



JK Cement Works, Panna
(Formerly known as Jaykaycem (Central) Ltd. now amalgamated)
A Unit of JK Cement Ltd.
CIN: L17229UP1994PLC017199
🏠 Village - Harduaken, Tehsil - Amanganj
District - Panna, State - Madhya Pradesh, India - 488 441
☎ 9329141591 📧 jkc.panna@jkcement.com
🌐 www.jkcement.com

Ref: JK/CTO-(PLANT)/2025-26/19/08

Date- 27.09.2025

To,
The Member Secretary,
MP Pollution Control Board,
Paryawaran Parisar, E-5, Arera Colony,
Bhopal (MP).

Subject: **Environment Statement Report (Form-V) for FY. 2024-25 of M/s J K Cement Limited, Plot No. Various Khasra at Village - Devra, Harduaken, Puraina, Sotipura, Maddayan, Amanganj-Hatta Road, Tehsil: Amanganj, Distt: Panna (M.P.) – 488441.**

Ref. No.: 1. Environment Clearance vide letter no. IA-J-11011/224/2016-IA-II(I) dated 02.03.2022.
2. Consent No: AWH-56455, Valid up to - (Air/Water) – 30.06.2025, (Hazardous) - 30.06.2027.


Dear sir,

With reference to aforesaid subject, please find herewith enclosed Environment Statement Report (Form-V) for **FY.2024-25** of M/s J K Cement Limited, Plot No. Various Khasra at Village - Devra, Harduaken, Puraina, Sotipura, Maddayan, Amanganj-Hatta Road, Tehsil: Amanganj, Distt: Panna (M.P.) – 488441.

This is for your kind information and record, please.

Thanking you.
Yours faithfully,

For J K Cement Limited, Panna


Kapil Agrawal
(Unit Head)
Encl: As above

CC: 1- The Regional Office (WZ), MoEF&CC, Kendriya Paryavaran Bhawan, Bhopal – 462 016
2- Regional Officer, Regional Office, MP Pollution Control Board, Makronia, Sagar (MP)



Corporate Office
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CIN: L17229UP1994PLC017199

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Jharti (Haryana) | Katni, Panna, Ujjain (M.P.) | Prayagraj, Aligarh,
Hamirpur (U.P.) | Balasinor (Gujarat) | Fujairah

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

FORM – V**ENVIRONMENTAL STATEMENT REPORT FOR THE FINANCIAL YEAR 2024-25****PART – A**

(I)	Name & Address of the Owner / Occupier of the Industry Operation or Process	Mr. Kapil Agrawal (Unit Head) J K Cement Limited, Panna Village-Devra, Harduaken, Puraina, Sotipura, Maddayan,, Tehsil- Amanganj (Old Pawai), Distt. Panna-488441 (M.P.)
(II)	Industry Category Primary (STC CODE) Secondary (SIC CODE)	Large Scale Red Category
(III)	Production Capacity	3.0 MTPA (Cement), 3.30 MTPA (Clinker), WHRS (25 MW) and DG (1750 KVA)
(IV)	Year of Establishment	Year 2022
(V)	Date of last Environmental Statement Submitted	13.09.2024

PART – B**Water & Raw Material Consumption and Cement Production****A. Water**

- (i) Over All Consumption - N.A. (As plant is based on dry Process Technology)
(ii) Process - NIL
(iii) Cooling and WHRS - **419458 KL** (Cement Plant) & **39286 KL** (WHRS Plant)
(iv) Domestic - **21496 KL**

Consumption per unit of production

Name of the Product	Process Water Consumption per unit of Product Output	
	During the Previous Financial Year (2023-24)	During the Current Financial Year (2024-25)
Cement and Clinker (KL/MT Cement)	0.190	0.199
WHRS (KL/MW Power Production)	0.790	0.389

B. Raw Material Consumption in Cement production

Name of the Raw Material	Name of Product	Consumption of Raw Material per Unit Product Output (MT/MT of Cement)	
		During the Previous Financial Year (2023-24)	During the Current Financial Year (2024-25)
Lime Stone	Cement & Clinker	1.235	1.061
Coal		0.087	0.078
Pet coke		0.029	0.016
Gypsum		0.072	0.036
Flyash		0.325	0.323
Iron ore/ Laterite/Red Ochre/Red Mud		0.057	0.030
Alternate Fuel		0.004	0.010
Alternate Raw material and performance improver		0.081	--

C. Total Cement and Clinker Production (MT):

Product	During the Previous Financial Year (2023-24)	During the Current Financial Year (2024-25)
OPC	850886	905628
PPC	1070600	1191136
Other blended cement	0	14394
Clinker	23,94,022	27,98,570

D. Total Power Production from WHRS (KWH)/ DG set (KWH)

Product	During the Previous Financial Year (2023-24)	During the Current Financial Year (2024-25)
WHRs (Power Production)	70,301,100	10,10,67,700
DG set (Power Production)	11072	9712

E. Total Power consumption in Cement Plant (KWH/ Ton of Cement)

During the Previous Financial Year (2023-24)	During the Current Financial Year (2024-25)
69.03	64.07

F. Total Power consumption in WHRS Plant (KWH/ KWH of Power production)

During the Previous Financial Year (2023-24)	During the Current Financial Year (2024-25)
0.034	0.033

PART - C**Pollutant Discharged to Environment / Unit of Output**

(Parameters as specified in the consent issued)

S. No.	Pollutants	Quantity of Pollutants Discharged (Mass / day) (tonne/day)	Concentrations of Pollutants in discharged (Mass / Volume) (kg/m ³)	Percentage of variation from prescribed standard with reasons
(a)	Water	1. As plant is operated on dry process technology, no liquid effluent is generated from cement plant. 2. Domestic waste water generated from office toilet and canteen is being treated with STP and treated water is being used in green belt development in plant premises. 3. Treated Effluent water from WHRS is being used in Cement Plant Process hence Zero Liquid Discharge (ZLD) maintained. 4. Please refer Water consumption and waste water generation report as Annexure I , STP treated water analysis report as Annexure II and Drinking water analysis report as Annexure III .		
(b)	Air	Please refer Ambient Air Quality Monitoring Reports as Annexure IV , Stack emission monitoring report as Annexure V , Fugitive emission monitoring report as Annexure VI and Noise Monitoring reports as Annexure VII .		

PART – D

(As specified under Hazardous waste / Management and Handling rules, 1989 as Amended -2016)

Hazardous waste generated will be stored in a dedicated area and will be disposed through registered recycler. During **FY: 2024-25** HW generation and disposed details is given below.

Hazardous waste		Total Quantity sold to recycler	
		During the Previous Financial Year (2023-24) in MT	During the Current Financial Year (2024-25) in MT
	(a) Category 35.4 Oil and Grease, Skimming	00	00
	(b) Category 33.1 Empty Barrels /Containers/ Liners Contaminated with Hazardous Chemicals /Wastes	00	00
	(c) Category 33.2 Contaminated Cotton Rags or Other Cleaning Materials	00	00
	(d) Sludge And Filters Contaminated with Oil	00	00
	(e) Category 5.2 Wastes Or Residues Containing Oil	4.392	4.304
	(f) Category 1.7 Oil from Waste Water Treatment	00	00
	(g) Category 4.1 Oily Sludge or Emulsion	00	00
	(h) Category 35.2 Spent Ion Exchange Resin Containing Toxic Metals	00	00
	(i) Category 5.1 Used or Spent Oil	2.130	13.538
From Pollution Control Facilities	Nil	00	00

Note- Used or Spent Oil HW Category (5.1)- **13.538 MT** & (5.2)- **4.304 MT** sent to register recycler **M/s Jaital Chemicals Pvt. Ltd, M/s Aadi Chemtrade Pvt.Ltd, & M/s Prateek Enterprises.**

Co processing of HW Waste in FY 2024-25 –

Sl. No.	Type of hazardous waste as per Authorization	Authorized category of Waste	Quantity in stock at the beginning of the year 01.04.2024	Quantity of waste received during the FY: 2024-25	Quantity or co-processed or used during the FY: 2024-25	Quantity in storage at the end of the year 31.03.2025
1	Gypsum/Process residues-	I-38.1	0.0	0.0	0.0	0.0
2	Chemical sludge from waste water treatment / ETP Sludge	I-35.3	0.0	2042.358	1684.1	358.258
3	Spent solvent	I-21.2	0.0	0.0	0.0	0.0
4	Spent catalyst	I-26.5	0.0	0.0	0.0	0.0

5	Any process or distillation residue	I - 36.1	0.0	0.0	0.0	0.0
6	Spent Carbon or filter medium	I - 36.2	0.0	0.0	0.0	0.0
7	Process Residue and wastes	I - 28.1	0.0	0.0	0.0	0.0
8	Spent carbon	I - 28.3	0.0	0.0	0.0	0.0
9	Date-expired products	I - 28.5	0.0	0.0	0.0	0.0
10	Spent catalysts	I - 22.1	0.0	0.0	0.0	0.0
11	Process Waste Sludge/Residues Containing Acid, Toxic Metals, Organi	I - 26.1	184.4	2010.915	2195.315	0.0
12	Chemical Gypsum	I - 26.1	0.0	0.0	0.0	0.0
13	Distillation Residues	I - 20.3	0.0	0.0	0.0	0.0
14	Process Wastes, Residues and Sludges	I- 21.1	0.0	0.0	0.0	0.0
15	Spent Catalyst	I -28.2	0.0	0.0	0.0	0.0
16	Off Specification Products	I -28.4	0.0	0.0	0.0	0.0
17	Spent Solvent	I -28.6	0.0	0.0	0.0	0.0
18	Process residues	I -22.2	0.0	0.0	0.0	0.0
19	Spent solvent	I -26.4	0.0	0.0	0.0	0.0
20	Process Wastes, residues and Sludges	I -21.1	0.0	0.0	0.0	0.0
21	Carbon residue	I -18.2	0.0	0.0	0.0	0.0
22	Waste Mix liquid	Other Hazardous Waste	0.0	0.0	0.0	0.0

Co processing of Non- HW Waste in FY 2024-25 –

S.No.	Non-Hazardous waste	Quantity in stock at the beginning of the year 01.04.2024	Quantity of waste received during the FY: 2024-25	Quantity recycled or co-processed or used during the FY: 2024-25	Quantity in storage at the end of the year 31.03.2025
1	Agro waste/Biomass	0.00	0.00	0.00	0.00
2	FMCG	0.00	0.00	0.00	0.00
3	Municipal Solid Waste	0.00	0.00	0.00	0.00
4	Plastic waste	38.75	0.00	38.75	0.00
5	RDF	7469.649	32133.08	37597.81	2004.92
6	Slag	0.00	0.00	0.00	0.00
7	Bagasse	0.00	0.00	0.00	0.00
8	Blast furnace flue dust/Blast furnace sludge	0.00	0.00	0.00	0.00
9	Bottom ash	0.00	6685.56	3532.22	3153.34
10	Carbide lime sludge	0.00	0.00	0.00	0.00
11	Carbon black	0.00	0.00	0.00	0.00
12	Carbon Residue	0.00	0.00	0.00	0.00
13	Copper slag/Blast furnace	0.00	0.00	0.00	0.00

14	Dolochar	0.00	95.84	95.84	0.00
15	Dry food waste	0.00	0.00	0.00	0.00
16	Fly ash	2184.44	385483.12	386693.05	974.51
17	GCB dust	0.00	0.00	0.00	0.00
18	Iron sludge	0.00	0.00	0.00	0.00
19	Jarosite	0.00	0.00	0.00	0.00
20	leather waste	0.00	0.00	0.00	0.00
21	Pyrolysis Oil	6.999	301.848	298.033	10.81
22	Red mud	282.90	0.00	282.90	0.00
23	Rice husk	18.888	0.00	18.888	0.00
24	Rubber waste	0.00	0.00	0.00	0.00
25	STP sludge	0.00	0.00	0.00	0.00
26	Textile Waste	0.00	0.00	0.00	0.00
27	Tyre chips	0.00	0.00	0.00	0.00
28	Waste Liquid blend and solid blend (Iron Sludge)	0.00	0.00	0.00	0.00
29	Non-Hazardous Gypsum (New)	0.00	580.192	580.192	0.00
30	Thermoset Plastic (New)	0.00	0.00	0.00	0.00

Quantity of E-Waste under E-Waste (Management) Rule 2016 -

S.No.	E-Waste Name	E-Waste quantity in stock at the beginning of the year 01.04.2024	E-Waste quantity generated during the FY: 2024-25	E-Waste quantity sold out to recycler during the FY: 2024-25	E-Waste quantity in storage at the end of the year 31.03.2025
1	E-Scrap	0.00	0.00	0.00	0.00

The Batteries (Management and Handling) Rules, 2001 –

In FY 2024-25, we have purchased **260 nos.**(Approx-5.91 MT) batteries and **185 nos** battery waste sale in buy back system during in FY 2024-25.

PART – E
Solid Wastes

Solid Waste		Total Quantity	
		During the Previous Financial Year (2023-24)	During the Current Financial Year (2024-25)
(a)	From Process (Cement Plant)	Nil	Nil
(b)	From Pollution Control facilities	Dust Collected in ESP and Bag houses are recycled back into the process.	Dust Collected in ESP and Bag houses are recycled back into the process.
(c)	(i) Qty. recycled or reused Within the unit.	Dust collected in APCD is 100% utilized in cement manufacturing	Dust collected in APCD is 100% utilized in cement manufacturing
	(ii) Sold	Nil	Nil
	(iii) Disposed	Nil	Nil

PART – F

PLEASE SPECIFY THE CHARACTERISATIONS (IN TERMS OF COMPOSITION AND QUANTUM) OF HAZARDOUS AS WELL AS SOLID WASTES AND INDICATE DISPOSAL PRACTICE ADOPTED FOR BOTH THE CATEGORIES OF WASTES.

Hazardous waste: Hazardous waste generated in the form of used/spent oil (Cat. 5.1) & Wastes or Residues Containing Oil (Cat. 5.2) which are being stored in barrel at safe and dedicated area and sold to authorized recycler of MPPCB.

Solid waste: Dust collected from pollution control equipment (i.e. from ESP and Bag houses) is totally recycled in process.

PART – G

IMPACT OF THE POLLUTION ABATEMENT MEASURES TAKEN ON CONSERVATION OF NATURAL RESOURCES AND ON THE COST OF PRODUCTION.

Following measures have been adopted for abatement of pollution, conservation of natural resources: -

Conservation of limestone-

Limestone is being used for the manufacturing of cement by the proper blending of different grade of limestone for preparation of proper raw mix design which can be produced a good quality of cement. The raw mix design has been prepared in such a way that it reduces the limestone stone saturation factor by which substantial quality of limestone has been conserved. In the same manner as per the Regulation of Bureau of Indian Standard, we are also using the fly ash in grinding of cement (PPC) manufacturing up to maximum 32.3 % of the total cement manufactured which ultimately reduces the raising of limestone from mines. By reduction of consumption of limestone in cement manufacturing process, it also leads to the reduce the consumption of fossil fuel and it ultimately reduce the quantity of generation of different pollutant like suspended particulate matter, emission of SO₂ and NO_x, fugitive emission from various stages of handling of limestone (Drilling to Grinding stages). Substantial quantity of electrical and thermal energy has been also saved.

Use of STP treated water for the gardening purpose-

We have latest and advance technology-based Sewage Treatment Plant. We have installed total 07 Nos. STP (Capacity= 25 KLD- 02 Nos., 05 KLD- 03 Nos. 10 KLD-01 No. and 300 KLD-01 Nos.). Total quantity of treated waste water generated in **FY 2024-25** from STPs was **16072 KL** which was used in gardening.

Extensive plantation in and around the plant-

We have a horticulture officer for the forestation and greenery development program at our plant and mines under the supervision of senior experienced person.

Year	Greenbelt Area in Ha.	Numbers of Saplings (nos.)
	Achieved (Ha)	Achieved
Up to March 2022	1.64	4,109
FY 2022-23	14.32	35,788
FY 2023-24	9.46	23,661
FY 2024-25	15.25	38,126
Total	40.67	101,684

Storage of raw materials-

- i- All the raw materials are stored in the covered sheds. For example, please see **picture 1**.



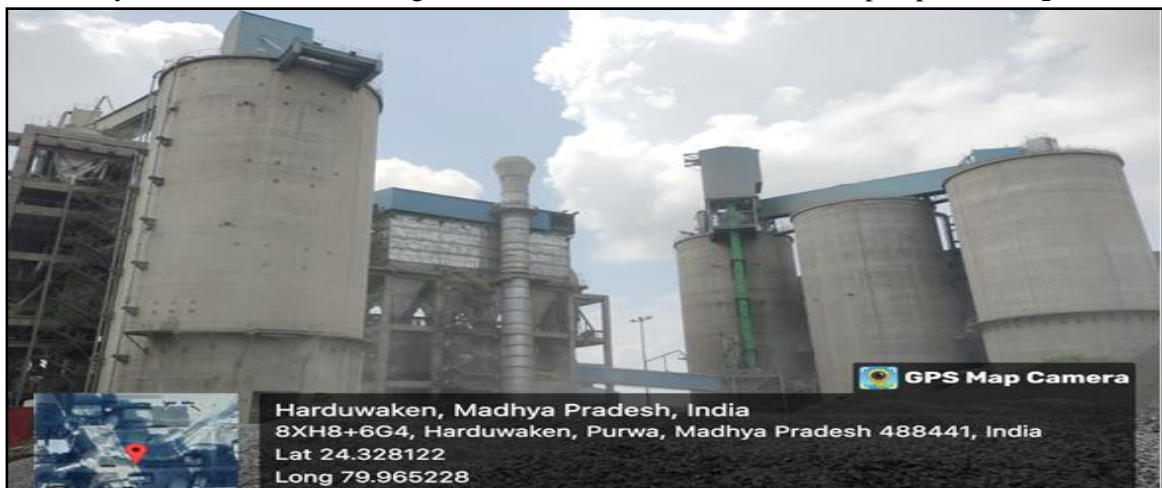
Picture 1- Covered sheds for storage of raw materials

ii- The conveyor belts are fully covered. For example, please see **picture 2**.



Picture 2- Covered raw material belt conveyor

iii- Clinker, Flyash and cement are being stored in the covered silos. For example, please see **picture 3**.

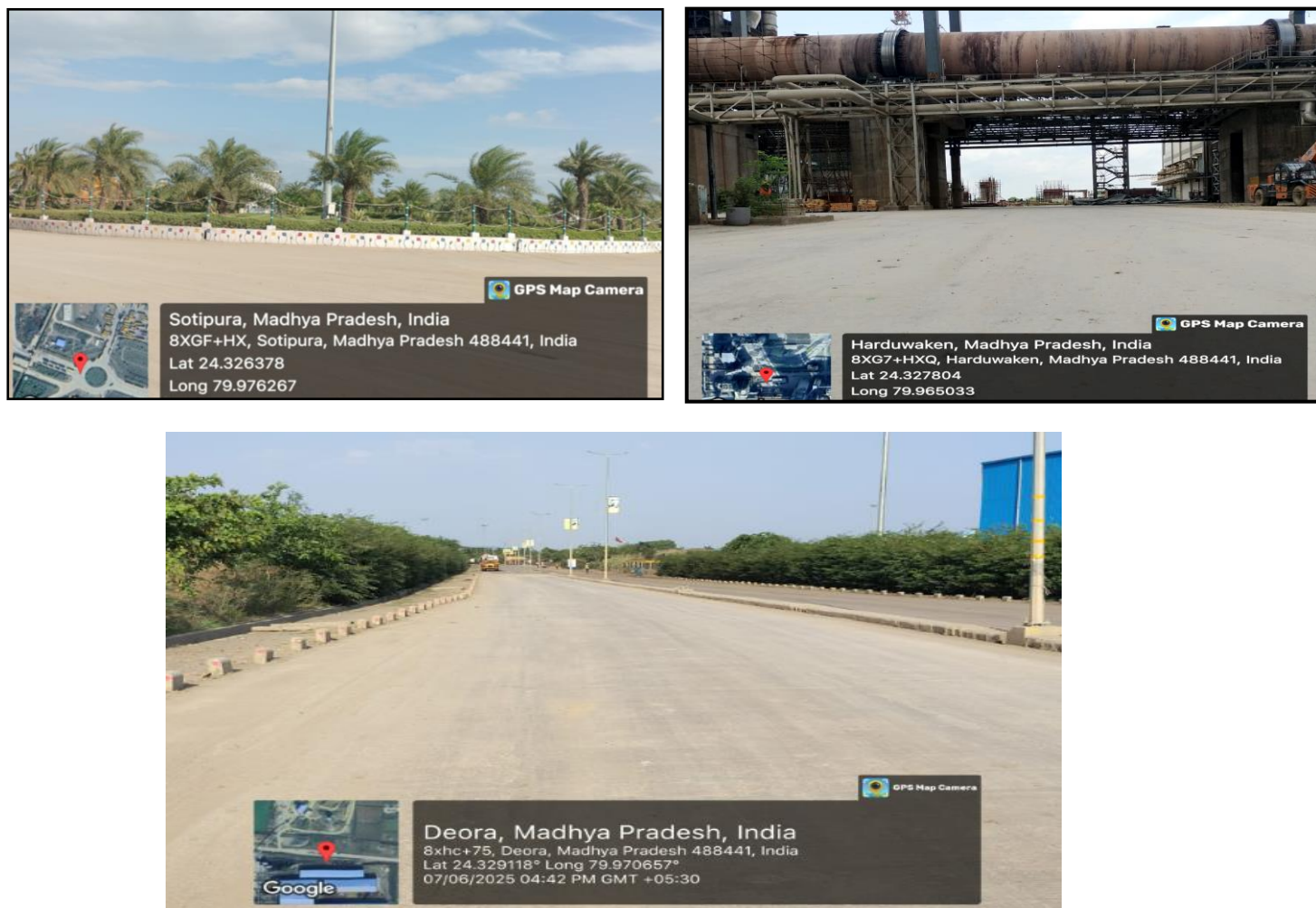


Picture 3- Fly ash & Cement Silos

iv- Waste Heat Recovery Plant (WHRS)'s treated water is being utilized for spraying in cement mill. Our plant is ZERO Liquid Discharge.

Concreting of Kachcha roads/floor-

All roads of plant have been concreted / paved. For example, please see **picture 4**.



Picture 4- Paved roads and Paved floor

Installation of Pollution Control Devices-

Following devices are installed for emission control and emission is well within the prescribed limits.

The list of major Pollution Control Devices installed is as under:-

Sr. No.	Pollution Control Devices attached with	Pollution Control Devices installed
1	Raw Mill (02 Nos.)/Kiln (01 Nos.)	Bag House
2	Coal Mill (01 Nos.)	Bag House
3	Cooler (01 Nos.)	Electro Static Precipitator
4	Cement Mill (01 Nos.)	Bag House

Energy conservation measures-

- 1- We have installed solar street lights.
- 2- We have installed roof top solar system of 75.6 KW.

PART – H

ADDITIONAL MEASURES / INVESTMENT PROPOSALS FOR ENVIRONMENTAL PROTECTION INCLUDING ABATEMENT POLLUTION, PREVENTION OF POLLUTION.

- 1- CSR activity and Green belt development or tree plantation is our ongoing process. We are continuously doing the plantation in and around the cement plant. For example, please see the **pictures 5& 6**.
- 2- We have installed 4 Nos. Continuous Ambient Air Quality Monitoring Systems (CAAQMS) and real time data is connected at MPPCB and CPCB portal.
- 3- We have installed 4 Nos. Continuous Emission Monitoring Systems (CEMS) and real time data is connected at MPPCB and CPCB portal. Please see the picture of one instrument in **picture 7**.
- 4- We have installed camera at WHRS Waste water discharging point/Neutralization pit. Please see the picture of one instrument in **picture 8**.

Corporate Environment Responsibility (CER) Expenditure Report of Cement Plant :

S.No.	Activities	Total Expenditure up to March-25 (in Lakhs)
1	Health (Health, Check-up, Camp, Sports etc.)	274.93
2	Education (Books, Bags, Stationary etc.)	346.57
3	Sanitation (Domestic water, Toilets etc.)	50.46
4	Skill Development (Training centre etc.)	14.58
5	Infrastructure (Road, Community Centers, etc.)	793.06
6	Other Local Social Need	152.05
7	Greenery Development Nearby Area	398.09
Total		2029.74



Bridge constructed at Kakra village



Construction of ITI collage at Plant premises



Constructed concrete water tank at Judi Village

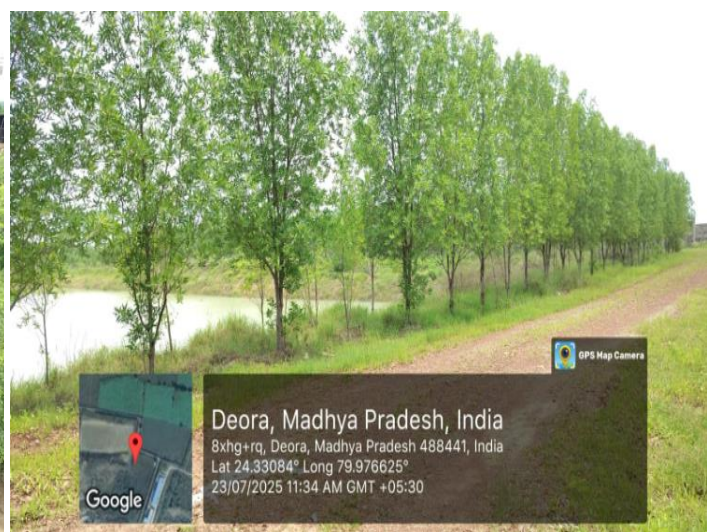
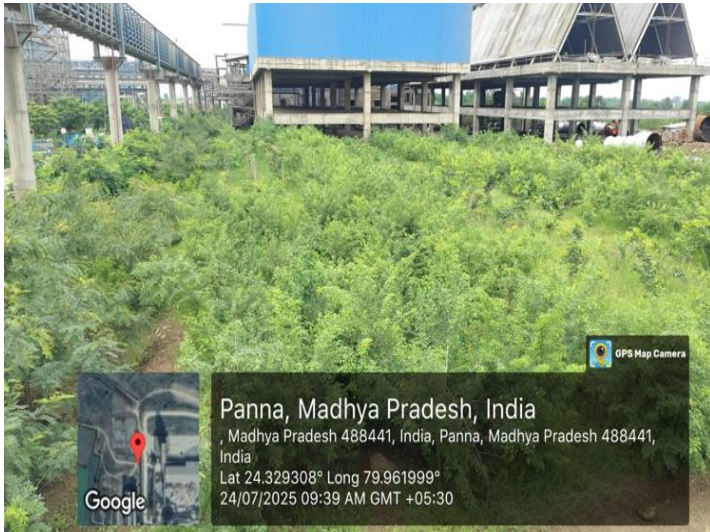


Livestock drinking water arrangements of Puraina village



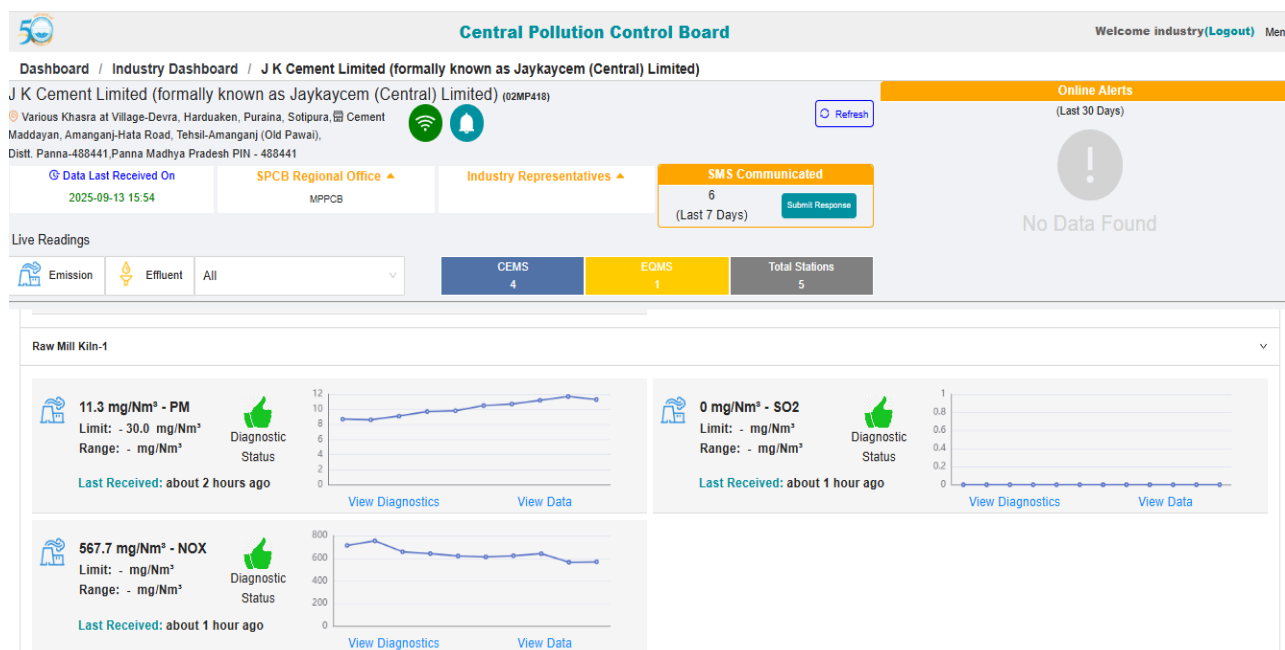
Financial assistance provided to MP Tiger Foundation Society

Picture 5- CSR Expenditure Report of Cement Plant





Picture 6- Plantation inside the Factory premises





Picture 7- Continuous Emission Monitoring Systems (CEMS) installed and Data uploading in CPCB & MPPCB server

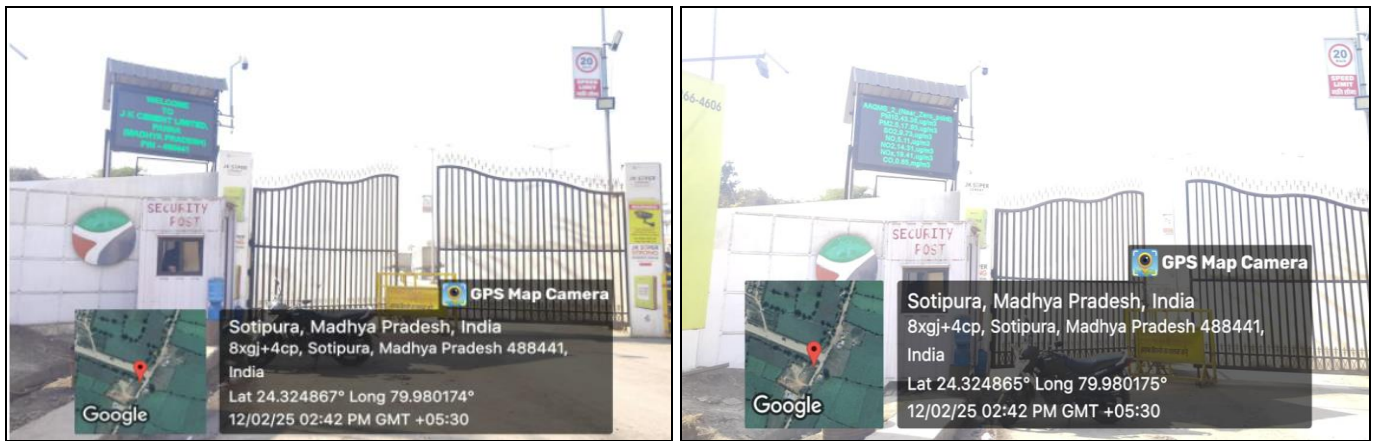


Picture 8- Camera installed at WHRS Treated water discharging point

PART – I

ANY OTHER PARTICULARS FOR IMPROVING THE QUALITY OF ENVIRONMENT.

- 1- We have full-fledged Environment Department with three separate cells, one for monitoring and one for maintenance of pollution control equipment and one for Green Belt development.
- 2- Monitoring of stack emission, ambient air and water quality is being done regularly. Maintenance dept. is regular checking and maintaining all the pollution control devices.
- 3- Domestic waste water is treated in STP and treated waste water is used for gardening.
- 4- Horticulture Department is taking care of tree plantation and green belt development.
- 5- Fugitive dust, ambient air and Noise are being monitored regularly.
- 6- Surface water, treated waste water and ground water are being testing time to time.
- 7- Online CEMS & AAQMS data display in Company main gate in **picture 9**.



Picture 9- Data display in main Gate of the Cement Plant

For J K Cement Limited.

(Unit: J.K. Cement Limited)

Kapil Agrawal

Kapil Agrawal

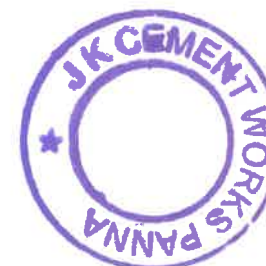
(Unit Head)

ANNEXURE - I

JK Cement Ltd., Panna
A unit of JK Cement Ltd.

Water Consumption & Waste Water Generation Report in for FY 2024-25

Month	Water Consumption in (KL)			Waste Water Generation in (KL)		
	Water Consumption for Mnfg. Process	Water Consumption for DM water plant for boiler & WHRB	Domestic Water Consumption	Waste Water generation for Mnfg. Process	Waste Water generation for DM water plant for boiler & WHRB	Waste Water generation for Domestic Purposes
Apr-24	48095	3918	921.43	0	1161	871
May-24	49836	2419	1681.33	0	719	1375
Jun-24	45543	3280	1082.77	0	944	1214
Jul-24	26877	3292	926.74	0	1133	1212
Aug-24	21297	4910	3093.77	0	1876	833
Sep-24	29189	2535	3262.13	0	862	884
Oct-24	36296	2583	2604.05	0	882	2005
Nov-24	33106	3851	820.87	0	990	1524
Dec-24	30858	3514	1716.87	0	1326	2092
Jan-25	28184	2781	1640.54	0	1201	1482
Feb-25	30019	2866	1646.36	0	919	1223
Mar-25	40158	3337	2098.85	0	1102	1357
Total	419458	39286	21496	0	13115	16072



Sample Number:
Name & Address of Party:

VTL/WW/02
M/s JK Cement Works, Panna
(A Unit Of JK Cement Ltd.)
Village-Harduwaken Tehsil-Amanganj
PIN-488441 Dist-Panna

Report No.: VTL/WW/2503270002
Format No.: 7.8 F 01
Party Reference No.: NA
Report Date: 31/03/2025
Period of Analysis: 27-31/03/2025
Receipt Date: 27/03/2025
Sampling Date: 24/03/2025
Sampling Type: Grab
Sample Quantity: 2.0 Ltr.

Sample Description:
Sample Collected by
Preservation:
Method of Sampling:
Sample Location:

Waste Water
VTL Team
Suitable Preservation
APHA 24th Edition 1060, 2023
Guest House STP Outlet

Test Results

S. No.	Parameter	Test Method	Results	Unit	Limits
1.	pH (at 25 °C)	IS 3025 (P-11): 2022	7.25	--	6.5 to 9.0
2.	Total Suspended Solids	IS 3025 (P-17): 2022	18.6	mg/l	100
3.	Oil & Grease	IS 3025 (P-39): 2021	*BLQ(**LOQ-4.0)	mg/l	10
4.	BOD (3days at 27 °c)	IS 3025(P-44):2023	11.2	mg/l	30
5.	Chemical Oxygen Demand (COD)	IS: 3025 (P-58): 2023	58.0	mg/l	250
6.	Faecal Coliform	APHA 24 th Ed. 9221 C 2023	70	MPN/100 ml	<1000

Note: - *BLQ-Below Limit Quantification, *LOQ- Limit of Quantification


Checked By



RK Yadav
Lab Incharge
Authorized Signatory

TEST REPORT

Sample Number:	VTL/WW/05	Report No.:	VTL/WW/2503270005
Name & Address of Party:	M/s JK Cement Works, Panna (A Unit Of JK Cement Ltd.) Village-Harduwaken Tehsil-Amanganj PIN-488441 Dist-Panna	Format No.:	7.8 F 01
		Party Reference No.:	NA
		Report Date:	31/03/2025
Sample Description:	Waste Water	Period of Analysis:	27-31/03/2025
Sample Collected by:	VTL Team	Receipt Date:	27/03/2025
Preservation:	Suitable Preservation	Sampling Date:	24/03/2025
Method of Sampling:	APHA 24th Edition 1060, 2023	Sampling Type:	Grab
Sample Location:	Security Barrack STP Outlet	Sample Quantity:	2.0 Ltr.

Test Results

S. No.	Parameter	Test Method	Results	Unit	Limits
1.	pH (at 25 °C)	IS 3025 (P-11): 2022	7.38	--	6.5 to 9.0
2.	Total Suspended Solids	IS 3025 (P-17): 2022	22.5	mg/l	100
3.	Oil & Grease	IS 3025 (P-39): 2021	*BLQ(**LOQ-4.0)	mg/l	10
4.	BOD (3days at 27 °C)	IS 3025(P-44):2023	16.0	mg/l	30
5.	Chemical Oxygen Demand (COD)	IS: 3025 (P-58): 2023	68.0	mg/l	250
6.	Faecal Coliform	APHA 24 th Ed. 9221 C 2023	63	MPN/100 ml	<1000

Note: - *BLQ-Below Limit Quantification, *LOQ- Limit of Quantification

Checked By



RK Yadav
Lab Incharge
Authorized Signatory

Approved & Certified EPA 1986 Recognised, ISO:9001 and OHSAS:45001 Certified

Vibrant Techno Lab Pvt. Ltd.

SC-40, 3rd Floor, Narayan Vihar S, Ajmer Road, Jaipur Raj. 302020
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TEST REPORT

Sample Number: VTL/WW/08
Name & Address of Party: M/s JK Cement Works, Panna
(A Unit Of JK Cement Ltd.)
Village-Harduwaken Tehsil-Amanganj
PIN-488441 Dist-Panna

Sample Description: Waste Water
Sample Collected by: VTL Team
Preservation: Suitable Preservation
Method of Sampling: APHA 24th Edition 1060, 2023
Sample Location: Admin building STP Outlet

Report No.: VTL/WW/2503270008
Format No.: 7.8 F 01
Party Reference No.: NA
Report Date: 31/03/2025

Period of Analysis: 27-31/03/2025
Receipt Date: 27/03/2025
Sampling Date: 24/03/2025
Sampling Type: Grab
Sample Quantity: 2.0 Ltr.

Test Results

S. No.	Parameter	Test Method	Results	Unit	Limits
1.	pH (at 25 °C)	IS 3025 (P-11): 2022	7.39	--	6.5 to 9.0
2.	Total Suspended Solids	IS 3025 (P-17): 2022	11.8	mg/l	100
3.	Oil & Grease	IS 3025 (P-39): 2021	*BLQ(**LOQ-4.0)	mg/l	10
4.	BOD (3days at 27 °c)	IS 3025(P-44):2023	7.5	mg/l	30
5.	Chemical Oxygen Demand (COD)	IS: 3025 (P-58): 2023	33.2	mg/l	250
6.	Faecal Coliform	APHA 24 th Ed. 9221 C 2023	32	MPN/100 ml	<1000

Note: - *BLQ-Below Limit Quantification, *LOQ- Limit of Quantification

Checked By 



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Lab Incharge
Authorized Signatory 

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Vibrant Techno Lab Pvt. Ltd.

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TEST REPORT

Sample Number:	VTL/WW/09	Report No.:	VTL/WW/2503270009
Name & Address of Party:	M/s JK Cement Works, Panna (A Unit Of JK Cement Ltd.) Village-Harduwaken Tehsil-Amanganj PIN-488441 Dist-Panna	Format No.:	7.8 F 01
		Party Reference No.:	NA
		Report Date:	31/03/2025
Sample Description:	Waste Water	Period of Analysis:	27-31/03/2025
Sample Collected by	VTL Team	Receipt Date:	27/03/2025
Preservation:	Suitable Preservation	Sampling Date:	24/03/2025
Method of Sampling:	APHA 24th Edition 1060, 2023	Sampling Type:	Grab
Sample Location:	Gate Complex STP Outlet	Sample Quantity:	2.0 Ltr.

Test Results

S. No.	Parameter	Test Method	Results	Unit	Limits
1.	pH (at 25 °C)	IS 3025 (P-11): 2022	7.21	--	6.5 to 9.0
2.	Total Suspended Solids	IS 3025 (P-17): 2022	6.5	mg/l	100
3.	Oil & Grease	IS 3025 (P-39): 2021	*BLQ(**LOQ-4.0)	mg/l	10
4.	BOD (3days at 27 °C)	IS 3025(P-44): 2023	10.4	mg/l	30
5.	Chemical Oxygen Demand (COD)	IS: 3025 (P-58): 2023	48.0	mg/l	250
6.	Faecal Coliform	APHA 24 th Ed. 9221 C 2023	46	MPN/100 ml	<1000

Note: - *BLQ-Below Limit Quantification, *LOQ- Limit of Quantification

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Authorized Signatory

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Vibrant Techno Lab Pvt. Ltd.

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Sample Number: VTL/WW/10
Name & Address of Party: M/s JK Cement Works, Panna
 (A Unit Of) JK Cement Ltd.)
 Village-Harduwaken Tehsil-Amanganj
 PIN-488441 Dist-Panna

Sample Description: Waste Water
Sample Collected by: VTL Team
Preservation: Suitable Preservation
Method of Sampling: APHA 24th Edition 1060, 2023
Sample Location: CCR STP Outlet

Report No.: VTL/WW/2503270010
Format No.: 7.8 F 01
Party Reference No.: NA
Report Date: 31/03/2025

Period of Analysis: 27-31/03/2025
Receipt Date: 27/03/2025
Sampling Date: 24/03/2025
Sampling Type: Grab
Sample Quantity: 2.0 Ltr.

Test Results

S. No.	Parameter	Test Method	Results	Unit	Limits
1.	pH (at 25 °C)	IS 3025 (P-11): 2022	7.47	--	6.5 to 9.0
2.	Total Suspended Solids	IS 3025 (P-17): 2022	7.9	mg/l	100
3.	Oil & Grease	IS 3025 (P-39): 2021	*BLQ(**LOQ-4.0)	mg/l	10
4.	BOD (3days at 27 °C)	IS 3025(P-44):2023	8.6	mg/l	30
5.	Chemical Oxygen Demand (COD)	IS: 3025 (P-58): 2023	36.0	mg/l	250
6.	Faecal Coliform	APHA 24 th Ed. 9221 C 2023	58	MPN/100 ml	<1000

Note: - *BLQ-Below Limit Quantification, *LOQ- Limit of Quantification


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RK Yadav
 Lab Incharge
 Authorized Signatory

Sample Number:	VTL/WW/12	Report No.:	VTL/WW/2503270012
Name & Address of Party:	M/s JK Cement Works, Panna (A Unit Of JK Cement Ltd.) Village-Harduwaken Tehsil-Amanganj PIN-488441 Dist-Panna	Format No.:	7.8 F 01
		Party Reference No.:	NA
		Report Date:	31/03/2025
Sample Description:	Waste Water	Period of Analysis:	27-31/03/2025
Sample Collected by	VTL Team	Receipt Date:	27/03/2025
Preservation:	Suitable Preservation	Sampling Date:	24/03/2025
Method of Sampling:	APHA 24th Edition 1060, 2023	Sampling Type:	Grab
Sample Location:	Labour Colony STP Outlet	Sample Quantity:	2.0 Ltr.

Test Results

S. No.	Parameter	Test Method	Results	Unit	Limits
1.	pH (at 25 °C)	IS 3025 (P-11): 2022	7.54	--	6.5 to 9.0
2.	Total Suspended Solids	IS 3025 (P-17): 2022	16.0	mg/l	100
3.	Oil & Grease	IS 3025 (P-39):2021	*BLQ(**LOQ-4.0)	mg/l	10
4.	BOD (3days at 27 °c)	IS 3025(P-44):2023	12.0	mg/l	30
5.	Chemical Oxygen Demand (COD)	IS: 3025 (P-58): 2023	63.0	mg/l	250
6.	Faecal Coliform	APHA 24 th Ed. 9221 C 2023	44	MPN/100 ml	<1000

Note: - *BLQ-Below Limit Quantification, *LOQ- Limit of Quantification


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RK Yadav
Lab Incharge
Authorized Signatory

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Vibrant Techno Lab Pvt. Ltd.

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TEST REPORT

Sample Number:	VTL/WW/15	Report No.:	VTL/WW/2503270015
Name & Address of Party:	M/s JK Cement Works, Panna (A Unit Of JK Cement Ltd.) Village-Harduwaken Tehsil-Amanganj PIN-488441 Dist-Panna	Format No.:	7.8 F 01
		Party Reference No.:	NA
		Report Date:	31/03/2025
Sample Description:	Waste Water	Period of Analysis:	27-31/03/2025
Sample Collected by	VTL Team	Receipt Date:	27/03/2025
Preservation:	Suitable Preservation	Sampling Date:	24/03/2025
Method of Sampling:	APHA 24th Edition 1060, 2023	Sampling Type:	Grab
Sample Location:	Project office STP Outlet	Sample Quantity:	2.0 Ltr.

Test Results

S. No.	Parameter	Test Method	Results	Unit	Limits
1.	pH (at 25 °C)	IS 3025 (P-11): 2022	7.33	--	6.5 to 9.0
2.	Total Suspended Solids	IS 3025 (P-17): 2022	14.0	mg/l	100
3.	Oil & Grease	IS 3025 (P-39):2021	*BLQ(*LOQ-4.0)	mg/l	10
4.	BOD (3days at 27 °c)	IS 3025(P-44):2023	13.0	mg/l	30
5.	Chemical Oxygen Demand (COD)	IS: 3025 (P-58): 2023	45.0	mg/l	250
6.	Faecal Coliform	APHA 24 th Ed. 9221 C 2023	70	MPN/100 ml	<1000

Note: - *BLQ-Below Limit Quantification, *LOQ- Limit of Quantification

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RK Yadav
Lab Incharge
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Vibrant Techno Lab Pvt. Ltd.

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Sample Number:
Name & Address of the Party:

VTL/ W/02-03
M/s JK Cement Works, Panna
(A Unit Of JK Cement Ltd.)
Village-Harduwaken Tehsil-Amanganj
PIN-488441 Dist-Panna
Ground Water

Sample Description:

Sample Collected by:

Vibrant Techno Lab Representative

Preservation:

Suitable Preservation

Parameter Required:

As Per Work Order

Sampling Protocol:

APHA 24th Edition 1060, 2023

Report No.: VTL/W/2501230012-13
Format No.: 7.8 F-01
Party Reference No.: NIL
Report Date: 28/01/2025
Period of Analysis: 23 to 28/01/2025
Receipt Date: 23/01/2025
Sampling Date: 17/01/2025
Sampling Quantity: 2.0Ltr.+ 250 ml
Sampling Type: Grab

S.No.	Parameters	Test-Method	Near Zero Point	Near HR Office	Unit	Limits of IS:10500-2012	
						Requirement (Acceptable Limits)	Permissible Limit in the Absence of Alternate Source
1.	pH (at 25°C)	IS 3025 (Part 11) : 2022	7.33	7.40	--	6.5 to 8.5	No Relaxation
2.	Colour	IS 3025 (Part 4) : 2021	*BLQ(**LOQ 1.0)	*BLQ(**LOQ 1.0)	Hazen	5	15
3.	Turbidity	IS 3025 (Part 10) : 2023	*BLQ(**LOQ 1.0)	*BLQ(**LOQ 1.0)	NTU	1	5
4.	Odour	IS 3025 (Part 5) : 2018	Agreeable	Agreeable	--	Agreeable	Agreeable
5.	Temperature	IS 3025 (Part 9) : 2023	24.1	24.4	--	--	--
6.	Total Hardness as CaCO ₃	IS 3025 (Part 21) : 2009, RA : 2019	197.0	210.0	mg/l	200	600
7.	Calcium as Ca	IS 3025 (Part 40) : 2024	40.0	51.0	mg/l	75	200
8.	Alkalinity as CaCO ₃	IS 3025 (Part 23) : 2023	75.0	80.0	mg/l	200	600
9.	Sodium	APHA, 24 th Edition, 3500 Na, 2023	45.0	55.8	mg/l	--	--
10.	Residual free Chlorine	IS 3025 (Part 26) : 2021 Clause 7.0	*BLQ(**LOQ 0.2)	*BLQ(**LOQ 0.2)	mg/l	0.2	1
11.	Phosphate	IS 3025 (Part 31)	*BLQ(**LOQ 0.2)	*BLQ(**LOQ 0.2)	mg/l	--	--
12.	Magnesium as Mg	IS 3025 (Part 46):2023	23.62	20.11	mg/l	30	100
13.	Total Dissolved Solids	IS 3025 (Part 16):2023	567.0	610.0	mg/l	500	2000
14.	Sulphate as SO ₄	IS 3025 (Part 24/Sec 1) : 2022 Clause 5.0	25.10	32.64	mg/l	200	400
15.	Fluoride as F	APHA, 24 th Edition, 4500F-D : 2023	0.30	0.33	mg/l	1.0	1.5
16.	Nitrate as NO ₃	IS 3025 (Part 34/Sec 1) : 2023 Clause 6.4	9.87	12.35	mg/l	45	No Relaxation
17.	Iron as Fe	APHA 24 th Edition, 3111 B, 2023	0.18	0.25	mg/l	1.0	No Relaxation
18.	Potassium	APHA 24 th Edition, 3500 K, 2023	8.67	9.36	mg/l	--	--
19.	Boron	APHA, 24 th Edition, 4500 B-C : 2023	*BLQ(**LOQ 0.2)	*BLQ(**LOQ 0.2)	mg/l	0.5	2.4
20.	Hexavalent Chromium as Cr+6	APHA, 24 th Edition, 3500 Cr- B:2023	*BLQ(**LOQ 0.05)	*BLQ(**LOQ 0.05)	mg/l	0.05	No Relaxation
21.	Nickel	APHA, 24 th Edition, 3111 B : 2023	*BLQ(**LOQ 0.01)	*BLQ(**LOQ 0.01)	mg/l	0.02	No Relaxation
22.	Electrical Conductivity	IS 3025 (Part 14):2013 RA:2019	890	967	µs/cm	--	--
23.	Zinc as Zn	APHA, 24 th Edition, 3111 B : 2023	*BLQ(**LOQ 0.2)	*BLQ(**LOQ 0.2)	mg/l	5	15
24.	Copper as Cu	APHA, 24 th Edition, 3111 B : 2023	*BLQ(**LOQ 0.02)	*BLQ(**LOQ 0.02)	mg/l	0.05	1.5
26.	Cadmium as Cd	APHA, 24 th Edition, 3111 B : 2023	*BLQ(**LOQ 0.002)	*BLQ(**LOQ 0.002)	mg/l	0.003	No Relaxation
27.	Lead as Pb	APHA, 24 th Edition, 3111 B : 2023	*BLQ(**LOQ 0.005)	*BLQ(**LOQ 0.005)	mg/l	0.01	No Relaxation
28.	Total Coliform	IS 15185 : 2016	Absent	Absent	Per 100 ml	Shall not be Detectable in Any 100 ml sample	
29.	E. Coli	IS 15185 : 2016	Absent	Absent			

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

Checked By



RK Yadav
Lab Incharge
Authorized Signatory

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Vibrant Techno Lab Pvt. Ltd.

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TEST REPORT

Sample Number:
Name & Address of the Party:

VTL/ W/02-03
M/s JK Cement Works, Panna
(A Unit Of JK Cement Ltd.) Koni-Simariya
Limestone Mine Village-Harduwaken Tehsil-
Amanganj PIN-488441 Dist-Panna

Report No.: VTL/W/2411170002-03
Format No.: 7.8 F-01
Party Reference No.: NIL
Report Date: 25/11/2024

Sample Description:

Ground Water

Period of Analysis: 17 to 25/11/2024

Sample Collected by:

Vibrant Techno Lab Representative

Receipt Date: 17/11/2024

Preservation:

Suitable Preservation

Sampling Date: 15/11/2024

Parameter Required:

As Per Work Order

Sampling Quantity: 2.0Ltr.+ 250 ml

Sampling and Analysis Protocol:

APHA 24th Edition 2023

Sampling Type: Grab

S.No.	Parameters	Test-Method	Near Zero Point	Near HR Office	Unit	Limits of IS:10500-2012	
						Requireme nt (Acceptable Limits)	Permissible Limit in the Absence of Alternate Source
1.	pH (at 25°C)	IS 3025 (Part 11) : 2022	7.27	7.37	--	6.5 to 8.5	No Relaxation
2.	Colour	IS 3025 (Part 4) : 2021	*BLQ(**LOQ 1.0)	*BLQ(**LOQ 1.0)	Hazen	5	15
3.	Turbidity	IS 3025 (Part 10) : 2023	*BLQ(**LOQ 1.0)	*BLQ(**LOQ 1.0)	NTU	1	5
4.	Odour	IS 3025 (Part 5) : 2018	Agreeable	Agreeable	--	Agreeable	Agreeable
5.	Temperature	IS 3025 (Part 9) : 2023	24.2	24.6	--	--	--
6.	Total Hardness as CaCO ₃	IS 3025 (Part 21) : 2009, RA : 2019	176.0	201.0	mg/l	200	600
7.	Calcium as Ca	IS 3025 (Part 40) : 1991, RA : 2019	39.0	48.0	mg/l	75	200
8.	Alkalinity as CaCO ₃	IS 3025 (Part 23) : 2023	67.0	72.4	mg/l	200	600
9.	Sodium	APHA, 24 th Edition, 3500 Na, A+B	42.7	58.3	mg/l	--	--
10.	Residual free Chlorine	IS 3025 (Part 26) : 2021 Clause 7.0	*BLQ(**LOQ 0.2)	*BLQ(**LOQ 0.2)	mg/l	0.2	1
11.	Phosphate	IS 3025 (Part 31)	*BLQ(**LOQ 0.02)	*BLQ(**LOQ 0.02)	mg/l	--	--
12.	Magnesium as Mg	APHA, 24 th Edition, 3500 Mg B, Calculation Method	19.12	19.74	mg/l	30	100
13.	Total Dissolved Solids	IS 3025 (Part 16) : 2023	486.0	520.0	mg/l	500	2000
14.	Sulphate as SO ₄	IS 3025 (Part 24/Sec 1) : 2022 Clause 5.0	23.61	27.48	mg/l	200	400
15.	Fluoride as F	APHA, 24 th Edition, 4500F-D : 2023	0.23	0.30	mg/l	1.0	1.5
16.	Nitrate as NO ₃	IS 3025 (Part 34/Sec 1) : 2023 Clause 6.4	7.69	11.24	mg/l	45	No Relaxation
17.	Iron as Fe	APHA 24 th Edition, 3111 B, 2023	0.15	0.19	mg/l	1.0	No Relaxation
18.	Potassium	APHA 24 th Edition, 3500 K, A+B	5.67	7.48	mg/l	--	--
19.	Boron	APHA, 24 th Edition, 4500 B-C : 2023	*BLQ(**LOQ 0.2)	*BLQ(**LOQ 0.2)	mg/l	0.5	2.4
20.	Hexavalent Chromium as Cr+6	APHA, 24 th Edition, 3500 Cr- B	*BLQ(**LOQ 0.02)	*BLQ(**LOQ 0.02)	mg/l	0.05	No Relaxation
21.	Nickel	APHA, 24 th Edition, 3111 B : 2023	*BLQ(**LOQ 0.01)	*BLQ(**LOQ 0.01)	mg/l	0.02	No Relaxation
22.	Electrical Conductivity	IS 3025 (Part 14)	760	830	µs/cm	--	--
23.	Zinc as Zn	APHA, 24 th Edition, 3111 B : 2023	*BLQ(**LOQ 0.2)	*BLQ(**LOQ 0.2)	mg/l	5	15
24.	Copper as Cu	APHA, 24 th Edition, 3111 B : 2023	*BLQ(**LOQ 0.02)	*BLQ(**LOQ 0.02)	mg/l	0.05	1.5
26.	Cadmium as Cd	APHA, 24 th Edition, 3111 B : 2023	*BLQ(**LOQ 0.002)	*BLQ(**LOQ 0.002)	mg/l	0.003	No Relaxation
27.	Lead as Pb	APHA, 24 th Edition, 3111 B : 2023	*BLQ(**LOQ 0.005)	*BLQ(**LOQ 0.005)	mg/l	0.01	No Relaxation
28.	Total Coliform	IS 15185 : 2016, RA 2021	Absent	Absent	Per	Shall not be Detectable in Any 100 ml sample	
29.	E. Coli	IS 15185 : 2016, RA 2021	Absent	Absent	100 ml		

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



Approved & Certified By: [Signature] E.P. 1986 Recognised, ISO:9001 and OHSAS:45001 Certified

RK Yadav
Lab Incharge
Authorized Signatory

Term & conditions PTO

Vibrant Techno Lab Pvt. Ltd.

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TEST REPORT

Sample Number:
Name & Address of the Party:

VTL/ W/02-03
M/s JK Cement Works, Panna
(A Unit Of JK Cement Ltd.) Koni-Simariya Limestone Mine
Village-Harduwaken Tehsil-Amanganj PIN-488441 Dist-
Panna

Report No.: VTL/W/2408300041-42
Format No.: 7.8 F-01
Party Reference No.: NIL
Report Date: 20/09/2024

Sample Description:

Ground Water

Period of Analysis: 30/08/2024 to 20/09/2024

Sample Collected by:

Vibrant Techno Lab Representative

Receipt Date: 30/08/2024

Preservation:

Suitable Preservation

Sampling Date: 25/08/2024

Parameter Required:

As Per Work Order

Sampling Quantity: 2.0Ltr. + 250 ml

Sampling and Analysis Protocol:

APHA 24th Edition 2023

Sampling Type: Grab

S.No.	Parameters	Test-Method	Near Zero Point	Near HR Office	Unit	Limits of IS:10500-2012	
						Requirement (Acceptable Limits)	Permissible Limit in the Absence of Alternate Source
1.	pH (at 25°C)	IS 3025 (Part 11) : 2022	7.34	7.43	--	6.5 to 8.5	No Relaxation
2.	Colour	IS 3025 (Part 4) : 2021	*BLQ(**LOQ 1.0)	*BLQ(**LOQ 1.0)	Hazen	5	15
3.	Turbidity	IS 3025 (Part 10) : 2023	*BLQ(**LOQ 1.0)	*BLQ(**LOQ 1.0)	NTU	1	5
4.	Odour	IS 3025 (Part 5) : 2018	Agreeable	Agreeable	--	Agreeable	Agreeable
5.	Temperature	IS 3025 (Part 9) : 2023	24.7	25.1	--	--	--
6.	Total Hardness as CaCO ₃	IS 3025 (Part 21) : 2009, RA : 2019	195.0	210.0	mg/l	200	600
7.	Calcium as Ca	IS 3025 (Part 40) : 1991, RA : 2019	42.0	51.0	mg/l	75	200
8.	Alkalinity as CaCO ₃	IS 3025 (Part 23) : 2023	74.0	83.1	mg/l	200	600
9.	Sodium	APHA, 24 th Edition, 3500 Na, A+B	60.0	76.0	mg/l	--	--
10.	Residual free Chlorine	IS 3025 (Part 26) : 2021 Clause 7.0	*BLQ(**LOQ 0.2)	*BLQ(**LOQ 0.2)	mg/l	0.2	1
11.	Phosphate	IS 3025 (Part 31)	*BLQ(**LOQ 0.02)	*BLQ(**LOQ 0.02)	mg/l	--	--
12.	Magnesium as Mg	APHA, 24 th Edition, 3500 Mg B, Calculation Method	21.92	20.11	mg/l	30	100
13.	Total Dissolved Solids	IS 3025 (Part 16) : 2023	510.0	635.0	mg/l	500	2000
14.	Sulphate as SO ₄	IS 3025 (Part 24/Sec 1) : 2022 Clause 5.0	31.82	38.94	mg/l	200	400
15.	Fluoride as F	APHA, 24 th Edition, 4500F-D : 2023	0.27	0.35	mg/l	1.0	1.5
16.	Nitrate as NO ₃	IS 3025 (Part 34/Sec 1) : 2023 Clause 6.4	10.82	14.26	mg/l	45	No Relaxation
17.	Iron as Fe	APHA 24 th Edition, 3111 B, 2023	0.17	0.22	mg/l	1.0	No Relaxation
18.	Potassium	APHA 24 th Edition, 3500 K, A+B	6.58	9.45	mg/l	--	--
19.	Boron	APHA, 24 th Edition, 4500 B-C : 2023	*BLQ(**LOQ 0.2)	*BLQ(**LOQ 0.2)	mg/l	0.5	2.4
20.	Hexavalent Chromium as Cr+6	APHA, 24 th Edition, 3500 Cr- B	*BLQ(**LOQ 0.02)	*BLQ(**LOQ 0.02)	mg/l	0.05	No Relaxation
21.	Nickel	APHA, 24 th Edition, 3111 B : 2023	*BLQ(**LOQ 0.2)	*BLQ(**LOQ 0.2)	mg/l	0.02	No Relaxation
22.	Electrical Conductivity	IS 3025 (Part 14)	790	990	µs/cm	--	--
23.	Zinc as Zn	APHA, 24 th Edition, 3111 B : 2023	*BLQ(**LOQ 0.2)	*BLQ(**LOQ 0.2)	mg/l	5	15
24.	Copper as Cu	APHA, 24 th Edition, 3111 B : 2023	*BLQ(**LOQ 0.02)	*BLQ(**LOQ 0.02)	mg/l	0.05	1.5
26.	Cadmium as Cd	APHA, 24 th Edition, 3111 B : 2023	*BLQ(**LOQ 0.002)	*BLQ(**LOQ 0.002)	mg/l	0.003	No Relaxation
27.	Lead as Pb	APHA, 24 th Edition, 3111 B : 2023	*BLQ(**LOQ 0.005)	*BLQ(**LOQ 0.005)	mg/l	0.01	No Relaxation
28.	Total Coliform	IS 15185 : 2016, RA 2021	Absent	Absent	Per 100 ml	Shall not be Detectable in Any 100 ml sample	
29.	E. Coli	IS 15185 : 2016, RA 2021	Absent	Absent	Per 100 ml		

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

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Annexure-IV

AMBIENT AIR QUALITY MONITORING DATA FOR FY-2024-25
AMBIENT AIR QUALITY AT CEMENT PLANT

Area	Description	Permissible Limit ($\mu\text{g}/\text{m}^3$)	Yearly Average ($\mu\text{g}/\text{m}^3$)	% variation from limit
Near Zero Point	PM ₁₀	60	46.29	-22.85
	PM _{2.5}	40	24.87	-37.83
	SO ₂	50	9.07	-81.86
	NO ₂	40	14.90	-62.75
Near Reservoir	PM ₁₀	60	46.73	-22.12
	PM _{2.5}	40	24.44	-38.90
	SO ₂	50	9.06	-81.88
	NO ₂	40	16.35	-59.13
Near Store	PM ₁₀	60	48.76	-18.73
	PM _{2.5}	40	25.74	-35.65
	SO ₂	50	9.14	-81.72
	NO ₂	40	17.16	-57.10
Near Guest House	PM ₁₀	60	41.19	-31.35
	PM _{2.5}	40	21.03	-47.43
	SO ₂	50	8.42	-83.16
	NO ₂	40	14.82	-62.95



ANNEXURE -V

JK Cement Ltd., Panna
A unit of JK Cement Ltd.

STACK MONITORING DATA FOR FY-2024-25

Sr No.	Month /Year	Stack locations					
		Cement Mill	Coal Mill	Cooler Esp	Raw Mill Kiln		
		PM in mg/Nm3	PM in mg/Nm3	PM in mg/Nm3	PM in mg/Nm3	SO2 in mg /Nm3	NOx in mg/Nm3
1	Apr-24	10.6	5.7	6.8	11.5	55.0	240.0
2	May-24	11.9	6.2	11.7	12.5	52.0	240.0
3	Jun-24	8.2	11.3	8.8	7.2	42.3	225.2
4	Jul-24	11.3	7.9	10.1	7.9	29.5	212.8
5	Aug-24	6.3	3.4	13.0	13.7	9.0	198.8
6	Sep-24	7.8	4.2	14.6	14.0	5.0	130.8
7	Oct-24	8.8	5.1	9.2	11.5	12.9	218.6
8	Nov-24	5.0	7.3	10.5	12.2	26.7	354.6
9	Dec-24	4.8	9.3	10.7	6.7	5.0	362.0
10	Jan-25	10.8	4.5	3.1	9.0	5.0	463.0
11	Feb-25	5.2	5.5	2.7	9.1	46.4	489.8
12	Mar-25	5.1	5.2	2.9	11.3	5.0	518.0
Min		4.8	3.4	2.7	6.7	5.0	130.8
Max		11.9	11.3	14.6	14.0	55.0	518.0
Avg		7.98	6.29	8.68	10.54	24.48	304.46



JK Cement Ltd., Panna
A unit of JK Cement Ltd.

Sr. No.	Sources/Locations	Parameter	Results (in $\mu\text{g}/\text{m}^3$)			
			May-24	Sep-24	Nov-24	Feb-25
1	Near packing Plant area	SPM	312.1	389	436	710
2	Near Gypsum yard		288.5	352	480	580
3	Near Raw Mill		290.2	345	516	588
4	Near Coal Mill		263.9	415	540	620
5	Near Cement Mill		274.1	312	458	716
6	Near Clinker Silo		296.5	389	510	590
7	Near Coal Shed		270.8	548	710	840
8	Near Lime Stone Shed		301.5	326	536	650



Sample Number: VTL/ N/01-05
Name & Address of Party: M/s JK Cement Works, Panna
(A Unit Of JK Cement Ltd.)
Village-Harduwaken Tehsil-Amanganj
PIN-488441 Dist-Panna
Sample Description: Ambient Noise Level Monitoring
Report No.: VTL/N/2409160034-38
Format No.: 7.8 F-04
Party Reference No.: NIL
Report Date: 25/09/2024
Receipt Date: 16/09/2024

General Information:-

Sample collected by : VTL Team
Instrument Used : Sound Level Meter
Instrument Calibration Status : Calibrated
Instrument Code : VTL/SLM/01-04
Meteorological condition during monitoring : Clear Sky
Scope of Monitoring : Regulatory Requirement
Sampling & Analysis Protocol : IS 9989-1981 RA: 2020
Parameter Required : As per Work Order

S. No.	Location	Date	Test Parameter	Test Result dB (A)	
				Day Time	Night Time
1.	Near Reservoir	07-08/09/2024	Leq	62.8	54.6
2.	Near Security Barrack	07-08/09/2024	Leq	56.9	48.2
3.	Near Zero Point Area	07-08/09/2024	Leq	50.3	42.1
4.	Near Guest House Area	07-08/09/2024	Leq	49.7	40.0
5.	Deora Village	08-09/09/2024	Leq	51.2	39.6

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

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TEST REPORT

Sample Number: VTL/WZN/01-20

Name & Address of the Party: M M/s JK Cement Works, Panna
(A Unit Of) JK Cement Ltd
Village-Harduwaken Tehsil-Amanganj
PIN-488441 Dist-Panna

Sample Description: Work Zone Noise

Scope of Monitoring: Regulatory Requirement

Protocol Used: IS 9989: IS 9876

Instrument Used: SLM

Report No.: VTL/WZN/2409160015-35

Format No.: 7.8 F 04

Party Reference No.: NIL

Report Date: 25/09/2024

Receipt Date: 16/09/2024

Sampling Duration: 30 Min.

Sample Collected by: VTL Team

Instrument Calibration Status: Calibrated

General Information:-

Sampling Location : Cement Plant

Instrument Code : VTL/SLM/01

Meteorological condition during monitoring : Clear sky

Date of Monitoring : 10/09/2024

Ambient Temperature (°C) : Min 35°C

Surrounding Activity : Human & Mining Activity

Parameter Required : Leq

Sr.No.	Test Parameter	Protocol	Result	Unit	Limit
1.	Packing Plant	IS:9989,IS 9876:1981	79.4	dB(A)	90.0
2.	Cement Mill	IS:9989,IS 9876:1981	82.2	dB(A)	90.0
3.	Near Preheater	IS:9989,IS 9876:1981	82.9	dB(A)	90.0
4.	Near CCR	IS:9989,IS 9876:1981	79.6	dB(A)	90.0
5.	Near compressor room	IS:9989,IS 9876:1981	83.4	dB(A)	90.0
6.	Near Stacker & Reclaimer	IS:9989,IS 9876:1981	71.1	dB(A)	90.0
7.	Near Zero Point	IS:9989,IS 9876:1981	65.2	dB(A)	90.0
8.	Near Security Barrack	IS:9989,IS 9876:1981	62.9	dB(A)	90.0
9.	Near Guest House	IS:9989,IS 9876:1981	62.4	dB(A)	90.0
10.	Near Labour Colony	IS:9989,IS 9876:1981	66.1	dB(A)	90.0
11.	Near Main Gate	IS:9989,IS 9876:1981	72.8	dB(A)	90.0
12.	Near Store Area	IS:9989,IS 9876:1981	69.9	dB(A)	90.0
13.	At Kiln Platform	IS:9989,IS 9876:1981	83.6	dB(A)	90.0
14.	Near Raw Mill	IS:9989,IS 9876:1981	78.7	dB(A)	90.0
15.	Near DG Set	IS:9989,IS 9876:1981	76.3	dB(A)	90.0
16.	Near Project Office	IS:9989,IS 9876:1981	73.5	dB(A)	90.0
17.	Near Cooler	IS:9989,IS 9876:1981	82.4	dB(A)	90.0
18.	Near WHRS	IS:9989,IS 9876:1981	78.1	dB(A)	90.0
19.	Near TG Building	IS:9989,IS 9876:1981	76.9	dB(A)	90.0
20.	Near Coal Mill	IS:9989,IS 9876:1981	75.8	dB(A)	90.0

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TEST REPORT

Sample Number:

VTL/ N/01-05

Report No.:

VTL/N/2411170001-05

Name & Address of Party:

M/s JK Cement Works, Panna
(A Unit Of JK Cement Ltd.)
Village-Harduwaken Tehsil-Amanganj
PIN-488441 Dist-Panna

Format No.:

7.8 F-04

Party Reference No.:

NIL

Report Date:

25/11/2024

Sample Description :

Ambient Noise Level Monitoring

Receipt Date:

16/11/2024

General Information:-

Sample collected by

: VTL Team

Instrument Used

: Sound Level Meter

Instrument Calibration Status

: Calibrated

Instrument Code

: VTL/SLM/01-05

Meteorological condition during monitoring

: Clear Sky

Scope of Monitoring

: Regulatory Requirement

Sampling & Analysis Protocol

: IS 9989-1981 RA: 2020

Parameter Required

: As per Work Order

S. No.	Location	Date	Test Parameter	Test Result dB (A)	
				Day Time	Night Time
1.	Near Reservoir	09-10/11/2024	Leq	65.7	56.3
2.	Near Security Barrack	09-10/11/2024	Leq	54.9	47.1
3.	Near Zero Point Area	09-10/11/2024	Leq	51.5	44.7
4.	Near Guest House Area	09-10/11/2024	Leq	48.8	41.2
5.	Deora Village	09-10/11/2024	Leq	53.1	40.0

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

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TEST REPORT

Sample Number: VTL/WZN/01-20
Name & Address of the Party: M M/s JK Cement Works, Panna
(A Unit Of JK Cement Ltd
Village-Harduwaken Tehsil-Amanganj
PIN-488441 Dist-Panna)
Sample Description: Work Zone Noise
Scope of Monitoring: Regulatory Requirement
Protocol Used: IS 9989: IS 9876
Instrument Used: SLM
Report No.: VTL/WZN/2411170001-20
Format No.: 7.8 F 04
Party Reference No.: NIL
Report Date: 25/11/2024
Receipt Date: 17/11/2024
Sampling Duration: 30 Min.
Sample Collected by: VTL Team
Instrument Calibration Status: Calibrated

General Information:-

Sampling Location : Cement Plant
Instrument Code : VTL/SLM/01
Meteorological condition during monitoring : Clear sky
Date of Monitoring : 16/11/2024
Ambient Temperature (°C) : Min 31°C Average
Surrounding Activity : Human & Mining Activity
Parameter Required : Leq

Sr.No.	Test Parameter	Protocol	Result	Unit	Limit
1.	Packing Plant	IS:9989,IS 9876:1981	76.8	dB(A)	90.0
2.	Cement Mill	IS:9989,IS 9876:1981	80.1	dB(A)	90.0
3.	Near Preheater	IS:9989,IS 9876:1981	79.6	dB(A)	90.0
4.	Near CCR	IS:9989,IS 9876:1981	75.4	dB(A)	90.0
5.	Near compressor room	IS:9989,IS 9876:1981	81.5	dB(A)	90.0
6.	Near Stacker & Reclaimer	IS:9989,IS 9876:1981	69.8	dB(A)	90.0
7.	Near Zero Point	IS:9989,IS 9876:1981	63.2	dB(A)	90.0
8.	Near Security Barrack	IS:9989,IS 9876:1981	60.5	dB(A)	90.0
9.	Near Guest House	IS:9989,IS 9876:1981	63.8	dB(A)	90.0
10.	Near Labour Colony	IS:9989,IS 9876:1981	67.8	dB(A)	90.0
11.	Near Main Gate	IS:9989,IS 9876:1981	74.1	dB(A)	90.0
12.	Near Store Area	IS:9989,IS 9876:1981	68.7	dB(A)	90.0
13.	At Kiln Platform	IS:9989,IS 9876:1981	81.2	dB(A)	90.0
14.	Near Raw Mill	IS:9989,IS 9876:1981	76.8	dB(A)	90.0
15.	Near DG Set	IS:9989,IS 9876:1981	72.1	dB(A)	90.0
16.	Near Project Office	IS:9989,IS 9876:1981	70.0	dB(A)	90.0
17.	Near Cooler	IS:9989,IS 9876:1981	79.9	dB(A)	90.0
18.	Near WHRS	IS:9989,IS 9876:1981	75.4	dB(A)	90.0
19.	Near TG Building	IS:9989,IS 9876:1981	73.0	dB(A)	90.0
20.	Near Coal Mill	IS:9989,IS 9876:1981	77.8	dB(A)	90.0

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TEST REPORT

Sample Number: VTL/ N/01-05
Report No.: VTL/N/2503010001-05
Name & Address of Party: M/s JK Cement Works, Panna
Format No.: 7.8 F-04
(A Unit Of JK Cement Ltd.)
Party Reference No.: NIL
Village-Harduwaken Tehsil-Amanganj
Report Date: 05/03/2025
PIN-488441 Dist-Panna
Sample Description : Ambient Noise Level Monitoring
Receipt Date: 01/03/2025

General Information:-

Sample collected by : VTL Team
Instrument Used : Sound Level Meter
Instrument Calibration Status : Calibrated
Instrument Code : VTL/SLM/01-05
Meteorological condition during monitoring : Clear Sky
Scope of Monitoring : Regulatory Requirement
Sampling & Analysis Protocol : IS 9989-1981 RA: 2020
Parameter Required : As per Work Order

S. No.	Location	Date	Test Parameter	Test Result dB (A)	
				Day Time	Night Time
1.	Near Reservoir	21-22/02/2025	Leq	68.1	58.4
2.	Near Security Barrack	21-22/02/2025	Leq	59.4	52.3
3.	Near Zero Point Area	21-22/02/2025	Leq	52.0	43.9
4.	Near Guest House Area	21-22/02/2025	Leq	49.7	40.8
5.	Deora Village	21-22/02/2025	Leq	54.2	43.5

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

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TEST REPORT

Sample Number:	VTL/WZN/01-20	Report No.:	VTL/WZN/2503010001-20
Name & Address of the Party:	M M/s JK Cement Works, Panna (A Unit Of) JK Cement Ltd Village-Harduwaken Tehsil-Amanganj PIN-488441 Dist-Panna	Format No.:	7.8 F 04
		Party Reference No.:	NIL
Sample Description:	Work Zone Noise	Report Date:	05/03/2025
Scope of Monitoring	Regulatory Requirement	Receipt Date:	01/03/2025
Protocol Used:	IS 9989: IS 9876	Sampling Duration	30 Min.
Instrument Used	SLM	Sample Collected by	VTL Team
		Instrument Calibration Status	Calibrated

General Information:-

Sampling Location	: Cement Plant
Instrument Code	: VTL/SLM/01
Meteorological condition during monitoring	: Clear sky
Date of Monitoring	: 17-19/02/2025
Ambient Temperature (°C)	: Min 31°C Average
Surrounding Activity	: Human & Mining Activity
Parameter Required	: Leq

Sr.No.	Test Parameter	Protocol	Result	Unit	Limit
1.	Packing Plant	IS:9989,IS 9876:1981	79.4	dB(A)	90.0
2.	Cement Mill	IS:9989,IS 9876:1981	82.1	dB(A)	90.0
3.	Near Preheater	IS:9989,IS 9876:1981	80.3	dB(A)	90.0
4.	Near CCR	IS:9989,IS 9876:1981	78.7	dB(A)	90.0
5.	Near compressor room	IS:9989,IS 9876:1981	83.9	dB(A)	90.0
6.	Near Stack & Reclaimer	IS:9989,IS 9876:1981	75.8	dB(A)	90.0
7.	Near Zero Point	IS:9989,IS 9876:1981	68.3	dB(A)	90.0
8.	Near Security Barrack	IS:9989,IS 9876:1981	65.4	dB(A)	90.0
9.	Near Guest House	IS:9989,IS 9876:1981	61.9	dB(A)	90.0
10.	Near Labour Colony	IS:9989,IS 9876:1981	71.2	dB(A)	90.0
11.	Near Main Gate	IS:9989,IS 9876:1981	77.4	dB(A)	90.0
12.	Near Store Area	IS:9989,IS 9876:1981	69.3	dB(A)	90.0
13.	At Kiln Platform	IS:9989,IS 9876:1981	83.6	dB(A)	90.0
14.	Near Raw Mill	IS:9989,IS 9876:1981	78.1	dB(A)	90.0
15.	Near DG Set	IS:9989,IS 9876:1981	85.9	dB(A)	90.0
16.	Near Project Office	IS:9989,IS 9876:1981	68.2	dB(A)	90.0
17.	Near Cooler	IS:9989,IS 9876:1981	82.0	dB(A)	90.0
18.	Near WHRS	IS:9989,IS 9876:1981	72.5	dB(A)	90.0
19.	Near TG Building	IS:9989,IS 9876:1981	69.3	dB(A)	90.0
20.	Near Coal Mill	IS:9989,IS 9876:1981	80.7	dB(A)	90.0

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