No. : VEL/A/2303091009

Format No : 7.8 F-03

Party Reference No : By Mail

Reporting Date : 15/03/2023

Period of Analysis : 10/03/2023-14/03/2023

Receipt Date : 09/03/2023

ULR No. : TC629923200000748F

General Information

Sampling Location	: Front Of Pump House
Sample Collected By	: VEL Representative (Rajesh)
Sampling Equipment used	: RDS/FPS
Instrument Code	: VEL/RDS/05 & FPS/04
Instrument Calibration Status	: Calibrated
Meteorological condition during monitoring	: Clear Sky
Date of Monitoring	: 02/03/2023 To 03/03/2023
Time of Monitoring	: 03:20 PM to 03:20 PM
Ambient Temperature (°C)	: Min.16°C, Max.30°C
Surrounding Activity	: Human, Vehicle & Plant Activities
Scope of Monitoring	: Regulatory Requirements
Sampling & Analysis Protocol	: IS: 5182 & CPCB Guidelines
Sampling Duration	: 24.0 Hours
Parameter Required	: As per work order

S.No.	Test Parameters	Test Method	Results	Units	Limits as per CPCB
1	Particulate Matter as (PM2.5)	IS 5182 (P-24)	30.18	µg/m3	60
2	Particulate Matter as (PM10)	IS 5182 (P-23)	64.19	µg/m3	100
3	Nitrogen Dioxide as (NO2)	IS 5182 (P-6)	18.14	µg/m3	80
4	Sulphur Dioxide as (SO2)	IS 5182 (P-2)	8.92	µg/m3	80
5	Ammonia as (NH3)	VEL/ENV/STP/155, Issue No.-1, dated on 20/06/22	BLQ(LOQ-20.0)	µg/m3	400
6	#Ozone as (O3)	IS 5182 (P-9)	17.04	µg/m3	180
7	Benzene as (C6H6)	IS 5182 (P-11)	BLQ(LOQ-0.5)	µg/m3	5
8	Benzo(a)pyrene as (BaP)	IS 5182 (P-12)	BLQ(LOQ-0.5)	ng/m3	1
9	Arsenic as (As)	VEL/ENV/STP/110, Issue No.- 01, Issue date 01/11/2021	BLQ(LOQ-0.1)	ng/m3	6
10	Lead as (Pb)	IS 5182 (P-22)	BLQ(LOQ-0.1)	µg/m3	1
11	Nickel as (Ni)	IS 5182 (P-26)	BLQ(LOQ-5.0)	ng/m3	20



Terms & Conditions

- The results reported relate only to the samples tested. In case sample is not drawn the results apply to the sample as received.
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- To confirm the authenticity of this certificate of analysis, please contact us through email at lab@vardan.co.in
- Laboratory is not responsible for the authenticity of photocopied test report. The test samples will be retained only for specific period
- The report no. with Suffix A-Amended Report.
- This test report will not be used for publicity or advertising or media purpose without prior written permission on the laboratory.
- Giving opinions does not imply endorsement of the tested sample by the lab. Under no circumstances, the lab accepts any liability caused by the use or misuse of the test report.





Test Report

Page No. 2/2

Sample Number : VEL/A/01

Report No. : VEL/A/2303091009

S.No.	Test Parameters	Test Method	Results	Units	Limits as per CPCB
12	#Carbon Monoxide (by NDIR)	IS 5182 (P-10)	0.55	mg/m3	4

Note-# indicates 1 hour monitoring of CO & Ozone.

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

End of Report



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Test Report

Page No. 1/2

Sample Number : VEL/A/02

Name & Address of the Party : M/s J.K Cement Works

Unit of JK Cement Ltd. Village & PO-Gotan, Distt-
Nagaur, Rajasthan.

Report No. : VEL/A/2303091010

Format No : 7.8 F-03

Party Reference No : By Mail

Reporting Date : 15/03/2023

Period of Analysis : 10/03/2023-14/03/2023

Receipt Date : 09/03/2023

ULR No. : TC629923200000749F

Sample Description : Ambient Air

General Information

Sampling Location : Front Of Weight Bridge
Sample Collected By : VEL Representative (Rajesh)
Sampling Equipment used : RDS/FPS
Instrument Code : VEL/RDS/FPS/07
Instrument Calibration Status : Calibrated
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 02/03/2023 To 03/03/2023
Time of Monitoring : 02:50 PM to 02:50 PM
Ambient Temperature (°C) : Min.16°C, Max.30°C
Surrounding Activity : Human, Vehicle & Plant Activities
Scope of Monitoring : Regulatory Requirements
Sampling & Analysis Protocol : IS: 5182 & CPCB Guidelines
Sampling Duration : 24.0 Hours
Parameter Required : As per work order

S.No.	Test Parameters	Test Method	Results	Units	Limits as per CPCB
1	Particulate Matter as (PM2.5)	IS 5182 (P-24)	32.25	µg/m3	60
2	Particulate Matter as (PM10)	IS 5182 (P-23)	68.51	µg/m3	100
3	Nitrogen Dioxide as (NO2)	IS 5182 (P-6)	20.20	µg/m3	80
4	Sulphur Dioxide as (SO2)	IS 5182 (P-2)	9.21	µg/m3	80
5	Ammonia as (NH3)	VEL/ENV/STP/155, Issue No.-1, dated on 20/06/22	BLQ(LOQ-20.0)	µg/m3	400
6	#Ozone as (O3)	IS 5182 (P-9)	19.96	µg/m3	180
7	Benzene as (C6H6)	IS 5182 (P-11)	BLQ(LOQ-0.5)	µg/m3	5
8	Benzo(a)pyrene as (BaP)	IS 5182 (P-12)	BLQ(LOQ-0.5)	ng/m3	1
9	Arsenic as (As)	VEL/ENV/STP/110, Issue No.- 01, Issue date 01/11/2021	BLQ(LOQ-0.1)	ng/m3	6
10	Lead as (Pb)	IS 5182 (P-22)	BLQ(LOQ-0.1)	µg/m3	1
11	Nickel as (Ni)	IS 5182 (P-26)	BLQ(LOQ-5.0)	ng/m3	20

(Checked By)

(Approved By)

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Test Report

Page No. 2/2

Sample Number : VEL/A/02

Report No. : VEL/A/2303091010

S.No.	Test Parameters	Test Method	Results	Units	Limits as per CPCB
12	#Carbon Monoxide (by NDIR)	IS 5182 (P-10)	0.64	mg/m3	4

Note-# indicates 1 hour monitoring of CO & Ozone.

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

End of Report



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Test Report

Page No. 1/2

Sample Number : VEL/A/03

Name & Address of the Party : M/s J.K Cement Works

Unit of JK Cement Ltd. Village & PO-Gotan, Distt-
Nagaur, Rajasthan.

Sample Description : Ambient Air

Report No. : VEL/A/2303091011

Format No : 7.8 F-03

Party Reference No : By Mail

Reporting Date : 15/03/2023

Period of Analysis : 10/03/2023-14/03/2023

Receipt Date : 09/03/2023

ULR No. : TC629923200000750F

General Information

Sampling Location	: Front Of Crusher MCC Room
Sample Collected By	: VEL Representative (Rajesh)
Sampling Equipment used	: RDS/FPS
Instrument Code	: VEL/RDS/FPS/01
Instrument Calibration Status	: Calibrated
Meteorological condition during monitoring	: Clear Sky
Date of Monitoring	: 02/03/2023 To 03/03/2023
Time of Monitoring	: 02:00 PM to 02:00 PM
Ambient Temperature (°C)	: Min.16°C, Max.30°C
Surrounding Activity	: Human, Vehicle & Plant Activities
Scope of Monitoring	: Regulatory Requirements
Sampling & Analysis Protocol	: IS: 5182 & CPCB Guidelines
Sampling Duration	: 24.0 Hours
Parameter Required	: As per work order

S.No.	Test Parameters	Test Method	Results	Units	Limits as per CPCB
1	Particulate Matter as (PM2.5)	IS 5182 (P-24)	34.02	µg/m3	60
2	Particulate Matter as (PM10)	IS 5182 (P-23)	71.74	µg/m3	100
3	Nitrogen Dioxide as (NO2)	IS 5182 (P-6)	21.82	µg/m3	80
4	Sulphur Dioxide as (SO2)	IS 5182 (P-2)	10.78	µg/m3	80
5	Ammonia as (NH3)	VEL/ENV/STP/155, Issue No.-1, dated on 20/06/22	BLQ(LOQ-20.0)	µg/m3	400
6	#Ozone as (O3)	IS 5182 (P-9)	18.98	µg/m3	180
7	Benzene as (C6H6)	IS 5182 (P-11)	BLQ(LOQ-0.5)	µg/m3	5
8	Benzo(a)pyrene as (BaP)	IS 5182 (P-12)	BLQ(LOQ-0.5)	ng/m3	1
9	Arsenic as (As)	VEL/ENV/STP/110, Issue No.- 01, Issue date 01/11/2021	BLQ(LOQ-0.1)	ng/m3	6
10	Lead as (Pb)	IS 5182 (P-22)	BLQ(LOQ-0.1)	µg/m3	1
11	Nickel as (Ni)	IS 5182 (P-26)	BLQ(LOQ-5.0)	ng/m3	20



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Test Report

Page No. 2/2

Sample Number : VEL/A/03

Report No. : VEL/A/2303091011

S.No.	Test Parameters	Test Method	Results	Units	Limits as per CPCB
12	#Carbon Monoxide (by NDIR)	IS 5182 (P-10)	0.67	mg/m3	4

Note-# indicates 1 hour monitoring of CO & Ozone.

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

End of Report



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Test Report

Page No. 1/2

Sample Number : VEL/A/04

Name & Address of the Party : M/s J.K Cement Works
Unit of JK Cement Ltd. Village & PO-Gotan, Distt-
Nagaur, Rajasthan.

Report No. : VEL/A/2303091012

Format No : 7.8 F-03

Party Reference No : By Mail

Reporting Date : 15/03/2023

Period of Analysis : 10/03/2023-14/03/2023

Receipt Date : 09/03/2023

ULR No. : TC629923200000751F

Sample Description : Ambient Air

General Information

Sampling Location : Bachelor Hostel
Sample Collected By : VEL Representative (Rajesh)
Sampling Equipment used : RDS/FPS
Instrument Code : VEL/RDS/03 & FPS/06
Instrument Calibration Status : Calibrated
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 02/03/2023 To 03/03/2023
Time of Monitoring : 02:30 PM to 02:30 PM
Ambient Temperature (°C) : Min.16°C, Max.30°C
Surrounding Activity : Human, Vehicle & Plant Activities
Scope of Monitoring : Regulatory Requirements
Sampling & Analysis Protocol : IS: 5182 & CPCB Guidelines
Sampling Duration : 24.0 Hours
Parameter Required : As per work order

S.No.	Test Parameters	Test Method	Results	Units	Limits as per CPCB
1	Particulate Matter as (PM _{2.5})	IS 5182 (P-24)	31.25	µg/m ³	60
2	Particulate Matter as (PM ₁₀)	IS 5182 (P-23)	67.73	µg/m ³	100
3	Nitrogen Dioxide as (NO ₂)	IS 5182 (P-6)	16.53	µg/m ³	80
4	Sulphur Dioxide as (SO ₂)	IS 5182 (P-2)	7.97	µg/m ³	80
5	Ammonia as (NH ₃)	VEL/ENV/STP/155, Issue No.-1, dated on 20/06/22	BLQ(LOQ-20.0)	µg/m ³	400
6	#Ozone as (O ₃)	IS 5182 (P-9)	19.47	µg/m ³	180
7	Benzene as (C ₆ H ₆)	IS 5182 (P-11)	BLQ(LOQ-0.5)	µg/m ³	5
8	Benzo(a)pyrene as (BaP)	IS 5182 (P-12)	BLQ(LOQ-0.5)	ng/m ³	1
9	Arsenic as (As)	VEL/ENV/STP/110, Issue No.- 01, Issue date 01/11/2021	BLQ(LOQ-0.1)	ng/m ³	6
10	Lead as (Pb)	IS 5182 (P-22)	BLQ(LOQ-0.1)	µg/m ³	1
11	Nickel as (Ni)	IS 5182 (P-26)	BLQ(LOQ-5.0)	ng/m ³	20



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VEL/E-03/1/17/PN30545



Test Report

Page No. 2/2

Sample Number : VEL/A/04

Report No. : VEL/A/2303091012

S.No.	Test Parameters	Test Method	Results	Units	Limits as per CPCB
12	#Carbon Monoxide (by NDIR)	IS 5182 (P-10)	0.57	mg/m3	4

Note-# indicates 1 hour monitoring of CO & Ozone.

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

End of Report



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Test Report

Page No. 1/1

Sample Number : VEL/N/01

Name & Address of the Party : M/s J.K Cement Works

Unit of JK Cement Ltd. Village & PO-Gotan, Distt-
Nagaur, Rajasthan.

Report No. : VEL/N/2303091009

Format No : 7.8 F-03

Party Reference No : By Mail

Reporting Date : 15/03/2023

Period of Analysis : 10/03/2023-14/03/2023

Receipt Date : 09/03/2023

ULR No. : TC629923200000752F

Sample Description : AMBIENT NOISE

General Information

Sampling Location : Front of Pump House
Sample Collected By : VEL Representative (Rajesh)
Sampling Equipment used : Sound Level Meter
Instrument Code : VEL/SLM/06
Instrument Calibration Status : Calibrated
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 02/03/2023 To 03/03/2023
Time of Monitoring : 06:00 AM to 06:00 AM
Ambient Temperature (°C) : Min.16°C, Max.30°C
Surrounding Activity : Human, Vehicle & Plant Activities
Scope of Monitoring : Regulatory Requirements
Sampling & Analysis Protocol : CPCB Guidelines & IS:9989
Sampling Duration : 24.0 Hours
Parameter Required : As per work order

S.No.	Parameters	Test Method	Test Results		Units
			Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 6:00 am)	
1	Leq	IS-9989	65.16	54.06	dB (A)
2	CPCB Limits in dB(A*) Leq (Industrial Area)	--	75	70	dB (A)
3	CPCB Limits in dB(A*) Leq (Residential Area)	--	55	45	dB (A)
4	CPCB Limits in dB(A*) Leq (Commercial Area)	--	65	55	dB (A)
5	CPCB Limits in dB(A*) Leq (Silent Zone)	--	50	40	dB (A)

End of Report



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Test Report

Page No. 1/1

Sample Number : VEL/N/02

Name & Address of the Party : M/s J.K Cement Works

Unit of JK Cement Ltd. Village & PO-Gotan, Distt-
Nagaur, Rajasthan.

Report No. : VEL/N/2303091010

Format No : 7.8 F-03

Party Reference No : By Mail

Reporting Date : 15/03/2023

Period of Analysis : 10/03/2023-14/03/2023

Receipt Date : 09/03/2023

ULR No. : TC629923200000753F

Sample Description : AMBIENT NOISE

General Information

Sampling Location	: Front of Weigh Bridge
Sample Collected By	: VEL Representative (Rajesh)
Sampling Equipment used	: Sound Level Meter
Instrument Code	: VEL/SLM/05
Instrument Calibration Status	: Calibrated
Meteorological condition during monitoring	: Clear Sky
Date of Monitoring	: 02/03/2023 To 03/03/2023
Time of Monitoring	: 06:00 AM to 06:00 AM
Ambient Temperature (°C)	: Min.16°C, Max.30°C
Surrounding Activity	: Human, Vehicle & Plant Activities
Scope of Monitoring	: Regulatory Requirements
Sampling & Analysis Protocol	: CPCB Guidelines & IS:9989
Sampling Duration	: 24.0 Hours
Parameter Required	: As per work order

S.No.	Parameters	Test Method	Test Results		Units
			Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 6:00 am)	
1	Leq	IS-9989	61.96	52.87	dB (A)
2	CPCB Limits in dB(A*) Leq (Industrial Area)	--	75	70	dB (A)
3	CPCB Limits in dB(A*) Leq (Residential Area)	--	55	45	dB (A)
4	CPCB Limits in dB(A*) Leq (Commercial Area)	--	65	55	dB (A)
5	CPCB Limits in dB(A*) Leq (Silent Zone)	--	50	40	dB (A)

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Test Report

Page No. 1/1

Sample Number : VEL/N/03

Name & Address of the Party : M/s J.K Cement Works

Unit of JK Cement Ltd. Village & PO-Gotan, Distt-
Nagaur, Rajasthan.

Report No. : VEL/N/2303091011

Format No : 7.8 F-03

Party Reference No : By Mail

Reporting Date : 15/03/2023

Period of Analysis : 10/03/2023-14/03/2023

Receipt Date : 09/03/2023

ULR No. : TC629923200000754F

Sample Description : AMBIENT NOISE

General Information

Sampling Location : Front of Crusher Mcc Room

Sample Collected By : VEL Representative (Rajesh)

Sampling Equipment used : Sound Level Meter

Instrument Code : VEL/SLM/01

Instrument Calibration Status : Calibrated

Meteorological condition during monitoring : Clear Sky

Date of Monitoring : 02/03/2023 To 03/03/2023

Time of Monitoring : 06:00 AM to 06:00 AM

Ambient Temperature (°C) : Min.16°C, Max.30°C

Surrounding Activity : Human, Vehicle & Plant Activities

Scope of Monitoring : Regulatory Requirements

Sampling & Analysis Protocol : CPCB Guidelines & IS:9989

Sampling Duration : 24.0 Hours

Parameter Required : As per work order

S.No.	Parameters	Test Method	Test Results		Units
			Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 6:00 am)	
1	Leq	IS-9989	66.78	48.02	dB (A)
2	CPCB Limits in dB(A*) Leq (Industrial Area)	--	75	70	dB (A)
3	CPCB Limits in dB(A*) Leq (Residential Area)	--	55	45	dB (A)
4	CPCB Limits in dB(A*) Leq (Commercial Area)	--	65	55	dB (A)
5	CPCB Limits in dB(A*) Leq (Silent Zone)	--	50	40	dB (A)

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Test Report

Page No. 1/1

Sample Number : VEL/N/04

Name & Address of the Party : M/s J.K Cement Works
Unit of JK Cement Ltd. Village & PO-Gotan, Distt-
Nagaur, Rajasthan.

Report No. : VEL/N/2303091012

Format No : 7.8 F-03

Party Reference No : By Mail

Reporting Date : 15/03/2023

Period of Analysis : 10/03/2023-14/03/2023

Receipt Date : 09/03/2023

ULR No. : TC629923200000755F

Sample Description : AMBIENT NOISE

General Information

Sampling Location : Bachelor Hostel
Sample Collected By : VEL Representative (Rajesh)
Sampling Equipment used : Sound Level Meter
Instrument Code : VEL/SLM/10
Instrument Calibration Status : Calibrated
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 02/03/2023 To 03/03/2023
Time of Monitoring : 06:00 AM to 06:00 AM
Ambient Temperature (°C) : Min.16°C, Max.30°C
Surrounding Activity : Human, Vehicle & Plant Activities
Scope of Monitoring : Regulatory Requirements
Sampling & Analysis Protocol : CPCB Guidelines & IS:9989
Sampling Duration : 24.0 Hours
Parameter Required : As per work order

S.No.	Parameters	Test Method	Test Results		Units
			Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 6:00 am)	
1	Leq	IS-9989	52.66	41.92	dB (A)
2	CPCB Limits in dB(A*) Leq (Industrial Area)	--	75	70	dB (A)
3	CPCB Limits in dB(A*) Leq (Residential Area)	--	55	45	dB (A)
4	CPCB Limits in dB(A*) Leq (Commercial Area)	--	65	55	dB (A)
5	CPCB Limits in dB(A*) Leq (Silent Zone)	--	50	40	dB (A)

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Test Report

Page No. 1/1

Sample Number : VEL/S/01
Name & Address of the Party : M/s J.K Cement Works
Unit of JK Cement Ltd. Village & PO-Gotan, Distt-
Nagaur, Rajasthan.

Report No. : VEL/S/2303091017
Format No : 7.8 F-03
Party Reference No : By Mail
Reporting Date : 15/03/2023
Period of Analysis : 10/03/2023-14/03/2023
Receipt Date : 09/03/2023
ULR No. : TC629923200000756F

Sample Description : Stack Emission Monitoring

General Information

Sampling Location : DG Set Area
Sample Collected By : VEL Representative (Rajesh)
Date of Sampling : 04/03/2023
Sampling duration (Minutes) : 31.0
Stack attached to : DG Set (350 KVA)
Make of stack : MS
Diameter of stack(m) : 0.15 Mtr.
Height of stack(m) : 45.0 Mtr.
Instrument calibration status : Calibrated
Meteorological Condition : Clear Sky
Ambient Temperature - Ta (°C) : 29.0
Temperature of Stack Gases - Ts (°C) : 136.0
Velocity of Stack Gases (m/sec.) : 10.35
Flow rate of PM (LPM) : 30.0
Flow rate of Gas (LPM) : 2.0
Sampling condition : Isokinetic
Protocol used : IS 11255 & EPA

S.No.	Test Parameters	Test Method	Results	Units	Limits as per CPCB
1	Particulate Matter (as PM)	IS:11255 (P-1)	0.045	gm/kw-hr	<0.2
2	Oxide of Nitrogen (as NOX)	IS:11255 (P-7)	0.816	0.032	<4.0**
3	Total Hydrocarbon (as HC)	VEL/ENV/STP/137, Issue No.-01, Issue Date - 01/11/2021	0.33	gm/kw-hr	**
4	Sulphur Dioxide (as SO2)	IS:11255 (P-2)	0.032	gm/kw-hr	Not Specified
5	Carbon Monoxide (as CO)	VEL/ENV/STP/ST/FGA/01, Issue No. 01 dated on 01/11/2021	0.41	gm/kw-hr	<3.5

**Standard Limits of (NOX+HC)

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Test Report

Page No. 1/1

Sample Number : VEL/S/02
Name & Address of the Party : M/s J.K Cement Works
Unit of JK Cement Ltd. Village & PO-Gotan, Distt-
Nagaur, Rajasthan.

Report No. : VEL/S/2303091018
Format No : 7.8 F-03
Party Reference No : By Mail
Reporting Date : 15/03/2023
Period of Analysis : 09/03/2023-15/03/2023
Receipt Date : 09/03/2023
ULR No. : TC629923200000757F

Sample Description : Stack Emission Monitoring

General Information

Sampling Location : Raw Mill & Kiln ESP
Sample Collected By : VEL Representative (Rajesh)
Date of Sampling : 04/03/2023
Sampling duration (Minutes) : 38.0
Stack attached to : ESP
Make of stack : MS
Diameter of stack(m) : 2.60 Mtr.
Height of stack(m) : 82.0 Mtr.
Instrument calibration status : Calibrated
Meteorological Condition : Clear Sky
Ambient Temperature - Ta (°C) : 29.0
Temperature of Stack Gases - Ts (°C) : 128.0
Velocity of Stack Gases (m/sec.) : 8.12
Flow rate of PM (LPM) : 26.0
Flow rate of Gas (LPM) : --
Sampling condition : Isokinetic
Protocol used : IS 11255 & EPA

S.No.	Test Parameters	Test Method	Results	Units	Limits as per CPCB
1	Particulate Matter (as PM)	IS:11255 (P-1)	18.76	mg/Nm3	30.0
2	Sulphur Dioxide (as SO2)	IS:11255 (P-2)	54.06	mg/Nm3	Not Specified
3	Carbon Monoxide (CO) by *FGA	VEL/ENV/STP/ST/FGA/01, Issue No.- 01, Issue date 01/11/2021	8.78	% V/V	Not Specified
4	Oxide of Nitrogen (as NOX)	IS:11255 (P-7)	534.00	mg/Nm3	Not Specified

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Test Report

Page No. 1/1

Sample Number : VEL/S/03

Name & Address of the Party : M/s J.K Cement Works

Unit of JK Cement Ltd. Village & PO-Gotan, Distt-
Nagaur, Rajasthan.

Sample Description : Stack Emission Monitoring

Report No. : VEL/S/2303091019

Format No : 7.8 F-03

Party Reference No : By Mail

Reporting Date : 15/03/2023

Period of Analysis : 10/03/2023-14/03/2023

Receipt Date : 09/03/2023

ULR No. : TC629923200000758F

General Information

Sampling Location : Greate Cooler
Sample Collected By : VEL Representative (Rajesh)
Date of Sampling : 04/03/2023
Sampling duration (Minutes) : 37.0
Stack attached to : ESP
Make of stack : MS
Diameter of stack(m) : 2.0 Mtr.
Height of stack(m) : 30.0 Mtr.
Instrument calibration status : Calibrated
Meteorological Condition : 0Clear Sky
Ambient Temperature - Ta (°C) : 29.0
Temperature of Stack Gases - Ts (°C) : 110.0
Velocity of Stack Gases (m/sec.) : 8.03
Flow rate of PM (LPM) : 27.0
Flow rate of Gas (LPM) : --
Sampling condition : Isokinetic
Protocol used : IS 11255 & EPA

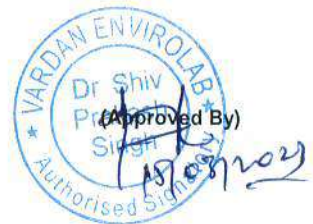
S.No.	Test Parameters	Test Method	Results	Units	Limits as per CPCB
1	Particulate Matter (as PM)	IS:11255 (P-1)	17.82	mg/Nm3	30.0

End of Report



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VEL/E-03/1/1/1/PN30556



Test Report

Page No. 1/1

Sample Number : VEL/S/04

Name & Address of the Party : M/s J.K Cement Works

Unit of JK Cement Ltd. Village & PO-Gotan, Distt-
Nagaur, Rajasthan.

Sample Description : Stack Emission Monitoring

Report No. : VEL/S/2303091020

Format No : 7.8 F-03

Party Reference No : By Mail

Reporting Date : 15/03/2023

Period of Analysis : 10/03/2023-14/03/2023

Receipt Date : 09/03/2023

ULR No. : TC629923200000759F

General Information

Sampling Location : Read Mix Dry Motor Plant (20 TDP)
Sample Collected By : VEL Representative (Rajesh)
Date of Sampling : 04/03/2023
Sampling duration (Minutes) : 37.0
Stack attached to : ESP
Make of stack : MS
Diameter of stack(m) : 0.40 Mtr.
Height of stack(m) : 30.0 Mtr.
Instrument calibration status : Calibrated
Meteorological Condition : Clear Sky
Ambient Temperature - Ta (°C) : 29.0
Temperature of Stack Gases - Ts (°C) : 42.0
Velocity of Stack Gases (m/sec.) : 6.57
Flow rate of PM (LPM) : 27.0
Flow rate of Gas (LPM) : --
Sampling condition : Isokinetic
Protocol used : IS 11255 & EPA

S.No.	Test Parameters	Test Method	Results	Units	Limits as per CPCB
1	Particulate Matter (as PM)	IS:11255 (P-1)	19.81	mg/Nm3	30.0

End of Report



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Test Report

Page No. 1/1

Sample Number : VEL/S/05
Name & Address of the Party : M/s J.K Cement Works
Unit of JK Cement Ltd. Village & PO-Gotan, Distt-
Nagaur, Rajasthan.

Report No. : VEL/S/2303091021
Format No : 7.8 F-03
Party Reference No : By Mail
Reporting Date : 15/03/2023
Period of Analysis : 10/03/2023-14/03/2023
Receipt Date : 09/03/2023
ULR No. : TC629923200000760F

Sample Description : Stack Emission Monitoring

General Information

Sampling Location : Pet Coke/ Coal Mill
Sample Collected By : VEL Representative (Rajesh)
Date of Sampling : 04/03/2023
Sampling duration (Minutes) : 20.0
Stack attached to : ESP
Make of stack : MS
Diameter of stack(m) : 0.85 Mtr.
Height of stack(m) : 41.0 Mtr.
Instrument calibration status : Calibrated
Meteorological Condition : Clear Sky
Ambient Temperature - Ta (°C) : 29.0
Temperature of Stack Gases - Ts (°C) : 65.0
Velocity of Stack Gases (m/sec.) : 13.31
Flow rate of PM (LPM) : 50.0
Flow rate of Gas (LPM) : --
Sampling condition : Isokinetic
Protocol used : IS 11255 & EPA

S.No.	Test Parameters	Test Method	Results	Units	Limits as per CPCB
1	Particulate Matter (as PM)	IS:11255 (P-1)	21.76	mg/Nm3	30.0

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(Approved By)
11/03/2023





Test Report

Page No. 1/1

Sample Number : VEL/S/06

Name & Address of the Party : M/s J.K Cement Works
Unit of JK Cement Ltd. Village & PO-Gotan, Distt-
Nagaur, Rajasthan.

Report No. : VEL/S/2303091022

Format No : 7.8 F-03

Party Reference No : By Mail

Reporting Date : 15/03/2023

Period of Analysis : 10/03/2023-14/03/2023

Receipt Date : 09/03/2023

ULR No. : TC629923200000761F

Sample Description : Stack Emission Monitoring

General Information

Sampling Location : Lime Stone Crusher
Sample Collected By : VEL Representative (Rajesh)
Date of Sampling : 04/03/2023
Sampling duration (Minutes) : 24.0
Stack attached to : ESP
Make of stack : MS
Diameter of stack(m) : 0.80 Mtr.
Height of stack(m) : 30.0 Mtr.
Instrument calibration status : Calibrated
Meteorological Condition : Clear Sky
Ambient Temperature - Ta (°C) : 29.0
Temperature of Stack Gases - Ts (°C) : 50.0
Velocity of Stack Gases (m/sec.) : 10.61
Flow rate of PM (LPM) : 42.0
Flow rate of Gas (LPM) : --
Sampling condition : Isokinetic
Protocol used : IS 11255 & EPA

S.No.	Test Parameters	Test Method	Results	Units	Limits as per CPCB
1	Particulate Matter (as PM)	IS:11255 (P-1)	22.11	mg/Nm3	30.0

End of Report



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Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Hr)
ISO 9001 | ISO 14001 | ISO 45001



Test Report

Page No. 1/2

Sample Number : VEL/WW/01

Name & Address of the Party : M/s J.K Cement Works

Unit of JK Cement Ltd. Village & PO-Gotan, Distt-
Nagaur, Rajasthan.

Report No. : VEL/WW/2303091003

Format No : 7.8 F-03

Party Reference No : By Mail

Reporting Date : 13/03/2023

Period of Analysis : 09/03/2023-13/03/2023

Receipt Date : 09/03/2023

Sampling Date : 04/03/2023

Sampling Quantity : 2.0 Ltrs.+250 ml

Sampling Type : Grab

Sample Description : Waste Water (STP Outlet)

Location : STP Treated Water 300 KLD

Sample Collected By : VEL Representative (Mr. Rajesh)

Environmental Condition : OK

Parameter Required : As per work order

Analysis Protocol : APHA & IS

ULR No. : TC629923200000741F

S.No.	Test Parameters	Test Method	Result	Unit	Limits as Per EPA (Sche.-VI)		
					Inland Surface Water	Public Sewers	Land for Irrigation
1	pH at 25°C	IS:3025 (p-11)	7.35	--	5.5 - 9.0	5.5 - 9.0	5.5 - 9.0
2	Total Suspended Solids(TSS), max.	IS: 3025 (P-17)	8.60	mg/L	100.0	600.0	200.0
3	Oil & Grease, Max.	Clause No-5 of IS:3025 (P-39)	0.80	mg/L	10.0	20.0	10.0
4	Ammonical Nitrogen (as N) max.	IS: 3025 (P - 34)	0.71	mg/L	50.0	50.0	--
5	Total Kjeldahl Nitrogen max.	IS: 3025 (P - 34)	1.21	mg/L	100.0	--	--
6	Biological Oxygen Demand, Max.	IS 3025 (Part-44)	14.00	mg/L	30.0	350.0	100.0
7	COD, Max.	APHA, 5220 B Open Reflux	32.96	mg/L	250.0	--	--
8	Chloride. max.	IS 3025 : (Part- 32)	32.50	mg/L	--	--	--
9	Sulphide as H ₂ S, Max	IS:3025(P-29)	BLQ(LOQ-0.02)	mg/L	2.0	--	--



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Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Hr)
ISO 9001 | ISO 14001 | ISO 45001



Test Report

Page No. 2/2

Sample Number : VEL/WW/01

Report No. : VEL/WW/2303091003

S.No.	Test Parameters	Test Method	Result	Unit	Limits as Per EPA (Sche.-VI)		
					Inland Surface Water	Public Sewers	Land for Irrigation
10	Faecal coliform	APHA, 23rd Edition, 9221 E	<1.8	MPN/100 ml	-	--	--

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

End of Report

(Checked By)

SATYA DEV
Dy. Technical Manager-Micro

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Test Report

Page No. 1/1

Sample Number : VEL/WW/01

Name & Address of the Party : M/s J.K Cement Works

Unit of JK Cement Ltd. Village & PO-Gotan, Distt-
Nagaur, Rajasthan.

Sample Description : Waste Water (STP Outlet)

Location : STP Treated Water 300 KLD

Sample Collected By : VEL Representative (Mr. Rajesh)

Environmental Condition : OK

Parameter Required : As per work order

Analysis Protocol : APHA & IS

Report No. : VEL/WW/2303091003/N

Format No : 7.8 F-03

Party Reference No : By Mail

Reporting Date : 13/03/2023

Period of Analysis : 09/03/2023-13/03/2023

Receipt Date : 09/03/2023

Sampling Date : 04/03/2023

Sampling Quantity : 2.0 Ltrs.+250 ml

Sampling Type : Grab

S.No.	Test Parameters	Test Method	Result	Unit	Limits as Per EPA (Sche.-VI)		
					Inland Surface Water	Public Sewers	Land for Irrigation
1	Temperature Difference between Intake & Outflow	IS: 3025 (P-9)	2.1	°C	--	--	--
2	Residual Free Chlorine	IS:3025 (P-26)	BLQ(LOQ-0.15)	mg/L	--	--	--

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

End of Report

(Checked By)

(Approved By)



VEL/P-04/1/TR/PN4170

M/s JK Cement Works, Gotan

PLANT	ID	EMPL_NAM	DV/L	DV/R	NV/L	NV/R	HT (IN CMS)	WT (IN KG)	B/G	ECG	AUDIOMETRY	SPIROMETRY
JKC	5100032	Aditya Kumar	6/6	6/6	N-6	N-6	174	79.8	AB-VE	NORMAL	NORMAL	MILD REST
JKC	13001495	AMIT TAK	6/6	6/6	N-6	N-6	169	88.5	O-VE	NORMAL	NORMAL	NORMAL
JKC	5100038	Anand Kumar Soni	6/6 C GLS	6/6 C GLS	N-6 C GLS	N-6 C GLS	175	79	O+VE	NORMAL	NORMAL	NORMAL
JKC	5100059	Andhan Kumar	6/6	6/6	N-6	N-6	176	85	O+VE	NORMAL	NORMAL	NORMAL
JKC	5100060	Anil Kumar	6/6GLS	6/6 GLS	N-6 GLS	N-6 GLS	167	81	B+VE	NORMAL	NORMAL	NORMAL
JKC	5100015	Anirudh Bhan Ojha	6/6	6/6	N-6	N-6	178	95.5	O -VE	NORMAL	NORMAL	NORMAL
JKC	5100086	ANKIT AGARWAL	6/6	6/6	N-6	N-6	171	63.6	B+VE	NORMAL	NORMAL	NORMAL
JKC	13002327	ASHISH GOEL	6/6	6/6	N-6	N-6	171	68	O+VE	NORMAL	NORMAL	NORMAL
JKC	5100012	Ashok Kumar Chhaparwal	6/6	6/6	N-6	N-6	170	93.20	O+VE	NORMAL	NORMAL	NORMAL
JKC	5100075	ASHUTOSH MOHAN SHARMA	6/6	6/6	N-6	N-6	184	84.4	O+VE	NORMAL	NORMAL	NORMAL
JKC	5100069	Bal Mukund Sen	6/6	6/6	N-6	N-6	167	89.6	O +VE	NORMAL	NORMAL	NORMAL
JKC	5200006	Bhanwar Puri	6/6	6/6	N-6 GLS	N-6 GLS	172	61.6	B+VE	NORMAL	NORMAL	MILD REST
JKC	5100049	Bhawani Lal Dhakar	6/6	6/6	N-6	N-6	172	68.5	AB+VE	NORMAL	NORMAL	MILD REST
JKC	5100095	BHERU LAL DANGI	6/6 CGLASS	6/6 CGLASS	N-6 CGLASS	N-6 CGLASS	164	56	O+VE	NORMAL	NORMAL	NORMAL
JKC	5100056	Bhupendra Prasad Sharma	6/6	6/6	N-6	N-6	163	67	B+VE	NORMAL	NORMAL	NORMAL
JKC	5100070	DALIP SHARMA	6/6	6/6	N-6	N-6	168	71	A+VE	NORMAL	NORMAL	NORMAL
JKC	5200024	Dashrath Singh	6/6 C GLASS	6/6 C GLASS	N-6 C GLASS	N-6 C GLASS	160	71	B+VE	NORMAL	NORMAL	NORMAL
JKC	5100025	Deepak Deora	6/6	6/6	N-6	N-6	175	80	A+VE	NORMAL	NORMAL	NORMAL
JKC	5100001	Deepak Gandhi	6/9	6/6	N-6	N-8	170	72.8	O+VE	NORMAL	NORMAL	NORMAL
JKC	5200001	Dharamraj Chouhan	6/6 GLS	6/6 GLS	N-8 GLS	N-8 GLS	167	90.6	O-VE	NORMAL	NORMAL	NORMAL
JKC	5100052	Dharmesh Sharma	6/6	6/6	N-6	N-6	164	63	B+VE	NORMAL	NORMAL	NORMAL
JKC	5100031	Dileep Singh	6/6	6/6	N-8	N-8	167	79	AB+VE	NORMAL	NORMAL	NORMAL
JKC	5100081	Dilip Bharadiya	6/6	6/6	N-6	N-6	173	94	B+VE	NORMAL	NORMAL	NORMAL
JKC	5100006	DINESH KUMAR JANGID	6/6	6/6	N-6	N-6	171	88	B+VE	NORMAL	NORMAL	NORMAL
JKC	5200008	Fef Singh Rathore	6/6 C GLASS	6/6 C GLASS	N-8 C GLASS	N-8 C GLASS	181	69	A+VE	NORMAL	NORMAL	MILD REST
JKC	5200009	Ganpat Singh	6/9 CGLASS	6/9 CGLASS	N-6 CGLASS	N-6 CGLASS	167	70	A+VE	NORMAL	NORMAL	NORMAL
JKC	5200028	Gopal Jangid	6/6 CGLASS	6/6 CGLASS	N-6 CGLASS	N-6 CGLASS	165	73	B+VE	NORMAL	ML BE	NORMAL
JKC	5100097	Gopal Lal Sharma	6/6 GLS	6/6 GLS	N-6 GLS	N-6 GLS	171	66	O+VE	NORMAL	NORMAL	NORMAL

JKC	5200038	Govind Sharma	6/9 CGLASS	6/9 C GLASS	N-6 CGLASS	N-6 CGLASS	173	84	O+VE	NORMAL	ML BE	NORMAL
JKC	5200010	Hari Singh	6/6	6/6	N-6	N-6	172	71	A+VE	NORMAL	ML BE	MILD REST
JKC	5100083	HEMANT PAREEK	6/6	6/6	N-6	N-6	173	68.7	O+VE	NORMAL	NORMAL	NORMAL
JKC	5100041	Inder Singh Rao	6/9 CGLASS	6/9 CGLASS	N-6 CGLASS	N-6 CGLASS	176	69.5	O+VE	NORMAL	NORMAL	NORMAL
JKC	5200011	Jagdish Sharma	6/9 CGLASS	6/9 CGLASS	N-6 GLS	N-6 GLS	169	62	B+VE	NORMAL	NORMAL	MILD REST
JKC	5200013	Kailash Chandra Sikhwal	6/9 CGLASS	6/9 CGLASS	N-6	N-6	174	90	B+VE	NORMAL	ML BE	NORMAL
JKC	5200014	Kalu Ram Sharma	6/9 CGLASS	6/9 CGLASS	N-8	N-8	177	70	O+VE	NORMAL	ML BE	NORMAL
JKC	5100084	KAMLESH CHOUDHARY	6/6	6/6	N-6	N-6	171	85.6	A-VE	NORMAL	NORMAL	NORMAL
JKC	5100026	Kedar Mal Kurmi	6/6	6/6	N-6	N-6	181	100	O+VE	NORMAL	NORMAL	NORMAL
JKC	5100019	Kishore Singh	6/6	6/6	N-6	N-6	170	64	O+VE	NORMAL	NORMAL	NORMAL
JKC	9000030	Kistur Bhukar	6/6	6/6	N-6	N-6	168	68	O+VE	NORMAL	NORMAL	NORMAL
JKC	5100055	Kuldeep Singh	6/6 C GLS	6/6 C GLS	N-6 C GLS	N-6 C GLS	175	95.5	O+VE	NORMAL	NORMAL	NORMAL
JKC	5100094	Mahavir Gusai	6/6 C GLS	6/9 C GLS	N-6 C GLS	N-6 C GLS	159	54	O+VE	NORMAL	NORMAL	NORMAL
JKC	5100007	Manish Jain	6/6	6/6	N-6	N-6	169	72	B+VE	NORMAL	ML BE	NORMAL
JKC	5100096	Mohit Tiwari	6/6 C GLS	6/6 C GLS	N-6	N-6	179	80	B-VE	NORMAL	NORMAL	NORMAL
JKC	5200030	Naresh Kumar Rathi	6/6	6/6	N-6	N-6	181	86	O-VE	NORMAL	NORMAL	MILD REST
JKC	5200017	Navin Kumar	6/6 CGLASS	6/6 CGLASS	N-6 CGLASS	N-6 CGLASS	165	58	O+VE	NORMAL	NORMAL	MILD REST
JKC	5100016	Niranjain Jain	6/6 GLS	6/6 GLS	N-6	N-6	161	56	AB+VE	NORMAL	NORMAL	NORMAL
JKC	5100029	Pankaj Bhandari	6/6	6/6	N-6	N-6	182	98	B+VE	NORMAL	NORMAL	NORMAL
JKC	5100068	Pankaj Goutam	6/6 GLS	6/6 GLS	N-6	N-6	179	87.3	B+VE	NORMAL	NORMAL	NORMAL
JKC	5200045	PARMESHVAR LAL	6/6	6/6	N-6	N-6	176	75	O +VE	NORMAL	NORMAL	NORMAL
JKC	5100005	Pradeep Mundel	6/6	6/6	N-6	N-6	183	74.9	O+VE	NORMAL	NORMAL	NORMAL
JKC	5100036	Pradhan Singh Chouhan	6/6 CGLASS	6/6 CGLASS	N-6 CGLASS	N-6 CGLASS	170	91	O+VE	NORMAL	ML BE	NORMAL
JKC	5200018	Prahlad Ram Godara	6/6	6/6	N-6	N-6	172	63	O+VE	NORMAL	NORMAL	NORMAL
JKC	5100014	Prakash Kumar Saini	6/6 C GLS	6/6 C GLS	N -6 C GLS	N -6 C GLS	171	72	AB+VE	NORMAL	NORMAL	NORMAL
JKC	5200023	Raghuveer Singh Sekhawar	6/6	6/6	N-6 C GLASS	N-6 C GLASS	168	83	AB +VE	NORMAL	NORMAL	NORMAL

JKC	5100035	Rahul Agarwal	6/6	6/6	N-8	N-8	158	75	B+VE	NORMAL	ML BE	NORMAL
JKC	13002344	Rahul Gupta	6/6	6/6	N-6	N-6	176	71	AB+VE	NORMAL	NORMAL	NORMAL
JKC	5100017	Rajeev Rai	6/6	6/6	N-6	N-6	157	57	B+VE	NORMAL	NORMAL	NORMAL
JKC	5100011	RAJESH KUMAR RATHORE	6/6 C GLS	6/6 C GLS	N-6	N-6	184	79.5	O+VE	NORMAL	NORMAL	NORMAL
JKC	5100093	RAKESH KUMAR ARYA	6/6 GLS	6/6 GLS	N-6	N-6	165	71	B+VE	NORMAL	NORMAL	NORMAL
JKC	5200037	Ram Avtar	6/6	6/6	N-6	N-6	172	85	O +VE	NORMAL	ML BE	NORMAL
JKC	5200026	Ram Jeevan Choudhary	6/6 GLS	6/6 GLS	N-6 GLS	N-6 GLS	172	73.8	A+VE	NORMAL	NORMAL	MILD REST
JKC	5200035	Ram Lal Prajapat	6/6 C GLASS	6/6 C GLASS	N-6 C GLASS	N-6 C GLASS	162	89	O+VE	NORMAL	NORMAL	MILD REST
JKC	5200019	Ram Lal Prajapat	6/9 GLS	6/9 GLS	N-8 GLS	N-8 GLS	170	82	B+VE	NORMAL	ML RE	NORMAL
JKC	5200027	Ram Lal Prajapat	6/6	6/6	N-6 CGLASS	N-6 CGLASS	177	102	B+VE	NORMAL	ML BE	MILD REST
JKC	5100040	Ram Niwas	6/6 C GLS	6/6 C GLS	N-6 C GLS	N-6 C GLS	172	84	B+VE	NORMAL	NORMAL	NORMAL
JKC	5200036	RAM PRASAD SHARMA	6/6	6/6	N-6 C GLS	N-6 C GLS	167	74	B+VE	NORMAL	NORMAL	NORMAL
JKC	5100020	Ram Raj Beda	6/6	6/6	N-6	N-6	170	71	B+VE	NORMAL	NORMAL	NORMAL
JKC	5200002	Ramesh Chand Sharma	6/6 GLS	6/6 GLS	N-6 GLS	N-6 GLS	152	45.5	O+VE	NORMAL	NORMAL	MILD REST
JKC	13001538	RAMESH PATWAL	6/6	6/6	N-6 GLS	N-6 GLS	176	77.6	A+VE	NORMAL	NORMAL	MILD REST
JKC	5200021	Rameshwar Lal Sain	6/9	6/9	N-6 C GLASS	N-6 C GLASS	159	61	O-VE	NORMAL	NORMAL	NORMAL
JKC	5200022	Ranu Singh	6/9	6/9	N-6 C GLASS	N-6 C GLASS	170	62	O+VE	NORMAL	ML BE	MILD REST
JKC	5100065	Ravi Khandelwal	6/6	6/6	N-6	N-6	163	68	O+VE	NORMAL	NORMAL	MILD REST
JKC	5200020	Rekha Ram Prajapat	6//6 C GLASS	6/6 C GLASS	N-6 C GLASS	N-6 C GLASS	168	102	O+VE	NORMAL	NORMAL	NORMAL
JKC	5100003	Rohit Panpalia	6/6	6/6	N-6	N-6	166	85.6	B+VE	NORMAL	NORMAL	NORMAL
JKC	5100087	ROHIT SINGH RATHORE	6/6 CGLASS	6/6CGLASS	N-6 CGLASS	N-6 CGLASS	171	64	A+VE	NORMAL	NORMAL	NORMAL
JKC	5100028	Sahdev Singh Rathore	6/6 C GLS	6/6 C GLS	N-6 C GLS	N-6 C GLS	176	89	O+VE	NORMAL	NORMAL	NORMAL
JKC	5100066	SANJAY KUMAR CHOUDHARY	6/6	6/6	N-6	N-6	181	75	A+VE	NORMAL	NORMAL	NORMAL
JKC	5100085	SANJAY KUMAR DUBE	6/6	6/6	N-6	N-6	176	90	A+VE	NORMAL	NORMAL	NORMAL
JKC	5100045	Sanjay Kumar Sharma	6/6	6/6	N-6	N-6	176	74	A+VE	NORMAL	NORMAL	NORMAL
JKC	5100009	SANJAY MUWAL	6/6 C GLS	6/6 C GLS	N-6	N-6	182	72	AB+VE	NORMAL	NORMAL	NORMAL
JKC	5100008	Sanjeev Mundel	6/6	6/6	N-6	N-6	175	74.8	A+VE	NORMAL	NORMAL	NORMAL
JKC	13002324	SATENDRA KUMAR NAMDEV	6/6	6/6	N-6	N-6	168	79	A+VE	NORMAL	NORMAL	MILD REST

JKC	5100074	SAURABH KATIYAR	6/6 GLS	6/6 GLS	N-6 GLS	N-6 GLS	169	91	O+VE	NORMAL	NORMAL	NORMAL
JKC	5200046	SHAITAN SINGH RAJPUT	6/6	6/6	N-6	N-6	172	84	A +VE	NORMAL	NORMAL	NORMAL
JKC	13002419	SHUBHAM ARORA	6/6	6/6	N-6	N-6	171	90	O+VE	NORMAL	NORMAL	NORMAL
JKC	5100078	Shubham Srivastava	6/6 C GLS	6/6 C GLS	N-6 C GLS	N-6 C GLS	176	99.7	B+VE	NORMAL	NORMAL	NORMAL
JKC	5200004	SRAWAN KUMAR BENIWAL	6/6	6/6	N-6	N-6	168	61	O+ VE	NORMAL	NORMAL	NORMAL
JKC	5100071	SUDHIR KUMAR LIMBA	6/6 CGLASS	6/6 CGLASS	N-6 CGLASS	N-6 CGLASS	164	63.7	B+VE	NORMAL	NORMAL	NORMAL
JKC	5100090	SURENDER SINGH SHAKTAWAT	6/6	6/6	N-6	N-6	181	76	A -VE	NORMAL	NORMAL	NORMAL
JKC	5100048	SURENDRA SONI	6/6	6/6	N-6	N-6	178	62	O+VE	NORMAL	NORMAL	NORMAL
JKC	5200042	Tarun Kumar Chippa	6/6	6/6	N-6	N-6	177	77	A+VE	NORMAL	NORMAL	MILD REST
JKC	5200039	Teja Ram Devasi	6/6	6/6	N-6 GLS	N-6 GLS	166	75	A-VE	NORMAL	NORMAL	NORMAL
JKC	5100073	UMA SHANKAR MEHTA	6/9 C GLASS	6/9 C GLASS	N-6 C GLASS	N-6 C GLASS	164	69	B+VE	NORMAL	NORMAL	NORMAL
JKC	5100058	Vikas Paliwal	6/6	6/6	N-6	N-6	1176	84.5	B+VE	NORMAL	NORMAL	NORMAL