



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-(KAKRA)/2025-26/18/06

Date- 15.09.2025

To,
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 Kakra- Panna Lime Stone Mine of M/s. J K Cement Limited, located at Various khasra at Village- Kakra, Kamtana, Saptai, Judi, Devripurohit, Devra, Tehsil Amanganj, Distt- Panna (M.P.)**

Reference No.:

1. Ministry (MoEF&CC) letter no. J-11015/190/2016-IA-II(M) dated 31.08.2020
2. Corrigendum in EC Letter no. J-11015/190/2016-IA-II(M) dated 08.03.2021
3. Consent No: AWH-57726 dated 03.03.2023

Dear sir,

With reference to aforesaid subject, please find herewith enclosed Environment Statement Report (Form-V) for FY.2024-25 of Kakra- Panna Lime Stone Mine of M/s. JK Cement Limited, located at Various khasra at Village- Kakra, Kamtana, Saptai, Judi, Devripurohit, Devra, Tehsil Amanganj, Distt- Panna (M.P.).

This is for your kind information and record, please.

Thanking you.

Yours faithfully,

For Kakra Panna Limestone Mine
(Unit of JK Cement Limited)


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

**JK SUPER
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Manufacturing Units at :
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Jharli (Haryana) | Katni, Panna, Ujjain (M.P.) | Prayagraj, Aligarh,
Hamirpur (U.P.) | Balasinor (Gujarat) | Fujalrah

Registered Office : Kamia 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****Kakra-Panna Limestone Mine (Unit: M/s J K Cement Limited)****PART – A**

(i).	Name and address of the owner/ Occupier of the industry/operation or process.	:	Kapil Agrawal Unit Head Kakra-Panna Limestone Mine, M/s. J K Cement Limited, Various Khasra at Village-Kakra, Kamtana, Saptai, Judi, Dev, Village-Kakra, Kamtana, Saptai, Judi, Devripurohit, Devra, Tah- Amanganj, Distt-Panna (MP)
(ii).	Industry Category - Primary (STC Code) / Secondary (STC Code)	:	Red Large Scale
(iii).	Production Capacity Units	:	Mining of Limestone-4.08 Million Ton per year Mine Waste-0.18 Million Ton per year Mining of Sub –grade Limestone-0.58 Million Ton per year Mining of Inter burden –1.51 Million Ton per year Mining of Soil / Alluvium-1.26 Million Ton per year
(iv).	Year of establish	:	2023
(v).	Date of the Last Environmental Statement Submitted	:	10.09.2024

PART – B**Water & Raw Material Consumption and Lime stone production****A. Water consumption KL/Day
Over All Consumption**

- (i) Process (Dust Suppression) - **56.6 KL/Day (Total 20668 KL)**
(ii) Cooling - NA
(iii) Domestic - **4.56 KL/Day (Total 1663.03 KL)**

Consumption per unit of production

Name of the Product	Process Water Consumption per unit of Product Output (KL/MT of Limestone)	
	During the Previous Financial Year (2023-24)	During the Current Financial Year (2024-25)
Lime Stone	0.025	0.012

B. Raw Material Consumption

Name of the Raw Material	Name of Product	Consumption of Raw Material per Unit Product Output (KL/MT of Limestone)	
		During the Previous Financial Year (2023-24)	During the Current Financial Year (2024-25)
Diesel	Limestone	0.00087	0.00087
This is a captive mine where Limestone excavated from the mining lease for manufacturing cement. The supporting raw materials used for mining are fuel (HSD).			

C. Total Material Production (in Ton)

Product	During the Previous Financial Year (2023-24)	During the Current Financial Year (2024-25)
Lime Stone	833847.84	1789552
Waste	45872.10	0.00
Sub-grade Lime Stone	0.00	0.00
Inter Burden	0.00	290554
Soil/Alluvium	269533.6	470118

Note- Month wise production data enclosed as **Annexure-1.**)

D. Total Power consumption (KWH/ MT of Limestone)

During the Previous Financial Year (2023-24)	During the Current Financial Year (2024-25)
1.46	1.37

E. Lubrication and Explosive consumption

(*) Name of Raw Materials	Unit	During the previous Financial year (2023-24)	During the current Financial year (2024-25)
Description			
Diesel	Liters	726003	1548788
Lubricant Oil	Liters	6477	25198
Grease	KG	227	600
AFNO	KG	0.00	5300
Slurry (Column, Prime, and base)	KG	197425	409000
Electrical Detonators	(In No's)	379	794
Nonel Detonators	(In No's)	90343	126885
Detonating fuse	(in Mts)	0.00	0.00
This is a captive mine where Limestone excavated from the mining lease for manufacturing cement. The supporting raw materials used for mining are fuel (HSD), Lubricant Oil and Grease for Heavy Earth Moving Machineries (HEMM) and Explosives for blasting.			

F. Total Power consumption (KWH)

During the Previous Financial Year (2023-24)	During the Current Financial Year (2024-25)
3551170	4458038

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	Waste water generated from the office toilets is being discharged into the soak pit via septic tank. There is no waste water in the mine. Mine's pit water is used for dust suppression & plantation in mine. Water Quality Analysis report enclosed as Annexure -2		
(b)	Air	Air monitoring parameters as specified in consent and its percentage of variation from prescribed standards are enclosed as Annexure-3 . Noise Monitoring report enclosed as Annexure-4 .		

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 Wastes		Total Quantity sold to recycler	
Description		During the previous Financial year (2023-24)	During the current Financial year (2024-25)
(a) From Process	(a) Category 5.1 Used / Spent Oil	9.348 MT	1.86 MT
	(b) Category 5.2 Waste Residue Containing oil	0.0	0.0
	(c) Category 3.3 Sludge & Filters contaminated with oil	0.0	0.0
	(d) Category 33.1 Empty Barrels/containers/liners/containers contaminated with hazardous chemicals/wastes	0.0	0.0
(b) From Pollution Control Facilities	Nil	No hazardous waste is generated during mining activity.	

Note- Used or Spent Oil HW Category (5.1)- 1.86 MT sent to register recycler M/s Prateek Enterprises Chharibana, Prayagraj (U.P.)-212301.

PART – E

SOLID WASTES

Solid Wastes	Total Quantity	
	During the previous Financial year (2023-24)	During the current Financial year (2024-25)
(a) From Process	N.A	N.A
(b) From Pollution Control Facilities	N.A	N.A
(c) Quantity recycled or reutilized	N.A	N.A
(i) Within the unit.		
(ii) Sold	N.A	N.A
(iii) Dispose	Mining of Inter burden: - Nil Mining of Soil / Alluvium: - 269533.6 MT Mine Waste: - 45872.10 MT	Mining of Inter burden: - 290554 MT Mining of Soil / Alluvium: - 470118 MT Mine Waste: - Nil

PART – F

Please specify the characterizations (in terms of composition and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

Hazardous waste: Hazardous wastes like used spent oil generated from the mine are stored and subsequently disposed off to PCB's authorized recycler.

We have authorization for following type of Hazardous Waste and its mode of disposal.

Sr.No.	Hazardous Waste	Mode of Disposal
1	Category 5.1- Used or Spent Oil	CTSDF/Sale to Recyclers authorized with SPCB
2	Category 5.2- Wastes or residues containing oil	CTSDF/Sale to Recyclers authorized with SPCB
3	Category 3.3- Sludge & Filters contaminated with oil	CTSDF/Sale to Recyclers authorized with SPCB
4	Category 33.1-Empty Barrels/containers/liners/contaminated with hazardous chemicals/wastes	CTSDF/Sale to Recyclers authorized with SPCB

PART – G

Impact of the pollution abatement measures taken on conservation of natural resources.

AIR

There is no impact observed on vegetation & water bodies in the surrounding areas due to dust, as it is suppressed on its generating sources.

The following measures are taken to suppress the dust at the source as well as to prevent the same spreading in the atmosphere:

- 1- Wet drilling system is provided on the drill machines.
- 2- Regular water sprinkling is done on haul road during operation.
- 3- Blasting parameters are optimised for proper fragmentation to reduce dust generation.
- 4- Plantation and development of Green Belt is done as per the approved mining plan.

WATER

- 1- Being Mechanized Limestone mine, it requires water mainly for Wet Drilling, Road Spraying and Green Belt Development. The source of water will be the accumulated rainwater in the lower most benches. There will be no discharged of liquid effluent / waste water from the Mine.
- 2- There will be no discharge of rain water or waste water from the mine to outside lease area. Rain water in the catchment area of mine lease will be diverted through drainage in to mine pits and the water is used for dust suppression and plantation purpose.

NOISE

- 1- Green Belt development for reducing noise.
- 2- PPEs will be provided to all workers.

PART – H

Additional measures/investment proposed for environmental protection including abatement of pollution/prevention of pollution.

Green belt development and tree plantation has been done as per approved Mining Plan.

Blasting is done by using a combination of high strength and low strength explosives. Non-electric initiation is used in all of the blasts, which is costlier than conventional method of blasting. Non-electric initiation ensures least blast induced vibration, noise and fly rocks. Vibration is monitored by seismograph for each and every blast to ensure the parameters within specified limits.

Corporate Environment Responsibility (CER) Expenditure Report of Kakra-Panna Limestone Mine:

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

PART – I

Any other particulars for improving the quality of the environment.

Various measures taken for the improvement of environment, details along with the photographs are given below.

- 1- CAAQMS is installed at Kamtana Village.
- 2- Third Party Environment Monitoring (NABL Accredited) is done on regular basis.
- 3- Sprinkling of water for dust suppression round the clock.
- 4- Green belt area developed as per the approved mining plan.
- 5- Use of non-electric initiation system in the blasting operation to reduce air blast & no fly rock



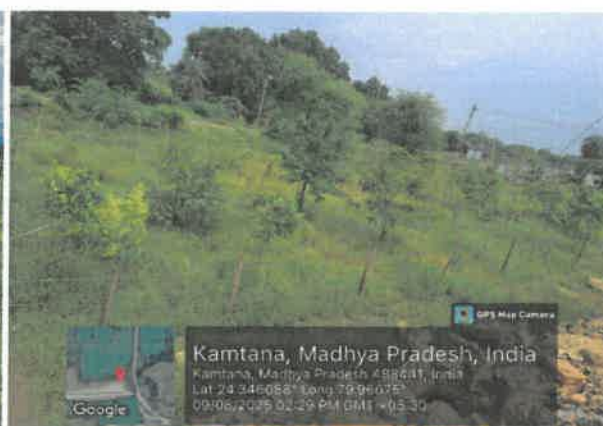
CAAQMS Near Kamtana Village.



Data display in main Gate of the Kakra mine site.

Photographs showing various Environment protection measures at Mines

Plantation details for Kakra-Panna Limestone Mine						
S.No	Period	Area (in Hectare)	No. of Trees Planted	Survival No's	Survival Rate	Remarks
1	June-2023 to Mar-25	12.54	31334	28514	91%	





Water sprinkling in Mines haulage road



Organized mega health camps in village Kakra and Kamtana



Name: Kapil Agrawal
Unit Head

(M/s J K Cement Limited.,)
For Kakra-Panna Lime Stone Mine

Dated: 15.09.2025

Annexure-1

M/s -J K Cement Limited, Kakra -Panna Limestone Mines Village- Kakra,Kamtana, Saptai, Judi, Devripurohit,& Devra, Tehsil: - Amanganj Distt- Panna (MP)					
	FY: 2024-25				
	Limestone Production (MT)	Mine Waste (MT)	Mining of Sub –grade Limestone (MT)	Mining of Inter burden (MT)	Mining of Soil / Alluvium (MT)
Apr-24	181829	0.00	0.00	38184	2148
May-24	43158	0.00	0.00	6042	123503
Jun-24	156937	0.00	0.00	24325	14070
Jul-24	155478	0.00	0.00	23322	80604
Aug-24	13081	0.00	0.00	2206	2100
Sep-24	44255	0.00	0.00	6196	0
Oct-24	100016	0.00	0.00	15056	55754
Nov-24	201204	0.00	0.00	14618	99848
Dec-24	224967	0.00	0.00	45745	50552
Jan-25	235654	0.00	0.00	34894	20636
Feb-25	205820	0.00	0.00	36926	7882
Mar-25	227154	0.00	0.00	43041	13020
Total	1789552	0	0	290554	470118

TEST REPORT CODE: VGL/W/24/05/17/N-027

TEST REPORT ISSUE DATE: 24.05.2024

TEST REPORT (WATER) PART - A (CHEMICAL)

Name and Address of Customer	: M/s. J K CEMENT WORKS, PANNA, (A UNIT OF JK CEMENT LIMITED.) VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ, DISTT. - PANNA, (M.P)
Location of Sample	: KAKRA MINE (BOREWELL - 01)
Sample Description	: GROUND WATER
Date & Time of Sampling	: 15.05.2024 08:00 AM
Sample Collected by	: VGL TEAM
Environmental Condition (Temp. & RH)	: 25.8 °C & 55%
Sample Packing	: SEALED
Sample Id No.	: 027
Laboratory Sample Receiving Date	: 17.05.2024
Duration of Sample Analysis	: 17.05.2024 TO 24.05.2024
Method of Sampling	: APHA 1060B & 9060A

TEST RESULTS

Sr. No.	Parameters	Test Method	Result	Unit	Limit as per IS 10500:1991 (Reaff:2012)	
					Desirable	Permissible
1.	pH at 25 °C	APHA 4500H+A+B	7.36	-	6.5-8.5	No relaxation
2.	Temperature	APHA 2550-A+B	25.1	°C	Not Specified	Not Specified
3.	Colour	APHA 2120-B	<5.0	Hazen	5	15
4.	Turbidity	APHA 2130-A+B	<1.0	NTU	1	5
5.	Odour	APHA 2150-B	Agreeable	-	Agreeable	Agreeable
6.	Alkalinity	APHA 2320-A+B	148.0	mg/L	200	600
7.	Total Dissolved Solids	APHA 2540-C	405.0	mg/L	500	2000
8.	Total Hardness	APHA 2340 A+C	160.0	mg/L	200	600
9.	Calcium	APHA 3500 Ca- A+B	28.4	mg/L	75	200
10.	Magnesium	APHA 3500 Mg A+B	21.7	mg/L	30	100
11.	Sodium	APHA 3500 Na, A+B	16.0	mg/L	-	-
12.	Phosphate	APHA 4500-PD	BDL	mg/L	-	-
13.	Sulfate	APHA 4500-SO42- E	22.4	mg/L	200	400
14.	Potassium	APHA 3500 K, A+B	9.0	mg/L	-	-

Page 1 of 3

Note:

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- The sample will be destroyed after 15 days from the date of issue of test certificate unless otherwise specified.
- Any discrepancy in test result should be reported within 15 days.
- The above results are related to the tested sample only.

Review By:

Dr. Ashok Kumar
Technical Manager

Virat Global Lab
Authorized Signatory

Authorized Signatory
D. K. Yadav
Lab In-charge

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TEST REPORT CODE: VGL/W/24/05/17/N-027

TEST REPORT ISSUE DATE: 24.05.2024

TEST REPORT (WATER)
PART – A (CHEMICAL)

TEST RESULTS

15.	Nitrate	APHA 4500-NO3- B	7.8	mg/L	45.0	-
16.	Free Residual Chlorine	APHA 4500Cl B	<0.2	mg/L	0.2	1.0
17.	Qibride	APHA 4500 Cl A+B	38.0	mg/L	250	1000
18.	Bomn	APHA 4500 BA+C	DDL	mg/L	0.5	1.0
19.	Copper	APHA 3111 A+B	BDL	mg/L	0.05	1.5
20.	Cadmium	APHA 3111 A+B	BDL	mg/L	0.003	No relaxation
21.	Iron	APHA 3500 B	0.21	mg/L	0.3	No relaxation
22.	lead	APHA 3111 A+B	BDL	mg/L	0.01	No relaxation
23.	Nickel	APHA 3111 A+B	BDL	mg/L	0.02	No relaxation
24.	Zinc	APHA 3111 A+B	BDL	mg/L	5	15
25.	Fluoride	APHA 4500-C	0.41	mg/L	1.0	1.5
26.	Hexavalent Chromium	APHA 3500 B	ND	mg/L	0.001	No relaxation
27.	Electrical Conductivity	APHA 2510 B	623	gS/cm	No relaxation	No relaxation

Page 2 of 3

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3. Any discrepancy in test result should be reported within 15 days.
4. The above Results are related to the tested sample only

Review By:

Dr. Ashok Kumar
Technical Manager

Virat Global Lab
Authorized Signatory

Authorized Signatory
D. K. Yadav
Lab In-charge

TEST REPORT CODE: VGL/W/24/05/17/N-027

TEST REPORT ISSUE DATE: 24.05.2024

**TEST REPORT (WATER)
PART – B (BIOLOGICAL)**

TEST RESULTS

Sr. No.	Parameters	Test Method	Result	Unit	Limit as per IS 10500:1991 (Reaff:2012)	
					Desirable	Permissible
1.	Total Coliform Count	APHA 9221 B	<2.0	MPN/100 ML	Shall not be detectable in any 100 ml sample	
2.	Fecal coliform	APHA 9221 E	<2.0	MPN/100 ML	Shall not be detectable in any 100 ml sample	

Page 3 of 3

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2. The sample will be destroyed after 3days from the date of issue of test certificate unless otherwise specified.
3. Any discrepancy in test result should be reported within 3Days
4. The above Results are related to the tested sample only.

Review By:

Dr. Ashok Kumar
Technical Manager

Virat Global Lab
Authorized Signatory

Authorized Signatory
Sayeed Ahmad
Quality Manager



TEST REPORT

Sample Number:
Name & Address of the Party:

VTL/ W/05-06
M/s JK Cement Works, Panna
(A Unit Of) JK Cement Ltd.) Kakra- Panna Limestone Mines
Village-Harduwaken Tehsil-Amanganj PIN-488441 Dist-
Panna
Ground Water

Report No.: VTL/W/2408300015
Format No.: 7.8 F-01
Party Reference No.: NIL
Report Date: 20/09/2024
Period of Analysis: 30/08/2024 to 20/09/2024
Receipt Date: 30/08/2024
Sampling Date: 25/08/2024
Sampling Quantity: 2.0Ltr.+ 250 ml
Sampling Type: Grab

Sample Description:

Sample Collected by:
Preservation:
Parameter Required:
Sampling and Analysis Protocol:

Vibrant Techno Lab Representative
Suitable Preservation
As Per Work Order
APHA 24th Edition 2023

S.No.	Parameters	Test-Method	Kakra Mine Borewell	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	7.06	--	6.5 to 8.5	No Relaxation
2.	Colour	IS 3025 (Part 4) : 2021	*BLQ(**LOQ 1.0)	Hazen	5	15
3.	Turbidity	IS 3025 (Part 10) : 2023	*BLQ(**LOQ 1.0)	NTU	1	5
4.	Odour	IS 3025 (Part 5) : 2018	Agreeable	--	Agreeable	Agreeable
5.	Taste	IS 3025 (Part 8) : 2023	Agreeable	--	Agreeable	Agreeable
6.	Total Hardness as CaCO ₃	IS 3025 (Part 21) : 2009, RA : 2019	180.90	mg/l	200	600
7.	Calcium as Ca	IS 3025 (Part 40) : 1991, RA : 2019	55.40	mg/l	75	200
8.	Alkalinity as CaCO ₃	IS 3025 (Part 23) : 2023	75.20	mg/l	200	600
9.	Chloride as Cl	IS 3025 (Part 32) : 1988, RA : 2019	66.25	mg/l	250	1000
10.	Residual free Chlorine	IS 3025 (Part 26) : 2021 Clause 7.0	*BLQ(**LOQ 0.2)	mg/l	0.2	1
11.	Cyanide as CN	IS 3025 (Part 27/Sec 1) : 2022	*BLQ(**LOQ 0.02)	mg/l	0.05	No Relaxation
12.	Magnesium as Mg	APHA, 24 th Edition, 3500 Mg B, Calculation Method	10.37	mg/l	30	100
13.	Total Dissolved Solids	IS 3025 (Part 16) : 2023	515	mg/l	500	2000
14.	Sulphate as SO ₄	IS 3025 (Part 24/Sec 1) : 2022 Clause 5.0	55.50	mg/l	200	400
15.	Fluoride as F	APHA, 24 th Edition, 4500F-D : 2023	0.52	mg/l	1.0	1.5
16.	Nitrate as NO ₃	IS 3025 (Part 34/Sec 1) : 2023 Clause 6.4	15.20	mg/l	45	No Relaxation
17.	Iron as Fe	APHA 24 th Edition, 3111 B : 2023	0.22	mg/l	1.0	No Relaxation
18.	Aluminium as Al	IS 3025 (Part 55) : 2003, RA : 2019	*BLQ(**LOQ 0.03)	mg/l	0.03	0.2
19.	Boron	APHA, 24 th Edition, 4500 B-C : 2023	*BLQ(**LOQ 0.2)	mg/l	0.5	2.4
20.	Total Chromium as Cr	APHA, 24 th Edition, 3111 B : 2023	*BLQ(**LOQ 0.02)	mg/l	0.05	No Relaxation
21.	Phenolic compound as C ₆ H ₅ OH	APHA, 24 th Edition, 5530 C : 2023	*BLQ(**LOQ 0.001)	mg/l	0.001	0.002
22.	Anionic Detergent as MBAS	IS 3025 (Part 68) : 2019	*BLQ(**LOQ 0.05)	mg/l	0.2	1.0
23.	Zinc as Zn	APHA, 24 th Edition, 3111 B : 2023	*BLQ(**LOQ 0.2)	mg/l	5	15
24.	Copper as Cu	APHA, 24 th Edition, 3111 B : 2023	*BLQ(**LOQ 0.02)	mg/l	0.05	1.5
25.	Manganese as Mn	APHA, 24 th Edition, 3111 B : 2023	*BLQ(**LOQ 0.05)	mg/l	0.1	0.3
26.	Cadmium as Cd	APHA, 24 th Edition, 3111 B : 2023	*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)	mg/l	0.01	No Relaxation
28.	Selenium as Se	APHA, 24 th Edition, 3114 C : 2023	*BLQ(**LOQ 0.005)	mg/l	0.01	No Relaxation
29.	Arsenic as As	APHA, 24 th Edition, 3114 C : 2023	**BLQ(**LOQ 0.005)	mg/l	0.01	No Relaxation
30.	Mercury as Hg	APHA, 24 th Edition, 3112 B : 2023	*BLQ(**LOQ 0.001)	mg/l	0.001	No Relaxation
31.	Total Coliform	IS 15185 : 2016, RA 2021	Absent	Per 100 ml	Shall not be Detectable in Any 100 ml sample	
32.	E. Coli	IS 15185 : 2016, RA 2021	Absent	Per 100 ml		

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



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

RK Yadav
Lab Incharge
Authorized Signatory

Vibrant Techno Lab Pvt. Ltd.

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TEST REPORT

Sample Number:
Name & Address of the Party:

VT/L/SW/01
M/s JK Cement Works, Panna
(A Unit Of JK Cement Ltd.) Kakra- Panna Limestone Mines
Village-Harduwaken Tehsil-Amanganj PIN-488441 Dist-
Panna
Surface Water

Report No.: VTL/W/2408300014
Format No.: 7.8 F-01
Party Reference No.: NIL
Report Date: 20/09/2024
Period of Analysis: 30/08/2024 to 20/09/2024
Receipt Date: 30/08/2024
Sampling Date: 25/08/2024
Sampling Quantity: 2.0Ltr.+ 250 ml
Sampling Type: Grab

Sample Description:

Sample Collected by:
Preservation:
Parameter Required:
Sampling and Analysis Protocol:

Vibrant Techno Lab Team
Suitable Preservation
As Per Work Order
APHA 24th Edition 2023

S. No.	Parameter	Test Method	Run Off Water Kakra Mine	Unit
Physical Parameters				
1.	pH (at 25 °C)	IS 3025 (P-11): 2022	7.49	--
2.	Colour	IS 3025(P-4): 2021	5	Hazen
3.	Turbidity	IS 3025 (P-10): 2023	12	NTU
Chemical Parameters (mg/l)				
4.	Total Hardness as CaCO ₃	IS: 3025 (P-21): 2009, RA: 2019	143.00	mg/l
5.	Alkalinity as CaCO ₃	IS: 3025 (P-23): 2023	58.00	mg/l
6.	Chloride as Cl	IS: 3025(Part 32):1988, RA:2019	47.0	mg/l
7.	Total Dissolved Solids	IS 3025 (P-16): 2023	385.0	mg/l
8.	Sulphate as SO ₄	IS: 3025 (P-24): Sec.1: 2022	11.46	mg/l
9.	Fluoride as F	APHA (23 rd Edition), 4500FD:2017	0.19	mg/l
10.	Nitrate as NO ₃	IS: 3025 (P-34): 1988.(Chromotropic Method) Sec. 4 RA: 2022	8.26	mg/l
11.	Iron as Fe	APHA (23 rd Edition), 3113B: 2017	0.29	mg/l
12.	Chromium as Cr+6	APHA (23 rd Edition), 3500.CR-B	*BLQ(**LOQ-0.05)	mg/l
13.	Phenolic Compounds	APHA 23 rd Edition, 2017, 5530 C	*BLQ(**LOQ-0.001)	mg/l
14.	Zinc as Zn	APHA (23 rd Edition), 3111 B: 2017	0.35	mg/l
15.	Copper as Cu	APHA (23 rd Edition), 3111 B: 2017	*BLQ(**LOQ-0.02)	mg/l
16.	Cadmium as Cd	APHA (23 rd Edition), 3111 B: 2017	*BLQ(**LOQ-0.002)	mg/l
17.	Lead as Pb	APHA (23 rd Edition), 3111 B: 2017	*BLQ(**LOQ-0.005)	mg/l
18.	Arsenic as As	APHA (23 rd Edition), 3114C:2017	*BLQ(**LOQ-0.005)	mg/l
19.	Mercury as Hg	APHA (23 rd Edition) 3112 B, 2017	*BLQ(**LOQ-0.001)	mg/l
20.	Oil & Grease	IS:3025(P-39)	*BLQ(**LOQ-4.0)	mg/l
21.	BOD (3days at 27°C)	IS:3025(P-44):1993, RA:2019	9.12	mg/l
22.	COD	IS:3025(P-58):2006, RA:2017	45.0	mg/l
23.	DO	IS:3025(P-38):1989, RA:2019	5.2	mg/l
24.	TSS	IS:3025(P-17):2021	70.0	mg/l
Microbiological Parameters				
25.	Total Coliform	IS:15185: 2016	Present	Present/Absent per 100 ml
26.	Faecal Coliform	IS:15185: 2016	Present	

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

End of the report

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

9929108691, 9810205356, 8005707098, 9549956601

0141-2954638

bd@vibranttechnolab.com

www.vibranttechnolab.com

TEST REPORT

Sample Number:
Name & Address of the Party:

VTL/ W/01
M/s JK Cement Works, Panna
(A Unit Of JK Cement Ltd.) Kakra- Panna Limestone
Mines Village-Harduwaken Tehsil-Amanganj PIN-
488441 Dist-Panna
Ground Water

Report No.: VTL/W/2411170014
Format No.: 7.8 F-01
Party Reference No.: NIL
Report Date: 25/11/2024
Period of Analysis: 17 to 25/11/2024
Receipt Date: 17/11/2024
Sampling Date: 15/11/2024
Sampling Quantity: 2.0Ltr.+ 250 ml
Sampling Type: Grab

Sample Description:

Sample Collected by:
Preservation:
Parameter Required:
Sampling and Analysis Protocol:

Vibrant Techno Lab Representative
Suitable Preservation
As Per Work Order
APHA 24th Edition 2023

S.No.	Parameters	Test-Method	Kakra Mine Borewell	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	7.18	--	6.5 to 8.5	No Relaxation
2.	Colour	IS 3025 (Part 4) : 2021	*BLQ(**LOQ 1.0)	Hazen	5	15
3.	Turbidity	IS 3025 (Part 10) : 2023	*BLQ(**LOQ 1.0)	NTU	1	5
4.	Odour	IS 3025 (Part 5) : 2018	Agreeable	--	Agreeable	Agreeable
5.	Taste	IS 3025 (Part 8) : 2023	Agreeable	--	Agreeable	Agreeable
6.	Total Hardness as CaCO ₃	IS 3025 (Part 21) : 2009, RA : 2019	154.0	mg/l	200	600
7.	Calcium as Ca	IS 3025 (Part 40) : 1991, RA : 2019	51.0	mg/l	75	200
8.	Alkalinity as CaCO ₃	IS 3025 (Part 23) : 2023	68.0	mg/l	200	600
9.	Chloride as Cl	IS 3025 (Part 32) : 1988, RA : 2019	53.0	mg/l	250	1000
10.	Residual free Chlorine	IS 3025 (Part 26) : 2021 Clause 7.0	*BLQ(**LOQ 0.2)	mg/l	0.2	1
11.	Cyanide as CN	IS 3025 (Part 27/Sec 1) : 2022	*BLQ(**LOQ 0.02)	mg/l	0.05	No Relaxation
12.	Magnesium as Mg	APHA, 24 th Edition, 3500 Mg B, Calculation Method	6.50	mg/l	30	100
13.	Total Dissolved Solids	IS 3025 (Part 16) : 2023	487	mg/l	500	2000
14.	Sulphate as SO ₄	IS 3025 (Part 24/Sec 1) : 2022 Clause 5.0	32.8	mg/l	200	400
15.	Fluoride as F	APHA, 24 th Edition, 4500F-D : 2023	0.32	mg/l	1.0	1.5
16.	Nitrate as NO ₃	IS 3025 (Part 34/Sec 1) : 2023 Clause 6.4	11.41	mg/l	45	No Relaxation
17.	Iron as Fe	APHA 24 th Edition, 3111 B, 2023	0.19	mg/l	1.0	No Relaxation
18.	Aluminium as Al	IS 3025 (Part 55) : 2003, RA : 2019	*BLQ(**LOQ 0.03)	mg/l	0.03	0.2
19.	Boron	APHA, 24 th Edition, 4500 B-C : 2023	*BLQ(**LOQ 0.2)	mg/l	0.5	2.4
20.	Total Chromium as Cr	APHA, 24 th Edition, 3111 B : 2023	*BLQ(**LOQ 0.02)	mg/l	0.05	No Relaxation
21.	Phenolic compound as C ₆ H ₅ OH	APHA, 24 th Edition, 5530 C : 2023	*BLQ(**LOQ 0.001)	mg/l	0.001	0.002
22.	Anionic Detergent as MBAS	IS 3025 (Part 68) : 2019	*BLQ(**LOQ 0.05)	mg/l	0.2	1.0
23.	Zinc as Zn	APHA, 24 th Edition, 3111 B : 2023	*BLQ(**LOQ 0.2)	mg/l	5	15
24.	Copper as Cu	APHA, 24 th Edition, 3111 B : 2023	*BLQ(**LOQ 0.02)	mg/l	0.05	1.5
25.	Manganese as Mn	APHA, 24 th Edition, 3111 B : 2023	*BLQ(**LOQ 0.05)	mg/l	0.1	0.3
26.	Cadmium as Cd	APHA, 24 th Edition, 3111 B : 2023	*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)	mg/l	0.01	No Relaxation
28.	Selenium as Se	APHA, 24 th Edition, 3114 C : 2023	*BLQ(**LOQ 0.005)	mg/l	0.01	No Relaxation
29.	Arsenic as As	APHA, 24 th Edition, 3114 C : 2023	**BLQ(**LOQ 0.005)	mg/l	0.01	No Relaxation
30.	Mercury as Hg	APHA, 24 th Edition, 3112 B : 2023	*BLQ(**LOQ 0.001)	mg/l	0.001	No Relaxation
31.	Total Coliform	IS 15185 : 2016, RA 2021	Absent	Per 100 ml	Shall not be Detectable in Any 100 ml sample	
32.	E. Coli	IS 15185 : 2016, RA 2021	Absent			

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



Approved & Certified By  EPA 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/SW/01
M/s JK Cement Works, Panna
(A Unit Of JK Cement Ltd.) Kakra- Panna Limestone
Mines Village-Harduwaken Tehsil-Amanganj PIN-
488441 Dist-Panna
Surface Water

Report No.: VTL/W/2411170029
Format No.: 7.8 F-01
Party Reference No.: NIL
Report Date: 25/11/2024
Period of Analysis: 17 to 25/11/2024
Receipt Date: 17/11/2024
Sampling Date: 16/11/2024
Sampling Quantity: 2.0Ltr.+ 250 ml
Sampling Type: Grab

Sample Description:

Sample Collected by:
Preservation:
Parameter Required:
Sampling and Analysis Protocol:

Vibrant Techno Lab Team
Suitable Preservation
As Per Work Order
APHA 24th Edition 2023

S. No.	Parameter	Test Method	Run Off Water Kakra Mine	Unit
Physical Parameters				
1.	pH (at 25 °C)	IS 3025 (P-11): 2022	7.47	--
2.	Colour	IS 3025(P-4): 2021	6	Hazen
3.	Turbidity	IS 3025 (P-10): 2023	15	NTU
Chemical Parameters (mg/l)				
4.	Total Hardness as CaCO ₃	IS: 3025 (P-21): 2009, RA: 2019	158.00	mg/l
5.	Alkalinity as CaCO ₃	IS: 3025 (P-23): 2023	61.00	mg/l
6.	Chloride as Cl	IS: 3025(Part 32):1988, RA:2019	49.0	mg/l
7.	Total Dissolved Solids	IS 3025 (P-16): 2023	410.0	mg/l
8.	Sulphate as SO ₄	IS: 3025 (P-24): Sec.1 : 2022	10.78	mg/l
9.	Fluoride as F	APHA (23rd Edition), 4500FD:2017	0.23	mg/l
10.	Nitrate as NO ₃	IS: 3025 (P-34): 1988,(Chromotropic Method) Sec. 4 RA: 2022	9.75	mg/l
11.	Iron as Fe	APHA (23 rd Edition), 3113B: 2017	0.32	mg/l
12.	Chromium as Cr+6	APHA (23 rd Edition), 3500 CR-B	*BLQ(**LOQ-0.05)	mg/l
13.	Phenolic Compounds	APHA 23 rd Edition, 2017, 5530 C	*BLQ(**LOQ-0.001)	mg/l
14.	Zinc as Zn	APHA (23 rd Edition), 3111 B: 2017	0.41	mg/l
15.	Copper as Cu	APHA (23 rd Edition), 3111 B: 2017	*BLQ(**LOQ-0.02)	mg/l
16.	Cadmium as Cd	APHA (23 rd Edition), 3111 B: 2017	*BLQ(**LOQ-0.002)	mg/l
17.	Lead as Pb	APHA (23 rd Edition), 3111 B: 2017	*BLQ(**LOQ-0.005)	mg/l
18.	Arsenic as As	APHA (23 rd Edition), 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l
19.	Mercury as Hg	APHA (23 rd Edition), 3112 B, 2017	*BLQ(**LOQ-0.001)	mg/l
20.	Oil & Grease	IS:3025(P-39)	*BLQ(**LOQ-4.0)	mg/l
21.	BOD (3days at 27°C)	IS:3025(P-44):1993, RA:2019	8.12	mg/l
22.	COD	IS:3025(P-58):2006, RA:2017	50.0	mg/l
23.	DO	IS:3025(P-38):1989, RA:2019	4.9	mg/l
24.	TSS	IS:3025(P-17):2021	65.0	mg/l
Microbiological Parameters				
25.	Total Coliform	IS:15185: 2016	Present	Present/Absent per 100 ml
26.	Faecal Coliform	IS:15185: 2016	Present	

Note: - *BLQ-Below Limit of Quantification, **LOQ- Limit of Quantification
End of the report

Checked By



RK Yadav
Lab Incharge
Authorized Signatory

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

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Term & conditions PTO

TEST REPORT

Sample Number:
Name & Address of the Party:

VTL/ W/01
M/s JK Cement Works, Panna
(A Unit Of JK Cement Ltd.) Kakra- Panna Limestone
Mines Village-Hardwaken Tehsil-Amanganj PIN-
488441 Dist-Panna
Ground Water

Sample Description:

Sample Collected by:
Preservation:
Parameter Required:
Sampling Protocol:

Vibrant Techno Lab Representative
Suitable Preservation
As Per Work Order
APHA 24th Edition 1060, 2023

Report No.: VTL/W/2501230014
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: 18/01/2025
Sampling Quantity: 2.0Ltr.+ 250 ml
Sampling Type: Grab

S.No.	Parameters	Test-Method	Kakra Mine Borewell	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	7.23	--	6.5 to 8.5	No Relaxation
2.	Colour	IS 3025 (Part 4) : 2021	*BLQ(**LOQ 1.0)	Hazen	5	15
3.	Turbidity	IS 3025 (Part 10) : 2023	*BLQ(**LOQ 1.0)	NTU	1	5
4.	Odour	IS 3025 (Part 5) : 2018	Agreeable	--	Agreeable	Agreeable
5.	Taste	IS 3025 (Part 8) : 2023	Agreeable	--	Agreeable	Agreeable
6.	Total Hardness as CaCO ₃	IS 3025 (Part 21) : 2009, RA : 2019	192.0	mg/l	200	600
7.	Calcium as Ca	IS 3025 (Part 40) : 2024	53.0	mg/l	75	200
8.	Alkalinity as CaCO ₃	IS 3025 (Part 23) : 2023	75.0	mg/l	200	600
9.	Chloride as Cl	IS 3025 (Part 32) : 1988, RA : 2019	68.0	mg/l	250	1000
10.	Residual free Chlorine	IS 3025 (Part 26) : 2021 Clause 7.0	*BLQ(**LOQ 0.2)	mg/l	0.2	1
11.	Cyanide as CN	IS 3025 (Part 27/Sec 1) : 2022	*BLQ(**LOQ 0.02)	mg/l	0.05	No Relaxation
12.	Magnesium as Mg	IS 3025 (Part 46):2023	14.52	mg/l	30	100
13.	Total Dissolved Solids	IS 3025 (Part 16) :2023	675	mg/l	500	2000
14.	Sulphate as SO ₄	IS 3025 (Part 24/Sec 1) : 2022 Clause 5.0	38.9	mg/l	200	400
15.	Fluoride as F	APHA, 24 th Edition, 4500F-D : 2023	0.39	mg/l	1.0	1.5
16.	Nitrate as NO ₃	IS 3025 (Part 34/Sec 1) : 2023 Clause 6.4	18.67	mg/l	45	No Relaxation
17.	Iron as Fe	APHA 24 th Edition, 3111 B, 2023	0.27	mg/l	1.0	No Relaxation
18.	Aluminium as Al	IS 3025 (Part 55) : 2003, RA : 2019	*BLQ(**LOQ 0.03)	mg/l	0.03	0.2
19.	Boron	APHA, 24 th Edition, 4500 B-C : 2023	*BLQ(**LOQ 0.2)	mg/l	0.5	2.4
20.	Total Chromium as Cr	APHA, 24 th Edition, 3111 B : 2023	*BLQ(**LOQ 0.02)	mg/l	0.05	No Relaxation
21.	Phenolic compound as C ₆ H ₅ OH	APHA, 24 th Edition, 5530 C : 2023	*BLQ(**LOQ 0.001)	mg/l	0.001	0.002
22.	Anionic Detergent as MBAS	IS 3025 (Part 68) : 2019	*BLQ(**LOQ 0.05)	mg/l	0.2	1.0
23.	Zinc as Zn	APHA, 24 th Edition, 3111 B : 2023	*BLQ(**LOQ 0.2)	mg/l	5	15
24.	Copper as Cu	APHA, 24 th Edition, 3111 B : 2023	*BLQ(**LOQ 0.02)	mg/l	0.05	1.5
25.	Manganese as Mn	APHA, 24 th Edition, 3111 B : 2023	*BLQ(**LOQ 0.05)	mg/l	0.1	0.3
26.	Cadmium as Cd	APHA, 24 th Edition, 3111 B : 2023	*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)	mg/l	0.01	No Relaxation
28.	Selenium as Se	APHA, 24 th Edition, 3114 C : 2023	*BLQ(**LOQ 0.005)	mg/l	0.01	No Relaxation
29.	Arsenic as As	APHA, 24 th Edition, 3114 C : 2023	**BLQ(**LOQ 0.005)	mg/l	0.01	No Relaxation
30.	Mercury as Hg	APHA, 24 th Edition, 3112 B : 2023	*BLQ(**LOQ 0.001)	mg/l	0.001	No Relaxation
31.	Total Coliform	IS 15185 : 2016	Absent	Per 100 ml	Shall not be Detectable in Any 100 ml sample	
32.	E. Coli	IS 15185 : 2016	Absent			

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

Checked By



RK Yadav
Lab Incharge
Authorized Signatory

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

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AMBIENT AIR QUALITY AT MINE (CORE ZONE)
(Year 2024-25)

Area	Description	Permissible Limit ($\mu\text{g}/\text{m}^3$)	Yearly Average ($\mu\text{g}/\text{m}^3$)	% variation from limit
Near Mine office	PM ₁₀	60	47.81	-20.32
	PM _{2.5}	40	27.11	-32.23
	SO ₂	50	7.85	-84.30
	NO _x	40	16.96	-57.60
Near Crusher Area	PM ₁₀	60	52.96	-11.73
	PM _{2.5}	40	29.99	-25.02
	SO ₂	50	8.07	-83.86
	NO _x	40	16.97	-57.59
Kakra Mine Lease Area	PM ₁₀	60	48.26	-19.56
	PM _{2.5}	40	27.31	-31.73
	SO ₂	50	8.45	-83.10
	NO _x	40	17.03	-57.43

AMBIENT AIR QUALITY AT MINE (BUFFER ZONE)
(Year 2024-25)

Area	Description	Permissible Limit ($\mu\text{g}/\text{m}^3$)	Yearly Average ($\mu\text{g}/\text{m}^3$)	% variation from limit
Purena Village	PM ₁₀	60	46.63	-22.28
	PM _{2.5}	40	26.28	-34.29
	SO ₂	50	7.69	-84.63
	NO _x	40	15.57	-61.08
Kamtana Village	PM ₁₀	60	42.64	-28.93
	PM _{2.5}	40	24.11	-39.73
	SO ₂	50	8.17	-83.67
	NO _x	40	16.74	-58.15
Pagra Village	PM ₁₀	60	47.67	-20.55
	PM _{2.5}	40	26.85	-32.88
	SO ₂	50	7.41	-85.18
	NO _x	40	16.05	-59.89
Sotipura Village	PM ₁₀	60	44.75	-25.41
	PM _{2.5}	40	25.26	-36.86
	SO ₂	50	8.04	-83.92
	NO _x	40	15.82	-60.46



TEST REPORT

Annexure-4

Sample Number: VTL/ N/01-11

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

Sample Description : Ambient Noise Level Monitoring

Report No.: VTL/N/2409160014-24

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 Kakra Office	07-08/09/2024	Leq	65.7	57.4
2	Kakra Crusher	07-08/09/2024	Leq	60.5	49.3
3	Kakra Mine Pit	07-08/09/2024	Leq	64.5	53.2
4	Near Kakra Mine Security Cabin	07-08/09/2024	Leq	57.3	44.6
5	Kakra Village	02-03/09/2024	Leq	51.5	38.9
6	Suhwani Kalan Village	11-12/09/2024	Leq	53.6	41.7
7	Simariya Village	11-12/09/2024	Leq	54.3	42.6
8	Tighara Village	11-12/09/2024	Leq	52.9	40.3
9	Khol Kahiya Village	12-13/09/2024	Leq	54.3	41.2
10	Garhi karhiya Village	12-13/09/2024	Leq	53.9	42.1
11	Khamagaur Village	12-13/09/2024	Leq	54.1	41.8

Category of Zones

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

1. Day Time is from 6.00 AM to 10.00 PM.

2. Night Time is reckoned between 10.00 PM to 6.00 AM.

3. Silence Zone is defined as an area up to 100 m around premises of Hospitals, Educational and Courts. Use of vehicle horn, Loudspeaker and bursting of crackers is banned in these zones.

Note: Mixed categories of areas be declared as one of the four above mentioned categories by the competent Authority and the corresponding standards shall apply

Checked By



RK Yadav

Lab Incharge
Authorized Signatory

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

Vibrant Techno Lab Pvt. Ltd.

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www.vibranttechnolab.com

Term & conditions PTO



TEST REPORT

Name & Address of Party:

VTL/ N/01-13
M/s JK Cement Works, Panna
(A Unit Of JK Cement Ltd.) Kakra- Panna
Limestone Mines Village-Harduwaken Tehsil-
Amanganj PIN-488441 Dist-Panna
Sample Description : Ambient Noise Level Monitoring

Report No.: VTL/N/2409160001-13
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	Hardua Village	08-09/09/2024	Leq	52.4	42.3
2	Saptai Village	08-09/09/2024	Leq	49.0	39.5
3	Puraina Village	08-09/09/2024	Leq	47.5	37.9
4	Pagra Village	09-10/09/2024	Leq	51.7	40.2
5	Kamtana Village	09-10/09/2024	Leq	49.2	38.0
6	Udla Village	09-10/09/2024	Leq	52.7	43.5
7	Sotipura Village	09-10/09/2024	Leq	53.2	42.8
8	Hinauta Village	09-10/09/2024	Leq	51.9	43.1
9	Purwa Village	10-11/09/2024	Leq	52.6	41.9
10	Amanganj	10-11/09/2024	Leq	54.3	43.7
11	Bhupat Pura Village	10-11/09/2024	Leq	52.8	42.3
12	Mohadkh Village	10-11/09/2024	Leq	53.2	41.5
13	Umeri Village	11-12/09/2024	Leq	52.8	42.1
Category of Zones		Leq in dB (A)			
		Day		Night	
Industrial		75		70	
Commercial		65		55	
Residential		55		45	
Silence Zone		50		40	
1. Day Time is from 6.00 AM to 10.00 PM. 2. Night Time is reckoned between 10.00 PM to 6.00 AM. 3. Silence Zone is defined as an area up to 100 m around premises of Hospitals, Educational and Courts. Use of vehicle horn, Loudspeaker and bursting of crackers is banned in these zones. Note: Mixed categories of areas be declared as one of the four above mentioned categories by the competent Authority and the corresponding standards shall apply					

Checked By



RK Yadav

Lab Incharge
Authorized Signatory

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

Vibrant Techno Lab Pvt. Ltd.

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Term & condition: PTO



TEST REPORT

Sample Number:
Name & Address of Party:

VTL/ N/17-21
M/s JK Cement Works, Panna
(A Unit Of JK Cement Ltd.) Kakra- Panna
Limestone Mines Village-Harduwaken Tehsil-
Amanganj PIN-488441 Dist-Panna
Ambient Noise Level Monitoring

Report No.: VTL/N/2411170017-21
Format No.: 7.8 F-04
Party Reference No.: NIL
Report Date: 25/11/2024
Receipt Date: 17/11/2024

Sample Description :

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 Kakra Office	11-12/11/2024	Leq	63.4	55.9
2	Kakra Crusher	11-12/11/2024	Leq	58.1	47.6
3	Kakra Mine Pit	11-12/11/2024	Leq	61.3	50.8
4	Near Kakra Mine Security Cabin	11-12/11/2024	Leq	59.2	42.1
5	Kakra Village	11-12/11/2024	Leq	49.7	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

Name & Address of Party: VTL/ N/01-13
M/s JK Cement Works, Panna
(A Unit Of JK Cement Ltd.) Kakra- Panna
Limestone Mines Village-Harduwaken Tehsil-
Amanganj PIN-488441 Dist-Panna

Sample Description : Ambient Noise Level Monitoring

Report No.: VTL/N/2411170006-18
Format No.: 7.8 F-04
Party Reference No.: NIL
Report Date: 25/11/2024
Receipt Date: 17/11/2024

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	Hardua Village	10-11/11/2024	Leq	51.6	40.8
2	Saptai Village	10-11/11/2024	Leq	48.3	39.1
3	Puraina Village	10-11/11/2024	Leq	46.5	38.2
4	Pagra Village	10-11/11/2024	Leq	52.7	43.1
5	Kamtana Village	10-11/11/2024	Leq	50.4	41.9
6	Udla Village	10-11/11/2024	Leq	51.8	42.5
7	Sotipura Village	10-11/11/2024	Leq	49.7	38.6
8	Hinauta Village	10-11/11/2024	Leq	50.2	41.2
9	Purwa Village	10-11/11/2024	Leq	51.6	42.1
10	Amanganj	11-12/11/2024	Leq	48.9	40.3
11	Bhupat Pura Village	11-12/11/2024	Leq	50.3	41.8
12	Mohadkh Village	11-12/11/2024	Leq	49.8	38.5
13	Umeri Village	11-12/11/2024	Leq	51.0	43.2
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/ N/01-05
Name & Address of Party: M/s JK Cement Works, Panna
(A Unit Of JK Cement Ltd.) Kakra- Panna
Limestone Mines Village-Harduwaken Tehsil-
Amanganj PIN-488441 Dist-Panna
Sample Description : Ambient Noise Level Monitoring

Report No.: VTL/N/2503010006-10
Format No.: 7.8 F-04
Party Reference No.: NIL
Report Date: 05/03/2025
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 Kakra Office	11-12/11/2024	Leq	67.4	58.2
2	Kakra Crusher	11-12/11/2024	Leq	62.9	53.1
3	Kakra Mine Pit	11-12/11/2024	Leq	63.7	51.9
4	Near Kakra Mine Security Cabin	11-12/11/2024	Leq	57.3	43.7
5	Kakra Village	11-12/11/2024	Leq	48.1	39.4

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

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

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TEST REPORT

Sample Number: VTL/ N/01-13
 Name & Address of Party: M/s JK Cement Works, Panna
 (A Unit Of JK Cement Ltd.) Kakra- Panna
 Limestone Mines Village-Harduwaken Tehsil-
 Amanganj PIN-488441 Dist-Panna
 Sample Description : Ambient Noise Level Monitoring

Report No.: VTL/N/2503010011-23
 Format No.: 7.8 F-04
 Party Reference No.: NIL
 Report Date: 05/03/2025
 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	Hardua Village	19-20/02/2025	Leq	52.6	42.7
2	Saptai Village	19-20/02/2025	Leq	47.5	40.2
3	Puraina Village	19-20/02/2025	Leq	49.1	41.3
4	Pagra Village	19-20/02/2025	Leq	53.7	41.9
5	Kamtana Village	19-20/02/2025	Leq	48.9	39.7
6	Udla Village	20-21/02/2025	Leq	52.1	40.8
7	Sotipura Village	20-21/02/2025	Leq	50.5	42.0
8	Hinauta Village	20-21/02/2025	Leq	53.2	43.1
9	Purwa Village	20-21/02/2025	Leq	49.9	40.3
10	Amanganj	20-21/02/2025	Leq	51.4	42.1
11	Bhupat Pura Village	21-22/02/2025	Leq	48.7	39.8
12	Mohadkh Village	21-22/02/2025	Leq	50.5	41.3
13	Umeri Village	21-22/02/2025	Leq	52.2	40.8
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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