

JK Cement Works, Panna (Formerly known as Jaykaycem (Central) Ltd. now amalgamated) A Unit of JK Cervent Ltd.

CIN: L17229UP1994PLC017199

Village - Harduwaken, Tehsil - Amangani District - Panna, State - Machyw Pradesh, India - 488 441

ધ 9329141591 🚨 [kc.panna@jkcement.com

@ www.jkcement.com

Ref.No.: JKCEMENT/ENV./EC/KAKRA/2025-26/03/17 Date: 20.05.2025

To, Regional Office (WZ), Kendriya Paryavaran Bhawan, E-5, Arera Colony, Link Road-3, Ravi Shankar Nagar BHOPAL - 462 016 E-Mail: rowz.bpl-mef@nic.in

Subject: Submission of Half yearly Environment Clearance Compliance Status Report for the period from October -2024 to March-2025 of Kakra Panna Limestone Mine of M/s J K Cement Ltd. Located at Villages Kakra, Kamtana, Saptai, Judi, Devri, Purohit, & Devra, Tehsil Amanganj, District Panna of State Madhya Pradesh.

Ref.: 1- Environment Clearance vide no F. No. J-11015/190/2016-IA. II (M) dated 31.08.2020.

- 2- Corrigendum in EC vide letter No. J-11015/190/2016-IA.II (M) dated 08.03.2021.
- 3- Amendment EC letter no. J-11015/190/2016-IA. II (M) dated 18.10.2023.
- 4- Name Change in EC letter no. J-11015/190/2016-IA. II (M) dated 23.01.2024

Dear Sir,

With reference to above stated Environment Clearance (EC) and MoEF & CC notification no. S.O.5845(E) 26.11.2018, we area submitting Half Yearly Environmental Clearance Compliance Status Report for the period from October 2024 to March-2025 of Kakra Panna Limestone Mine of M/s J K Cement Ltd, located at Villages Kakra, Kamtana, Saptai, Judi, Devri, Purohit, & Devra, Tehsil Amanganj, District Panna, Madhya Pradesh through email, this is for your kind information and record please.

Thank you,

Yours Sincerely

For: Kakra-Panna Limestone Mine (A Unit of M/s J K Cement Limited.)

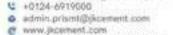
Kapil Agrawal (Unit Head)

Encl.: Copy of EC Compliance Status Report Soft copy sent by mail to:

- 1. Member Secretary, MP Pollution Control Board, Paryawaran Parisar, E-5, Arera Colony, Bhopal (MP).
- 2. Regional Officer, Regional Office, MP Pollution Control Board, Makronia, Sagar (MP)
- 3. Regional Director- CPCB, Paryawaran Parisar, E-5, Arera Colony, Bhopal (MP).
- 4. Deputy Director General of forest (C), MoEFCC, Integrated Regional Office, Bhopal-462016.
- 5. The Director, MoEFCC, Indira Paryavaran Bhavan, New Delhi-11003







CIN: 117229UP1994PLC017199





Manufacturing Units at a Nimbahera, Mangrol, Gotan (Rajasthuri | Muddapur (Karnataka) Jharli (Haryone) | Katni, Penna, Ujain (M.P.) | Prayagraj, Aligarh, Hamirpur (U.P.) | Balasinor (Gujarati | Fujairah

Environmental Clearance to M/s J K Cement Limited issued for Kakra-Panna Limestone Mine for production of 4.08 MTPA Limestone, 1.51 MTPA inter-burden, 1.26 MTPA soil/Alluvium, 0.18 MTPA Mine waste and 0.58 MTPA sub-grade mineral [Total Excavation 7.61 MTPA] in the ML area 1594.35 Ha, at Villages Kakra, Kamtana, Saptai, Judi, Devri Purohit and Devra, Tehsil Amanganj, District Panna, Madhya Pradesh.

Environment Clearance vide no F. No. J-11015/190/2016-IA. II (M) dated 31st August 2020, Corrigendum in EC vide letter No. J-11015/190/2016-IA.II (M) dated 8th March, 2021 and Amendment in EC vide F. No. J-11015/190/2016-IA. II (M) dated 18th October 2023

Sno	Amendment in EC vide F. No. J-11015/190	/2016-IA. II (M) dated 18" October 2023
l.	Mining shall be restricted to the land already acquired near the Judi Village (about 235 ha). Meanwhile the PP may acquire the land, modify the mining sequence to avoid the void in west side of Dewra Village and approach the Ministry for revalidation or amendment in environmental clearance for permission for the entire area proposed for mining within the ML area.	Complied. This condition has been amended by MoEF&CC vide Amended EC no. F. No. J-11015/190/2016-IA. II (M) dated 18 th October 2023, to carry out mining activity in the entire lease area as per the approved mining plan. Amended EC copy and revised mining plan approval copy are enclosed as Annexure-1 & 2 respectively.
II.	The safety barrier of 100 m against the village / Habitation; 45 m on either side of the Nallah; 50 m on either side of the village roads shall be left as non-mining zone and thick green belt shall be developed with native species before commencement of mining operations in the area. No mining shall be carried up to 250 m distance from the bank of Ken River and an embankment of not less than 3 m height above the HFL shall be constructed and thick	Compliance on progress. The safety barrier of 100 m against the village / Habitation; 45 m on either side of the Nallah; 50 m on either side of the village roads have been left as non-mining zone and thick green belt is being developed with native species. Complied. No mining is being carried up to 250 m distance from the bank of the Ken River and thick green belt is being developed with native species.
IV.	green belt shall be developed with native species before commencement of mining operations in the area. The PP shall adopt control basting with necessary permission from the Director General of Mines Safety within 300 m from the village / Habitation boundary and non-conventional mining with ripper dozer or other mechanical means by avoiding the blasting within 100 m from the village / Habitation boundary. Thick plantation with native and broad-leaved species shall be developed in the safety	Complied. We have adopted control basting techniques with necessary permission from the Director General of Mines Safety to do blasting within 300 m from the village / Habitation boundary. Mining is being done faraway from village/ habitation boundary. Distance from Mine Pit (meter)
	barrier left against the Habitations before commencement of mining operations in the area.	Pit Dewra Kakra Judi Kamtana Village Village Village Pit 1 750 1380 3000 3600 Thick plantation with native and broad-leaved species is being developed in the safety barrier. DGMS permission copy is enclosed as Annexure-3.

٧. The ground induced blasting vibrations shall be Complied. monitored regularly for every blast performed and The ground induced blasting vibrations is being the values of "Peak Particle Velocity" and "Air monitored regularly for every blast performed and Over Pressure" shall be maintained below the the values of "Peak Particle Velocity" and "Air Over permissible values prescribed by the DGMS, from Pressure" is well within the permissible values time to time. prescribed by the DGMS. A blasting vibration report attached as Annexure-4. VI. No external dumping of overburden and/or sub-Complied. grade material shall made No external dumping of overburden and/or subbe outside the mining lease area. grade material is being done outside the mining lease area. VII. Site specific conservation plan for all the Schedule-Complied. I species reported in the study area shall be We have already deposited Rs. 289.90 Lakh via. E implemented in consultation with State Forest Cheque no. CTY3061751 dated 19.08.2023 as per Department as per the recommendations of Chief fund allocated for implementation of approved Wild Wildlife Warden. Life Conservation Plan (WLCP) approval Letter no. V.Pra/Ma.Chi./8847 dated 13.12.2019 for JK Cement Limited Integrated Cement Plant Project. Acknowledgement copy of amount deposition is given below: However, we are following the State Forest Department regarding implementation of Wildlife conservation plan and letters have been submitted to the Wild Life Department on dated 06.03.2024 via letter no. JKCEMENT/PCP/EMD/2023-24/F 04/10, follow up letter on 18.04.2024 via letter no. JKCEMENT/PCP/EMD/2024-25/F 04/11, follow up letter on 02.01.2025 via letter no. JKCEMENT/PCP/EMD/2024-25/F 04/16. Copy is given below.





Acknowledgement copy of amount deposition in WLCP

VIII. Total Excavation shall not be exceeded to 7.61 which includes 4.08 MTPA Lime Stone, 0.58 MTPA sub-grade limestone, 1.51 MTPA Inter burden, Soil/Alluvium 1.26 MTPA, Mine Waste 0.18 MTPA.

Complied.

Our mine was commissioned on dated 30.01.2023 and production & dispatched of limestone started from the

from Apr-24 to March-25 is following:

Sr.	Production	Permission	FY:2024-25
No		(MTPA)	(MTPA)
1	Limestone	4.08	1.79
2	Sub-grade Limestone	0.58	0.00
3	Inter burden	1.51	0.29
4	Soil/ Alluvium	1.26	0.47
5	Mine waste	0.18	0.00

IX. Plantation shall be carried out as per the mining plan both concurrent and closer phase reclamation, inter alia, including plantation all along the boundary of the mining lease shall be completed within 2 years of commencement of mining operations, with a sapling of native and broad-leaved species of not less than 12 feet and shall maintain the record of the same, gap plantation and grassing as per the directions of the Hon'ble Supreme Court

Compliance in progress.

Plantation is being done as per the EC conditions and the approved mining plan.

A total of 31334 nos of sapling of native and broadleaved species have been planted in 12.54 Ha of area up to March-2025. proper record of plantation is being maintained.





Plantation photo

X. The project proponent shall implement the commitments made on the issues raised in PH and activities proposed under CER, in a period of three years and record for the same shall be maintained and audited and reported to the Regional Office of the Ministry along with the compliance reports

Complied.

The commitments made on the issues raised in PH and activities proposed under CER is being executed. Present status is given below table:

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



Sotipura, Madhya Pradesh, India
8X0F-HW, Senjara, Madhya Pradesh 488441, India

Bridge constructed at Kakra village

Construction of ITI collage at Plant premises









Financial assistance provided to MP Tiger Foundation Society

Support 25 orphaned children with financial help

XI.	All	the	mitigation		mea	measures		committed /		/
	env	isage	d in	the	EL	A/EIV	I P	repor	t a	and
	sub	seque	ent sub	missio	on sh	all be	e im	pleme	nted	
XII.	In p	oursua	ant to	Minis	trv's	0.M	No	22-34	1/20°	18-

In pursuant to Ministry's 0.M No 22-34/2018-IA.III dated 16.01.2020to comply with the direction made by Hon'ble Supreme Court on 8.01.2020 in W.P. (Civil) No 114/2014 in the matter Common Cause vs Union of India, the

matter Common Cause vs Union of India, the mining lease holder shall after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to other mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc.

Complied.

Complied.

The mining lease after ceasing mining operations will be re-grassed and any other area which may have been disturbed due to other mining activities and will be restore the land to a condition which is fit for growth of fodder, flora, fauna etc.

B. Standard EC Conditions:

I. Statutory compliance

1) The EC granted to the project/ activity is strictly under the provisions of the EIA Notification, 2006 and its amendments issued from time to time. It does not tantamount/ construe to approvals/ consent/ permissions etc. required to be obtained or standards / conditions to be followed under any other Acts/ Rules/ Subordinate legislations, etc., as may be applicable to the project.

2) The Project proponent complies with all the statutory requirements and judgment of Hon'ble Supreme Court dated 2nd August,2017 in Writ Petition (Civil) No. 114 of 2014 in matter of Common Cause versus Union of India & Ors before commencing the mining operations.

Complied.

EC amendments are obtained under the provisions of the EIA Notification, 2006 and its amendments issued from time to time.

EC condition was amended via EC vide F. No. J-11015/190/2016-IA. II (M) dated 18th October 2023.

Complied.

The content of the judgement is being complied. Mining is being done after obtaining applicable permissions. We have an IBM approved Mining plan and mining is being done as per mining plan. Production is within the permissible limit.

The State Government concerned shall ensure that mining operation shall not be commenced till the entire compensation levied, if any, for illegal mining paid by the Project Proponent through their respective Department of Mining & Geology in strict compliance of Judgment of Hon'ble Supreme Court dated 2nd August, 2017 in Writ Petition (Civil) No. 114 of 2014 in matter of Common Cause versus Union of India & Ors.

Compliance not applicable.

The subject proposal is green field project and the case of illegal mining does not occur. The mining activity is being done in the land which is already purchased and registered in the name of company.

4) The Project Proponent shall follow the mitigation measures provided in MoEFCC's Office Memorandum No. Z-11013/57/2014-IA.II (M), dated 29th October, 2014, titled "Impact of mining activities on Habitations-Issues related to the mining Projects wherein Habitations and villages are the part of mine lease areas or Habitations and villages are surrounded by the mine lease area".

Complied.

We have been granted mining lease area after leaving of habitation and villages part. However, we assure that we will follow the mitigation measures provided in MoEFCC's Office Memorandum No. Z-11013/57/2014-IA.II (M), dated 29th October, 2014, titled "Impact of mining activities on Habitations-Issues related to the mining Projects wherein Habitations and villages are the part of mine lease areas or Habitations and villages are surrounded by the mine lease area". Best Mining Practices have adopted and controlled blasting is being done.

5) A copy of EC letter will be marked to concerned Panchayat / local NGO etc. if any, from whom suggestion / representation has been received while processing the proposal.

Complied.

The copy of EC letter has been provided to the concerned Panchayat vide letter No. PN/EMD/CWLA/F 12/012, dated 05.09.2020 and copy of the same already send to all concerns on 07.09.2020.



Copy of acknowledgement of gram panchayat during received EC copy.

6) State Pollution Control Board/Committee shall be responsible for display of this EC letter at its Regional office, District Industries Centre and Collector's office/ Tehsildar's Office for 30 days.

Not Applicable.

7) The Project Authorities should widely advertise about the grant of this EC letter by printing the same in at least two local newspapers, one of which shall be in vernacular language of the concerned area. The advertisement shall be done within 7 days of the issue of the clearance letter mentioning that the instant project has been accorded EC and copy of the EC letter is available with the State Pollution Control Board/Committee and web site of the Ministry of Forest and Climate Environment, Change (www.parivesh.nic.in). A copy of the advertisement may be forwarded to the concerned MoEFCC Regional Office for compliance and record.

Complied.

The advertisement about the grant of EC letter for the project has been published in two local newspapers namely Dainik Jagran and Raj Express dated 04.09.2020 and copy of the same already send to all concerns on 07.09.2020. Copy is attached below





Advertisement in News paper

8) The Project Proponent shall inform the MoEF&CC for any change in ownership of the mining lease. In case there is any change in ownership or mining lease is transferred than mining operation shall only be carried out after transfer of EC as per provisions of the para 11 of EIA Notification, 2006 as amended from time to time.

Complied.

Change in ownership of the mining lease name changes in EC on dated 23.01.2024.



Name changes in EC copy

II. Air quality monitoring and preservation

The Project Proponent shall install a minimum of 3 (three) online Ambient Air Quality Monitoring Stations with 1 (one) in upwind and 2 (two) in downwind direction based on long term climatological data about wind direction such that an angle of 120° is made between the monitoring locations to monitor critical parameters, relevant for mining operations, of air pollution viz. PM10, PM2.5, NO2, CO and SO2 etc. as per the methodology mentioned in NAAQS Notification No. B-29016/20/90/PCI/I dated18.11.2009 covering the aspects of transportation and use of heavy machinery in the impact zone.

The ambient air quality shall also be monitored at prominent places like office building, canteen etc. as per the site condition to ascertain the exposure characteristics at specific places. The above data shall be digitally displayed within 03 months in front of the main Gate of the mine site.

Complied.

We have installed 03 Nos. Continuous Ambient Air Quality Monitoring Station (CAAQMS) close to boundary of the mine lease. Pictures are given below. The ambient air quality in core zone and buffer zone are also being monitored by NABL approved lab and displayed at main gate. Ambient Monitoring reports screenshot mention below.

Ambient Air monitored also done by NABL approved lab. Monitoring reports are attached as **Annexure 5**.

1-CAAQMs behind Store



2-CAAQMs near Reservoir



3- CAAQMS near Kamtana Village





Data display in main Gate of the Kakra mine site

10) Effective safeguard measures for prevention generation and subsequent dust suppression (like regular water sprinkling, metaled road construction etc.) shall be carried out in areas prone to air pollution wherein high levels of PM10 and PM2.5 are evident such as haul road, loading and unloading point and transfer points. The Fugitive dust emissions from all sources shall be regularly controlled by installation of required equipments/ machineries and preventive maintenance. Use of suitable water-soluble chemical dust suppressing agents

Complied.

Water sprinkling is being carried out for controlling the fugitive dust emission (Photo given below) and bag filter has been installed at material transfer point in crusher. Fugitive Emission reports are attached as **Annexure-6.**

may be explored for better effectiveness of dust control system. It shall be ensured that air pollution level conform to the standards prescribed by the MoEFCC/ Central Pollution Control Board



Water sprinkling photo

III. Water quality monitoring and preservation

In case, immediate mining scheme envisages intersection of ground water table, then Environmental Clearance shall become operational only after receiving formal clearance from CGWA. In case, mining operation involves intersection of ground water table at a later stage, then PP shall ensure that prior approval from CGWA and MoEFCC is in place before such operations. The permission for minina intersection of ground water table shall essentially be based on detailed hydro-geological study of the area

Complied.

The NOC form CGWA had already been obtained vide no. CGWA/NOC/ MIN/REN/1/2025/11450 dated 16.04.2025, valid up to 02.02.2026 for use of ground water as well as for intersection of water table during the course of mining operation. Ground water NOC renewal copy screenshot mention below.

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Renewal NOC copy

Project Proponent shall regularly monitor and maintain records w.r.t. ground water level and quality in and around the mine lease by establishing a network of existing wells as well as new piezo-meter installations during the mining operation in consultation with Central Ground Water Authority/ State Ground Water Department. The Report on changes in Ground water level and quality shall be submitted on six-monthly basis to the Regional Office of the Ministry, CGWA and State Groundwater Department / State Pollution Control

Complied.

We are monitoring and maintaining records w.r.t. ground water level and quality in and around the mine. Ground water level & Quality test report are being submitted to MoEFCC, CGWA and State Groundwater Department / State Pollution Control Board. Latest report is submitted by e-mail dated 25.02.2025 (Ground water level) & (Surface water & quality test report).

However, Ground water level and Quality reportare enclosed as **Annexure-7 and Annexure 7A.**





Water Level & water Quality test report submission by Email.

13) The Project Proponent shall undertake regular monitoring of natural water course/ water resources/springs and perennial nallahs existing/ flowing in and around the mine lease including upstream and downstream. Sufficient number of gullies shall be provided at appropriate places within the lease for management of water. The parameters to be monitored shall include their water quality vis-à-vis suitability for usage as per CPCB criteria and flow rate. It shall be ensured that no obstruction and/ or alteration be made to water bodies during mining operations without justification and prior approval of MoEFCC. The monitoring of water courses/ bodies existing in lease area shall be carried out four times in a year viz. pre- monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January) and the record of monitored data may be sent regularly to Ministry of Environment, Forest and Climate Change and its Regional Office, Central Ground Water Authority and Regional Director, Central Ground Water Board, State Pollution Control Board and Central Pollution Control Board. Clearly showing the trend analysis on sixmonthly basis.

Complied.

Regular water quality is being monitored four times in a year viz. pre- monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January) and the record of monitored data is been sent regularly to the Ministry of Environment, Forest and Climate Change and its Regional Office, Central Ground Water Authority and the Regional Director, Central Ground Water Board, State Pollution Control Board and Central Pollution Control Board.

Surface water quality reports are enclosed as **Annexure-8**.

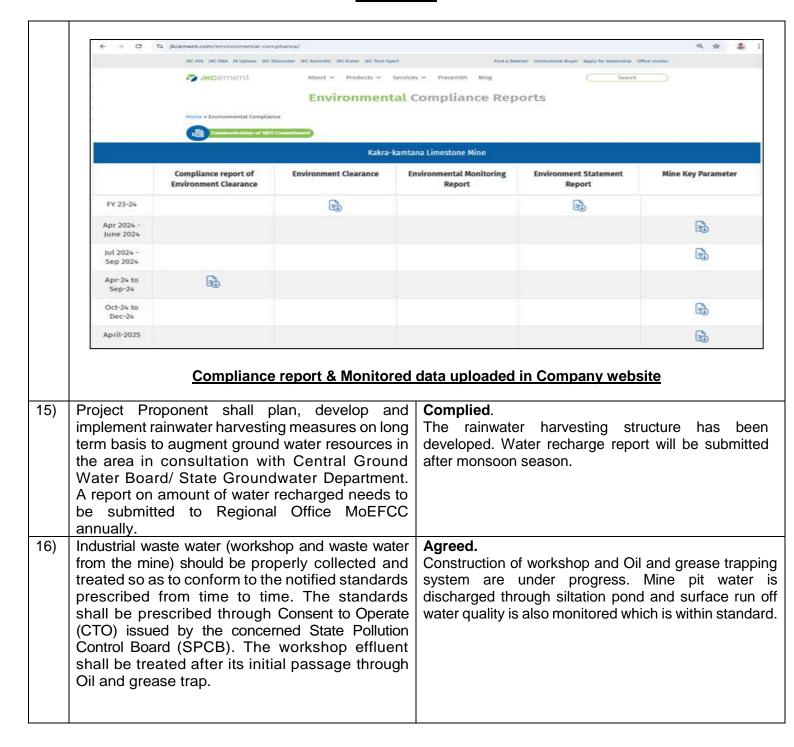
Quality of polluted water generated from mining operations which include Chemical Oxygen Demand (COD) in mines run-off; acid mine drainage and metal contamination in runoff shall be monitored along with Total Suspended Solids (TDS), Dissolved Oxygen (DO), pH and Total Suspended Solids (TSS).

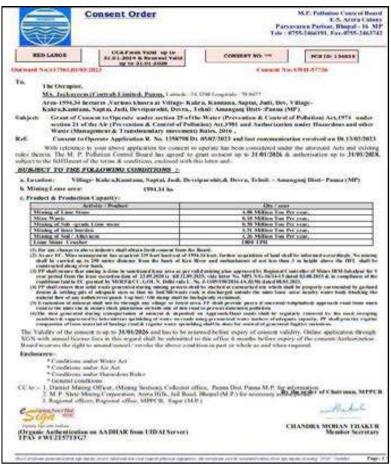
The monitored data shall be uploaded on the website of the company as well as displayed at the project site in public domain, on a display board, at a suitable location near the main gate of the Company. The circular No. "J-20012/1/2006-IA.II(M) dated 27.05.2009 issued by Ministry of Environment, Forest and Climate Change may also be referred in this regard.

Complied.

Monitoring of mines run-off is being carried out on regular basis. Report is enclosed as **Annexure-9**.

The monitored data is being uploaded on the website of the company under six monthly EC compliance report as well as displayed at main gate in public domain. As per circular No. "J-20012/1/2006-IA.II(M) dated 27.05.2009, Key parameter report is being uploaded at company's website.





Valid CTO Copy

The water balance/water auditing shall be carried out and measure for reducing the consumption of water shall be taken up and reported to the Regional Office of the MoEF&CC and State Pollution Control Board / Committee.

Complied.

Water balance is submitted to Regional Office of the MoEF&CC and State Pollution Control Board through email from Saurabh.yadav1@jkcement.com on dated Nov 29, 2024.

Water balance for period from Apr-2024 to Mar-2025 is given below.

		Permission of	Permission of Waste	During April-2024 to March-2025				
Sr.No	Water Code	Water Consumption (KL/Day)	water generation (KL/Day)	Water Consumption (KL/Day)	Waste water generation (KL/Day	Reuse/recycle		
1	Domestic water	20	9.0	4.6	0.0	Nil		
2	Dust Suppression	70	0.0	32.9	N/A	N		
3	Manufacturing Process	100	0.0	23.7	N/A	N/A		
4	Plantation/ Horticulture	40	0.0	14.2	N/A	N/A		

IV. Noise and vibration monitoring and prevention

18)	The peak particle velocity at 500m distance or within the nearest habitation, whichever is closer shall be monitored periodically as per applicable DGMS guidelines			delines. Re	eport is en		d as per the Annexure-4.
			Pit	Dewra	Kakra	Judi	Kamtana
			details	Village	Village	Village	Village
			Pit 1	750	1380	3000	3600
19)	The illumination and sound at night at project sites disturb the villages in respect of both human and animal population. Consequent sleeping disorders and stress may affect the health in the villages located close to mining operations. Habitations have a right for darkness and minimal noise levels at night. PPs must ensure that the biological clock of the villages is not disturbed; by orienting the floodlights/ masks away from the villagers and keeping the noise levels well within the prescribed limits for day /night hours	A q s a p	uestion of leeping is re being	ne is runn sound and not arisen monitore limits. Noi	d illumination The illumined and r	on at night t nation and naintained	s hence the to disturb the Noise levels within the s is enclosed
20)	The Project Proponent shall take measures for control of noise levels below 85 dBA in the work environment. The workers engaged in operations of HEMM, etc. should be provided with ear plugs /muffs. All personnel including laborers working in dusty areas shall be provided with protective respiratory devices along with adequate training, awareness and information on safety and health aspects. The PP shall be held responsible in case it has been found that workers/ personals/ laborers are working without personal protective equipment.	R th a a	PPEs like ne worker and award spects ar s enclose	aintenance earplugs/ins working eness prome being of the being of the Noise M	muffs etc. near higlograms organized brganized below.	has been n noise are n health regularly.	carried out. provided to ea. Training and safety Photograph enclosed as
V) Mi	ning Plan						
21)	The Project Proponent shall adhere to approved mining plan, inter alia, including, total excavation (quantum of mineral, waste, over burden, inter burden and top soil etc.); mining technology; lease area; scope of working (method of mining, overburden & dump management, O.B. & dump mining, mineral transportation mode, ultimate depth of mining, concurrent reclamation and reclamation at mine closure; landuse of the mine lease area at various stages of mining scheme as well as at the end-of-life; etc.).	M a E	pproved n	ivities are nining plan	. Approved MCDR-MF	d mining pla COLST/43	as per the an copy No. /2024-JBP-
22)	The mining shall be governed as per the approved Mining Plan. The excavation vis-a-vis backfilling in the mine lease area and corresponding afforestation to be raised in the reclaimed area shall be governed as per approved mining plan. PP shall ensure the monitoring and management of rehabilitated areas until the vegetation	M d B m	one as pe Backfilling natured ar	ivities and or the appro has not	oved minir started ye estation w	et as the ill be done o	are being area is not on reclaimed

becomes self-sustaining. The compliance status shall be submitted half-yearly to the MoEFCC and its concerned Regional Office.

VI. Land reclamation

. 24

25)

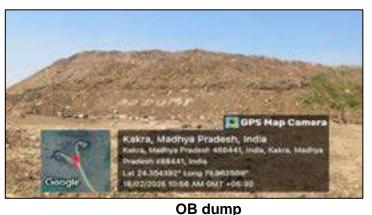
The Overburden (O.B.), waste and topsoil 23) generated during the mining operations shall be stacked at earmarked OB dump site(s) only and it should not be kept active for a long period of time. The physical parameters of the OB / waste dumps / topsoil dump like height, width and angle of slope shall be governed as per the approved Mining Plan and the guidelines/circulars issued by D.G.M.S. The topsoil shall be used for land reclamation and plantation.

Complied.

OB and topsoil generated during the mining operations are being stacked at earmarked OB dump site only as per approved mining plan.

Physical parameters of the OB/waste dumps /topsoil dump height, width and angle of the slope are being maintained as per the approved mining plan and also as per the guidelines/circular's issues by the DGMS. The top soil is being used for plantation and stored in the designated areas.





Top Soil

The slope of dumps shall be vegetated in scientific manner with suitable native species to maintain the slope stability, prevent erosion and surface run off. The selection of local species regulates local climatic parameters and help in adaptation of plant species to the microclimate. The gullies formed on slopes should be adequately taken care of as it impacts the overall stability of dumps. The dump mass should be consolidated with the help of dozer/ compactors thereby ensuring proper filling/ leveling of dump mass. In critical areas, use of geo textiles/ geo-membranes / clay liners / Bentonite etc. shall be undertaken for stabilization of the dump.

Complied.

As per approved mining plan. Approved mining copy enclosed as above.

Catch drains, settling tanks and siltation ponds of appropriate size shall be constructed around the working, mineral mine yards and Top Soil/OB/Waste dumps to prevent run off of water and flow of sediments directly into the water bodies (Nallah/ River/ Pond etc.). The collected water should be utilized for watering the mine belt development, area. roads, green plantation etc. The drains/ sedimentation sumps etc. shall be de-silted regularly, particularly after monsoon season, maintained properly

Complied.

We have just started the mining activity in the lease area. Bunds has been created around the mine working pit.

Catch drains, settling tanks and siltation ponds are being created around the mine working, mineral yards and Top Soil/OB/Waste dumps to prevent surface run off. Collected Mine water will be utilized for watering the mine area, roads, green belt development, plantation etc.

Drains/ sedimentation sumps etc. will be de-silted regularly, particularly after monsoon season, and

maintained properly. Garland drain & sedimentation pit photo enclosed as below.





Garland drains







Siltation pond photo

Check dams of appropriate size, gradient and length shall be constructed around mine pit and OB dumps to prevent storm run-off and sediment flow into adjoining water bodies. A safety margin of 50% shall be kept for designing of sump structures over and above peak rainfall (based on 50 years data) and maximum discharge in the mine and its adjoining area which shall also help in providing adequate retention time period thereby allowing proper settling of sediments/ silt material. The sedimentation pits/ sumps shall be constructed at the corners of the garland drains.

Complied.

Check dams of appropriate size, gradient and length will be constructed around mine pit and OB dumps to prevent storm run-off and sediment flow into adjoining water bodies. A safety margin of 50% will be kept properly.

Sedimentation pits are constructed at the corners of the garland drain. Garland drain & sedimentation pit photo as enclosed on above.

VII. Transportation

27)

No Transportation of the minerals shall be allowed in case of roads passing through villages/ habitations. In such cases, PP shall construct a 'bypass' road for the purpose of transportation of the minerals leaving an adequate gap (say at least 200 meters) so that the adverse impact of sound and dust along with chances of accidents could be mitigated. All costs resulting from widening and strengthening of existing public road network shall be borne by the PP in consultation with nodal State Govt. Department. Transportation of minerals through road movement in case of existing village/ rural roads shall be allowed in consultation with nodal State Govt. Department only after required strengthening such that the carrying capacity of roads is increased to handle traffic load. The pollution due transportation load on the environment will be effectively controlled and water sprinkling will also be done regularly. Vehicular emissions shall be kept under control and regularly monitored. Project should obtain Pollution Under Control (PUC) certificate for all the vehicles from authorized pollution testing centers. applicable in case of road transport]

Complied.

No Transportation of the minerals is being passed through villages/ habitations.

2 nos. Water tankers has been deployed for sprinkling over haul road.

Vehicular emissions are kept under control and regularly being monitored. PUC of all vehicles are done periodically.



Valid vehicle PUC Certificate copy





Water sprinkling in Mines haulage road

28) The Main haulage road within the mine lease should be provided with a permanent water sprinkling arrangement for dust suppression. Other roads within the mine lease should be wetted regularly with tanker-mounted water sprinkling system. The other areas of dust generation like crushing zone, material transfer points, material yards etc. should invariably be provided with dust suppression arrangements. pollution control equipment's like bag filters, vacuum suction hoods, dry fogging system etc. shall be installed at Crushers, belt-conveyors and other areas prone to air pollution. The belt conveyor should be fully covered to avoid generation of dust while transportation. PP shall take necessary measures to avoid generation of fugitive dust emission.

Complied.

On the main haulage road the dust suppression is being done through two water tankers. Water sprinkling photo as enclosed above).

Dust suppression within mining lease roads are being done regularly with water tankers.

Water sprinkler and fogging system has been provided at other areas of dust generation like crushing zone, material transfer points, material yards etc. The crusher has been provided with air pollution control equipment like bag filters, vacuum suction hoods, dry fogging system and covered belt-conveyors. We have also installed permanent water sprinkling system to control the road dust.



Water Sprinkling photo



Bag Filter photo





covered belt-conveyors

VIII. Green Belt

29) The Project Proponent shall develop greenbelt in 7.5m wide safety zone all along the mine lease boundary as per the guidelines of CPCB in order to arrest pollution emanating from mining operations within the lease. The whole Green belt shall be developed within first 5 years starting from windward side of the active mining area. The development of greenbelt shall be governed as per the EC granted by the Ministry irrespective of the stipulation made in approved mine plan.

Compliance in progress.

Plantation is being done as per the EC condition and approved mining plan. We have started plantation all along the boundary of mining lease area.

Plantation is being carried out in 7.5 m ML boundary and nearby Crusher area. A total of 31334 no. of sapling have been planted in 12.54 Ha of area up to March-2025.







Plantation at Kakra mines area.

30) The Project Proponent shall carryout plantation/ afforestation in backfilled and reclaimed area of mining lease, around water body, along the roadsides, in community areas etc. by planting the native species in consultation with the State Forest Department/ Agriculture Department/ Rural development department/ Tribal Welfare Department/ Gram Panchayat such that only those species be selected which are of use to the local people. The CPCB guidelines in this respect shall also be adhered. The density of the trees should be around 2500 saplings per Hectare. Adequate budgetary provision shall be made for protection and care of trees

Complied

Presently pits are active. Backfilling will be done as per approved mining plan.

The Project Proponent shall make necessary alternative arrangements for livestock feed by developing grazing land with a view to compensate those areas which are coming within the mine lease. The development of such grazing land shall be done in consultation with the State Government. In this regard, Project Proponent should essentially implement the directions of the Hon'ble Supreme Court with regard to acquisition of grazing land. The sparse trees on such grazing ground, which provide mid-day shelter from the scorching sun, should be scrupulously guarded/ protected against felling and plantation of such trees should be promoted.

Complied.

Presently, there is no grazing land in the mine lease area.

IX. Public hearing and human health issues

31

Project Proponent shall make provision for the housing for workers/labors or shall construct labor camps within/outside (company owned land) with necessary basic infrastructure/ facilities like fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche for kids etc. The housing may be provided in the form of temporary structures which can be removed after the completion of the project related infrastructure. The domestic waste water should be treated with STP in order to avoid contamination of underground water.

Complied.

Mine is adjacent to the cement plant and Laboure camps has been provided with all amenities within the cement plant premises. STP has been installed for treatment of Sewage water.



STP With Capacity 300KLD

X. Corporate Environment Responsibility (CER)

The activities and budget earmarked for Corporate Environmental Responsibility (CER) as per Ministry's O.M No 22-65/2017-IA. II (M) dated 01.05.2018 or as proposed by EAC should be kept in a separate bank account. The activities proposed for CER shall be implemented in a time bound manner and annual report of implementation of the

Complied.

CER/CSR including activities raised during public hearing three years time-bound action plan has been submitted to the concerned RO of the Ministry.

same along with documentary proof viz. photographs, purchase documents, latitude & longitude of infrastructure developed & road constructed needs to be submitted to Regional Office MoEF&CC annually along with audited statement.

XI. Miscellaneous

The Project Proponent shall prepare digital map (land use & land cover) of the entire lease area once in five years purpose of monitoring land use pattern and submit a report to concerned Regional Office of the MoEF&CC.

The Project Authorities should inform to the Regional Office regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.

Agreed & noted for compliance.

We assure that we will prepare digital map (land use & land cover) of the entire lease area once in five years purpose of monitoring of land use pattern and report will be submitted to concerned Regional Office of the MoEF&CC.

Complied.

We have submitted of financial closures and final approval of the project details via letter no. Jaykaycem/Env./Corres./2023-24/07/02 dated 19.07.2023 and sent by email on dated 20.07.2023. Letter & email copy enclosed as below.







Letter & Email copy

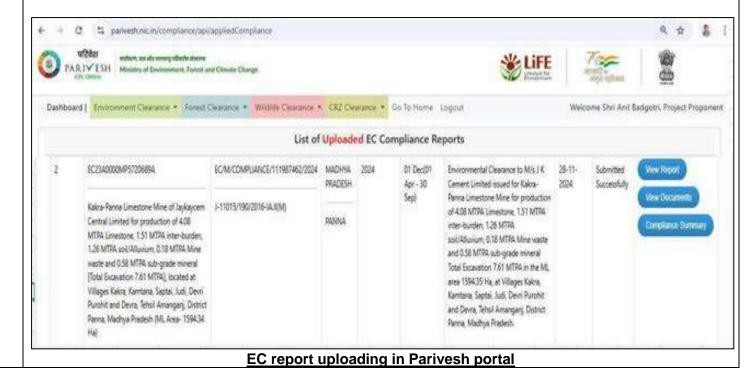
The Project Proponent shall submit six monthly compliance reports on the status of the implementation of the stipulated environmental safeguards to the MOEFCC &its concerned Regional Office, Central Pollution Control Board and State Pollution Control Board.

Complied.

Six monthly compliance reports on the status of the implementation of the stipulated environmental safeguards to the MOEFCC & its concerned Regional Office, Central Pollution Control Board and State Pollution Control Board is being submitted regularly. Last EC compliance report submission during April-2024 to September-2024, Letter no.JKCEMENT/ENV/EC/KAKRA/2024-25/03/16 dated 21.11.2024. copy as enclosed in given below.



Submission of half yearly EC compliance report copy



37	A separate 'Environmental Management Cell'	Complied.
	with suitable qualified manpower should be set- up under the control of a Senior Executive. The Senior Executive shall directly report to Head of the Organization. Adequate number of qualified Environmental Scientists and Mining Engineers shall be appointed and submit a report to RO, MoEFCC.	A separate 'Environmental Management Cell' has been established under the Senior Executive who directly report to Head of the organization.
		Chief Stor Antonia Officer Chief Stor Antonia Officer Try Charles of Storad Decision Monal Officer Englancer
38	The concerned Regional Office of the MoEFCC	Head of the Organization Complied.
	shall randomly monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the MoEFCC officer(s) by furnishing the requisite data / information / monitoring reports.	
39	In pursuant to Ministry's O.M No 22-34/2018-IA.III dated 16.01.2020to comply with the direction made by Hon'ble Supreme Court on 8.01.2020 in W.P. (Civil) No 114/2014 in the matter Common Cause vs Union of India, the mining lease holder shall after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to other mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc.	Agreed and Noted.
25.	The Ministry or any other competent authority may alter/modify the above conditions or stipulate any further condition in the interest of environment protection.	Agreed and Noted.
26.	Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract	Agreed and Noted.

	action under the provisions of Environment	
	(Protection) Act, 1986.	
27.	The above conditions will be enforced inter-alia,	Agreed and Noted.
	under the provisions of the Water (Prevention &	
	Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the	
	Environment (Protection) Act, 1986 and the	
	Public Liability Insurance Act, 1991 along with	
	their amendments and rules made there under	
	and also any other orders passed by the Hon'ble	
	Supreme Court of India/ High Court and any	
	other Court of Law relating to the subject matter.	
28.	Any appeal against this environmental clearance	Agreed and Noted.
	shall lie with the National Green Tribunal, if	
	preferred, within a period of 30 days as	
	prescribed under Section 16 of the National Green	
A :== =	Tribunal Act, 2010.	MA) detect 4.0th October 2002
1	ndment in EC vide F. No. J-11015/190/2016-IA. II (DUST SUPPRESSION	wij dated To" October 2023
1.1	Project Proponent needs to make provision for	Complied.
	permanent water sprinklers so as to reduce the	Permanent water sprinklers have been installed on
	water consumption. Further, 10 nos. of fog	the Mine Haulage road.
	canon/mist sprayer of at least 40 m throw shall be	Fogging systems are installed at unloading point.
	installed at various locations in the mine area.	Regular water sprinkling has been carried out on mine
	Effective dust suppression system shall also be	haulage road to control the fugitive dust emission. Bag
	adopted at other parts of the mining lease to arrest	filter has been installed and belt conveyors with
	the fugitive dust emission. Online air monitoring	covered corrugated sheets are installed to control the
	system should be installed near crusher and haul	fugitive dust emission.
	roads to control dust generation during mining.	01 nos. Fog canon/mist sprayer has been purchased
		and seeing the performance, remaining will be installed.
		installed.
		SUMISE MACHINERY
		Fog canon/mist sprayer
		2 nos of Opling air manitaring system (CAAOMS) bays
		3 nos. of Online air monitoring system (CAAQMS) have been installed at boundary of the ML.
2	SINGLE USE PLASTIC	Door motaliou at boundary of the ML.
2.1	The Project Proponent shall create awareness	Complied.
	among the local people working within the project	Awareness program among the near schools the ban
	area as well as its surrounding area on the ban of	of Single Use Plastic (SUP) has been carried out and
	Single Use Plastic (SUP) in order to ensure the	report with photograph's are attached as Annexure -12 .
	compliance of Notification published by MoEF&CC	
	on 12/08/2021. A report, along with photographs, on	
	the measures taken shall also be included in the six	
	monthly compliance report.	

3	CLEAN ENERGY	
		Τ
3.1	The Project Proponent shall explore the possibility	Complied.
	of using at least 20% of electric vehicles/CNG/Solar	An electrical fork lift is purchased and used in mining.
	instead of diesel operation within three years.	
4	GREATER PANNA LANDSCAPE	
4.1	The Project Proponent shall not transport the	Complied.
	mineral though tiger dispersal route and it should be	As the mining lease area is not falling under tiger
	routed through other side without causing traffic,	dispersal route hence causing traffic, pollution and road
	pollution and roadkill in the tiger reserve area.	kill in tiger reserve area is not anticipated.
4.2	Although the site is not located in any classified	Complied
	corridor, tigers move in the landscape randomly	We have submitted request letter to District Forest
	through the agriculture and open areas. Therefore,	South, Panna for guidance regarding compliance of this
	the Project Proponent should have site-specific	condition via letter no. JKCEMENT/PCP/EMD/2024-
	assessment of tiger movement and shall ensure	25/F04/14 dated 16.08.2024. A follow up letter is
	that there is no disturbance on the western area	submitted via letter no. JKCEMENT/PCP/EMD/2024-
	towards Ken River. Further, based on site	25/F 04/17 dated 02.01.2025.
	assessment, local level mitigation plan shall be in	
	place.	





The Project Proponent needs to use modern Complied 4.3 equipment's such as Camera Traps for ensuring We have submitted request letter to District Forest presence and movement of Tigers in the study area South, Panna for guidance regarding compliance of in consultation with Wildlife Wing of Forest this condition via Department. Appropriate interventions shall be JKCEMENT/PCP/EMD/2024-25/F04/14 taken to minimize stress conditions for Tigers and to 16.08.2024. A followup letter is submitted via letter no. avoid Man-Animal conflict. JKCEMENT/PCP/EMD/2024-25/F 02.01.2025.

4.4 Biodiversity management plan, including restoration and carbon offset scheme shall be included in the mine plan and operation.

Complied

We have requested to agency for furnishing offer for this study.

letter

04/17

no.

dated

dated

4.5	The project proponent needs to submit the quarterly compliance report to the State Forest Department/NTCA/RO w.r.t monitoring of the movement of tiger in the study area and their effectiveness of implementation of mitigation plan.	Agreed and will be complied
5	SKILL DEVELOPMENT	
5.1	The Project Proponent needs to provide the apprenticeship to the local people. The data and the outcome should be maintained for the same imparted to the local people.	Complied. Employment based apprenticeship / internship training program through ITI has been provided to 27 Nos. local residents. During FY:2023-24. ITI College has been established and administrative set-up is being done. Educational session will be started from FY: 2025-26.



(M/s JK Cement Institute of Technology ITI)

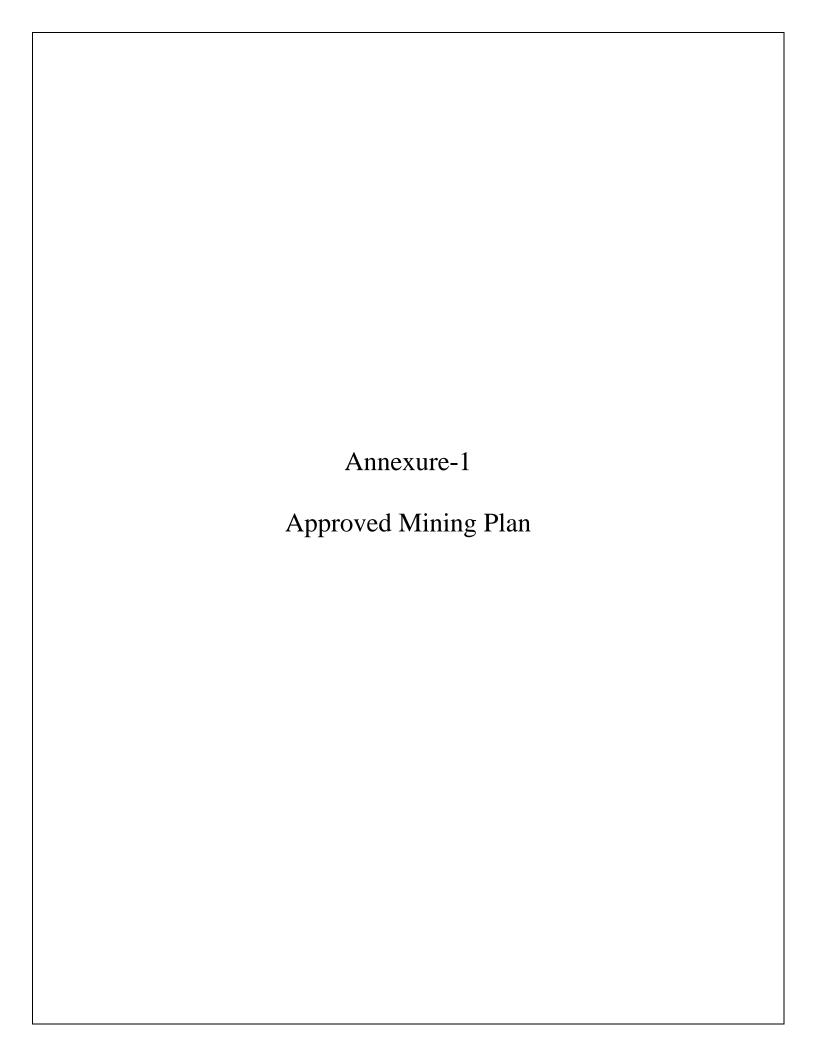
6	MISCELLANEOUS	
6.1	All other terms and conditions mentioned in the EC	Noted and Agreed
	letter dated 31.08.2020 shall remain unchanged.	

Yours Sincerely

For: M/s Kakra Panna Limestone Mine (A Unit of J K Cement Limited, Panna)

(Kapil Agrawal) Unit Head





By e-mail

Dt: 13/01/2025

GOVERNMENT OF INDIA MINISTRY OF MINES INDIAN BUREAU OF MINES OFFICE OF THE REGIONAL CONTROLLER OF MINES, JABALPUR

No. E 12104 MCDR-MPC0LST/43/2024-JBP-IBM_RO_JBP

Shri/M/s. J.K. Cement Limited , Kamla Tower 29/1 Kanpur

Sub Approval of Review of Mining Plan in respect of Kakra Panna Limestone Mine over an area of 1594.34 Hect; situated in Kakra Village,
Amanganj Tehsil, Panna District of Madhya Pradesh State.

References: 1) Draft Review of Mining plan received on MPAS, dated – 26/09/2024

- 2) This office scrutiny comments dated 28/11/2024, 20/12/2024, 05/01/2025 & 10/01/2025
- 3) Final copy of Review of Mining Plan received on MPAS, dated 13/01/2025

Sir,

In exercise of the powers conferred under Clause (b) of Sub-section (2) of Section 5 of Mines and Minerals (Development and Regulation) Act, 1957 as amended from time to time notified thereunder read with Government of India Order no. S.O.1857(E),dated 18/05/2016, I hereby **Approve** the above said Review of Mining Plan submitted under Rule 17(2) of Minerals (Other than Atomic and Hydrocarbons Energy Minerals) Concession Rules, 2016 as amended from time to time notified thereunder. This approval is subject to the following conditions: -

- 1. The Review of Mining Plan is approved without prejudice to any other law applicable to the mine area from time to time whether made by the Central Government, State Government or any other authority and without prejudice to any order or direction from any court of competent jurisdiction.
- 2. The proposals shown on the plates and /or given in the document is based on the lease map /sketch submitted by the lessee and is applicable from the date of approval.
- 3. It is clarified that the approval of aforesaid Review of Mining Plan does not in any way imply the approval of the Government in terms of any other provision of Mines & Minerals (Development & Regulation) Act 1957, or the Minerals (Other than Atomic and Hydro Carbons Energy Minerals) Concession Rules, 2016 and any other laws including Forest (Conservation) Act, 1980, Environment (Protection) Act, 1986 or the rules made there under, Mines Act, 1952 and Rule & Regulations made there under.
- 4. Indian Bureau of mines has not undertaken verification of the mining lease boundary on the ground and does not undertake any responsibility regarding correctness of the boundaries of the leasehold shown on the ground with reference to lease map & other plans furnished by the lessee.
- 5. At any stage, if it is observed that the information furnished, data incorporated in the document are incorrect or misrepresent facts, the approval of the document shall be revoked with immediate effect.
- 6. If the approval conflicts with any other law or court order/direction under any statute, it shall be revoked immediately.
- 7. The 'Mine Development & Production Agreement' has been signed with "The Governor of Madhya Pradesh" paying performance surety of Rs. 53,26,86,050/- only having validity up to 31/08/2030.
- 8. This approval is restricted in respect of proposals given in the document for the period 2025-26 to 2029-30 with validity up to 31/03/2030, subject to all other statutory clearances.
- 9. It shall be mandatory to project proponent, abstracting ground water to obtain **No objection certificate** from Central Ground Water Authority or the M.P. State Ground Water Authority.

Yours faithfully,

(Pukhraj Nenival)

Indian Bureau of Mines, Jabalpur

Copy for information to-

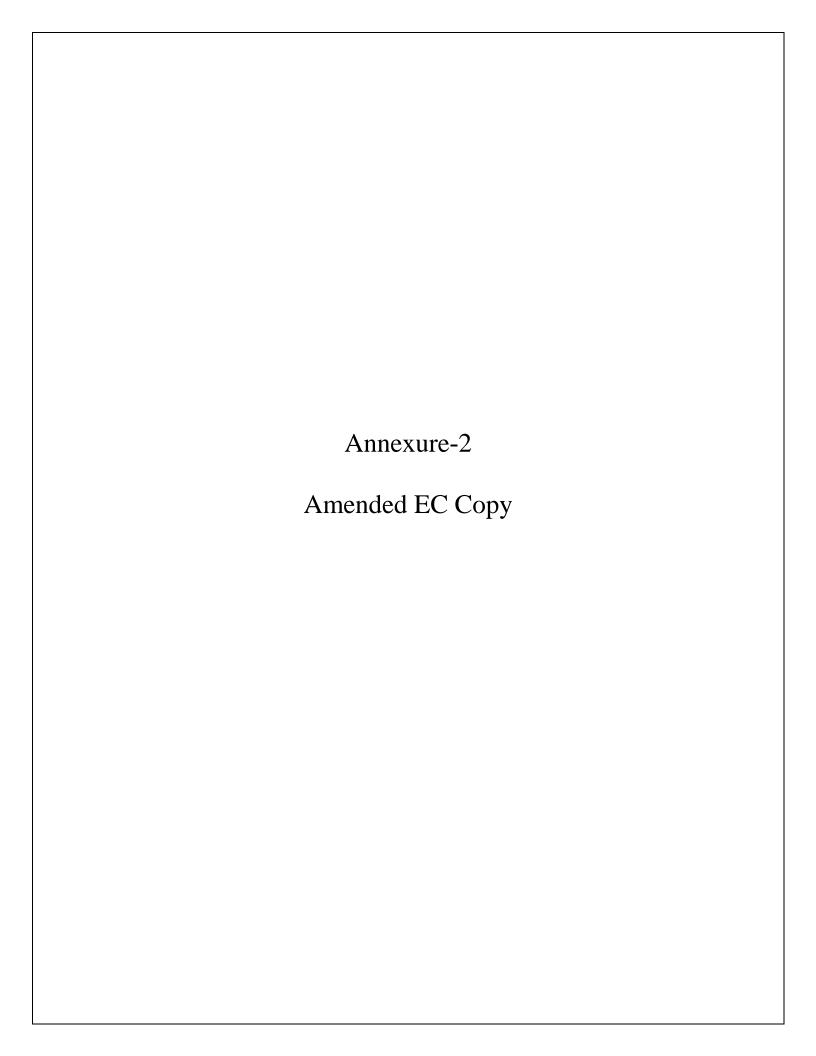
- 1. The Director of Geology and Mining, Govt. of Madhya Pradesh, Khaniz Bhawan, 29A Arera Hills, Jail Road, Bhopal (MP).
- 2. The Controller of Mines (CZ), Indian Bureau of Mines, Nagpur.
- 3. The District Collector, Panna (M.P.)
- 4. Shri Indraneel Dawande, 1338, Vijay Nagar Jabalpur (M.P.); E-mail engeotech@rediffmail.com

(Pukhraj Nenival)

Regional Controller of Mines

Indian Bureau of Mines, Jabalpur







File No.: J-11015/190/2016-IA.II(M) Government of India

Ministry of Environment, Forest and Climate Change IA Division





Dated 18/10/2023



To,

Shri Anil Badgotri

JAYKAYCEM CENTRAL LIMITED

Kamla Tower, Kanpur, UP, Kanpur, KANPUR NAGAR, UTTAR PRADESH, Kamla Tower, 208001

aditya.singh@jkcement.com

Subject: Amendment in Environmental Clearance (EC) 01/07/2023 granted to the project under the provision of

the EIA Notification 2006 -regarding.

Sir/Madam,

This is in reference to your application submitted to MoEF&CC vide proposal number EC23A0000MP5720689A dated 30/06/2023 for grant of an amendment in prior Environmental Clearance (EC) to the project under the provision of the EIA Notification 2006-and as amended thereof.

2. The particulars of the proposal are as below:

(i) EC Identification No. EC23A0000MP5720689A (ii) File No. J-11015/190/2016-IA.II(M)

(iii) Clearance Type Amendment in EC

(iv) Category A

(v) Schedule No./ Project Activity 1(a) Mining of minerals

(vi) Sector Non-Coal Mining

Amendment /Revalidation of EC w.r.t specific condition No (I) of EC dated 31.08.2020 in Kakra-Panna Limestone Mine (ML Area 1594.34 ha),

(vii) Name of Project located at Villages Kakra, Kamtana, Judi, Devra,

Devri Purohit and Saptai, in Amanganj Tehsil, District Panna, Madhya Pradesh proposed by M/s

Jaykaycem Central Limited.

(viii) Location of Project (District, State) PANNA, MADHYA PRADESH

(ix) Issuing Authority MoEF&CC

(x) EC Date

(xii) Applicability of General Conditions NO

(xiii) Status of implementation of the project

- 1. In view of the particulars given in the Para 1 above, the project proposal interalia including Form-1(Part A, B and C)/ EIA & EMP Reports were submitted to the MoEF&CC for an appraisal by the EAC under the provision of EIA notification 2006 and its subsequent amendments.
- 2. The above-mentioned proposal has been considered by EAC in the meeting held on 21/09/2023. The minutes of the meeting and all the project documents are available on PARIVESH portal which can be accessed from the PARIVESH portal by scanning the QR Code above or through the following web link click here.
- 3. The brief about the reasons for an amendment requested along with comparison table illustrating the details of amendments are annexed to this letter as Annexure (1).
- 4. The brief about the reasons for an amendment requested along with comparison table illustrating the details of amendments are annexed to this letter as Annexure (1)The EAC/SEAC, in its meeting held on 21/09/2023, based on information & clarifications provided by the project proponent and after detailed deliberations recommended the proposal for grant of amendment in Environment Clearance under the provision of EIA Notification, 2006 and as amended thereof.
- 5. The EAC has examined the proposal in accordance with the extant provisions of the Environment Impact Assessment (EIA) Notification, 2006 & further amendments thereto and accepted the recommendations and hereby accords the amendment in EC dated 31.08.2020 to w.r.t waive off the specific condition no: (i) of M/s Jaykaycem Central Limited in Kakra- Panna Limestone Mine for production capacity of 4.08 MTPA of Limestone in the mine lease area of 1594.34 ha, located at Villages Kakra, Kamtana, Judi, Devra, DevriPurohit and Saptai, in Amanganj Tehsil, District Panna, Madhya Pradesh subject to compliance of certain additional specific condition.
- 6. This issues with the approval of the Competent Authority.

Copy To

- 1. The Secretary, Ministry of Mines, Government of India Shastri Bhawan, New Delhi.
- 2. **The Secretary,** Department of Mines and Geology, Government of Madhya Pradesh, Secretariat, Bhopal.
- 3. The Secretary, Department of Environment, Government of Madhya Pradesh, Secretariat, Bhopal.
- 4. The Secretary, Department of Forests, Government of Madhya Pradesh, Secretariat, Bhopal.
- 5. **The Chief Wildlife Warden,** Government of Madhya Pradesh, Van Bhavan, 1st Floor, Tulsi Nagar, Bhopal 462 003.
- 6. **The Deputy Director General of Forests (C),** Ministry of Env., Forest and Climate Change, Regional Office (WZ), E-5, Kendriya Paryavaran Bhawan, E-5 Arera Colony, Link Road No.3, Ravishankar Nagar, Bhopal 462 016.
- 7. **The Member Secretary,** Central Pollution Control Board, Parivesh Bhawan, CBD-Cum-Office Complex, East Arjun Nagar, New Delhi-110 032.
- 8. **The Member Secretary,** Central Ground Water Authority, 18/11, Jam Nagar House, Man Singh Road, New Delhi-110011.
- 9. **The Member Secretary,** Madhya Pradesh State Pollution Control Board, Paryavaran Parisar, E-5, Arera Colony, Bhopal 462016.

- 10. **The Controller General,** Indian Bureau of Mines, Indira Bhavan, Civil Lines, Nagpur- 440 001.
- 11. **The District Collector,** Panna District, Government of Madhya Pradesh.
- 12. Guard File.
- 13. PARIVESH Portal.

Annexure 1

Specific EC Conditions for (Mining of minerals)

1. Dust Suppression

S. No	EC Conditions
1.1	The Project Proponent needs to make provision for permanent water sprinklers so as to reduce the water consumption. Further, 10 nos. of fog canon/mist sprayer of atleast 40 m throw shall be installed at various locations in the mine area. Effective dust suppression system shall also be adopted at other parts of the mining lease to arrest the fugitive dust emission. Online air monitoring system should be installed near crusher and haul roads to control dust generation during mining.

2. Single Use Plastic

S. No	EC Conditions
2.1	The Project Proponent shall create awareness among the local people working within the project area as well as its surrounding area on the ban of Single Use Plastic (SUP) in order to ensure the compliance of Notification published by MoEF&CC on 12/08/2021. A report, along with photographs, on the measures taken shall also be included in the six monthly compliance report.

3. Clean Energy

S. No	EC Conditions
3.1	The Project Proponent shall explore the possibility of using atleast 20% of Electric vehicles/CNG/Solar instead of diesel operation within three years.

4. Greater Panna Landscape

S. No	EC Conditions
4.1	The Project Proponent shall not transport the mineral though tiger dispersal route and it should be routed through other side without causing traffic, pollution and road kill in the tiger reserve area.
4.2	Although the site is not located in any classified corridor, tigers move in the landscape randomly through the agriculture and open areas. Therefore, the Project Proponent should have site-specific assessment of tiger movement and shall ensure that there is no disturbance on the western area towards Ken River. Further, based on site assessment, local level mitigation plan shall be in place.

S. No	EC Conditions
4.3	The Project Proponent needs to use modern equipment's such as Camera Traps for ensuring presence and movement of Tigers in the study area in consultation with Wildlife Wing of Forest Department. Appropriate interventions shall be taken to minimize stress conditions for Tigers and to avoid Man-Animal conflict.
4.4	Biodiversity management plan, including restoration and carbon offset scheme shall be included in the mine plan and operation.
4.5	The project proponent needs to submit the quarterly compliance report to the State Forest Department/NTCA/RO w.r.t monitoring of the movement of tiger in the study area and their effectiveness of implementation of mitigation plan.

5. Skill Development

S. No	EC Conditions
5.1	The Project Proponent needs to provide the apprenticeship to the local people. The data and the outcome should be maintained for the same imparted to the local people.

6. Miscellaneous

S. No	EC Conditions
6.1	All other terms and conditions mentioned in the EC letter dated 31.08.2020 shall remain unchanged.

Annexure 2

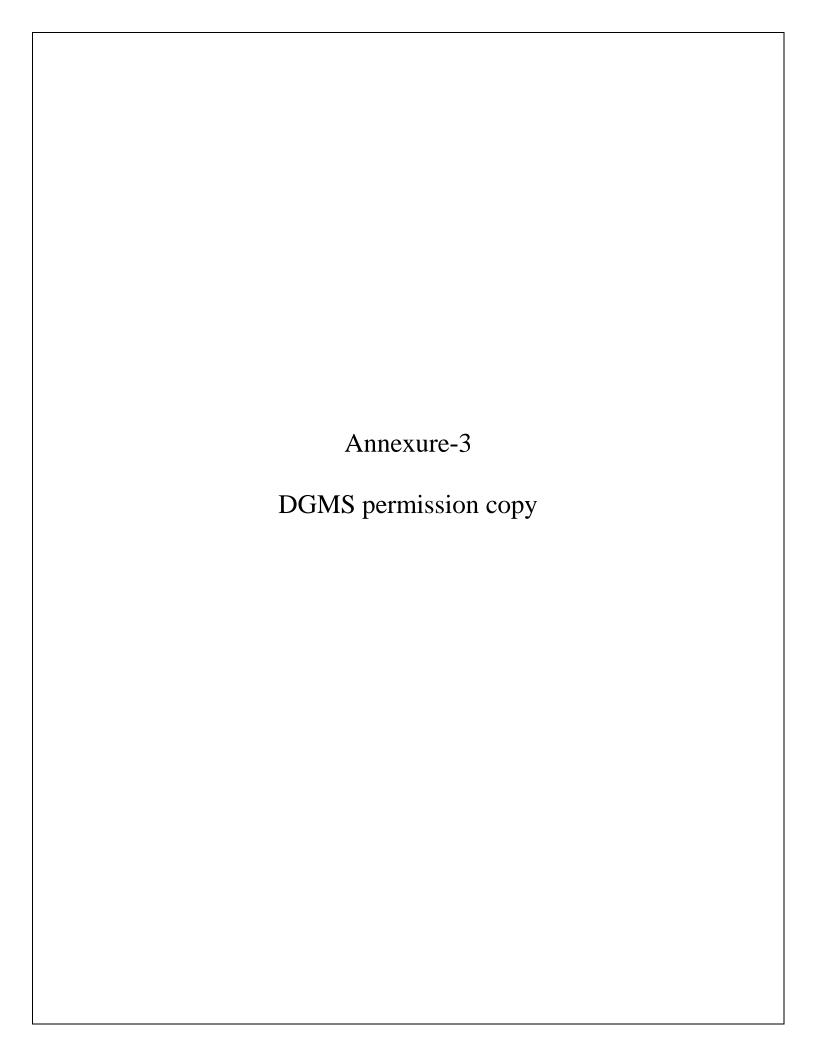
Amendment Logs

Description	Reference	Existing	Proposed / Amendment	Reason
NA	NA	NA	NA	NA

Signed by Pankaj Verma

Date: 18-10-2023 09:20:06 Reason: Verified and

signed



12/27/23, 10:40 AM Email Annexure-3



भारत सरकार Govt. of India श्रम एवं रोजगार मंत्रालय Ministry of Labour & Employment स्वाज सुरक्षा महानिदेशालय Directorate-General of Mines Safety



NO: 36249961|WZ|Jabalpur Region|Perm|2023|255843

Date: 08/05/2023

From

Director of Mines Safety, JABALPUR REGION Region, WESTERN ZONE NAGPUR MAHARASHTRA

To

The Agent, Kakra Panna Limestone Mine, M/s Jaykaycem(Central) Ltd Village-Harduwaken, Tehsil-Amanganj, Dist- Panna (M.P) 488441.

Subject:Relaxation under Provisions of Regulation 106(2)(b) of the Metalliferous Mines Regulations,1961 to use Heavy Earth Moving Machineries (HEMMs) in conjunction with a system of deep hole blasting at Kakra Panna Limestone Mine of M/s Jaykaycem(Central) Limited located at village-Devra, Tehsil-Amanganj, Dist-Panna (M.P)

Sir

Please refer to your online application submitted vide ID: 255843, dated 21.04.2023, offline letter no.JKKCL/MINES/KPLM/DGMS/106(2)(b)/78 dated 18.04.2023; letter no. JKKCL/MINES/KPLM/DGMS/106(2)(b)/79 dated 21.04.2023; enclosing therewith Surface Plan No. JKC/MINES/KPLM/SURFACE PLAN/01 dated 23.03.2023 of the mine in offline mode on the above subject.

The matter has been considered in the light of information furnished by you in your application and accompanying plans/sections and other enclosures.

In exercise of the powers conferred on the Chief Inspector of Mines (also designated as Director-General of Mines Safety) under Regulation 106(2)(b) of the Metalliferous Mines Regulations, 1961, and by virtue of the authorization granted to me by the Chief Inspector of Mines (also designated as Director-General of Mines Safety) under Section 6(1) of Mines Act, 1952, I, hereby grant you relaxations from the Provisions of Regulation 106(2)(b) of the Metalliferous Mines Regulations,1961 to use Heavy Earth Moving Machineries (HEMMs) in conjunction with a system of deep hole blasting at Kakra Panna Limestone Mine of M/s Jaykaycem(Central) Limited located at village-Devra, Tehsil-Amanganj, Dist.- Panna (M.P) in the area bounded and marked by points WB-1,WB-2,....,WB-22 & WB-1 as shown on surface plan NO. JKC/MINES/KPLM/SURFACE PLAN/01 dated 23.03.2023 subject to the following conditions being strictly complied with.

1.0 GENERAL:

- 1.1 The conditions as mentioned in the Annexure 'A' of this permission letter shall be strictly complied with.
- 1.2 Except where otherwise provided for in this permission, all provisions of the Metalliferous Regulations, 1961 relating to opencast workings, use of explosives and use of machinery etc. shall be strictly complied with.
- 1.3 The opencast workings shall not be extended in areas within the lease unless the land has been acquired by the mine owner and is under the owner's physical possession.

12/27/23, 10:40 AM Email

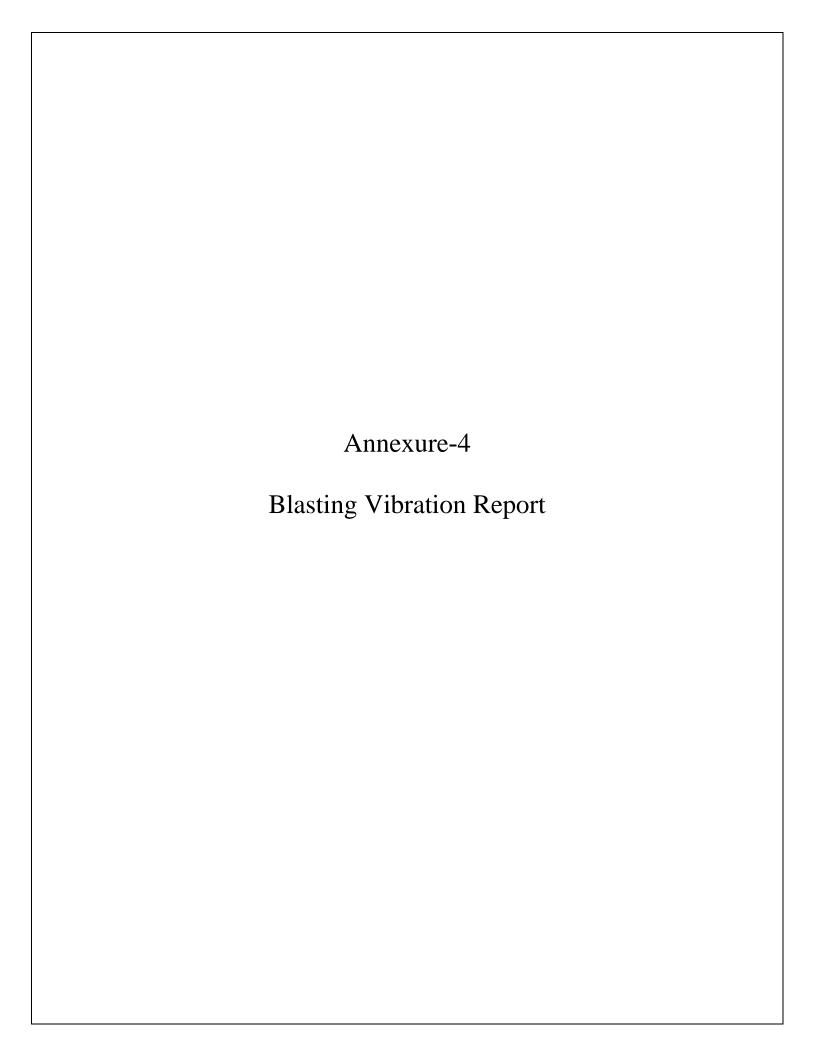
1.4 No working shall be made or extended within 45 m of any building/structure/railway of permanent nature, not belonging to owner of the mine without permission in writing from this Directorate under Regulation 109 of the Metalliferous Mines Regulations, 1961.

- 1.5 No working shall be made in any spot lying within horizontal distance of 15 m from either bank of the Canal or any stream, Nallah, etc. without obtaining permission in writing from this Directorate under Regulation 127 of the Metalliferous Mines Regulations, 1961. Adequate protection against inrush of Nallah water in the mine shall be provided and maintained.
- 1.6 During heavy rain, the Manager or senior most mine official present in the mine, shall go round the surface area of the mine to check vulnerable points and effectiveness of the safety measures. Standing orders for withdrawal of persons from the mine in case of apprehended danger should be framed and enforced.
- 1.7 (a) No Deep hole blasting shall be carried out within 300m of any structure not belonging to the owner unless permitted by this Directorate in writing under Regulation 164 (1-B) of the Metalliferous Mines Regulations
- (b) No blasting shall be conducted using SME/SMS/ANFO explosive without having valid permission obtained under Regulation 155(1) & 162(5) of Metalliferous Mines Regulations, 1961
- (c) Regular deep hole blasting shall be carried out using Shock tube/Non-electric initiation system.
- (d) The working faces in the mine shall be so oriented that the free face for blasting is away from the adjoining mine/Crusher/school/temple etc. if any.
- 1.8 No blasting in the mine shall be carried out within 300m of public roads till such time the blasting in charge has ensured that no persons/vehicles pass on such roads during the time of blasting. For the purpose, drop bar barrier shall be provided on both side of such road at a distance of 300m from the place of firing of shots in the proposed limit of quarry and during blasting, guard shall be posted on the barrier and persons/vehicles shall not be allowed to pass on the said road during blasting and till the time all clear signal after blasting is obtained.
- 1.9 Blasting shall be conducted only after ensuring that persons including blaster within 500 m radial distance from place of firing of shot holes have taken proper shelter. The persons/employees of the adjoining mine nearby and within 500m radial distance shall also be informed and ensured that they have taken proper shelter.
- 1.10 An embankment of at least 3m higher than the HFL on eastern side to prevent inrush of water from nallah, designed and constructed on sound civil engineering principles to serve as dam shall be provided and maintained to prevent inrush of water in the mine.
- 1.11 Special care shall be taken when any slip or other planes of weakness or other geological disturbances exist, so as to prevent danger to the work-persons.
- 1.12 The owner shall indemnify occupants/owners of the houses/ dwellings/ buildings or other structures of public authority concerned, if any, against the dangers to those properties or injury to them or other persons arising out of operations conducted under this permission.
- 1.13 No blasting shall be conducted within 100m of any dwellings, roads, railways and other important structures not belonging to the owner of the mine. The blasting in the mine shall be carried out strictly as per the stipulations laid down in Regulation 164 of the MMR, 1961.
- 1.14 No blasting for any purpose shall be done within 300m from the boundary of sub-station or from the electric supply lines of voltage exceeding 650V or tower structure thereof without the written permission of the owner of such sub-station or electric supply lines or tower structures and in case of mining lease hold area, without the written permission of the Inspector of Mines under CEAR-2010.
- 2.0 Supervision:

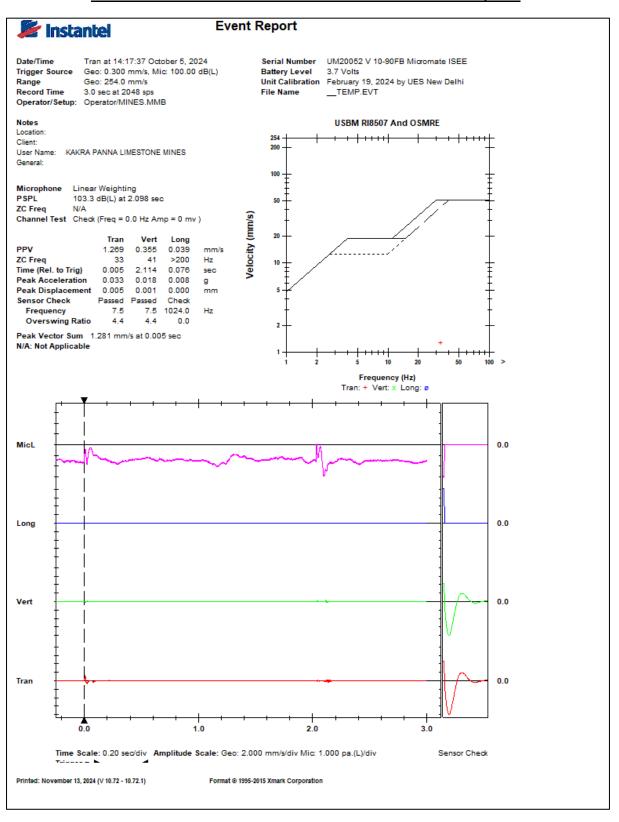
12/27/23, 10:40 AM Email

2.1 A person possessing First Class Mine Manager's Certificate of competency under Regulation MMR, 1961 shall be appointed as the manager of the mine. This permission shall stand revoked as soon as the qualified manager ceases to work at the mine. Use of HEMM shall be suspended in the absence of manager with aforesaid qualification.

- 2.2 Adequate number of supervisors including duly qualified Assistant Managers, Foremen and Mining Mates shall be appointed in each working shifts to assist the Manager. The Manager, Assistant Manager, Foreman and Mate shall be responsible to ensure compliance of stipulations of conditions governing grant of this permission and other provisions of the Regulations, Rules, bye-laws, orders, and circulars issued from time to time, as may be applicable. They shall also supervise transport and loading operations being done by contractor(s), if any
- 2.3 A duly qualified engineer shall be appointed to hold charge of all machinery at the mine and shall be responsible for the proper installation, maintenance and safe working of such machinery.
- 2.4 During production shift the opencast workings shall be place under the charge of an Assistant Manager, holding at least Manager's Certificate who shall be responsible to see that all the regulations and the orders made there under are strictly complied with.
- 2.5 A code specifying duties and responsibilities of all mine-officials, i.e. Engineer, Supervisors, Technicians, Mechanics, Fitters, Machine Operators, helpers, loading supervisors etc. shall be drawn up by the Manager and distributed to all concerned.
- 2.6 The Manager shall issue to every Driver/Operator, Supervisor and Mine Official connected with the use of Heavy Earth Moving Machinery, a copy of rules/regulations/SOP, orders made there-under and guidelines listed in this permission governing his duties, in a language understood by the person concerned. The Manager and the Engineer shall be responsible to ensure that all the precautions and guidelines listed in this permission are strictly followed by all concerned.
- 2.7 It shall be the responsibility of the Manager, Engineer and other supervisors to ensure that all persons working in the mine, and those working on machines/equipment etc. work as per the code and all machines and equipment etc. are installed, operated and maintained in safe working conditions.
- 2.8 Operations connected with Drilling, Charging, Stemming and Blasting of deep holes shall be placed under overall charge of a person holding at least Manager's Certificate of Competency granted under Metalliferous Mines Regulations, 1961, who shall supervise the said operations in accordance with the guidelines and directives issued by the Manager.
- 2.9 Blasting parameters of each blast with a sketch showing the drilling pattern and the holes charged shall be maintained in register kept for the purpose for each blast.
- 2.10 Manager shall frame code of practices for each operation and copy of it shall be handed over to all concerned. It shall be the duty of all statutory persons to enforce the code of practices so framed.
- 2.11 Manager shall in particular:- Prepare "Safety Management plan" as per guidelines of DGMS Circular No. DGMS (Tech) (S&T) Circular No: 13 of 2002, DGMS (Tech) (S&T) Circular No: 02 of 2011 & DGMS (Tech) (S&T) Circular No. 05 of 2016.
- 3.0 Please note that, this permission is subject to the following additional conditions.
- 3.1 In the event of any change in the circumstances connected with this permission which is likely to endanger the life of workmen employed in the mining operation for which this permission has been granted shall be stopped forthwith and intimation thereof sent to this Directorate. The said mining operation shall not be resumed without an express and fresh permission in writing.



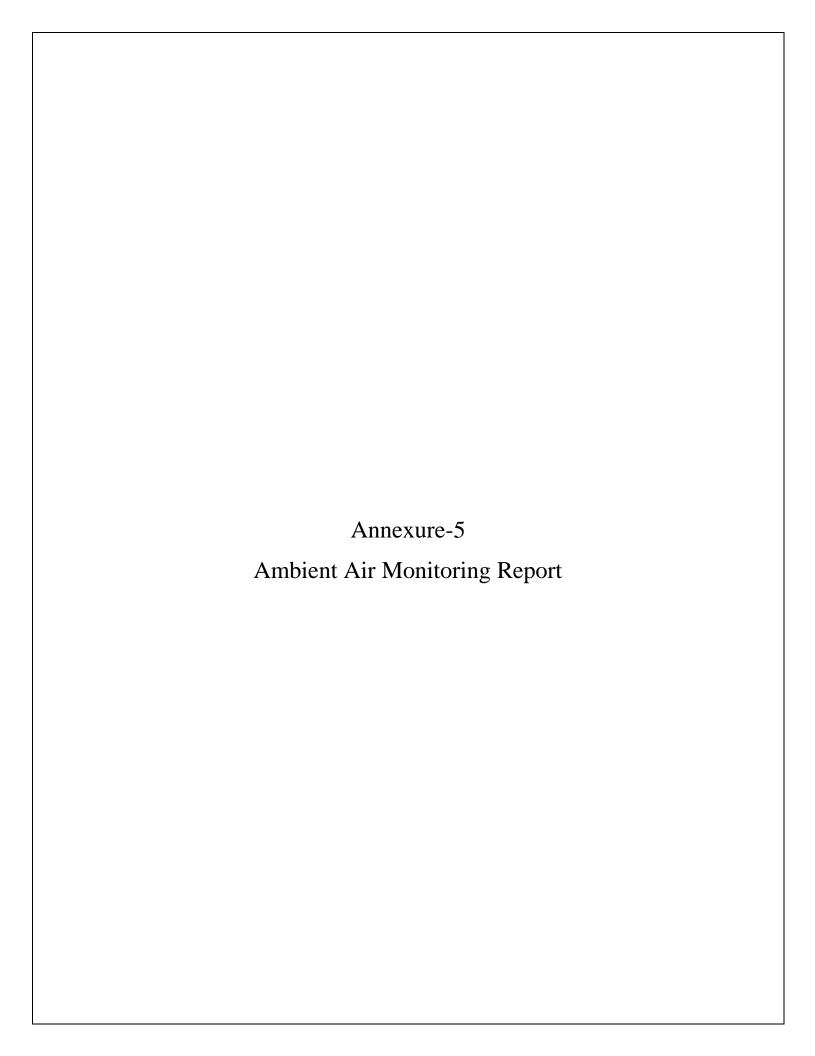
Kakra -Panna Limestone Ground Vibration Report



Instantel Event Report Date/Time Tran at 13:40:31 December 3, 2024 Serial Number UM20052 V 10-90FB Micromate ISEE Trigger Source Geo: 0.600 mm/s, Mic: 110.0 dB(L) Battery Level 3.8 Volts Unit Calibration February 19, 2024 by UES New Delhi File Name __TEMP.EVT Geo: 254.0 mm/s Range Record Time 3.0 sec at 2048 sps File Name Operator/Setup: Operator/MINES.MMB USBM RI8507 And OSMRE Location: Client: 200 User Name: KAKRA PANNA LIMESTONE MINES General: 100 Microphone Linear Weighting <88 dB(L) PSPL 50 >200 Hz Velocity (mm/s) Channel Test Check (Freq = 0.0 Hz Amp = 0 mv) 20 Tran Vert Long PPV 1.505 0.694 0.047 10 🛨 ZC Freq Time (Rel. to Trig) 13.5 20 114 Hz 0.168 0.068 1.458 sec Peak Acceleration 0.021 0.016 0.008 g Peak Displacement 0.016 0.005 0.000 Sensor Check Passed Passed Check 7.3 7.5 1024.0 Frequency Hz Overswing Ratio 4.5 Peak Vector Sum 1.512 mm/s at 0.168 sec N/A: Not Applicable Frequency (Hz) Tran: + Vert: x Long: 0 MicL 0.0 0.0 Long Vert 0.0 Tran 0.0 1.0 2.0 3.0 Time Scale: 0.20 sec/div Amplitude Scale: Geo: 2.000 mm/s/div Mic: 1.000 pa.(L)/div Sensor Check Printed: January 15, 2025 (V 10.72 - 10.72.1) Format ⊚ 1995-2015 Xmark Corporation

Instantel Event Report Long at 13:57:45 February 28, 2025 Geo: 0.600 mm/s, Mic: 110.0 dB(L) Date/Time Serial Number UM20052 V 10-90FB Micromate ISEE Trigger Source 3.7 Volts Battery Level Geo: 254.0 mm/s Unit Calibration February 22, 2025 by UES New Delhi Range Record Time 3.0 sec at 2048 sps File Name __TEMP.EVT Operator/Setup: Operator/MINES.MMB USBM RI8507 And OSMRE Location: Client: 200 User Name: KAKRA PANNA LIMESTONE MINES General: 100 Microphone Linear Weighting PSPL 94.70 dB(L) at -0.203 sec 50 N/A Velocity (mm/s) Channel Test Check (Freq = 0.0 Hz Amp = 0 mv) 20 Tran Vert Long PPV 1.458 1.371 1.498 10 ‡ ZC Freq 41 93 2.1 Hz Time (Rel. to Trig) 0.155 0.145 0.425 sec Peak Acceleration 0.043 0.086 0.067 g Peak Displacement 0.052 0.004 0.057 Sensor Check Passed Passed Passed 7.3 7.3 7.3 Frequency Hz Overswing Ratio 4.6 4.4 Peak Vector Sum 2.029 mm/s at 0.145 sec N/A: Not Applicable Frequency (Hz) Tran: + Vert: x Long: 0 MicL 0.0 0.0 Long Vert 0.0 Tran 0.0 1.0 2.0 3.0 Time Scale: 0.20 sec/div Amplitude Scale: Geo: 2.000 mm/s/div Mio: 1.000 pa.(L)/div Sensor Check Printed: March 15, 2025 (V 10.72 - 10.72.1) Format ⊚ 1995-2015 Xmark Corporation

Instantel Event Report Date/Time Tran at 14:00:25 March 10, 2025 Serial Number UM20052 V 10-90FB Micromate ISEE Trigger Source Geo: 0.600 mm/s, Mic: 110.0 dB(L) 3.7 Volts Battery Level Geo: 254.0 mm/s Unit Calibration February 22, 2025 by UES New Delhi Range Record Time 3.0 sec at 2048 sps File Name __TEMP.EVT Operator/Setup: Operator/MINES.MMB USBM RI8507 And OSMRE Location: Client: 200 User Name: KAKRA PANNA LIMESTONE MINES General: 100 Microphone Linear Weighting PSPL 105.1 dB(L) at 1.417 sec 50 10.0 Hz Velocity (mm/s) Channel Test Passed (Freq = 19.7 Hz Amp = 1149 mv) 20 Tran Vert Long PPV 1.285 0.938 1.009 10 🛨 ZC Freq 16.3 19.0 10.8 Hz Time (Rel. to Trig) 0.279 0.209 0.485 sec Peak Acceleration 0.030 0.028 0.028 g Peak Displacement 0.013 0.010 0.010 Sensor Check Passed Passed Passed 7.3 7.3 7.5 Hz Frequency Overswing Ratio 4.6 4.4 Peak Vector Sum 1.307 mm/s at 0.279 sec Frequency (Hz) Tran: + Vert: x Long: 0 MicL 0.0 0.0 Long Vert 0.0 Tran 0.0 1.0 2.0 3.0 Time Scale: 0.20 sec/div Amplitude Scale: Geo: 2.000 mm/s/div Mio: 1.000 pa.(L)/div Sensor Check Printed: March 15, 2025 (V 10.72 - 10.72.1) Format ⊚ 1995-2015 Xmark Corporation





Name & Address of the

Party

Sample Description:

VTL/AA/01-03

M/s JK Cement Works, Panna

Ambient Air Quality Monitoring

(A Unit Of JK Cement Ltd.) Kakra- Panna Limestone Mines Village-Harduwaken

Tehsil-Amanganj PIN-488441 Dist-Panna

Report No.:

VTL/A/2411170008-10

Format No.:

7.8 F 02

Party Reference No.:

NIL

Report Date:

25/11/2024

Period of Analysis:

17-25/11/2024

Receipt Date

17/11/2024

General Information:-

Date of Sampling

Sample collected by

Instrument Calibration Status

Meteorological condition during monitoring

Surrounding Activity

Scope of Monitoring

Sampling & Analysis Protocol

Sampling Duration

Parameter Required

: 10-11/11/2024

: VTL Team

: Calibrated

: Clear sky

: Human, Vehicular & Other Activities

: Regulatory Requirement

: IS-5182 & CPCB Guidelines

: 24 hrs.

: As Per Work Order

		PM10 pg/m3	PMZ.5 µg/m3	NO2 μg/m3	502 µg/m3	co mg/m3	NH3 pg/m3	Pb µg/m3	Веплене µg/m3	Benzo(a) Pyrene ng/m3	03 µg/m3	Nickel ng/m3	Arsenic ng/m3
S.NO	Sampling Location	IS: 5182 (P-23), 2017	IS 5182 (P-24): 2019	IS: 5182 (P-6), 2006	IS: 5182 (P-2), 2001	IS: 5182 (P-10) NDER	3rd ed., 1988 Method No.401	IS: 5182 (P-22): 2004	IS: 5183 (P-11), 2006	IS: 5182 (P-12), 20	IS: 5182 (P-9) :1974	USEPA Compendi m 10 - 3.2, 1999	3rd ed. 1988 Method No.302
1.	Kakra Mines (Near Mines Office)	50.78	28.20	16.20	10.21	0.75	*BLQ (**LOQZ.0)	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2	12.37	"BLQ (**LOQS.0	*BLQ (**LOQ0.15)
2.	Kakra Mines Bound (Near CAAQMS)	47.85	26.34	14.78	9.54	0.66	*BLQ (**LOQ2.0)	*BLQ (**LOQ0.02)	*BLQ	*BLQ (**LOQ0.2	10.52	*BLQ (**LOQ5	*BLQ (**LOQ0.15)
3.	Kakra Mine (Security Office)	45.12	23.61	12.58	8.23	0.51	*BLQ (**LOQ2.0)	*8LQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2	9.87	*BLQ (**LOQS	*BLQ (**LOQ0.15)
	#NAAQS Standard	100	60	80	80	04	400	01	05	01	180	20	06

End of the Report-



RK Yadav Lab Incharge **Authorized Signatory**

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

Vibrant Techno Lab Pvt. Ltd.

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

7 9929108691, 9810205356, 8005707098, 9549956601

C 0141-2954638

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Name & Address of the Party

Sample Description:

VTL/AA/01-07

M/s JK Cement Works, Panna

(A Unit Of JK Cement Ltd.) Kakra- Panna Limestone Mines Village-Harduwaken

Tehsil-Amanganj PIN-488441 Dist-Panna

Format No.:

VTL/A/2411170011-17

7.8 F 02

Party Reference No.:

NIL

Report Date:

Report No.:

25/11/2024

Period of Analysis:

17-25/11/2024

Receipt Date

17/11/2024

Ambient Air Quality Monitoring

General Information:-

Sample collected by

Date of Sampling

Instrument Calibration Status

Meteorological condition during monitoring

Surrounding Activity

Scope of Monitoring Sampling & Analysis Protocol

Sampling Duration

Parameter Required

: 10-11/11/2024

: VTL Team

: Calibrated

: Clear sky

: Human, Vehicular & Other Activities

: Regulatory Requirement

: IS-5182 & CPCB Guidelines

: 24 hrs.

: As Per Work Order

		PM10 µg/m3	PM2.5 µg/m3	NOZ µg/m3	502 μg/m3	co mg/m3	NH3 µg/m3	Pb pg/m3	Benzene µg/m3	Benzo(a) Pyrene ng/m3	03 pg/m3	Nickel ng/m3	Arsenic ng/m3
S,NO	Sampling Location	IS: 5182 (P-23), 2017	IS 5182 (P-24): 2019	IS: 5182 (P-6), 2006	IS: 5182 (P-2), 2001	IS: 5182 (P-10) NDIR	3rd ed., 1988 Method No.401	IS: 5182 (P-22): 2004	I5: 5182 (P-11), 2006	IS: 5182	IS: 5182 (P-9) :1974	USEPA Compendit m 10 - 3.2, 1999	3rd ed., 1988 Method No.302
1.	Saptai Village	49.78	25.31	14.37	8.12	0.52	*BLQ (**LOQ2.0)	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2	12.42	*BLQ (**LOQ5.0	*BLQ (**LOQ0.15)
2.	Kamtana Village	46.37	23.42	12.48	7.62	0.68	.ard	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2	15.38	.Brd	*BLQ (**LOQ0.15)
3.	Puraina Village	50.24	26.97	15.75	9.32	0,71	*BLQ (**LOQ2.0)	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2	19.15	*BLQ (**LOQ5	*BLQ (**LOQ0.15)
4.	Pagra Village	51.39	28.58	20.46	10.64	0.75	*BLQ (**LOQ2.0)	*BLQ (**LOQ0.02)	*BLQ (**1.0Q1.0)	*BEQ (**LOQ0.2	16.47	*BLQ (**LOQ5.0	*BLQ (**LOQ0.15)
5.	Udla Village	47.84	24.37	13.16	8.17	0.51	*8LQ (**LOQ2.0)	*BLQ (**LOQ0.02)	*BLQ	*BLQ (**LOQ0.2	10.24	"BLQ	*BLQ (**LOQ0.15)
6.	Sotipura Village	43.65	23.11	11.78	7.59	0.48	*BLQ (**LOQ2.0)	*BLQ (**L0Q0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2	8.69	.Brd .Brd	*BLQ (**LOQ0.15)
7.	Hinauta Village	53.67	27.84	15.10	8.95	0.50	*BLQ (**LOQ2.0)	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**L0Q6.2	20.78	*BLQ (**LOQ5.0	"BLQ (""LOQ0.15)
_	#NAAQS Standard	100	60	80	80	04	400	01	05	01	180	20	06





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

2 0141-2954638

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Name & Address of the

Party

Sample Description:

VTL/AA/08-12

M/s JK Cement Works, Panna (A Unit Of JK Cement Ltd.) Kakra- Panna Limestone Mines Village-Harduwaken Tehsil-Amangani PIN-488441 Dist-Panna Report No.:

VTL/A/2411170018-22

Format No.:

7.8 F 02

Party Reference No.:

NIL

Report Date:

25/11/2024

Period of Analysis:

17-25/11/2024

Receipt Date

17/11/2024

Ambient Air Quality Monitoring

General Information:-

Date of Sampling Sample collected by

Instrument Calibration Status

Meteorological condition during monitoring

Surrounding Activity

Scope of Monitoring

Sampling & Analysis Protocol

Sampling Duration

Parameter Required

: 11-12/11/2024

: VTL Team

: Calibrated

: Clear sky

: Human, Vehicular & Other Activities

: Regulatory Requirement

: IS-5182 & CPCB Guidelines

: 24 hrs.

: As Per Work Order

16		РМ10 µg/m3	PMZ.5 µg/m3	NO2 µg/m3	502 µg/m3	CO mg/m3	NH3 µg/m3	Pb µg/m3	Benzene µg/m3	Benzo(a) Pyrene ng/m3	03 µg/m3	Nickel og/m3	Arsenic ng/m3
S.NO	Sampling Location	IS: 5182 (P-23), 2017	IS 5182 (P-24): 2019	THE RESERVE AND ADDRESS OF THE PERSON NAMED IN	15; 5182 (P-2), 2001	IS: 5102 (P-10) NDIR	3rd ed., 1988 Method No.401	IS: 5182 (P-22): 2004	IS: 5182 (P-11), 2006	85: 5182 (P-12), 20	(S: 5182 (P-9) :1974	USEPA Compends m 10 -3.2, 1999	3rd ed., 1988 Method No.302
1.	Purwa Village	50.34	26.15	14.72	7.59	0.72	*BLQ (**LOQ2.0)	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2	16.54	*BLQ (**LOQ5.0	*8LQ (**LOQ0.15)
2.	Amanganj Village	46.72	22.38	12.34	6.85	0.68	*BLQ (**LOQ2.0)	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2	12.67	.Brd	*8LQ (**LOQ0.15)
3.	Bhupatpura Village	48.67	25.41	13.49	8,14	0.75	*BLQ (**LOQ2.0)	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2	18.25	*8LQ (**LOQ5	*BLQ (**LOQ0.15)
4.	Mahadkh Village	42.56	21.89	11.24	6.10	0.56	"BLQ (""LOQ2.0)	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2	13.41	.Brd	*BLQ (**LOQ0.15)
5.	Umeri Village	51.34	27.69	15.85	9.28	0.78	*BLQ (**LOQZ.0)	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2	19.78	"BLQ (""LOQS	*BLQ (**LOQ0.15)
_	#NAAQS Standard	100	60	80	80	04	400	01	05	01	180	20	06





RK Yadav Lab Incharge Authorized Signatory

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



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

9929108691, 9810205356, 8005707098, 9549956601

2 0141-2954638

bd@vibranttechnolab.com





Sample Number:

Party

Name & Address of the

VTL/AA/01-03

M/s JK Cement Works, Panna

(A Unit Of JK Cement Ltd.) Kakra- Panna Limestone Mines Village-Harduwaken

Tehsil-Amanganj PIN-488441 Dist-Panna

Party Reference No.:

VTL/A/2503010008-10

7.8 F 02

NIL

Report Date:

Report No.:

Format No.:

05/03/2025

Period of Analysis:

01-05/03/2025

Receipt Date

01/03/2025

Sample Description:

Ambient Air Quality Monitoring

General Information:-

Date of Sampling Sample collected by

Instrument Calibration Status

Meteorological condition during monitoring

Surrounding Activity

Scope of Monitoring

Sampling & Analysis Protocol

Sampling Duration

Parameter Required

: 20-21/02/2025

: VTL Team

: Calibrated

: Clear sky

: Human, Vehicular & Other Activities

: Regulatory Requirement

: IS-5182 & CPCB Guidelines

: 24 hrs.

: As Per Work Order

	Sampling	PM10 µg/m3	PM2.5 μg/m3	NO2 µg/m3	SO2 μg/m3	CO mg/m3
S.NO.	Location	IS: 5182 (P-23), 2017	IS 5182 (P-24): 2019	IS: 5182 (P-6), 2006	IS: 5182 (P-2), 2001	IS: 5182 (P-10) NDIR
1.	Kakra Mines (Near Mines Office)	55.12	30.72	18.76	12.57	0.82
2.	Kakra Mines Boundry (Near CAAQMS)	52.56	28.11	16.54	11.10	0.75
3.	Kakra Mine (Security Office)	48.37	25.64	14.20	9.67	0.62
	#NAAQS Standard	100	60	80	80	04

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



RK Yadav

Lab Incharge

Authorized Signatory

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Vibrant Techno Lab Pvt. Ltd.

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

9929108691, 9810205356, 8005707098, 9549956601

2 0141-2954638

bd@vibranttechnolab.com





Sample Number:

VTL/AA/01-07

Name & Address of the

Party

Sample Description:

M/s JK Cement Works, Panna

Ambient Air Quality Monitoring

(A Unit Of JK Cement Ltd.) Kakra- Panna Limestone Mines Village-Harduwaken Tehsil-Amangani PIN-488441 Dist-Panna Report No.:

VTL/A/2503010011-17

Format No.:

7.8 F 02

Party Reference No.:

NIL

Report Date:

05/03/2025

Period of Analysis:

01-05/03/2025

Receipt Date

01/03/2025

General Information:-

Date of Sampling

Sample collected by

Instrument Calibration Status

Meteorological condition during monitoring

Surrounding Activity

Scope of Monitoring

Sampling & Analysis Protocol

Sampling Duration

Parameter Required

: 21-23/02/2025

: VTL Team

: Calibrated

: Clear sky

: Human , Vehicular & Other Activities

: Regulatory Requirement

: IS-5182 & CPCB Guidelines

: 24 hrs.

: As Per Work Order

		PM10 μg/m3	PM2.5 µg/m3	NO2 µg/m3	SO2 μg/m3	CO mg/m3
\$.NO.	Sampling Location	IS: 5182 (P-23), 2017	IS 5182 (P-24): 2019	IS: 5182 (P-6), 2006	IS: 5182 (P-2), 2001	IS: 5182 (P-10) NDIR
1.	Saptai Village	53.61	27.41	16.24	9.58	0.60
2.	Kamtana Village	48.97	25.36	14.72	8.69	0.72
3.	Puraina Village	56.11	29.15	18.48	10.24	0.78
4.	Pagra Village	58.94	30.48	22.51	12.67	0.82
5.	Udla Village	49.89	26.31	15.87	9.68	0.65
6.	Sotipura Village	47.57	24.10	13.62	8.49	0.55
7.	Hinauta Village	57.14	29.83	17.44	10.17	0.61
	#NAAQS Standard	100	60	80	80	04

-End of the Report-





RK Yadav Lab Incharge **Authorized Signatory**

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Vibrant Techno Lab Pvt. Ltd.

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3 0141-2954638

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Sample Number:

Party

Name & Address of the

VTL/AA/08-12

M/s JK Cement Works, Panna

(A Unit Of JK Cement Ltd.) Kakra- Panna Limestone Mines Village-Harduwaken

Tehsil-Amangani PIN-488441 Dist-Panna

Report No.:

VTL/A/2503010018-22

Format No.:

7.8 F 02

Party Reference No.:

NIL

Report Date:

05/03/2025

Period of Analysis:

01-05/03/2025

Receipt Date

01/03/2025

Sample Description:

Ambient Air Quality Monitoring

General Information:-

Date of Sampling

Sample collected by

Instrument Calibration Status

Meteorological condition during monitoring

Surrounding Activity

Scope of Monitoring

Sampling & Analysis Protocol

Sampling Duration

Parameter Required

: 20-21/02/2025

: VTL Team

: Calibrated

: Clear sky

: Human, Vehicular & Other Activities

: Regulatory Requirement

: IS-5182 & CPCB Guidelines

: 24 hrs.

: As Per Work Order

	Sampling	РМ10 µg/m3	РМ2.5 µg/m3	NO2 µg/m3	SO2 μg/m3	CO mg/m3
S.NO.	Location	IS: 5182 (P-23), 2017	IS 5182 (P-24): 2019	IS: 5182 (P-6), 2006	IS: 5182 (P-2), 2001	IS: 5182 (P-10) NDIR
1.	Purwa Village	57.64	28.64	17.52	9.24	0.79
2.	Amanganj Village	48.59	26.53	15.81	8.18	0.73
3.	Bhupatpura Village	52.34	27.78	16.20	9.84	0.77
4.	Mahadkh Village	47.79	24.92	13.76	7.63	0.68
5.	Umeri Village	58.54	30.45	16.82	10.58	0.81
	#NAAQS Standard	100	60	80	80	04

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





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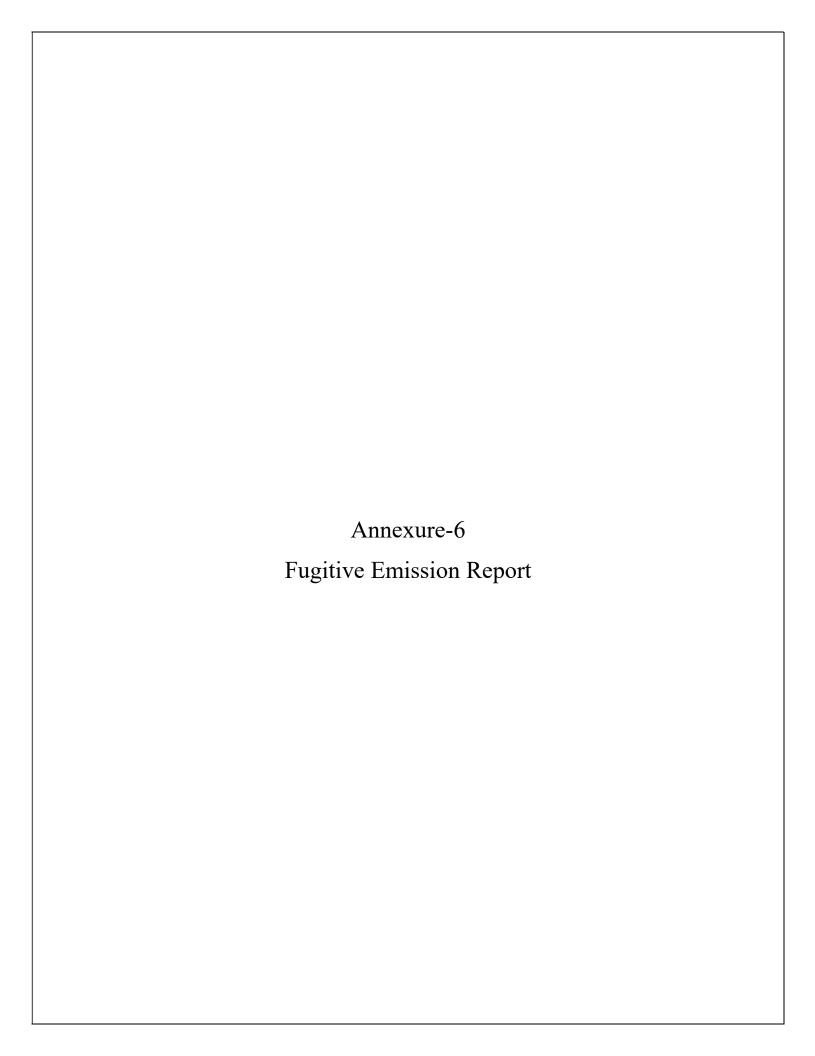
Vibrant Techno Lab Pvt. Ltd.

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2 0141-2954638

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Sample Number:

VTL/FD/01

M/s JK Cement Works, Panna

Name & Address of the Party

(A Unit Of JK Cement Ltd.) Kakra- Panna Limestone Mines Village-Harduwaken

Tehsil-Amanganj PIN-488441 Dist-Panna

VTL/FD/2411170009

Report No.: Format No.:

7.8 F 02

Party Reference No.:

NIL.

Report Date:

25/11/2024

Period of Analysis:

17-25/11/2024

Receipt Date

17/11/2024

Sample Description:

Fugitive Emission Monitoring

Results

: Near Kakra Crusher (Transfer Point)

: VTL Team

: HVS

: VTL/HVS/01

: Clear sky

: 10/11/2024

: 13:30 to 21:30 Hrs.

: Min. 11°C, Max. 25°C

: Human, Vehicular& Plant Activities

: IS-5182 & CPCB Guidelines

: 8 hrs.

: As Per Work Order

General Information:-

Sampling Location

Sample collected by

Sampling Equipment used

Instrument Code

Latitude

Longitude

Meteorological condition during monitoring

Date of Sampling

Time of Sampling

Ambient Temperature (°C)

Surrounding Activity

Method of Sampling

Sampling Duration Parameter Required

S. No. Parameter Protocol	Result	Unit	Limit
Suspended Particulate Matter (SPM) VTL/STP/02/STP	/01 358.0	μg/m3	600



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Sample Number:

VTL/FD/02

Report No.:

VTL/FD/2411170010

Name & Address of

M/s JK Cement Works, Panna

7.8 F 02

the Party

(A Unit Of JK Cement Ltd.) Kakra- Panna Limestone Mines Village-Harduwaken Tehsil-Amanganj PIN-488441 Dist-Panna

Party Reference No.:

NII.

Sample Description:

Fugitive Emission Monitoring

Report Date: Period of Analysis:

Format No.:

25/11/2024

17-25/11/2024

Receipt Date

17/11/2024

Results

General Information:-

Sampling Location

Sample collected by

Sampling Equipment used

Instrument Code

Latitude

Longitude

Meteorological condition during monitoring

Date of Sampling

Time of Sampling

Ambient Temperature (°C)

Surrounding Activity

Method of Sampling

Sampling Duration

Parameter Required

: Near Kakra Mine Back Side

: VTL Team

: HVS

: VTL/HVS/02

: Clear sky

: 10/11/2024

: 13:00 to 21:00 Hrs.

: Min. 11°C, Max. 25°C

: Human, Vehicular& Plant Activities

: IS-5182 & CPCB Guidelines

: 8 hrs.

: As Per Work Order

Parameter	Protocol	Result	Unit	Limit
d Particulate Matter (SPM)	VTL/STP/02/STP/01	325.0	μg/m3	600
	d Particulate Matter (SPM)	Fototocco	d Particulate Matter (SPM) VTL/STP/02/STP/01 325.0	d Particulate Matter (SPM) VTL/STP/02/STP/01 325.0 µg/m3



RKYaday

Lab Incharge

Authorized Signator

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Vibrant Techno Lab Pvt. Ltd.

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Sample Number: Name & Address of

the Party

VTL/FD/03

M/s JK Cement Works, Panna

(A Unit Of JK Cement Ltd.) Kakra- Panna Limestone Mines Village-Harduwaken

Tehsil-Amanganj PIN-488441 Dist-Panna

Report No.:

VTL/FD/2411170011

Format No.:

7.8 F 02

Party Reference No.:

NIL

Report Date:

25/11/2024

Period of Analysis:

17-25/11/2024

Receipt Date

17/11/2024

Sample Description :

Fugitive Emission Monitoring

Results

General Information:-

Sampling Location

Sample collected by

Sampling Equipment used

Instrument Code

Latitude

Longitude

Meteorological condition during monitoring

Date of Sampling

Time of Sampling

Ambient Temperature (°C)

Surrounding Activity

Method of Sampling

Sampling Duration

Parameter Required

: Near Kakra Haulage Road

: VIL Team

: HVS

: VTL/HVS/01

1 -

. ..

: Clear sky

: 10-11/11/2024

: 22:00 to 06:00 Hrs.

: Min. 11°C, Max. 25°C

: Human, Vehicular& Plant Activities

: IS-5182 & CPCB Guidelines

: 8 hrs.

: As Per Work Order

S. No.	Parameter	Protocol	Result	Unit	Limit
	Suspended Particulate Matter (SPM)	VTL/STP/02/STP/01	410.0	μg/m3	600

End of the Report----

Experience the unimaginable





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OTHER PTO



Sample Number:

Name & Address of

the Party

VTL/FD/04

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:

Fugitive Emission Monitoring

Report No.:

VTL/FD/2411170012

Format No.:

7.8 F 02

Party Reference No.:

NIL.

Report Date:

25/11/2024

Period of Analysis:

17-25/11/2024

Receipt Date

17/11/2024

Results

General Information:-

Sampling Location

Sample collected by

Sampling Equipment used

Instrument Code

Latitude

Longitude

Meteorological condition during monitoring

Date of Sampling

Time of Sampling

Ambient Temperature (°C)

Surrounding Activity

Method of Sampling

Sampling Duration

Parameter Required

: Near Kakra Mine Crusher (Unloading Point)

: VTL Team

: HVS

: VTL/HVS/02

: Clear sky

: 10-11/11/2024

: 22:30 to 06:30 Hrs.

: Min. 11°C, Max. 25°C

: Human, Vehicular& Plant Activities

: 1S-5182 & CPCB Guidelines

: 8 hrs.

: As Per Work Order

S. No.	Parameter	Protocol	Result	Unit	Limit
	Suspended Particulate Matter (SPM)	VTL/STP/02/STP/01	389.0	µg/m3	600

End of the Report-----



RK Yadav

Lab Incharge

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Sample Number:

Name & Address of

Sample Description:

the Party

VTL/FD/04

M/s JK Cement Works, Panna

(A Unit Of JK Cement Ltd.) Kakra- Panna

Limestone Mines Village-Harduwaken

Tehsil-Amanganj PIN-488441 Dist-Panna

Fugitive Emission Monitoring

Report No.:

VTL/FD/2411170013

Format No.:

7.8 F 02

Party Reference No.:

NIL.

Report Date:

25/11/2024

Period of Analysis:

17-25/11/2024

Receipt Date

17/11/2024

Results

General Information:-

Sampling Location

Sample collected by

Sampling Equipment used

Instrument Code

Latitude

Longitude

Meteorological condition during monitoring

Date of Sampling

Time of Sampling

Ambient Temperature (°C)

Surrounding Activity

Method of Sampling

Sampling Duration

Parameter Required

: Near Kakra Mine (Loading Point)

: VTL Team

: HVS

: VTL/HVS/01

: Clear sky

: 11/11/2024

07:30 to 15:30 Hrs.

Min. 11°C, Max. 25°C

: Human, Vehicular& Plant Activities

: IS-5182 & CPCB Guidelines

: 8 hrs.

: As Per Work Order

S. No.	Parameter	Protocol	Result	Unit	Limit
1.	Suspended Particulate Matter (SPM)	VTL/STP/02/STP/01	324.0	µg/m3	600

End of the Report-





RK Yadav Lab Incharge

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9929108691, 9810205356, 8005707098, 9549956601

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Sample Number:

VTL/FD/01

M/s JK Cement Works, Panna

Fugitive Emission Monitoring

Name & Address of the Party

Sample Description:

(A Unit Of JK Cement Ltd.) Kakra- Panna Limestone Mines Village-Harduwaken

Tehsil-Amangani PIN-488441 Dist-Panna

Report No.:

VTL/FD/2503010009

Format No.:

7.8 F 02

Party Reference No.:

NIL.

Report Date:

05/03/2025

Period of Analysis:

01-05/03/2025

Receipt Date

01/03/2025

Results

General Information:-

Sampling Location

Sample collected by Sampling Equipment used

Instrument Code

Latitude

Longitude

Meteorological condition during monitoring

Date of Sampling

Time of Sampling

Ambient Temperature (°C)

Surrounding Activity

Method of Sampling

Sampling Duration

Parameter Required

: Near Kakra Crusher (Transfer Point)

VTL Team

: HVS

: VTL/HVS/01

: Clear sky

: 18/02/2025

: 09:30 to 13:30 Hrs.

: Min. 11°C. Max. 25°C

: Human, Vehicular& Plant Activities

: IS-5182 & CPCB Guidelines

: 4 hrs.

: As Per Work Order

S. No.	Parameter	Protocol	Result	Unit	Limit
1.	Suspended Particulate Matter (SPM)	VTL/STP/02/STP/01	412.0	µg/m3	600





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Sample Number: Name & Address of

Sample Description:

the Party

VTL/FD/02

M/s JK Cement Works, Panna

Fugitive Emission Monitoring

(A Unit Of JK Cement Ltd.) Kakra- Panna

Limestone Mines Village-Harduwaken

Tehsil-Amanganj PIN-488441 Dist-Panna

Report No.: Format No.:

VTL/FD/2503010010

Party Reference No.:

7.8 F 02

NIL

Report Date:

05/03/2025 01-05/03/2025

Period of Analysis:

Receipt Date

01/03/2025

Results

General Information:-

Sampling Location

Sample collected by

Sampling Equipment used

Instrument Code Latitude

Longitude:

Meteorological condition during monitoring

Date of Sampling

Time of Sampling

Ambient Temperature (°C)

Surrounding Activity

Method of Sampling

Sampling Duration

Parameter Required

: Near Kakra Mine Back Side

: VTL Team

: HVS

: VTL/HVS/02

: Clear sky

: 18/02/2025

: 14:30 to 18:30 Hrs.

: Min. 11°C, Max. 25°C

: Human, Vehicular & Plant Activities

: IS-5182 & CPCB Guidelines

: 4 hrs.

: As Per Work Order

Parameter	Protocol	Result	Unit	Limit
Suspended Particulate Matter (SPM)	VTL/STP/02/STP/01	386.0	µg/m3	600
	Suspended Particulate Matter (SPM)	Suspended Particulate Matter (SPM) VTL/STP/02/STP/01		Suspended Particulate Matter (SPM) VTL/STP/02/STP/01 386.0 µg/m3





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2 0141-2954638

Dd@vibranttechnolab.com



Sample Number:

Name & Address of

the Party

VTL/FD/03

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:

Fugitive Emission Monitoring

Report No.:

VTL/FD/2503010011

Format No.:

7.8 F 02

Party Reference No.:

NIL

Report Date:

05/03/2025

Period of Analysis:

01-05/03/2025

Receipt Date

01/03/2025

Results

General Information:-

Sampling Location

Sample collected by

Sampling Equipment used

Instrument Code

Latitude

Longitude:

Meteorological condition during monitoring

Date of Sampling

Time of Sampling

Ambient Temperature (°C)

Surrounding Activity

Method of Sampling

Sampling Duration

Parameter Required

: Near Kakra Haulage Road

: VTL Team

: HVS

: VTL/HVS/01

: Clear sky

: 19/02/2025

: 09:00 to 13:00 Hrs.

: Min. 11°C, Max. 25°C

: Human, Vehicular& Plant Activities

: 15-5182 & CPCB Guidelines

: 4 hrs.

: As Per Work Order

Parameter	Protocol	Result	Unit	Limit
ded Particulate Matter (SPM)	VTL/STP/02/STP/01	448.0	µg/m3	600
	ded Particulate Matter (SPM)	ded Particulate Matter (SPM) VTL/STP/02/STP/01		ded Particulate Matter (SPM) VTL/STP/02/STP/01 448.0 µg/m3





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Sample Number:

VTL/FD/04

Name & Address of the Party

Sample Description:

M/s JK Cement Works, Panna

Fugitive Emission Monitoring

(A Unit Of JK Cement Ltd.) Kakra-Panna

Limestone Mines Village-Harduwaken

Tehsil-Amanganj PIN-488441 Dist-Panna

Report No.:

VTL/FD/2503010012

Format No.:

7.8 F 02

Party Reference No.:

NIII.

Report Date:

05/03/2025

Period of Analysis:

01-05/03/2025

Receipt Date

01/03/2025

Results

General Information:-Sampling Location

Sample collected by

Sampling Equipment used

Instrument Code

Latitude

Longitude

Meteorological condition during monitoring

Date of Sampling

Time of Sampling

Ambient Temperature (°C)

Surrounding Activity

Method of Sampling

Sampling Duration

Parameter Required

: Near Kakra Mine Crusher (Unloading Point)

: VTL Team

: HVS

: VTL/HVS/02

: Clear sky

: 19/02/2025

: 14:30 to 18:30 Hrs.

: Min. 11°C, Max. 25°C

: Human, Vehicular& Plant Activities

: IS-5182 & CPCB Guidelines

2. 4 hrs.

: As Per Work Order

Parameter	Protocol	Result	Unit	Limit
Suspended Particulate Matter (SPM)	VTL/STP/02/STP/01	436.0	µg/m3	600
100	uspended Particulate Matter (SPM)	uspended Particulate Matter (SPM) VTL/STP/02/STP/01	Table 1	uspended Particulate Matter (SPM) VTL/STP/02/STP/01 436.0 µg/m3





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bd@vibranttechnolab.com



Sample Number:

VTL/FD/04

Name & Address of the Party

Sample Description :

M/s JK Cement Works, Panna

Fugitive Emission Monitoring

(A Unit Of JK Cement Ltd.) Kakra- Panna Limestone Mines Village-Harduwaken

Tehsil-Amangani PIN-488441 Dist-Panna

Report No.:

VTL/FD/2503010013

Format No.:

7.8 F 02

Party Reference No.:

NIL

Report Date:

05/03/2025

Period of Analysis:

01-05/03/2025

Receipt Date:

01/03/2025

Results

General Information:-

Sampling Location

Sample collected by

Sampling Equipment used

Instrument Code

Latitude

Longitude

Meteorological condition during monitoring

Date of Sampling

Time of Sampling

Ambient Temperature (°C)

Surrounding Activity

Method of Sampling

Sampling Duration

Parameter Required

: Near Kakra Mine (Loading Point)

: VTL Team

: HVS

: VTL/HVS/01

: Clear sky

: 20/02/2025

: 09:30 to 13:30 Hrs.

: Min. 11°C, Max. 25°C

: Human, Vehicular& Plant Activities

: IS-5182 & CPCB Guidelines

: 4 hrs.

L As Per Work Order

S. No.	Parameter	Protocol	Result	Unit	Limit
1. 5	Suspended Particulate Matter (SPM)	VTL/STP/02/STP/01 End of the Report	367.0	µg/m3	600





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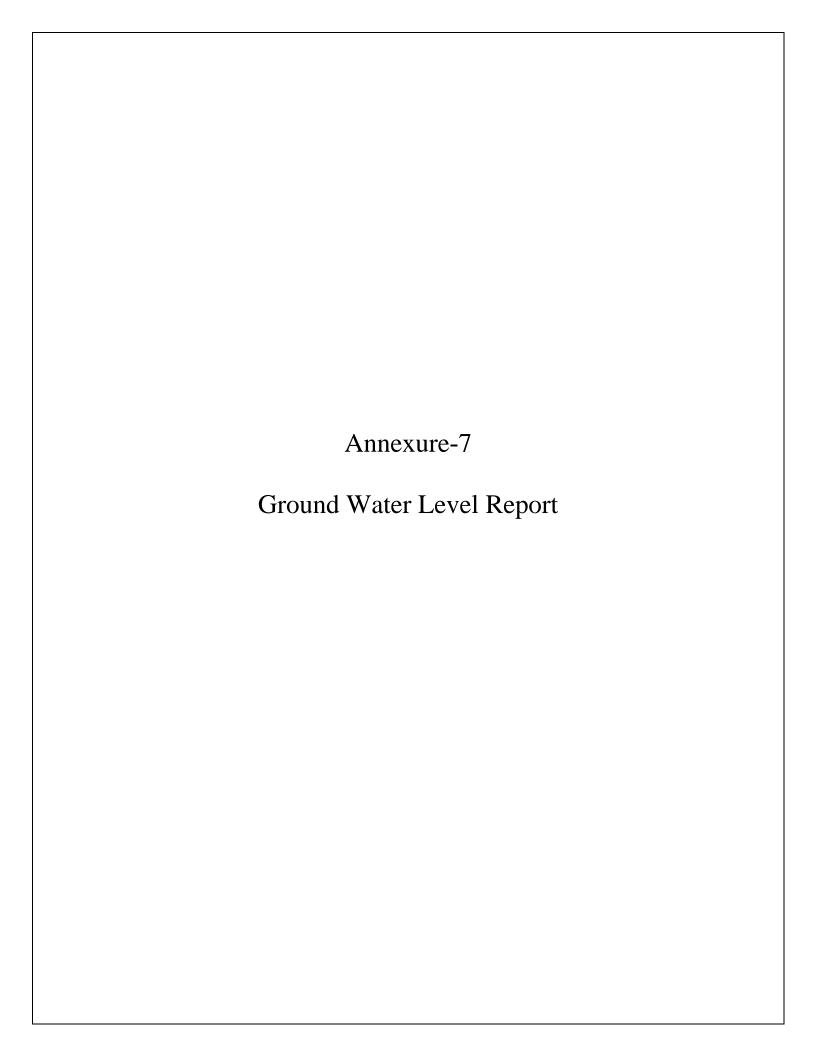
Vibrant Techno Lab Pvt. Ltd.

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JK Cement Works, Panna (Formerly known as Jaykaycem (Central) Ltd. now amalgamated) A Unit of JK Cement Ltd.

Date: 19.12.2024

CIN: L17229UP1994PLC017199

- Village Harduwaken, Tehsit Amanganj District - Panna, State - Madhya Pradesh, India - 488 441
- 🛡 9329141591 😩 jkc.panna@jkcement.com

mww.jkcement.com

Ref: JKCEMENT/ENV/EMR/2024-25/20B/74

To,
Regional Director CGWB
North Central Region,
Block-1,4th Floor,
Parayawas Bhawan Arera Hills, Jail Road
Bhopal, Madhya Pradesh

Subject: Submission of Ground Water Level Monitoring Report for Kakra -Panna Limestone Mine of M/s J K Cement Ltd. Located at village Kakra, Kamtana, Saptai, Judi, Devripurohit & Devra, Tehsil-Amanganj, District Panna (M.P.) for the month of November-2024.

Reference No.: CGWA/NOC/MIN/ORIG/2020/7359

Dear Sir,

With reference to the aforesaid subject, please find Ground Water Level Monitoring report for Kakra-Panna Limestone Mine of of M/s J K Cement Ltd. Located at village Kakra, Kamtana, Saptai, Judi, Devripurchit & Devra, Tehsil-Amanganj, District Panna (M.P.) for the month of **November-2024** for your kind information and record please.

Thanking You Yours faithfully.

For M/s J K Cement Ltd., Panna

Kapil Agrawal (Unit Head)

Encl: As above



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CIN: L17229UP1994PLC017199





Manufacturing Units at :

Nimbahera, Mangrol, Gotar (Rajasthan) | Muddapur (Karnataka) Jharli (Haryana) | Katni, Panna, Ujjaln (M.P.J | Prayagraj, Aligarh, Hamirpur (U.P.) | Balasinor (Gujarat) | Fujairah





Sample Number:

Name & Address of the Party:

VTL/ WL/01-108

M/s JK Cement Works, Panna (A Unit Of JK Cement Ltd.)

Village-Harduwaken Tehsil-Amanganj PIN-

488441 Dist-Panna

Ground Water Level

Report No.:

VTL/W/2411170001-108

Format No.:

7.8 F-01

Party Reference No.: Report Date:

NIL 25/11/2024

17 to 25/11/2024

17/11/2024

Period of Analysis: Receipt Date:

Sampling Date:

11-16/11/2024

Sampl	e Colle	cted	by:

Sample Description:

iample Collected by: Vibrant Techno Lab Re	presentative
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	25000000	0,0074030000000	Location	(dd0mm'ss")	Water Level
SLN	Location	Person Name	Latitude (N)	Longitude (E)	(Below Ground Level)- Meter
1	Puraina Village Borewell	Vishwa Nath Sahu	24° 18′ 51″	79° 58′ 33″	3.82
2	Tighara Village Borewell	Swami Prasad tripathi	24°17'31"	79°57'41"	8.7
3	Tighara Village Borewell	Hanuman Temple	24°17'43"	79°57′19″	2.2
4	Sanaura Village Dugwell	Madan	24°22'40"	80°0'39"	18.23
5	Sanaura Village Borewell	Temple	24°25'6"	79°25'6"	10.7
6	Sanaura Village Dugwell	Temple	24°25′5"	79°58'20"	3.25
7	Kamtana Village Dugwell	Khet	24°22'49"	79°57'30"	1.7
8	Kamtana Village Dugwell	Govt	24° 22' 51"	79* 57" 31"	1.2
9	Kamtana Village Dugwell	Govt.	24°22'55"	79°57'21"	5.7
10	Kamtana Village Borewell	Govt. Near Road	24°21′1″	79"57"20"	5.25
11	Kamtana Village Borewell	Siaram Patel	24° 22'55"	79* 57" 21"	4.5
12	Kamtana Village Borewell	Near Road	24°21'44"	79°57'46"	4.2
13	Sunwani Kalan Borewell	Kanchhedi Lal Pathak	24°21'31"	79°53'19	5.42
14	Sunwani Khurd Borewell	Near Temple	24°21'43"	79°55'12"	12.4
15	Karia Dugwell	Govt.	24* 15' 56"	79° 58′ 47″	3
16	Banbhai Borewell	Ramkesh sain	24°19'43"	79°54'1"	9.4
17	Banbhai Borewell	Near Road	24°19'44"	79°54′1"	9
18	Surajpura Borewell	Kanchedilal	24"21'32"	79°53'18"	15.2
19	Sunwani Kalan Borewell	Kanchhedi Lal Pathak	24°21'31"	79*53'19	8.67
20	Umri Village Dugwell	Near Road	24°16′1″	79°55'7"	2.39
21	Umri Village Dugwell	Near Road	24°15'57"	79°56'5"	1.9
22	Umri Village Dugwell	Near Road	24*15'59*	79°55'48"	3.1
23	Mahod Kalan Village Dugwell	Phoola bai	24° 18' 18"	80° 2' 24"	9.3
24	Mahod Kalan Village	Suresh	E 11.	80°2'45"	8.45

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	Borewell				
25	Bhupat Pura Borewell	Govt	24° 25' 33"	80°1'8"	8.27
26	Simariya Village Borewell	Near Road	24°15'60"	79°54'5"	7.69
27	Boda Village Dugwell	Near Road	24°18'41"	79*56'46"	0.49
28	Boda Village Borewell	Near Road	24°18′17"	79°56'46"	1.19
29	Boda Village Dugwell	Near Road	24°18'3"	79°56'43"	4.79
30	Guda Village Borewell	Changa Choudhary	24° 17' 35"	79° 56' 49"	11.2
31	Guda Village Borewell	Near Road	24° 17' 46"	79° 57' 22"	2.4
32	Koni Village Borewell	Near Road	24*20'20"	79°54'36"	9.67
33	Koni village Borewell	Govt	24° 20' 21"	79° 54' 36"	10.6
34	Bamhori Village Borewell	Ramial	24°20′11"	80°2'7"	10
35	Bamhori Village Dugwell	Govt School	24°20′11"	80°2'7"	10.8
36	Bamhori Village borewell	RajKumar	24° 20' 12"	80° 2' 17"	10
37	Bamhori Village dugewell	RajKumar	24° 20′ 12"	80° 2' 17"	2.23
38	Jharkuwa Village Borewell	Govt.	24°21'27"	80°3'53"	10.5
39	Jharkuwa Village Borewell	Govt	24"21"27"	80°3'54"	6.1
40	Jharkuwa Village Borewell	Near Road	24°23'0"	90°2'37"	6.91
41	Jharkuwa Village Dugwell	Kanhaiya	24°21'16"	80°2'42*	7.3
42	Jharkuwa Village Borewell	Kanhaiya	24°21'17"	80°2'43"	14.5
43	Itauri Village Borewell	Thakur Das Pandey	24°22'41"	80.2'17"	9.2
44	Itauri Village Borewell	Salikram Pandey	24°22'32"	80°2'32"	8.7
45	Itauri Village Borewell	Govt. School	24°22'53"	80°2'15"	12.7
46	Itauri Village Dug well	Habib Khan	24°22'29"	80°2'25"	9.7
47	Itauri Village Borewell	Near Road	24°22'29°	80°2'25"	9.7
48	Amangani Borewell	Lakshmi Narayan Dubey	24°25'28"	80°2'7"	13.9
49	Amanganj Borewell	Virendra Singh	24°25'28"	80°2"7"	14.18
50	Amanganj Borewell	Govt	24°25'26"	80°2'8"	15.2
51	Hinauti Borewell	Near Hotel	24°25'33"	80° 1' 9"	13.8
52	Hinauti Borewell	Near Road	24°25'29"	80.1'9"	12.1
53	Madaiyan Borewell	Saheb Singh	24°22'43*	79°59'9"	8.6
54	Madaiyan Brewell	Khet	24*22'43*	79°59'2"	9.34
55	Deora Village Dugwell	Samudayik Bhawan	24°20′19°	79°58′19°	2.19
56	Deora Village Borewelll	Near Road	24° 20′ 21″	79"58'16"	2.33
57	Deora Village Borewell		LAB4529(21"	79°58'26"	7.1
58	Deora Village Dugwell	Near Road.	24° 19-50"	79° 58' 57"	3.37

Checked By

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6	Pagara village Borewell	Ram Kisho	24/23/8"	79° 59' 53" RK Yaday	1.9
5	Judi Village Borewell		AB 20 21' 28"	79° 59' 20"	6.5
4	Judi Village Borewell	Sadan Kushwaha	24°21′27°	79°59'25*	3.3
3	Judi Village Borewell	Near Road	24°21′29°	79°59'26"	4.7
2	Judi Village Borewell	Near Road	24°21'28°	79°59'24"	2.54
1	Judi Village Borewell	Harilal Kushwaha	24*21'27*	79°59'25"	2.1
0	Judi Village Dug well	Pankhi bai	24"21'29"	79*59'22"	23.4
9	Judi Village Borewell	Munni lai	24°21'28"	79°59′23″	3.27
8	Ramanpura Village Dugwell	Near Temple	24° 22′ 52″	79° 59′ 2"	4.6
7	Ramanpura Village Borewell	Near road	24° 22' 57"	79* 59' 4"	7.8
6	Dharampura Village Dug well	Khet	24° 23' 12"	79* 59' 7"	5.18
5	Ramanpura Village Dugweil	Near temple	24° 23' 22"	79° 59' 55"	9.12
4	Bilha Village borewell	Near Hotel	24° 22' 42"	80° 0' 37"	10
3	Kakra Village Dugwll	Ramgulam Tiwari	24° 21' 21"	79° 56' 59"	6.76
2	Kakra Village Borewell	Dev Prabhakar	24°21'20"	79° 56'59"	10.8
1	Kakra Village Borewell	Shambu lal Tiwari	24*21'18*	79*56'59*	7.46
)	Kakra Village Borewell	Shreekant Sain	24°21′16"	79°57'4"	10.7
9	Kakra Village Borewell	Digvijay Singh	24°21′17′	79*57'5"	8.6
3	Kakra Village Borewell	Neeraj Lodhi	24°21′20°	79°57'3"	9.8
7	Kakra Village Dugwell	Shiv Kishor Tiwari	24°21'22*	79° 57'1"	11.4
5	Kakra Village Borewell	Premdas Kuswaha	24°21'22"	79°57'4"	8.2
5	Kakra Village Borewell	Ram ji Tiwari	24°21'24"	79°57'2"	3.58
6	Kakra Village Borewell	Temple	24°21′24"	79° 57'1"	4.7
3	Kakra Village Borewell	Ruplal Mandir	24°21'24"	79* 57'1"	7
2	Purwa Village Borewell	Near Road	24°20'47"	79"59"42"	3.19
1	Purwa Village Borewell	Near Road	24°20'53"	79°59'49"	10.4
0	Deora Village Borewell	Near Panchayat	24° 21′ 10″	79° 59′ 54"	3.48
9	Deora Village Borewell	Arvind Singh	24°19'55"	79°58'58"	8.3
В	Deora Village Borewell	Govt.Near Hanuman Tample	24°20'18"	79°58′18″	2.19
7	Deora Village Borewell	Near Shiv Temple	24" 20" 48"	24°58′ 21"	2.56
6	Deora Village Borewell	Balram Tiwari	24° 20' 44"	79° 58′ 18″	6.69
5	Deora Village Borewell	Ramcharan	24° 20' 41"	79° 58′ 17″	6.38
4	Deora Village Borewell	Kishun	24° 20′ 41″	79° 58′ 18″	10.24
3	Deora Village Borewell	Near Road	24" 20" 23"	79° 58′ 21″	4.51
2	Deora Village Borewell	Brindavan Tiwari	24°20'41"	79*58'19"	2.31
1	Deora Village Borewell	Near Road	24"20'19"	79°58'29"	8.11
0	Deora Village Borewell	Near Road	24° 19° 20"	79° 58' 29"	2.1

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97	Pagara village Dugwell	Near Road	24° 21' 11"	80° 0° 3"	2
98	Judi Village Borewell	Munni lal	24°21'28"	79°59'23"	3.27
99	Judi Village Dug well	Pankhi bai	24°21'29"	79*59'22"	23.4
100	Pagara village Dugwell	Near Road	24° 20′ 53″	79" 59' 49"	1.9
101	Pagara village Borewell	Near Road	24° 21′ 3″	80° 0' 0"	1.4
102	Pagara village Borewell	Near Road	24" 21' 8"	80° 0' 1"	7.81
103	Pagara village Borewell	Govt	24° 21' 9"	80° 0′ 0"	3.45
104	Piezometer Near Security Barrack	Cement Plant	24.330578	79.977914	10.12
105	Piezometer (Nr.Kakra crusher area.)	Kakra Mines	24° 19' 47"	79* 58' 17"	7.81
106	Piezometer (Nr.Kakra Mine Pit.)	Kakra Mines	24.346323	79.959719	8.85
107	Piezometer Koni Mine-1	Koni Mines	24.313389	79.932291	4.78
108	Piezometer Koni Mine-2	Koni Mines	24.319217	79.924886	8.21









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JK Cement Works, Panna (Formerly known as Jaykaycem (Central) Ltd. now amalgamated) A Unit of JK Cement Ltd.

Dated: 17.02.2025

CIN: L17229UP1994PLC017199

- 🏫 Village Hardúwaken, Tehsil Amanganj District - Panna, State - Madhya Pradesh, India - 488 441
- 📞 9329141591 🍙 jkc.panna@jkcement.com
- www.jkcement.com

Ref. No. JKCEMENT/ENV/EMR/2024-25/20B/78

To, The Member Secretary, Central Ground Water Authority, Jamnagar House, New Delhi-110011

e-mail id: cgwa@nic.in

Subject: Submission of Ground Water Level Monitoring Report for Kakra -Panna Limestone Mine of M/s J K Cement Ltd. Located at village Kakra, Kamtana, Saptai, Judi, Devripurohit & Devra, Tehsil-Amanganj, District Panna (M.P.) for the month of January-2025.

Ref: 1-NOC Letter No. CGWA/NOC/MIN/ORIG/2020/7359

Dear Sir.

With reference to the aforesaid subject, please find Ground Water Level Monitoring report for Kakra-Panna Limestone Mine of of M/s J K Cement Ltd. Located at village Kakra, Kamtana, Saptai, Judi, Devripurohit & Devra, Tehsil-Amanganj, District Panna (M.P.) for the month of January-2025.

This is for your kind information and record, please.

With Regards, Yours Faithfully

For Kakra-Panna Limestone Mine (Unit of J K Cement Ltd., Panna)

Kapil Agrawal (Unit Head)

Encl: As above

CC: 1. The Regional Director, Central Ground Water Board, Bhopal (M.P.) email id: rdncr-cgwb@nic.in

Member Secretary, MPPCB, Bhopal (MP)-462016, email id: ms-mppcb@mp.gov.in

3. Regional Officer, MPPCB, Makronia, Sagar (MP), email id: ropcb-sagar@mp.gov.in

Corporate Office

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Manufacturing Units at : admin.prismt@ikcement.com Nimbahera, Mangrol, Gotan (Rajasthan) | Muddepur (Karnetaka) Jharli (Haryana) | Katni, Panna, Ujjain (M.P.) | Prayagraj, Aligarh, www.ikcement.com CIN: L17229UP1994PLC017199 Hamirpur (U.P.) | Balasinor (Gujarat) | Fujairah



Sample Number:

Name & Address of the Party:

VTL/ WL/01-109

M/s JK Cement Works, Panna (A Unit Of JK Cement Ltd.)

Village-Harduwaken Tehsil-Amanganj PIN-

Vibrant Techno Lab Representative

488441 Dist-Panna

Ground Water Level

Report No.:

VTI./W/2501230001-109

Format No.:

7.8 F-01

Party Reference No.: Report Date:

NIL 28/01/2025

Period of Analysis:

23 to 28/01/2025

Receipt Date:

23/01/2025

Sampling Date:

11-16/01/2025

S.No.	Location

Sample Description:

Sample Collected by:

S.No.	Location	Person Name	Location(dd0mm'ss")		Water Level
			Latitude (N)	Longitude (E)	(Below Ground Level)- Meter
1	Puraina Village Borewell	Near Temple	24° 19′ 1″	79° 58' 36"	9.23
2	Tighara Village Borewell	Shiv Veer Singh	24*17'38*	79"57'48"	9.0
3	Dhanwara Village Dugwell	Vidyadeen Rajput	24*12'3"	79"54'40"	8.13
4	Husaina Borewell	Kodu Patol	24°12'27°	79*47*51*	6.68
5	Kudra Borewell	Hukum singh	24°21′13°	79°3'59"	14.15
6	Kachnari Borewell	Govt	24°14′34"	79°45'49"	7.29
7	Sanaura Village Borewell	Kalyan Singh	24*25'1"	79°57'45"	6,47
8	Jhijgav Village Borewell	Ram Kishan	24°25'6"	79*58'59"	7.89
9	Jhijgav Village Borewell	Ram Lakhan	24°25'10"	79°59′13″	7.7
10	Jhijgav Village Borewell	Near Road	24°25'7"	79°58′58"	6.85
11	Jhijgav Village Dugwell	Ujiyan	24°25'8"	79°58'44"	2.40
12	Udla Village Borewell	Govt	24°24'16"	79°54'39"	8.73
13	Udla Village Dugwell	Exp Govt	24°24'19°	79"54"39"	2.6
14	Sanaura Village Dugwell	Temple	24°25'5*	79"58"20"	3.47
15	Kamtana Village Dugwell	Near temple	24°22′51"	79*57'31"	4.16
16	Kamtana Village Borewell	Near Khet	24*22'40"	79°57′47°	12.9
17	Kamtana Village Borewell	Near Khet	24"21'51"	79°57'50"	15.85
18	Hinauta Dugwell	Bhagirath	24* 23' 48"	80° 1' 17"	10.1
9	Kamtana Village Dugwell	Near Road	24° 22' 60"	79° 57' 17"	4.67
0	Kamtana Village Borewell	Near Road	AB 0 24°23'6"	79*57-25*	8.5



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RK Yadav Lab Incharge Authorized Signatory

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21	Kamatana Village Borewell	Govt. School	24°22'55"	79°57'21"	7.81
22	Kamatana Village Dug well	Near Road	24*23*11*	79*57'28"	2.65
23	Kamatana Village Dug well	Near Road	24*23'12*	79°57'29"	2.9
24	Sunwani Khurd Borewell	Near Temple	24*21'43*	79*55'12"	12.36
25	Gaisabad Borewell	Govt.	24° 14' 12"	79* 49' 36"	14.8
26	Sunwani Kalan Borewell	Amit Chanpuriya	24°21'36"	79*52'58*	12.36
27	Mahod Kalan Village Borewell	Suresh	24°18′11"	80°2'43"	11.0
28	Saptai Village Dugwell	Near Temple	24*21'24*	79*57'1"	6.68
29	Simariya Village Dugwell	Near Road	24*16'43*	79°53'49"	2.8
30	Simariya Village Dugwell	Near Road	24*16'18*	79*53'50"	3.0
31	Kariya Village Dugwell	Govt.	24°15'56"	79°58'47"	4.26
32	Kariya Village Dugwell	Govt.	24°15′37"	79°58′57"	7.1
33	Gaisabad Village Dugwell	Govt	24*14*10*	79°49'35"	3.2
34	Chadra Village Dugwell	Raja	24°14′14"	79"54"18"	4.8
35	Boda Village Dugwell	Near Road	24*18'17"	79*56'46"	2.35
36	Boda Village Borewell	Near Road	24°18'3"	79°56'44"	1.45
37	Boda Village Dugwell	Near Road	24°18'3"	79°56′41°	5.95
38	Bamhori Village Borewell	Near Road	24°20′15*	80*1'57*	11.9
39	Bamhori Village Dugwell	Near Road	24°20'26"	80°2'50*	4.7
40	Bamhori Village borewell	RajKumar	24° 20" 12"	80° 2' 5"	9.7
41	Sirsi Patna Borewell	Govt.	24" 23' 16"	79" 54" 24"	5.3
42	Bamhori Village dugewell	RajKumar	24* 20' 11"	80° 2' 5"	5.0
43	Bamhori Village Borewell	Jitendra	24° 20′ 9′′	80° 1' 59°	2.9
44	Bamhori Village Borewell	Govt.	24° 20' 10"	80° 2' 7°	5.0
15	Jharkuwa Village Borewell	Near Road	24"21'4"	80°2'46"	7.12
16	Jharkuwa Village Dugwell	Kanhaiya	24*21'16"	80°2'42"	7.12
17	Jharkuwa Village Borewell	Kanhaiya	24°21′17°	80°2'43"	14.66
18	Itauri Village Borewell	Thakur Das Pandey	24°22'41"	80.2'17"	7.3
19	Itauri Village Borewell	Salikram Pandey	24"22'33"	80°2'23"	16.12
50	Itauri Village Dugweli	Near road	24°21′14°	80°2'46"	7.12
51	Itauri Village Dugwell	Ram Lakhan	LAB 05'10"	79°59'13"	7.7



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52	Itauri Village Borewell	Near Road	24*25'29*	80*0"29"	9.17
53	Itauri Village Borewell	Prem Lal	24°25'32"	80°0'49"	4.87
54	Itauri Village Borewell	Roshan Choudhary	24*25'32"	80°0'48"	7.67
55	Itauri Village Borewell	Bharat Choudhary	24*25'32"	80°0′47*	13.8
56	Amanganj Borewell	Lakshmi Narayan Dubey	24°25'28"	80°2'7"	12.4
57	Amanganj Dugwell	Govt.	24*25'32*	80°2'2"	7.45
58	Amanganj Borewell	Govt	24°25'26"	80°2'8"	20.9
59	Hinauti Dugwell	Bhagirath	24°23'48"	80° 1' 17"	10.10
60	Hinauti Dugwell	Near Road	24°13′20"	79.45'2"	3.34
61	Jamsha Borewell	Prem Lal	24°13'5"	79.46'22"	5.2
62	Muhrai Villge Dugwell	Near Road	24*16'52*	79.46'42"	6.2
63	Madaiyan Borewell	Arjun Singh	24°19'44"	79°59'24"	12.97
64	Deora Village Dugwell	Uma Shankar	24°20'53"	79°59'49"	2.8
65	Deora Village Borewelll	Near Road	24° 20' 50"	79°59'49"	9.1
66	Deora Village Borewell	Umn shankar	24"20"53"	79°59'50"	14.23
67	Deora Village Dugwell	Near Road.	24° 20° 21"	79° 58′ 16″	2.5
68	Deora Village Dugwell	Samudayik Bhawan	24° 20' 19"	79*58'19"	2.7
69	Deora Village Borewell	Arvind	24° 19' 55"	79° 58′ 58″	11.23
70	Deora Village Borewell	Natha Lal	24°20′41"	79°58′17°	20.19
71	Deora Village Borewell	Near khet	24" 20" 43"	79° 58′ 14"	6.21
72	Deora Village Borewell	Jawahar	24* 20' 54"	79° 59′ 52"	7,4
73	Deora Village Borewell	Balram Tiwari	24° 20′ 42"	79° 58' 19"	19.89
74	Deora Village Borewell	Near Temple	24° 20' 18"	79°58′ 18"	12.67
75	Deora Village Borewell	Brindawan tiwari	24°20'45"	79"58'18"	11.55
76	Deora Village Borewel	Near Ram temple	24°20'48"	24°58° 21″	3.2
77	Deora Village Dugwell	Near Panchayat	24° 20′ 48″	79° 58' 18"	3.81
78	Kakra Village Dugwell	Temple	24°21'24"	79° 57'1"	6.68
79	Kakra Village Borewell	Ram ji Tiwari	24*21'21"	79°56'59"	13.28
80	Kakra Village Borewell	Premdas Kuswaha	24*21'23"	79°57'4"	12.1
81	Kakra Village Dugwell	Near Temple	24°21'24"	79° 57'1"	6.6
82	Kakra Village Borewell	Neeraj Lodhi	24°21'20"	79°57'3"	13.78
83	Kakra Village Borewell	Vijay Lodhi	24°21'2"	79°57'19"	12.8
84	Kakra Village Borewell	Ruplal Lodhi	24*21'23*	79°57'1"	4.12
85	Kakra Village Borewell	Buksha Kuswaha	24°21′23′	79°57'6"	8.8
86	Kakra Village Borewell	Hukum Singh	24*21'13"	80"3'59"	14.15
87	Kakra Village Borewell	Shiva Kishor Tiwari	24°21'21"	79°57'1"	10.0
88	Kakra Village Borewell	Ramgulam Tiwari	24" 21' 21"	79* 56' 59"	13.28
89	Bilha Village Borewell	Govt	24° 18' 4"	80° 3' 49"	6.68
90	Bilha Village Borewell	Panchayat	710233"	79° 54' 56"	12.97



Approved & Certified EPA 1986 Recognised, ISO:9001 and S.C.AS:4501 Certified

JAIPUR

RK Yadav Lab Incharge Authorized Signatory

Vibrant Techno Lab Pvt. Ltd.

9 SC-40, 3rd Floor, Nereyan Vihar S, Ajmer Road, Jalpur Raj. 302020

9929108691, 9810205356, 8005707098, 9549956601

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91	Bilha Village Borewell	Jagdish Tiwari	24° 23 2"	79" 59' 56"	13.55
92	Judi Village Borewell	Munni lal	24°21'27"	79*59'24*	20.58
93	Judi Village Dug well	Asharam	24*21'7*	79*59'53*	3.5
94	Judi Village Borewell	Govt.	24°21'28"	79"59'26"	38.20
95	Judi Village Borewell	Rawati	24°21'28"	79°59'28"	24.80
96	Judi Village Dogwell	Near Road	24*21'8*	79*59'53"	2.14
97	Judi Village Borewell	near road	24°21'30"	79°59'32"	12.9
98	Judi Village Borewell	Mulua chaudary	24° 21' 27"	79° 59' 22"	25.0
99	Murhai hatta	Govt.	24" 16' 52"	79° 46′ 42°	6.2
100	Vardha Village Borewell	Lutti Kurmi	24° 20′ 18"	79° 47' 7''	5.3
101	Judi village Borewell	Pankhi bai	24° 21' 29"	79° 59' 22"	29.7
102	Judivillage Dugwell	Near Road	24° 21' 6"	80° 0' 0"	3.0
103	Judi Village Borewell	Ramwati kushwaha	24*21*28*	79°59′20"	24.8
104	Judi Village Borewell	Sadan kushwaha	24°21'27"	79°59′25"	8.24
105	Piezometer Near Security Barrack	Cement Plant	24° 23' 3"	79°57' 34"	11.05
106	Piezometer (Nr.Kakra crusher area.)	Kakra Mines	24" 19" 47"	79° 58' 17''	9.89
107	Piezometer (Nr.Kakra Mine Pit.)	Kakra Mines	24* 20' 47"	79*57'35"	8.96
108	Piezometer Koni Mine-1	Koni Mines	24.313389	79.932291	4.61
109	Piezometer Koni Mine-2	Koni Mines	24° 19′ 9"	79" 55" 30"	8.98





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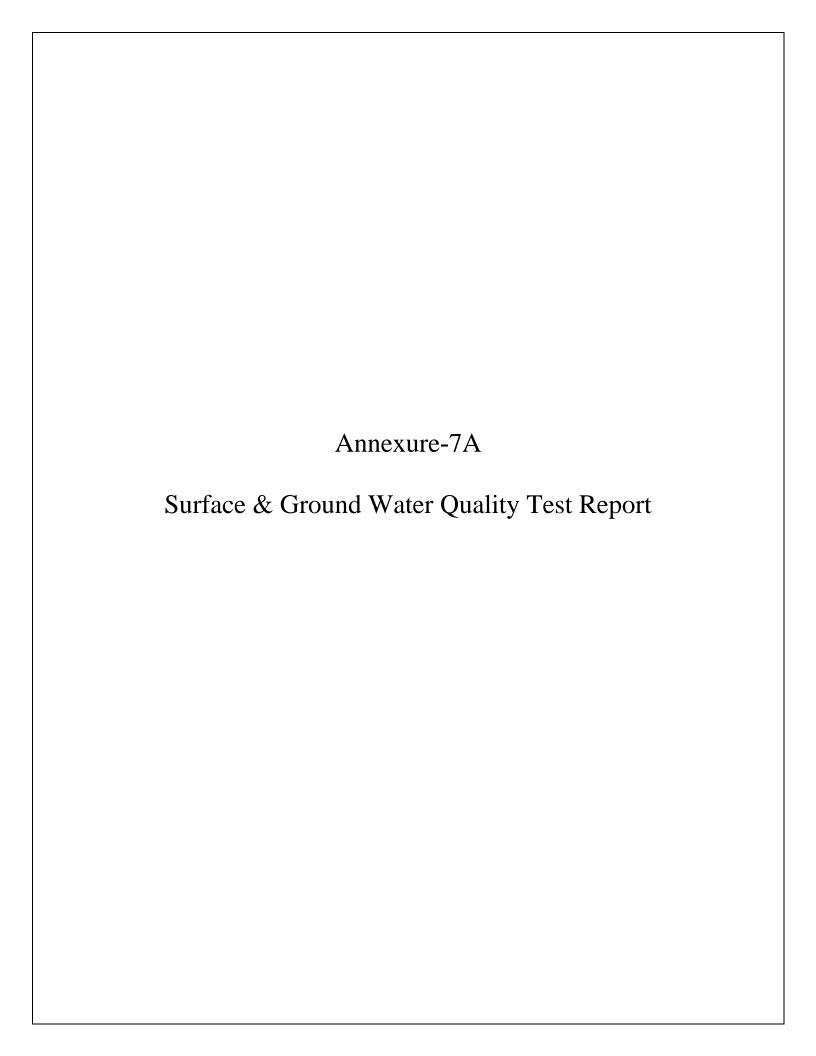
Vibrant Techno Lab Pvt. Ltd.

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

9929108691, 9810205356, 8005707098, 9549956601

2 0141-2954638

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JK Cement Works, Panna (Formerly known as Jaykaycem (Central) Ltd. now amalgamated) A Unit of JK Cement Ltd.

Date: 19.12.2024

CIN: L17229UP1994PLC017199

- Village Harduwaken, Tehsil Amanganj District - Panna, State - Madhya Pradesh, Indla - 488 441
- 9329141691 jkc.panne@jkcement.com
- @ www.jkcement.com

Ref: JKCEMENT/ENV/EMR/2024-25/20B/75

To,
The Director
Impact Assessment Division (IA Division)
Ministry of Environment and Forest & Climate Change
Indira Paryavaran Bhawan, Jorbagh Road,
New Delhi-110003 INDIA.

Subject: Submission of Surface water & Ground Water Quality Analysis Reports for the month of November-2024 for Kakra - Panna Limestone Mine of M/s J K Cement Ltd. Located at Village- Kakra, Kamtana, Saptai, Judi, Devri Purohit & Devra, Tehsil-Amanganj, District Panna (M.P.)

Reference No.: EC No.-F. No. J-11015/190/2016-IA.II (M) dated 31.08.2020

Dear Sir,

With reference to the aforesaid subject, please find herewith enclosed Surface water & Ground Water Quality Analysis Reports for the month of **November-2024** for Kakra -Panna Limestone Mine of M/s J K Cement Ltd. Located at Village- Kakra, Kamtana, Saptai, Judi, Devri Purohit & Devra, Tehsil-Amanganj, District Panna (M.P.) for your kind information and record please.

Thanking You Yours faithfully,

For J K Cement Ltd., Panna

Kapil Agrawal (Unit Head)

Encl: As above

CC to:-

- 1. The Add.Principal Chief Conservator of Forest (C) MoEF & CC, Regional Office (WZ), E-5, Kendriya Paryavaran Bhawan, E-5 Arera Colony, Link Road-3, Ravishankar Nagar, Bhopal-462016
- 2. Member Secretory, CGWA, Jamnagar House, 18/11, Man singh Road Area, New Delhi, Delhi-110001
- 3. Regional Director, CGWB Regional Office, Block-1,4 th Floor, Paryawas Bhawan, Arera Hills, Bhopal
- 4. Scientist E, Regional Directorate, CPCB Zonal Office, Vithal Market, Paryavaran Parisar, E-5, Arera Colony, Bhopal, M.P.
- 5. Member Secretory, MPPCB,E-5, Link Road No. 3, Ekant Park, Arera Colony, Bhopal, M.P.
- 6. Regional Officer, Regional Office MPPCB, Pt. Deen Dayal Nagar, Housing Board Colony, Sagar, M.P.

Corporate Office

- Prism Tower, Ground Floor, Ninaniya Estate,
 Gwal Pahari, Gurugram, Haryana 122102, India
- +0124-6919000
- admin.prismt@jkcement.com

www.jkcement.com

CIN: L17229UP1994PLC017199





Manufacturing Units at :

Nimbahara, Mangrot, Gotan (Rajasthan) | Muddapur (Karnataka) 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





Sample Number:

Name & Address of the Party:

Sample Description:

Sample Collected by: Preservation: Parameter Required: Sampling and Analysis Protocols VTL/SW/01-03

M/s JK Cement Works, Panna

(A Unit Of JK Cement Ltd.) Kakra- Panna Limestone Mines

Village-Hardowaken Tehsil-Amanganj PIN-488441 Dist-

Panna

Surface Water

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

Report No.:

Format No.:

Party Reference No.: Report Date:

Period of Analysis:

Receipt Date: Sampling Date:

Sampling Quantity: Sampling Type:

VTL/W/2411170030-32

7.8 F-01 NIL

25/11/2024

17 to 25/11/2024

17/11/2024

16/11/2024 2.0Ltr.+ 250 ml

Grab

S. No.	Parameter	Test Method	Pond Near Pagra Village	Kes River Near Tighra Village	Beteba Nalla Near Suralpur	Vait
Physi	cal Parameters	Will Leaving with the 12		Light Fillings	341 apput	-
1	pH (at 25 °C)	IS 3025 (P-11): 2022	7.62	7.57	7.69	
2	Colour	IS 3025(P-4): 2021	7	6	10	Hazen
3.	Turbidity	IS 3025 (P-10): 2023	12	16	14	NTU
Chem	ical Parameters (mg/l)			1		I MIO
4.	Total Hardness as CaCO ₃	IS: 3025 (P-21): 2009,RA: 2019	153.00	167.00	134.00	mg/t
5.	Alkalinity as CaCO ₃	IS: 3025 (P-23): 2023	68.00	58.00	49.00	
6	Chloride as Cl	IS: 3025(Part 32):1988, RA:2019	38.76	32.15	28.41	mg/l
7.	Total Dissolved Solids	IS 3025 (P-16): 2023	360	290	320	mg/l
8.	Sulphate as \$04	IS: 3025 (P-24): Sec.1 : 2021	15.12	19.67	17.38	-
9.	Fluoride as F	APHA (23rd Edition). 4500FD:2017	0.23	0.18	0.25	mg/l
10:	Nitrate as NO ₃	15: 3025 (P-34); 1988.(Chromotropic Method) Sec. 4 RA: 2022	5.48	6.20	\$.32	mg/l
TE	Iron as Fe	APHA (23" Edition),31138: 2017	0.23	0.91	0.26	mg/l
12.	Chromium as Cr+6	APHA (23rd Edition),3500 CR-B	*BLQ(**LOQ-0.05)	*8LQ(**LOQ-0.05)	"BLQ[**L0Q-0.05]	mg/l
13.	Phenolic Compounds	APHA 23" Edition, 2017, 5530 C	*860(**600-0.001)	"BLQ(""LOQ-0.001)	*8LQ(**LOQ-0.001)	mg/l
14.	Zinc as Za	APHA (23 rd Edition),3111 B: 2017	0.35	0.20	0.32	mg/l
15.	Copper as Cu	APHA (23rd Edition),3111 8: 2017	*BLQ(**LOQ-0.02)	*8LQ(**LOQ-0.02)	*BLQ(**L0Q-0.02)	mg/l
6.	Cadmium as Cd	APHA (23* Edition),3111 B: 2017	*BLQ(**LOQ-0.002)	*BLQ(**LOQ-0.002)	"BLQ(""LOQ-0.002)	mg/l
17.	Lead as Pb	APHA (23™ Edition),3111 B; 2017	*BLQ(**LOQ-0.005)	*BLQ(**LOQ-0.005)	"BLQ(""LOQ-0.005)	mg/I
8.	Arsenic as As	APHA (23** Edition) 3114C 2017	*BLQ(**L0Q-0.005)	*8LQ(**LOQ-0.005)	"8LQ(""LOQ-0.005)	mg/l
0.	Mercury as Hg	APHA (23 5 Edition)3112 8,2017	.ard(rod-61001)	*BLQ(**LOQ-0.001)	"BLQ(""LOQ-0.001)	mg/l
0.	Oll & Gresse	IS:3025(P-39)	*BLQ(**L0Q-4.0)	*BLQ(**L0Q-4.0)	"8LQ(""LOQ-4.0)	mg/I
1	BOD (3days at 27°C)	IS:3025(P-44):1993, RA:2019	10.12	8.67	12.53	mg/l
2	сов	IS:3025(P-58):2006, RA:2017	40.0	35.0	48.0	mg/l
3,	DO	IS:3025(P-38):1989, RA:2019	6.1	5.9	5,4	mg/l
	TSS	IS:3025(P-17):2021	53	47	39	
licrob	lological Parameters				37	mg/l
	Total Celiform	IS 15185: 2016	Present	Present	Present	1 Out of the
6	Faecal Coliform	IS-15185: 2016 of Quantification, **LOQ- Limit of	Precent	Present	Present	Present/Abs of per 100 m

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RK Yadav Lab Incharge Authorized Signator

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 Rej. 302020

9929108691, 9810205356, 8005707098, 9549956601

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bd@vibranttechnolab.com





Sample Number:

Name & Address of the Party:

Sample Description:

Sample Collected by: Preservation Parameter Required: Sampling and Analysis Protocol: VTL/SW/04-06

M/s JK Cement Works, Panna

(A Vent Of JK Cement Lod.) Kalora- Panna Limestone Mines Village-Harduwaken Tehsil-Amangani PIN-489441 Dist-

Panna Surface Water

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

Report No.:

VTL/W/2411170033-35 7.8F-61

Format No.: Party Reference No.:

Report Date:

MIL 25/11/2024

Period of Analysis:

17 to 25/11/2024

Receipt Date:

17/11/2024

Sampling Dates Sampling Quantity:

16/11/2024 2.0Ltr.+ 250 ml

Sampling Type:

Grab

S. Ma.		Test Method	Mirhasan River Near Amangani	Ken River Near Singaura Village	Sonar River Near Village Santa	Unit
	ical Parameters	United the second second second	The state of the s	The state of the s	Senia	
1.	pH (at 25 °C)	IS 3025 (P-11): 2022	7.51	7.39	7.46	1 -
2	Colour	(\$ 3025(P-4): 2021	7	9	6	Hazen
3.	Turbidity	IS 3025 (P-10): 2023	13	7	10	NTU
	nical Parameters (mg/l)					1 210
4.	Total Hardness as CaCO ₃	IS: 3025 (P-21): 2009,RA: 2019	138.00	112.00	147.00	mg/l
5.	Alkalinity as C4CO2	IS: 3025 (P-23): 2023	\$6.00	43.50	60.53	mg/l
6	Chdoride as Cl	IS: 3025(Part 32):1998, RA:2019	41.24	37,92	39.68	mg/l
7	Total Dissolved Solids	IS 3025 (P-16): 2023	410	325	448	mg/t
8.	Sulphate as 50.	IS: 3025 (P-24): Sec.1: 2022	15.46	12.17	18.37	100
9.	Fluoride as F	APHA (23rd Edition), 4500FD:2017	0.16	0.13	0.15	mg/l
10.	Nitrate as NO ₃	IS: 3025 (P-34): 1988,(Chromotropic Method) Sec. 4 RA: 2022	7.54	6.28	8.67	mg/l
n.	Iron as Fe	APHA (23 rd Edition),3113B: 2017	0.21	0.17	0.25	mg/1
12.	Chromium as Cr+6	APHA (23™ Edition)_3500 CR-B	*BrO(rod-0.02)	.Bró(.,rod-a'az)	"8LQ(""L0Q-0.05)	Ng/I
13.	Phenolic Compounds	APHA 23= Edition,2017, 5530 C	"81.0(""1.00-0.001)	"8LQ(""L0Q-0.001)	"BLQ(""LOQ-0.001)	mg/I
14.	Zinc as Zn	APHA (23≈ Edition).3111 B: 2017	0.29	0.33	0.30	mg/l
15.	Copper as Cu	APHA (23 rd Edition),3111 B: 2017	*BLQ(**LOQ-0.02)	*BLQ(**LOQ-0.02)	*Brd(**rod-0.05)	mg/l
16.	Cadmium as Cd	APHA (23 rd Edition),3111 B: 2017	*BLQ(**LOQ-0.002)	*BLQ(**LOQ-0.002)	*Brd(**rod-erees)	mg/l
17.	Lead as Pb	APHA (23rd Edition),3111 B: 2017	*BLQ(**LOQ-0.005)	"RLQ(""LOQ-0.005)	*8LQ(**LoQ-0.005)	mg/l
18.	Arsenic as As	APRA (23" Edition) 3114C 2017	*8LQ(**LOQ-0.005)	*8LQ(**LOQ-0.005)	*BLQ(**L0Q-0.005)	ng/l
9.	Mercury as Hg	APHA (23 rd Edition)3112 B.2017	"8LQ(""LOQ-0.001)	.Brd(.,rod-0:001)	*8LQ(**LOQ-0.001)	mg/l
0.	Oll & Grease	IS:3025(P-39)	*8LQ[**L0Q-4.6)	*BLQ(**L00-4.0)	"BLQ(""LOQ-4.0)	
1	BOD (3days at 27°C)	IS:3025(P-44):1993, RA:2019	12.0	9.0	14.0	mg/l mg/l
2.	COD	IS:3025(P-58):2006. RA:2017	50.0	37.0	56.0	mg/l
3.	.DO	IS:3025(P-38):1989, 8A:2019	5.7	6.4	5.3	mg/l
4.	TSS	IS:3025(P-17):2021	53	49	60	
	biological Parameters				Ur	mg/l
_	Total Coliform	IS:15185: 2016	Present	Present	Present	Present/Abs
5.	Fecal Coliform Note: - "BLQ-Below I	15:15:185: 2016	Present	Present	Present	nt per 100 m

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RK Yaday 5 Lab Incharge **Authorized Signato**

(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

3 0141-2954638

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Sample Number:

Name & Address of the Party:

Sample Description:

Sample Collected by: Preservations

Parameter Required: Sampling and Analysis Protocol: VTL/SW/07-08

M/s JK Cement Works, Panna

(A Unit Of JK Coment Ltd.) Kakra- Panna Limestone Mines Village-Harduwaken Tehsil-Amangani PIN-488441 Dist

Surface Water

Vibrant Techno Lab Team

Suitable Preservation

As Per Work Order APHA 24º Edition 2023 Report No.:

VTL/W/2411170936-38 7.8 F-01

Format No.:

Party Reference No.:

MIL

Report Date:

25/11/2024

Period of Analysis:

17 to 25/11/2024

Receipt Date:

17/11/2024

Sampling Date: Sampling Quantity:

16/11/2024 2.0Ltr.+ 250 ml

Sampling Type:

Grab

S. No.	Parameter	Test Method	Pond Near Chilchia Village	Pond Near Umri Village	Nala Neur Deora Village	Unit
Physic	cal Parameters			Time Be		The second of the
1	pB (at 25 °C)	IS 3025 (P-11): 2022	7.42	7.15	7.28	1
2	Colour	IS 3025(P-4): 2021	6	9	7	Hazen
3.	Turbidity	IS 3025 (P-10): 2023	15	19	10	NTU
	ical Parameters (mg/l)					1 110
4.	Total Hardness as CaCO ₂	IS: 3025 (P-21): 2009,RA: 2019	195.00	208.00	121.00	mg/t
5.	Alkalinity as CaCO ₁	IS: 3025 (P-23): 2023	66.34	55,20	40.74	mg/l
6.	Chloride as Cl	IS: 3025(Part 32):1988, RA:2019	53.17	38.37	46.10	mg/l
7.	Total Dissolved Solids	IS 3025 (P-16): 2023	375	326	286	/Ngm
8.	Sulphate as SO.	IS: 3025 (P-24): Sec.1 : 2022	16.41	13.18	18.67	
9	Fluoride as F	APHA (23rd Edition). 4500FD:2017	0.21	0.17	0.24	mg/l mg/l
10.	Nitrate as NO ₂	IS: 3025 (P-34): 1998.(Chromotropic Method) Sec. 4 8A: 2022	7,89	8.16	10.14	mg/l
11.	iron as Fe	APHA (23rd Edition),3113B; 2017	- 0.29	0.16	0.31	ng/l
12.	Chromium as Cr+6	APHA (23" Edition),3500 CR-8	*8rd(**rod-aus)	*Brd(**rod-0.05)	*BLQ(**LOQ-0.05)	mg/l
13.	Phenolic Compounds	APMA 23* Edition.2017, 5530 C	"8LO(""LOG-0.001)	"BLQ(""LOQ-0.001)	"BLQ(""L0Q-0.001)	mg/l
14.	Zinc as Zo	APHA (23 rd Edition),3111 B: 2017	0.34	0.20	0.28	mg/l
15.	Copper as Cu	APHA (23 rd Edition),3111 B: 2017	"BLQ(""LOQ-0.02)	*BLQ(**LOQ-0.02)	*BrO(rod-0.05)	mg/l
16.	Cadmium as Cd	APHA (23" Edition),3111 B: 2017	*BLQ(**LOQ-0.002)	*8LQ(**L0Q-0.002)	"BLQ(""LOQ-0.002)	mg/l
17.	Lead as Pb	APHA (23" Edition) 3111 B: 2017	.ard(rod-0.002)	"BLQ(""L0Q-0.005)	*8LQ(**LOQ-0.005)	mg/l
18.	Arsenic as As	APHA (23 rd Edition13114C2017	*BLQ(**LOQ-0.005)	*Brd(**rod-0.005)	*8EQ(**LOQ-0.005)	mg/l
19.	Mercury as Hg	APHA (23 Edition)3112 B.2017	*8rd(**rod-0.001)	*BLQ(**LOQ-0.001)	*8LQ(**LOQ-0.001)	mg/l
00.	Oll & Grease	IS(3025(P-39)	*8LQ(**L0Q-4.0)	*BLQ(**L0Q-4.0)	*BL0(**L00-4.0)	mg/l
i.	BOD (3days at 27°C)	IS:3025(P-44):1993, RA:2019	14.72	11.81	9.64	mg/l
12.	COD	IS:3025(P-58):2006. RA:2017	\$5.0	46.0	38.0	mg/l
3.	DO	IS:3025(P-38):1989, RA:2019	6.7	7.1	6.5	mg/l
4.	TSS	IS:3025(P-17):2021	70	62	53	2000
dicrob	tological Parameters			Va.	.0.0	mg/l
5.	Total Coliform	18:15185: 2016	Present	Present	Present	Present/Alto
6	Faecal Collform	(\$:15185:2016	Present	Present	Present	nt per 100 m

LAB

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

RK Yadav Lab Incharge **Authorized Signato**

Vibrant Techno Lab Pvt. Ltd.

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

9929108691, 9810205356, 8005707098, 9549956601

2 0141-2954638

bd@vibranttechnolab.com



Sample Number:

Name & Address of the Party:

Sample Description:

Sample Collected by: Preservation: Parameter Required:

Sampling and Analysis Protocol:

VTL/SW/01-03

M/s JK Cement Works, Panna

(A Unit Of JK Cement Ltd.) Kakra-Panna Limestone Mines Village-Barduwaken Tehsil-Amangani PIN-488441 Dist-

Panna Surface Water

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

Report No.:

Format No.:

Party Reference No.: Report Date:

Period of Analysis:

Receipt Date: Sampling Date:

Sampling Quantity: Sampling Type:

VTL/W/2411170039-61

7.8 F-01

MIL

25/11/2024 17 to 25/11/2024

17/11/2024

16/11/2024

2.0Ltr.+ 250 ml

Grab

S. No.	Parameter	Test Method	Pond Near Amangani	Berma River Near Gaisabad Village	Pond Puraina Village	Unit
_	ical Parameters	The control of the second				2000
L	pH (at 25 °C)	IS 3025 (P-11): 2022	7.39	7.25	7.61	1
7.	Colour	IS 3025(P-4): 2021	7	g	15	Hapen
3.	Turbidity	15 3025 (P-10): 2023	11	17	13	NTU
	rical Parameters (mg/l)			1	- 10	NIU.
4.	Total Hardness as CaCO ₃	IS: 3025 (P-21): 2009,RA: 2019	172.00	141.00	186.00	mg/l
5.	Alkalinity as CaCO ₂	85: 3025 (P-23): 2023	78.00	84.00	92.00	-
6	Chloride as Cl	IS: 3025(Part 32):1988, RA:2019	41.15	35.27	46.81	mg/l
7.	Total Dissolved Solids	IS 3025 (P-16): 2023	346	356	459	mg/l
8.	Sulphate as SO ₄	IS: 3025 (P-24): Sec.1 : 2022	18.04	10.94	22.67	100
9,	Fluoride as F	APHA (23rd Edition), 4500FD:2017	0.24	0.19	0.33	Ngm Ngm
10.	Nitrate as NO ₂	IS: 3025 (P-34): 1988 (Chromotropic Method) Sec. 4 RA: 2022	917	11.36	14.97	ing/l
11.	Iron as Fe	APHA (21rd Edition),3113B; 2017	0.26	0.17	0.23	mg/l
12	Chromium as Cr+6	APHA (23™ Edition),3500 CR-8	*Brd(**rod-0.05)	.8rd(rod-a'o2)	*BLQ(**LOQ-0.05)	mg/l
13.	Phenolic Compounds	APHA 23" Edition,2017, 5530 C	"BLQ(""LOQ-0.001)	"8LQ(""L00-0.001)	"BL0(""L00-0.001)	
4.	Zinc as Zn	APHA (23 rd Edition),3111 B: 2017	0.33	0.25	0.41	mg/l
15,	Copper as Cu	APHA (23 rd Edition),3111 B: 2017	*BLQ(**LOQ-0.02)	*Brd(**rod-e.es)	*BLQ(**LOQ-0.02)	mg/l
16.	Cadmium as Cd	APHA (23 rd Edition),3211 B: 2017	*BLQ(**LOQ-6.002)	.8rd(rod-q:qq5)	*BLQ(**LOQ-0.002)	mg/l
17.	Lead as Pb	APHA (23" Edition) 3111 B: 2017	*8r6(**rod-0.005)	*BLQ(**LOQ-0.005)	*8LQ(**LOQ-0.005)	mg/l
8.	Arsenic as As	APHA (23~ Edition).3114C.2017	"BLQ(""LOQ-0.005)	*BLQ(**LOQ-0.005)	*BLQ(**LOQ-0.005)	mg/l
9.	Mercury as Hg	APHA (23 rd Edition)3112 8.2017	.ard(rod-tres1)	*BrQ(**roq-0.001)	"BLQ(""LOQ-0.001)	mg/l
0.	Off & Grease	IS:3025(P-39)	"BLQ(""L0Q-4.0)	"BLQ(""LOQ-4.0)	*8LQ(**L0Q-4.0)	-
1	BOD (3days at 27°C)	IS:3025(P-44):1993, RA:2019	6.2	5.1	6.9	mg/l
2,	сов	IS:3025(P-58):2006, RA:2017	25.0	20.0	39.0	mg/l
3,	00	IS:3025(P-38):1989, RA:2019	7.5	6.8	7.6	mg/l
4.	TSS	IS:3025(P-17)-2021	40	57	42	-
	dological Parameters				92	mg/l
5.	Total Colliform	15:15185: 2016	Present	Present		T Samuel Control
6.	Faecal Coliform ote: - "BLQ-Below Limit o	(5:15185: 2016	Present	Present	Present Present	Present/Abs nt per 100 m

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

RK Vadav Lab Incharge Authorized Signat

bd@vibranttechnolab.com



Sample Number:

Sample Description:

Sample Collected by:

Parameter Required:

Sampling and Analysis Protocol:

Preservation:

Name & Address of the Party:

M/s JK Cement Works, Panna

(A Unit Of JK Cement Ltd.) Kakra- Panna Limestone

Mines Village-Harduwaken Tebsil-Amanganj PIN-

488441 Dist-Panna

Surface Water

VTL/SW/01

Vibrant Techno Lab Team

Suitable Preservation

As Per Work Order

APHA 24th Edition 2023

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: Sampling Quantity: 16/11/2024

2.0Ltr.+ 250 ml

ailams	e Typ	ent .

Grab

S. No.	Parameter	Test Method	Run Off Water Kakra Mine	Unit
Physica	l 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
Chemic	al Parameters (mg/l)	Altr		10.10
4.	Total Hardness as CaCO ₃	IS: 3025 (P-21): 2009,RA: 2019	158.00	1 500
5.	Alkalinity as CaCO ₃	IS: 3025 (P-23): 2023	61.00	mg/l
6.	Chloride as Cl	I5: 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.	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 ₂	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™ Edition),3500 CR-B	*8LQ(**LOQ-0.05)	100000000000000000000000000000000000000
13.	Phenolic Compounds	APHA 23rd Edition, 2017, 5530 C	*BLQ(**L0Q-0.001)	mg/l
14.	Zinc as Zn	APHA (23 rd Edition),3111 B: 2017	0.41	mg/l
15.	Copper as Cu	APHA (23rd Edition),3111 B: 2017	*BLQ(**L0Q-0.02)	mg/l
6.	Cadmium as Cd	APHA (23 rd Edition),3111 B: 2017	*BLQ(**LOQ-0.002)	mg/l
7.	Lead as Pb	APHA (23rd Edition), 3111 B: 2017		mg/l
8.	Arsenic as As	APHA (23rd Edition),3114C,2017	*BLQ(**LOQ-0.005)	mg/l
9.	Mercury as Hg	APHA (23 rd Edition)3112 B,2017	*BLQ(**LOQ-0.00S)	mg/l
0.	Oil & Grease	IS:3025(P-39)	*BLQ(**LOQ-0.001)	mg/l
1.	BOD (3days at 27°C)	IS:3025(P-44):1993, RA:2019	*BLQ(**LOQ-4.0)	mg/l
2	COD	IS:3025[P-58]:2006, RA:2017	8.12	mg/l
3.	DO		50.0	mg/l
4.	TSS	IS:3025(P-38):1989, RA-2019	4.9	mg/i
THE RESIDENCE AND ADDRESS.	ological Parameters	IS:3025(P-17):2021	65.0	mg/l
5.	Total Coliform	To a series page	sacinanto"	
6.	Faecal Coliform	IS:15185: 2016	Present	Present/Absent per
	ets: - *PLO Poloss Limit of Occasi	IS:15185: 2016	Present	100 ml

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





RK Yaday Lab Incharge **Authorized Signa**

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

Vibrant Techno Lab Pvt. Ltd.

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9929108691, 9810205356, 8005707098, 9549956601

2 0141-2954638

B bd@vibranttechnolab.com



Sample Number:

Name & Address of the Party:

Sample Description:

Sample Collected by:

Preservation: Parameter Required:

Sampling and Analysis Protocol:

VTL/W/01

M/s JK Cement Works, Panna

(A Unit Of JK Cement Ltd.) Kakra- Panna Limestone

Mines Village-Harduwaken Tehsil-Amangani PIN-

408441 Dist-Panna

Ground Water

Vibrant Techno Lab Representative

Suitable Preservation As Per Work Order

APHA 24" Edition 2023

Report No.:

VTL/W/2411170014

Format No.: 7.8 F-01

Party Reference No.: Report Date:

NIL

25/11/2024

Period of Analysis: Receipt Date:

17 to 25/11/2024 17/11/2024

Sampling Date:

Sampling Quantity:

15/11/2024 2.01.tr.+ 250 ml

Samp

pling Type:	Grad

	tel officer tradeland	THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.			Limits of E	\$10500-2012
S.No.	Parameters	Test-Method	Kakra Mine Borewell	Unit	Requirement (Acceptable Limits)	Permissible Limit in the Absence of Alternate Source
1	pH (at 25°C)	IS 3025 (Part 11): 2022	7.18	144	6.5 to 8.5	No Relaxation
2.	Colour	15 3025 (Part 4): 2021	"BLQ(""LOQ 1.0)	Hazen	5	15
3.	Turbidity	IS 3025 (Part 10) : 2023	*BLQ(**LOQ 1.0)	NTU	1000	5
4,	Odeur	IS 3025 (Part 5): 2018	Agreeable		Agreeable	Agreeable
5.	Taste	IS 3025 (Part 8) : 2023	Agreeable	- 14	Agreeable	Agreeable
6.	Total Hurdness as CaCO ₂	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	Same of the same
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, 24th 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° 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/i	45	No Relaxation
17.0	Iron as Fe	APHA 24° 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* Edition, 3111 B: 2023	*BLQ(**LOQ 0.02)	mg/l	0.05	No Relaxation
21	Phenolic compound as C ₆ H ₃ OH	APHA, 24° 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 Zo	APHA, 24th Edition, 3111 B : 2023	*BLQ(**LOQ 0.2)	mg/l	5	15
24.	Copper as Cu	APHA, 24th Edition, 3111 B : 2023	*BLQ(**L0Q 0.02)	mg/l	0.05	1.5
25	Manganese as Mn	APHA, 24* Edition, 3111 B : 2023	*BLQ(**LOQ 0.05)	mg/l	0.1	0.3
26	Cadmium as Cd	APHA, 24th Edition, 3111 B : 2023	*BLQ(**LOQ 0.002)	mg/l	0.003	No Relaxation
27.	Lead as Po	APHA, 24° Edition, 3111 B : 2023	*BLQ(**LOQ 0.005)	mg/l	0.01	No Relaxation
28.	Selenium as Se	APHA, 24th Edition, 3114 C : 2023	*BLQ(**LOQ 0.005)	mg/l	0.01	No Relaxation
29.	Arsenic as As	APHA, 24th Edition, 3114 C : 2023	"BLQ(""LOQ 0.005)	mg/l	0.01	No Relaxation
30.	Mercury as Hg	APHA, 24* 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		Detectable in
32	E. Coli elow Limit of Quantification, **L4	IS 15185 : 2016, RA 2021	Absent	ml	Any 100	ml sample

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

1986 Recognised, ISO:900 North OHSAS:45001 Certified

RK Yadav Lab incharge **Authorized Signator**

Vibrant Techno Lab Pvt. Ltd.

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9929108691, 9810205356, 8005707098, 9549956601

2 0141-2954638

bd@vibranttechnolab.com



Sample Number:

Name & Address of the Party:

Sample Description:

Sample Collected by: Preservation:

Parameter Required: Sampling and Analysis Protocol: VTL/W/02

M/s JK Cement Works, Panna

(A Unit Of JK Cement Ltd.) Kakra-Panna Limestone

Mines Village-Harduwaken Tehsil-Amangani PIN-

488441 Dist-Panna **Ground Water**

Vibrant Techno Lab Representative

Suitable Preservation As Per Work Order APHA 24th Edition 2023

Report No.: Format No.: VTL/W/2+11170015

7.8 F-01

Party Reference No.: NIL Report Date: 25/11/2024

Period of Analysis:

Receipt Date: Sampling Date: 15/11/2024 2.0Ltr.+ 250 ml

Sampling Quantity: Sampling Type:

17 to 25/11/2024 17/11/2024

Grab

					Limits of	15:10500-2012
S.No.	Parameters	Test-Method	Kakra Village (Hand Pump-01)	Unat	Require ment (Accepta ble Limits)	Permissible Limit in the Absence of Alternate Source
L	pH (at 25°C)	IS 3025 (Part 11): 2022	7.21		6.5 to 8.5	No Relaxation
2.	Colour	IS 3025 (Part 4) : 2021	*Brd(**rod rø)	Haze	5	15
3	Turbidity	IS 3025 (Part 10): 2023	*BLQ(**LOQ 1.0)	NTU.	1	5
4,	Odour	IS 3025 (Part 5) : 2018	Agreeable	12	Agreeabl e	Agreeable
5.	Taste	IS 3025 (Part 8) : 2023	Agreeable	777	Agreeabl e	Agreeable
6.	Total Hurdness as CaCO ₃	IS 3025 (Part 21) : 2009, RA : 2019	225.0	mg/l	200	600
7.	Calcium as Ca	IS 3025 (Part 40): 1991, RA: 2019	62.0	mg/l	75	200
8.	Alkalinity as CaCO ₃	IS 3025 (Part 23) : 2023	85.0	mg/l	200	600
9.	Chloride as Cl	IS 3025 (Part 32): 1988, RA: 2019	120.0	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	*8LQ(**LOQ 0.02)	mg/l	0.05	No Relaxation
12.	Magnesium as Mg	APHA, 24th Edition, 3500 Mg B, Calculation Method	17.09	mg/I	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	72.14	mg/l	200	400
15.	Fluoride as F	APHA, 24* Edition, 4500F-D: 2023	0.58	mg/l	1.0	1.5
16.	Nitrate as NO ₂	IS 3025 (Part 34/Sec 1): 2023 Clause 6.4	22.53	mg/l	45	No Relaxation
17.	Iron as Fe	APHA 24th Edition, 3111 B, 2023	0.25	mg/l	1.0	No Relaxation
18.	Aluminium as Al	IS 3025 (Part 55) : 2003, RA : 2019	*Brd(rod 0.03)	mg/l	0.03	0.2
19.	Boron	APHA, 24* Edition, 4500 B-C: 2023	*BLQ(**LOQ 0.2)	mg/l	0.5	2.4
20.	Total Chromium as Cr	APHA, 24th Edition, 3111 B : 2023	.Brd(rod 0.03)	mg/l	0.05	No Relaxatio
21.	Phenolic compound as CaHyOH	APHA, 24 th Edition, 5530 C : 2023	*BLQ(**L0Q 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	APRA, 24th Edition, 3111 B : 2023	*BLQ(**LOQ 0.2)	mg/l	5	15
24.	Copper as Cu	APHA, 24th Edition, 3111 B : 2023	*8LQ(**LOQ 0.02)	mg/l	0.05	1.5
25.	Manganese as Mn	APHA, 24th Edition, 3111 B: 2023	*BLQ(**LOQ 0.05)	mg/l	0.1	0.3
26.	Cadmium as Cd	APHA, 24th Edition, 3111 B : 2023.	*BLQ(**L0Q 0.002)	mg/l	0.003	No Relaxatio
27.	Lead as Pb	APHA, 24th Edition, 3111 B: 2023	*BLQ(**L0Q 0.00S)	mg/l	0.01	No Relaxatio
28.	Selenium as Se	APHA, 24th Edition, 3114 C : 2023	*BLQ(**L0Q 0.005)	mg/l	0.01	No Relaxation
29.	Arsenic as As	APHA, 24th Edition, 3114 C : 2023	"BLQ("LOQ 0.005)	mg/l	0.01	No Relaxatio
30.	Mercury as Hg	APHA, 24th Edition, 3112 B : 2023	*BLQ(**LOQ 0.001)	mg/l	0.001	No Relaxation
31.	Total Coliform	IS 15185 : 2016, RA 2021	Absent	Per	econ a ser	Lu Partura IV
32	E. Coli	IS 15185 : 2016, RA 2021	Absent	100 ml		be Detectable in 00 ml sample

Certified EPA 1986 Recognised, ISO:900 and ObsaS:45001 Certified

JAIPUR

RK Yadav Lab Incharge Authorized Signator

Vibrant Techno Lab Pvt. Ltd.

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

9929108691, 9810205356, 8005707098, 9549956601

2 0141-2954638

Dd@vibranttechnolab.com



VTL/W/01-02

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**

Sample Description:

Sample Collected by: Preservation:

Parameter Required:

Sampling and Analysis Protocol:

Vibrant Techno Lab Representative **Suitable Preservation**

As Per Work Order APHA 24º Edition 2023 Report No.:

Format No.:

Party Reference No.: Report Date:

Period of Analysis: Receipt Date:

Sampling Date: Sampling Quantity:

Sampling Ty

VTL/W/2411170016-17

7.8 F-01

NIL

25/11/2024

17 to 25/11/2024 17/11/2024

15/11/2024

2.0Utr.+ 250 ml

	Carolin
ype:	Grab

S.No.	Parameters	Test-Method	Saptal Village	Day Wel Kamtana Village	Unit	Requir ement (Accep table Limits)	Permissible Limit in the Absence of Alternate Source
1	pH (at ZS°C)	IS 3025 (Part 11): 2022	7.29	7.18	40	6.5 to 8.5	No Relaxation
2	Colour	IS 3025 (Part 4) : 2021	.Bró(rod ro)	*BLQ(**LOQ 1.0)	Haze	5	15
3	Turbidity	IS 3025 (Part 10): 2023	"BLQ(""LOQ 1.0)	*HLQ(**LOQ 10)	NTU	1	5
4	Odour	IS 3025 (Part 5) : 2018	Agreeable	Agreeable		Agreea ble	Agreeable
5	Temperature	IS 3025 (Part 9) : 2023	24.5	24.6	++		
6	Total Hurdness as CaCO ₂	IS 3025 (Part 21) : 2009, RA : 2019	135.0	152.0	mg/I	200	600
7	Calcium as Ca	IS 3025 (Part 40) : 1991, RA: 2019	34.0	39.0	mg/l	75	200
8	Alkalinity as CaCO ₃	IS 3025 (Part 23) : 2023	78.10	68.34	mg/l	200	600
9	Chloride as Cl	IS 3025 (Part 32) : 1988, RA : 2019	62.87	55.28	mg/l	250	1000
10	Residual free Chlorine	15 3025 (Part 26) : 2021 Clause 7.0	*BLQ(**LOQ 0.2)	*8EQ(**LOQ 0.2)	mg/l	0.2	1
11	Phosphate	IS 3025 (Part 31)	*BLQ(**LOQ 0.02)	"BLQ(""LOQ 0.02)	mg/l	1945	4
12	Magnesium as Mg	APHA, 24th Edition, 3500 Mg B, Calculation Method	12.19	13.29	mg/l	30	100
13	Total Dissolved Solids	15 3025 (Part 16) ;2023	625.0	540.0	mg/l	500	2000
14	Sulphote as SO ₄	IS 3025 (Part 24/Sec 1): 2022 Clause 5.0	51.83	45.27	mg/l	200	400
15	Fluoride as F	APRA, 24* Edition, 4500F-D: 2023	0.40	0.35	mg/l	1.0	1.5
16	Nitrate as NO ₂	IS 3025 (Part 34/Sec 1): 2023 Clause 6.4	12.58	10.42	mg/l	45	No Relaxation
17	Iron as Fe	APHA 24th Edition, 3111 B, 2023	0.20	0.23	mg/L	1.0	No Relaxation
18	Potassium	APHA 24th Edition, 3500 K, A+B	15.34	12.39	mg/l	1+4.7	
19	Boron	APHA, 24* Edition, 4500 B-C : 2023	*BLQ(**LOQ 0.2)	*Brd(**rod 0.2)	mg/l	0.5	2.4
20	Hexavalent Chromium as Cr+6	APHA, 24th Edition, 3500 Cr- B	*BLQ(**LOQ 0.02)	*Brd(**rod 0:03)	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	8S 3025 (Part 14)	980	860	μs/c m	400000	Tel
23	Zinc as Zn	APRA, 24th Edition, 3111 B : 2023	*BLQ(**LOQ 0.2)	*BLQ(**LOQ 0.2)	mg/l	5	15
24	Copper as Cu	APHA, 24° Edition, 3111 B: 2023	*BLQ(**L0Q 0.02)	*BLQ(**LOQ 0.02)	mg/l	0.05	1.5
25	Cadmium as Cd	APHA, 24th Edition, 3111 B: 2023	*BLQ(**LOQ 0.002)	*BLQ(**LOQ 0.002)	mg/l	0.003	No Relaxation
26	Lead as Pb	APHA, 24th Edition, 3111 B : 2023	*BLQ(**LOQ 0.005)	*BLQ(**LOQ 0.005)	mg/l	0.01	No Relaxation
27 28	Total Coliform E. Coli	IS 15185 : 2016, RA 2021 IS 15185 : 2016, RA 2021 of Quantification, **LOQ-Limit of Quan	Absent Absent	Absent Absent	Per 100 ml		be Detectable is 00 ml sample



RK Yadav Lab Incharge **Authorized Signator**

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

JAIPUR

Vibrant Techno Lab Pvt. Ltd.

Approved & Certified

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

9929108691, 9810205356, 8005707098, 9549956601

2 0141-2954638

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Sample Description:

Sample Collected by: Preservation: Parameter Required: Sampling and Analysis Protocol: VTL/W/03-04

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**

Vibrant Techno Lab Representative

Suitable Preservation As Per Work Order APHA 24th Edition 2023 Report No.:

Format No.:

Party Reference No.:

Report Date: Period of Analysis:

Receipt Date: Sampling Date:

Sampling Quantity: Sampling Type:

VTL/W/2411170018-19

7.8 F-01 NIL

25/11/2024

17 to 25/11/2024

17/11/2024 15/11/2024

2.0Ltr.+ 250 ml

Grab

					100		10509-2012
S.No.	Parameters	Test-Method	Puralna Village	Pagra Village	Unit	Require ment (Accepta ble Limits)	Permissibs Limit in the Absence of Alternate Source
1	pH (at 2SEC)	IS 3025 (Part 11) : 2022	7.38	7.42	E 4 5	6.5 to 8.5	No Relaxation
2	Colour	IS 3025 (Part 4) : 2021	*BLQ(**LOQ 1.0)	*BLQ(**LOQ 1.0)	Haze n	5	15
3	Turbidity	IS 3025 (Part 10) : 2023	*Brd(**rod ro)	*BLQ(**LOQ 1.0)	NTU	1	5
4	Odour	IS 3025 (Part 5) : 2018	Agreeable	Agreeable	5. 4 6	Agreeabl e	Agreeable
5	Temperature	IS 3025 (Part 9) : 2023	24.3	24.6	337	9	
6	Total Hurdness as CaCO ₃	IS 3025 (Part 21) : 2009, RA : 2019	180.0	210.0	mg/l	200	600
7	Calcium as Ca	IS 3025 (Part 40) : 1991, RA : 2019	50.0	56.0	mg/l	75	200
8	Alkalinity as CaCOs	15 3025 (Part 23) : 2023	62.0	55.0	mg/l	200	600
9	Chloride as Cl	IS 3025 (Part 32): 1988, RA: 2019	79.0	83.0	mg/l	250	1000
10	Residual free Chlorine	hlorine		mg/l	0.2	1	
11	Phosphate	IS 3025 (Part 31)	*BFG(FOG 0'05)	*BLQ(**LOQ 0.02)	mig/l	((A)	36
12	Magnesium as Mg	APHA, 24° Edition, 3500 Mg B, Calculation Method	13.43	17.08	mg/l	30	100
13	Total Dissolved Solids	IS 3025 (Part 16) :2023	610.0	720.0	mg/l	500	2000
14	Sulphate as SO ₄	IS 3025 (Part 24/Sec 1) : 2022 Clause 5.0	65.24	72.04	mg/l	200	400
15	Fluoride as F	APHA, 24º Edition, 4500F-D : 2023	0.42	0.46	mg/l	1.0	1.5
16	Nitrate as NOs	IS 3025 (Part 34/Sec 1) : 2023 Clause 6.4	16.74	18.32	rong/1	45	No Relaxation
17	Iron as Fe	APHA 24th Edition, 3111 B, 2023	0.27	0.33	mg/l	1.0	No Relaxation
18	Potassium	APHA 24th Edition, 3500 K, A+B	15.3	19.4	rag/l	44	- 11
19	Boron	APHA, 24th 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* Edition, 3500 Cr- B	*BLQ(**LOQ 0.0Z)	*BLQ(**LOQ 0.02)	mg/l	0.05	No Relaxation
21	Nickel	APNA, 24* 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)	970	1150	μs/c m	150	
23	Zinc as Zn	APHA, 24th Edition, 3111 B: 2023	"BLQ(""LOQ 0.2)	"BLQ("LOQ 0.2)	mg/i	5	1.5
24	Copper as Cu	APHA, 24th Edition, 3111 B : 2023	*BLQ(**LOQ 0.02)	*BLQ(**LOQ 0.02)	mg/l	0.05	1.5
25	Cadmium as Cd	APHA, 24 th Edition, 3111 B : 2023	*BLQ(**LOQ 0.002)	*BLQ(**LOQ 0.002)	mg/l	0.003	No Relaxation
26	Lead as Pb	APHA, 24° Edition, 3111 B : 2023	*BLQ(**LOQ 0.005)	*BLQ(**LOQ 0.005)	mg/l	0.01	No Relaxation
27	Total Coliform	IS 15185 : 2016, RA 2021	Absent	Absent	Per	Shall not h	e Detectable
28	E. Coli	is 15185: 2016, RA 2021 of Quantification, **LOQ-Limit of Quanti	Absent	Absent	100 ml	in Any 10	0 ml sample



Approved & Certified EPA 1986 Recognised, ISO:900 End OPE &: 45001 Certified

RK Yadav Lab Incharge **Authorized Signator**

Vibrant Techno Lab Pvt. Ltd.

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

9929108691, 9810205356, 8005707098, 9549956601

2 0141-2954838

bd@vibranttechnolab.com



Name & Address of the Party:

Sample Description:

Sample Collected by: Preservation: Parameter Required: Sampling and Analysis Protocol: VTL/ W/05-06

M/s JK Cement Works, Panna

(A Unit Of JK Cement Ltd.) Kakra- Panna Limestone Mines Village-Harduwaken Tehsil-Amangani PIN-

488441 Dist-Panna **Ground Water**

Vibrant Techno Lab Representative

Suitable Preservation As Per Work Order APHA 24th Edition 2023 Report No.:

VTL/W/2411170020-21

Format No.: 7.8 F-01 Party Reference No.:

MIL

Report Date:

25/11/2024

Period of Analysis: Receipt Date:

17/11/2024

Sampling Date: Sampling Quantity:

15/11/2024 2.0Ltr.+ 250 ml

17 to 25/11/2024

Sampling Type:

Grab

		ALL DESCRIPTION OF THE PARTY OF	The state of the s		The same		IS 10500-2012
S.No.	Parameters	Test-Method	Udla Village	Sotipura Village	Valt	Require most (Accepta ble Limits)	Persolatible Limit in the Absence of Alternate Source
1	pH (at 25°C)	IS 3025 (Part 11): 2022	7.26	7.38	-	6.5 to 8.5	No Relaxation
2	Colour	IS 3025 (Part 4): 2021	*8rd(**rod 10)	*8LQ(**LOQ 1.0)	Haze	5	15
3	Turbidity	IS 3025 (Part 10): 2023	*BLQ(**LOQ L0)	*BLQ(**LOQ 1.0)	NTU	1	5
4	Odour	IS 3025 (Part 5) : 2018	Agreeable	Agreeable		Agreeabl e	Agreeable
5	Temperature	35 3025 (Part 9) : 2023	24.1	24.3	(1) PF(1)		
6	Total Hurdness as CaCO ₃	IS 3025 (Part 21) : 2009, RA : 2019	152.0	132.0	mg/l	200	600
7	Calcium as Ca	IS 3025 (Part 40) : 1991, RA : 2019	48.0	41.0	mg/l	75	200
8	Alkalinity as CaCO ₃	IS 3025 (Part 23) : 2023	52.8	49.2	mg/I	200	600
9	Chloride as Cl	IS 3025 (Part 32) : 1988, RA : 2019	62.1	57.3	mg/l	250	1000
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	- F. J.	4.
12	Magnesium as Mg	APHA, 24th Edition, 3500 Mg B, Calculation Method	7.83	7.22	mg/l	30	100
13	Total Dissolved Solids	IS 3025 (Part 16) :2023	511	578	mg/l	500	2000
14	Sulphate as SO ₄	IS 3025 (Part 24/Sec 1) : 2022 Gause S.0	39.71	48.55	mg/l	200	400
15	Fluoride as F	APHA, 24* Edition, 4500F-D : 2023	0.37	0.41	mg/l	1.0	1.5
16	Nitrate as NO ₃	IS 3025 (Part 34/Sec 1) : 2023 Clause 6.4	10.87	12.45	mg/l	45	No Relaxation
17	Iron as Fe	APHA 24th Edition, 3111 B, 2023	0.18	0.25	mg/l	1.0	No Relaxation
18	Potassium	APHA 24° Edition, 3500 K, A+B	9.67	13.27	mg/l	- 4	
19	Boron	APHA, 24th Edition, 4500 B-C: 2023	*BLQ(**LOQ 0.2)	*BLQ(**LOQ 0.2)	mg/l	0.5	2.4
20	Hoxavalent Chromium as Cr+6	APHA, 24* Edition, 3500 Cr- 8	.Brd(rod 0.05)	*BLQ(**LOQ 0.02)	mg/l	0.05	No Relaxation
21	Nickel	APHA, 24th Edition, 31118: 2023	*BLQ(**LOQ 0.01)	*BLQ(**LOQ 0.01)	mg/l	0.02	No Relaxation
22	Electrical Conductivity	IS 3025 (Part 14)	790	895	ps/c	***	
23	Zinc as Zn	APHA, 24th Edition, 3111 B : 2023	*BLQ(**LOQ 0.2)	*BLQ(**LOQ 0.2)	mg/l	5	15
24	Copper as Cu	APHA, 24" Edition, 3111 B: 2023	*BLQ(**L0Q 0.02)	*BLQ(**LOQ 0.02)	mg/l	0.05	1.5
25	Cadmium as Cd	APHA, 24° Edition, 3111 B: 2023	"BLQ(""LOQ 0.002)	*BLQ(**LOQ 0.002)	mg/l	0.003	No Relaxation
26	Lead as Pb	APHA, 24 th Edition, 3111 B: 2023	*BLQ(**LOQ 0.005)	*BLQ(**LOQ 0.005)	mg/l	0.01	No Relaxation
27 28	Total Coliform E. Coli	IS 15185 : 2016, RA 2021 IS 15185 : 2016, RA 2021	Absent LAB	Absent Absent	Per 100	Shall not be Detectable Any 100 ml sample	

checked by

JAIPUR

RK Yadav (Lab Incharge **Authorized Signator**

Approved & Certified EPA 1986 Recognised, ISO-908 and OBSAS:45001 Certified



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Sample Number:

Sample Description:

Sample Collected by:

Preservation:

22

23

24

25

26

28

Electrical

Zinc as Zn

Conductivity

Copper as Cu

Cadmium as Cd

Name & Address of the Party:

VTL/W/07-08

M/s JK Cement Works, Panna

Vibrant Techno Lab Representative

(A Unit Of JK Cement Ltd.) Kakra-Panna Limestone Mines Village-Harduwaken Tehsil-Amanganj PIN-

488441 Dist-Panna

Ground Water

Report No.: Format No.: VTL/W/2411170022-23

Permissible Limit is the

Absence of Source

No Relaxation

15

5

Agreeable

600

200

600

1000

1

15

1.5

No Relaxation

No Relaxation

Shall not be Detectable in

Any 100 ml sample

7.8 F-01

Party Reference No.: Report Date:

NIL

Period of Analysis:

25/11/2024

17 to 25/11/2024

Receipt Date: Sampling Date: 17/11/2024

15/11/2024

Sampling Quantity:

2.0Ltr.+ 250 ml

Parameter Regulred: Sampling and Analysis Protocol: Suitable Preservation As Per Work Order APHA 24th Edition 2023

Sampling Type:

Limits of \$5:10500-2012 Requirement (Acceptable Limits) S.No. **Parameters** Test-Method Hinauta Village Purwa Village Buir 1 pH (at 25°C) IS 3025 (Part 11): 2022 7.37 7.28 6.5 to 8.5 Colour IS 3025 (Part 4): 2021 2 *BLQ(**LOQ 1.0) *BLQ(**LOQ 1.0) Hazen 3 Turbidity IS 3025 (Part 10): 2023 *BLQ(**LOQ 1.0) *BLQ(**LOQ 1.0) NTU 4 Odour IS 3025 (Part 5): 2018 Agreeable Agreeable Agreeable Temperature IS 3025 (Part 9): 2023 24.3 24.6 Total Hurdness as IS 3025 (Part 21): 2009, RA: 2019 6 173.0 166.0 mg/i 200 CaCO₂ Calcium as Ca IS 3025 (Part 40): 1991, RA: 2019 48.0 43.0 75 mg/l 8 Alkalinity as CaCO₁ IS 3025 (Part 23): 2023 62.0 54.0 mg/l 200 9 IS 3025 (Part 32): 1988, RA: 2019 Chloride as Cl 81.24 76.42 250 mg/l 10 Residual free IS 3025 (Part 26): 2021 Clause 7.0 *BLQ(**LOQ 0.2) *BLQ(**LOQ 0.2) mg/l 0.2 Chlorine 11 Phosphate IS 3025 (Part 31) *BLQ{**LOQ *BLQ(**LOQ mg/l

0.02)0.02)12 Magnesium as Mg APHA, 24th Edition, 3500 Mg B. 12.94 14.27 30 mg/l100 Calculation Method 13 Total Dissolved IS 3025 (Part 16):2023 596.0 6290 mg/l 500 2000 Solids 14 Sulphate as \$04 IS 3025 (Part 24/Sec 1): 2022 56.0 48.9 200 400 mg/l Clause 5.0 15 Fluoride as F APHA, 24th Edition, 4500F-D: 2023 0.40 0.39 mg/l 1.0 1.5 IS 3025 (Part 34/Sec 1): 2023 Nitrate as NO₃ 16 15.78 12.20 mg/l 45 No Relaxation Clause 6.4 17 Iron as Fe APHA 24th Edition, 3111 B, 2023 0.19 0.17 mg/11.0 No Relaxation 18 Potassium APHA 24th Edition, 3500 K, A+B 16.7 13.4 mg/l 19 Boron APHA, 24th Edition, 4500 B-C: 2023 *BLQ(**LOQ 0.2) *BLQ(**LOQ 0.2) 0.5 2.4 mg/l Hexavalent 20 APHA, 24th Edition, 3500 Cr- B *BLQ(**LOQ *8LQ(**LOQ 0.05 No Relaxation mg/l Chromium as Cr+6 0.023 0.02)Nickel APHA, 24" Edition, 3111 B: 2023 BLQ["LOQ *BLQ(**LOQ No Relaxation 21

0.01)

940

*BLQ(**LOQ 0.2)

*BLQ(**LOQ

BLQ("LOQ

0.002)

Absent

Lead as Pb APHA, 24th Edition, 3111 B: 2023 BLQ("LOQ 0.005) Total Coliform IS 15185: 2016, RA 2021 Absent

IS 302S (Part 14)

APHA, 24th Edition, 3111 B: 2023

APHA, 24th Edition, 3111 B: 2023

APHA, 24th Edition, 3111 B: 2023

E. Coli IS 15185: 2016, RA 2021 oll
*BLQ-Below Limit of Quantification, **LOQ-Limit of Quantification

JAIPUR

RK Yadav Lab Incharge **Authorized Signatory**



CHSAS:45001 Certified Approved & Certified EPA 1986 Recognised, ISO:9007

Vibrant Techno Lab Pvt. Ltd.

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9929108691, 9810205356, 8005707098, 9549956601

C 0141-2954638

0.02

0.05

0.003

0.01

mg/l

µs/cm

mg/1

mg/l

mg/l

mg/l

Per.

100 ml

0.01)

1010

*BLQ(**LOQ 0.2)

*BLQ(**LOQ

0.02)

0.002)

BLQ(**LOQ

0.005)

Absent

Absent

BLQ("LOQ

bd@vibranttechnolab.com



Sample Number:

Name & Address of the Party:

VTL/W/09-10

M/s JK Cement Works, Panna

(A Unit Of JK Cement Ltd.) Kakra-Panna Limestone

Mines Village-Harduwaken Tehsil-Amangani PIN-

488441 Dist-Panna

Ground Water

Report No.: Format No.: VTL/W/2411170024-25

Party Reference No.:

7.8 F-01 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 Collected by:

Sample Description:

Preservation:

Parameter Required:

Sampling and Analysis Protocol:

Vibrant Techno Lab Representative

Suitable Preservation As Per Work Order

APHA 24th Edition 2023

		N. C.			40	Limits of 15-10500-2012		
S.No.	Parameters	Test-Method	Amanganj	Bhupatpura Village	Unit	Requirement (Acceptable Umits)	Permissible Limit in the Absence of Alternate Source	
1	pH (at 25°C)	IS 3025 (Part 11) : 2022	7.41	7.48		6.5 to 8.5	No Relaxation	
2	Colour	15 3025 (Part 4): 2021	*BLQ(**LOQ 1.0)	"BLQ(""LOQ 1.0)	Hagen	5	15	
3	Turbidity	IS 3025 (Part 10) : 2023	"BLQ(""LOQ 1.0)	*BLQ(**LOQ LO)	NTU	1	5	
4	Odour	IS 3025 (Part 5): 2018	Agreeable	Agreeable	40	Agreeable	Agreeable	
5	Temperature	IS 3025 (Part 9) : 2023	24.5	24.3				
6	Total Hurdness as CaCO ₂	IS 3025 (Part 21) : 2009, RA : 2019	210.0	245.0	mg/l	200	600	
7	Calcium as Ca	IS 3025 (Part 40): 1991, RA: 2019	54.0	62.0	mg/I	25	200	
8	Alkadinity as CaCO ₃	IS 3025 (Part 23) : 2023	85.79	92.37	mg/l	200	600	
9	Chloride as Cl	IS 3025 (Part 32): 1988, RA: 2019	125.10	145.38	mg/i	250	1000	
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)	mu/l		-	
12	Magnesium as Mg	APHA, 24th Edition, 3500 Mg B, Calculation Method	1829	21.95	mg/l	30	100	
13	Total Dissolved Solids	IS 3025 (Part 16) :2023	670.0	710.0	mg/l	500	2000	
14	Sulphate as SO ₄	IS 3025 (Part 24/Sec 1) : 2022 Clause 5.0	58.34	71.58	mg/l	200	400	
15	Fluoride as F	APHA, 24th Edition, 4500F-D: 2023	0.43	0.51	mg/l	1.0	1.5	
16	Nitrate as NO ₁	IS 3025 (Part 34/Sec 1): 2023 Clause 6.4	18.56	20.18	mg/l	45	No Relaxation	
17	Iron as Fe	APHA 24* Edition, 3111 B, 2023	0,23	0.27	mg/l	1.0	No Relaxation	
18	Potassium	APRA 24° Edition, 3500 K, A+B	15.42	19.64	mg/L		Action	
19	Boron	APHA, 24* 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° Edition, 3500 Cr- B	*BLQ(**LOQ 0.021	*BLQ(**L0Q 0.02)	mg/l	0.05	No Relaxation	
21	Nickel	APHA, 24 th Edition, 3111 B : 2023	*8LQ(**LOQ	*BLQ(**LOQ	mg/l	0.02	No Relaxation	
22	Electrical Conductivity	IS 3025 (Part 14)	1070	1130	gs/cm	96	neukauon **	
23	Zincas Zn	APHA, 24th Edition, 3111 B : 2023	"BLQ(""LOQ 0.2)	*BLQ(**LOQ 0.2)	mg/l	8	15	
24	Copper as Cu	APHA, 24th Edition, 31118: 2023	*BLQ(**LOQ 0.02)	*BLQ(**LOQ 0.02)	mg/1	0.05	15	
25	Codmium as Cd	APHA, 24° Edition, 3111 B : 2023	*BLQ(**LOQ 0.002)	*BLQ(**LOQ 0.002)	mg/l	0.003	No . Relaxation	
26	Lead as Pb	APHA, 24 th Edition, 3111 B: 2023	*BLQ(**LOQ 0.005)	*BLQ(**LOQ 0.005)	mg/l	0.01	No Relaxation	
27	Total Coliform	IS 15185 - 2016 PA 2021	Abrest	About		40.00		

LAMBA IS 15185 : 2016, RA 2021 *BLQ-Below Limit of Quantification, **LOQ-Limit of Quantification,

IS 15185: 2016, RA 2021

JAIPUR

RK Yaday Lab Incharge Authorized Signatory

100 ml

Absent

Absent

Total Coliform

Approved a Certified EPA 1986 Recognised, ISO:9001 and DEPAS:45001 Certified

Vibrant Techno Lab Pvt. Ltd.

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9929108691, 9810205356, 8005707098, 9549956601

2 0141-2954638

bd@vibranttechnolab.com

Shall not be Detectable in

Any 100 ml sample



Sample Description:

Sample Collected by:

Parameter Required:

Sampling and Analysis Protocol:

Preservation:

Name & Address of the Party:

VTL/W/11-12

M/s JK Cement Works, Panna

(A Unit Of JK Cement Ltd.) Kakra- Panna Limestone Mines Village-Harduwaken Tehsii-Amanganj PIN-

488441 Dist-Panna

Ground Water

Vibrant Techno Lab Representative

Suitable Preservation As Per Work Order APHA 24" Edition 2023 Report No.: Format No.:

Report Date:

VTL/W/2411170026-27

7.8 F-01

MIL

25/11/2024

Period of Analysis:

Party Reference No.:

17 to 25/11/2024 17/11/2024

Receipt Date: Sampling Date:

15/11/2024 2.0Ltr.+ 250 ml

Sampling Type:

Grab.

Sampling Quantity:

	WHITE COURTS	Control of the Contro		The state of the s	1000	Limits of IS	10500-2012
S.No.	Parameters	Test-Method	Mahodkh VIII.age	Umri Village	Unit	Requirement (Acceptable Ulmits)	Permissib Limit in th Absence o Alternate Source
1	pH (at 25°C)	IS 3025 (Part 11): 2022	7.31	7.38	66.5	6.5 to 8.5	No Relaxatio
2	Colour	IS 3025 (Part 4): 2021	*BLQ(**LOQ LO)	"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	(100)	Agreeable	Agreeabl
5	Temperature	IS 3025 (Part 9): 2023	24.4	24.5	5040	80	
6	Total Hurdness as CaCOs	IS 3025 (Part 21): 2009, RA: 2019	141.0	163.0	mg/l	200	600
7	Calcium as Ca	IS 3025 (Part 40): 1991, RA: 2019	43.0	49.0	mg/l	75	200
8	Alkalinity as CaCO ₂	IS 3025 (Part 23): 2023	51.47	59.76	I-mg/I	200	600
9	Chloride as CI	IS 3025 (Part 32): 1988, RA: 2019	69.51	83.16	mg/l	250	1000
10	Residual free Chlorine	IS 3025 (Part 26) : 2021 Clause 7.0	*BLQ(**LOQ 8.2)	*BLQ(**LOQ 0.2)	eng/l	0.2	1
11	Phosphate	IS 3025 (Part 31)	*BLQ(**LOQ	*BLQ(**LOQ 0.02)	mg/l	1000	**
32	Magnesium as Mg	APHA, 24* Edition, 3500 Mg B, Calculation Method	8.19	9.90	mg/t	30	100
13	Total Dissolved Solids	IS 3025 (Part 16):2023	545.0	642.0	mg/l	500	2000
14	Sulphate as SO.	IS 3025 (Part 24/Sec 1) : 2022 Clause 5.0	58.16	62.11	mg/l	200	400
15	Fluoride as F	APHA, 24th Edition, 4500F-D : 2023	0.35	0.41	mg/l	1.0	1.5
16	Nitrate as NO ₃	IS 3025 (Part 34/Sec 1): 2023 Cause 6.4	13.47	10.89	mg/l	45	No Relaxation
17	Iron as Fe	APHA 24° Edition, 3111 B, 2023	0.20	0.37	mg/l	1.0	No Relaxation
18	Potassium	APHA 24th Edition, 3500 K, A+B	13.52	16.42	mg/l	1 34	
19	Boron	APHA, 24th 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* Edition, 3500 Cr- B	*BLQ(**LOQ 0.02)	*BLQ(**LOQ 0.02)	mg/l	0.05	No Relaxation
21	Nickel	APRA, 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)	870	1015	µs/cm		-
23	Zinc as Zn	APHA, 24th Edition, 3111 B : 2023	*BLQ(**LOQ 0.2)	"BLO(""LOO 0.2)	mg/l	5	15
24	Copper as Cu	APHA, 24° Edition, 3111 B : 2023	*BLQ(**LOQ 0.02)	*BLQ(**LOQ 0.02)	mg/l	0.05	1.5
25	Cadmium as Cd	APHA, 24° Edition, 3111 B : 2023	*BLQ(**LOQ 0.002)	*BLQ(**LOQ 0.002)	mg/l	0.003	No Relaxation
26	Lead as Pb	APHA, 24* Edition, 3111 B : 2023	*BLQ(**LOQ 0.005)	*8LQ(**LOQ 0.005)	mg/l	0.01	No Relaxation
	Total Coliform	IS 15185 : 2016, RA 2021	Absent	Absent	Per	Shall not be D	
28	E. Colt	IS 15185 : 2016, RA 2021 of Quantification, **LOO-Limit of 4035	A LAMBORI	Absent	100 ml	Any 100 m	

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

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Vibrant Techno Lab Pvt. Ltd.

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RK Yaday Lab Incharge **Authorized Signato**

bd@vibranttechnolab.com



Sample Description:

Sample Collected by: Preservation: Parameter Required: Sampling and Analysis Protocol: VTL/W/13

M/s JK Cement Works, Panna

(A Unit Of JK Cement Ltd.) Kakra- Panna Limestone Mines Village-Harduwaken Tehsil-Amangani PIN-

488441 Dist Panna **Ground Water**

Vibrant Techno Lab Representative

Suitable Preservation As Per Work Order APHA 24th Edition 2023 Report No.:

VTL/W/2411170028

Format No.: 7.8 F-01

Party Reference No.:

NIL

Report Date: Period of Analysis:

25/11/2024 17 to 25/11/2024

Receipt Date:

17/11/2024

Sampling Date: Sampling Quantity: 15/11/2024 2.0Ltr.+ 250 ml

Sampling Type:

Grab

			distance of the same of the sa		Limits of IS:10500-2012		
S.No.	Parameters	Test-Method	Hardua Village	Unit	Requirement (Acceptable Limits)	Permissible Limit in the Absence of Alternate Source	
1	pH (at 25°C)	IS 3025 (Part 11): 2022	7.48		6.5 to 9.5	No Relaxatio	
2	Colour	IS 3025 (Part 4): 2021	*BLQ(**LOQ 1.0)	Hazen	5	15	
3	Turbidity	IS 3025 (Part 10): 2023	*BLQ(**L0Q 1.0)	NTU	1	5	
	Odour	IS 3025 (Part 5): 2018	Agreeable	-	Agreeable	Agreeable	
5	Temperature	IS 3025 (Part 9): 2023	24.2	124			
6	Total Hurdness as CaCOs	IS 302S (Part 21) : 2009, RA : 2019	172.0	mg/L	200	600	
7	Calcium as Ca	IS 3025 (Part 40): 1991, RA: 2019	53.0	mg/i	75	200	
8	Alkalinity as CaCO ₂	IS 3025 (Part 23): 2023	68.16	mg/l	200	600	
9	Chioride as Ci	IS 3025 (Part 32): 1988, RA: 2019	87.39	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	Phosphate	IS 3025 (Part 31)	*BLQ(**LOQ 0.02)	mg/l	vie.	*	
12	Magnesium as Mg	APHA, 24* Edition, 3500 Mg B, Calculation Method	9.66	mg/I	30	100	
13	Total Dissolved Solids	IS 3025 (Part 16) :2023	685.0	685.0 mg/l 500		2000	
14	Sulphate as SO ₄	IS 3025 (Part 24/Sec 1) : 2022 Clause 5.0	52.18	mg/l	200	400	
15	Fluoride as F	APRA, 24th Edition, 4500F-D ; 2023	0.61	me/l	1.0	15	
16	Nitrate as NO ₃	IS 3025 (Part 34/Sec 1): 2023 Clause 6.4	32.17	mg/i	45	No Relaxation	
17	Iron as Pe	APHA 24th Edition, 3111 B, 2023	0.35	mg/l	1.0	No Relaxation	
18	Potassium	APHA 24th Edition, 3500 K, A+B	21.15	mg/l	2.0	NO MEIAZAGOE	
19	Boron	APHA, 24th Edition, 4500 B-C : 2023	*BLQ(**LOQ 0.2)	mg/l	0.5	2.4	
20	Hexavalent Chromium as Cr+6	APHA, 24th Edition, 3500 Cr- 8	*BLQ(**LOQ 0.02)	mg/l	0.05	No Relaxation	
21	Nickel	APHA, 24 th Edition, 3111 B : 2023	"BLQ(""LOQ 0.01)	mg/l	0.02	No Relaxation	
22	Electrical Conductivity	IS 3025 (Part 14)	1090	µs/cm		***	
23	Zinc as Zn	APHA, 24th Edition, 3111 B : 2023	*BLQ(**L00 0.2)	mg/l	A/ 5	15	
24	Copper as Cu	APHA, 24* Edition, 3111 B : 2023	*BLO(**LOO 0.02)	mg/l	0.05	1.5	
25	Cadmium as Cd	APHA, 24th Edition, 3111 B : 2023	*BLQ(**LOQ 0.002)	mg/l	0.003	No Relaxation	
26	Lead as Pb	APHA, 24th Edition, 3111 B : 2023	*BLQ(**LOQ 0.005)	mg/l	0.01	No Relaxation	
27	Total Coliform	IS 15185 : 2016, RA 2021	Absent	Per 100			
28	E. Coli	IS 15185 : 2016, RA 2021 Absent ml		Shall not be Detectable in Any 100 ml sample			



JAIPUP

RK Yaday Lab Incharge Authorized Signatory

Approved & Certified EPA 1986 Recognised, ISO:9007 and OHSAS:45001 Certified

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C 0141-2954638

bd@vibranttechnolab.com



JK Cement Works, Panna

(Formerly known as Jaykaycem (Central) Ltd. now amalgamated) A Unit of JK Cement Ltd.

Date: 17.02.2025

CIN: L17229UP1994PLC017199

Village - Harduwaken, Tehsil - Amanganj District - Panna, State - Madhya Pradesh, India - 488 441

📞 9329141591 🔎 jkc.panna@jkcement.com

@www.jkcement.com

Ref: JKCEMENT/ENV/EMR/2024-25/20B/79

To,
The Director
Impact Assessment Division (IA Division)
Ministry of Environment and Forest & Climate Change
Indira Paryavaran Bhawan, Jorbagh Road,
New Delhi-110003 INDIA.

Subject: Submission of Surface water & Ground Water Quality Analysis Reports for the month of January-2025 for Kakra -Panna Limestone Mine of M/s J K Cement Ltd. Located at Village- Kakra, Kamtana, Saptai, Judi, Devri Purohit & Devra, Tehsil-Amanganj, District Panna (M.P.)

Reference No.: EC No.-F. No. J-11015/190/2016-IA.II (M) dated 31.08.2020

Dear Sir,

With reference to the aforesaid subject, please find herewith enclosed Surface water & Ground Water Quality Analysis Reports for the month of January-2025 for Kakra -Panna Limestone Mine of M/s J K Cement Ltd. Located at Village- Kakra, Kamtana, Saptai, Judi, Devri Purohit & Devra, Tehsil-Amanganj, District Panna (M.P.) for your kind information and record please.

Thanking You Yours faithfully,

For Kakar-Panna Limestone Mine (A unit of J K Cement Ltd., Panna)



Kapil Arawal (Unit Head)

Encl: As above

CC to:-

- 1. The Add.Principal Chief Conservator of Forest (C) MoEF & CC, Regional Office (WZ),E-5, Kendriya Paryavaran Bhawan, E-5 Arera Colony, Link Road-3, Ravishankar Nagar, Bhopal-462016
- 2. Member Secretory, CGWA, Jamnagar House, 18/11, Man singh Road Area, New Delhi, Delhi-110001
- 3. Regional Director, CGWB Regional Office, Block-1,4 th Floor, Paryawas Bhawan, Arera Hills, Bhopal
- 4. Scientist E, Regional Directorate, CPCB Zonal Office, Vithal Market, Paryavaran Parisar, E-5, Arera Colony, Bhopal, M.P.
- 5. Member Secretory, MPPCB,E-5, Link Road No. 3, Ekant Park, Arera Colony, Bhopal, M.P.
- 6. Regional Officer, Regional Office MPPCB, Pt. Deen Dayal Nagar, Housing Board Colony, Sagar, M.P.

Corporate Office

- Prism Tower, Ground Floor, Ninaniya Estate, Gwal Pahari, Gurugram, Haryana - 122102, India
- +0124-6919000
- admin.prismt@jkcement.com
 - www.jkcement.com CIN: £17229UP1994PLC017199





Manufacturing Units at : Nimbahera, Mangrol, Goten (Rajasthan) | Muddapur (Karnataka) Jharti (Haryana) | Katni, Panna, Ujjain (M.P.) | Prayagraf, Aligarh, Hamirpur (U.P.) | Batasinor (Gujarat) | Fujairah



Registered Office: Kamla Tower, Kanpur-208001, U.P., India. 😂+91-512-2371478 to 85 - 91-512-2399854 🚭 www.jkcement.com



Sample Number:

Name & Address of the Party:

Sample Collected by: Preservation:

Sample Description:

Parameter Required: Sampling Protocol: VTL/SW/01-03

M/s JK Cement Works, Panna (A Unit Of JK Cement Ltd.) Kakra- Panna Limestone Mines Village-Barduwalsen Tebsil-Amengani PIN-490441 Dist-

Panna

Surface Water

Vibrient Techno Lab Team

Suitable Preservation

As Per Work Order

APHA 24th Edition 1060, 2023

Report No.:

VTL/W/2501230030-32

Format No.

Party Reference No.:

Report Date:

Period of Analysis:

Receipt Date:

Sampling Date:

Sampling Quantity: Sampling Type:

28/01/2025 23 to 28/01/2025 23/01/2025

7.8 F-01

NIL

17/01/2025

2.0Ltr.+ 250 ml

Grab

S. No.		Test Method	Pond Near Pagra Village	Ken River Near Tighra Village	Beteha Nalla Near Surajpur	Unit
Phys	ical Parameters			1 0 0	The state of the s	-
1.	pH (at 25 °C)	IS 3025 (P-11): 2022	7.58	7.49	7.70	100
2.	Colour	IS 3025(P-4); 2021	- 0	7	21	Haises
3.	Turbidity	IS 3025 (P-10): 2023	15	18	12	NEU
	nical Parameters (mg/l)	DISTRICT CONTRACTOR OF THE CON				
4.	Total Hardness as CaCO ₂	IS: 3025 (P-21): 2009,RA: 2019	161.00	172.00	145.00	mg/l
5.	Alkalinity as CaCO ₃	IS: 3025 (P-23): 2023	75.09	64.00	52.00	mg/l
6.	Chloride as CI	IS: 3025(Part 32):1988, RA:2019	48.12	38.54	29.98	mg/l
2.	Total Dissolved Solids	IS 3025 (P-16): 2023	420	490	370	mg/l
8.	Sulphate as 50.	15: 3025 (P-24): Sec.1: 2022 (Clause 5.0)	18.42	22.84	14.27	mg/l
9.	Fluoride as F	APHA (24th Edition), 4500FD:2023	0.25	0.31	0.22	mg/l
10.	Nitrate as NO ₃	IS: 3025 (P-34): Sec 1: 2023 (Clause 6.4)	6.68	7.94	4.87	mg/s
11.	Iron as Fe	APHA (24th Edition) 31118: 2023	9.28	0.37	0.25	ma/l
12.	Chromium as Cr+6	APHA (24th Edition),3500 CR-B , 2023	*BLQ(**LOQ-0.05)	"BLQ(""LOQ-0.05)	*BLQ(**LOQ-0.05)	mg/
13.	Phenolic Compounds	APHA 24th Edition,2017, \$530 D :2023	*BLQ(**LOQ-0.05)	*BLQ(**LOQ-0.05)	*BLQ(**L0Q-0.05)	mg/l
14.	Zinc as Zn	APRA (24th Edition),3111B: 2023	0.41	0.48	0.35	mg/S
15.	Copper as Cu	APHA (24th Edition) 31118: 2023	"BLQ(""LOQ-0.02)	*BLQ(**L0Q-0.02)	.8F0U.,F00-0'051	mg/l
16.	Cadmium as Cd	APHA (24th Edition),3111B: 2023	"BLQ("LOQ- 0.002)	*BLQ(**LOQ- 0.002)	"Brd(".rod-0105)	mg/l
17.	Lead as Pb	APHA (24th Edition),31118: 2023	*BLQ(**LOQ- 0.005)	*BLQ(**LOQ- 0.005)	*8LQ(**LOQ-0.005)	mg/l
18.	Arsenic as As	APHA (24° Edition),3114C,2023	*BLQ(**LQQ- 0,005)	*BLQ[**LOQ- 0.005]	*BLQ(**LOQ-0.005)	mg/l
14.	Mercury as Hg	APHA (24* Edition)3112 B,2023	*8LQ(**LOQ- 0.001)	*BLQ(**LOQ- 0.001)	.Brd(.,rod-0:001)	mg/l
20	Oil & Grease	IS:3025(P-39):2021	*BLO(**LOO-4,0)	*BLQ(**L00-4.0)	"BLQ(""LOQ-4.0)	10g/1
23.	BOD (3days at 27°C)	IS:3025(P-44):2023	7.0	6.0	9.0	mg/l
22.	COD	IS:3025(P-58):2023	36.0	30.0	42.0	mg/l
23.	DO	IS:3025(P-38):1989, RA:2019	7.8	6.4	5.8	mg/l
14.	TSS	IS:3025(P-17):2022	28	32	30	ma/l
	biological Parameters (MPN/	100 ML)		57.	AN .	779674
15.	Total Coliform	IS:15185: 2016	Present	Present	Present	Presen
26.	Faecal Coliform	APHA 24th Editions, 9221-C:2023 santification, **LOQ-Limit of Quantification	Present	Present	Present	t/Abse at per 100 ml

End of the report





RK Yadav Lab Incharge Authorized Signatory

Vibrant Techno Lab Pvt. Ltd.

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Sample Number:

Name & Address of the Party:

VTL/SW/04-06

M/s JK Cement Works, Panna

(A Unit Of JK Cement Ltd.) Kakra-Panna Limestone Mines

Village-Harduwaken Tehsil-Amanganj PIN-438441 Dist-

Panna.

Surface Water

Report No.: Format No.: VTL/W/2501230033-35

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

Sample Collected by: Preservation: Parameter Required:

Sampling Protocol:

Sample Description:

Vibrant Techno Lab Team Suitable Preservation As Per Work Order

APHA 24th Edition 1060, 2023

5. No.	Parameter	Test Method	Mirhasan River Near Amangan)	Ken River Near Singaura Village	Sonar River Near Village Santa	Unit
Physi	cal Parameters				The second second	
1.	pH (at 25 °C)	IS 3025 (P-11): 2022	7.49	7.31	7.42	
2.	Colour	IS 3025(P-4): 2021	10	- 8	11	Hagen
1	Turbidity	IS 3025 (P-10): 2023	18	15	22	NTU
-	ical Parameters (mg/l)		V			-
4.	Total Hardness as CaCO ₁	IS: 3025 [P-21]: 2009,RA: 2019	166.00	132.00	151.00	mg/l
5.	Alkalinity as CaCO ₃	IS: 3025 (P-23): 2023	71,00	55.00	68.23	mg/i
6.	Chloride as Cl	IS: 3025(Part 32):1988, RA:2019	51.78	43.51	36.74	mg/i
7.	Total Dissolved Solids	IS 3025 (P-16): 2023	460	410	510	mg/i
B.	Sulphate as SO ₄	15: 3025 (P-24): Sec.1: 2022 (Clause 5.0)	17.24	15.40	22.54	mg/l
9.	Fluoride as F	APHA (24th Edition), 4500FD:2023	0.21	0.16	0.23	mg/l
10.	Nitrate as NO2	IS: 3025 (P-34): Sec 1: 2023 (Clause 6.4)	9.78	7.14	11.24	mg/l
11.	Iron as Fe	APHA (24th Edition) 3111B: 2023	0.23	0.19	0.29	mg/l
12.	Chromium as Cr+6	APHA (24th Edition),3500 CR-B , 2023	*BLQ(**LOQ-0.05)	*BLQ(**LOQ-0.05)	*BLQ(**LOQ-0.05)	mg/l
13.	Phenolic Compounds	APHA 24th Edition,2017, \$530 D :2023	*BLQ(**LOQ-0.05)	*BLQ(**LOQ-0.05)	*BLQ(**LOQ-0.05)	mg/I
14.	Zinc as Zn	APHA (24th Edition),3111B: 2023	0.34	0.28	0.38	mg/l
15.	Copper as Cu	APHA (24th Edition),3111B: 2023	*BLQ(**L0Q-0.02)	*BLQ(**L0Q-0.02)	"BLQ(""LOQ-0.02)	mg/l
16.	Cadmium as Cd	APHA (24th Edition),31118: 2023	*BLQ(**LOQ- 0.002)	*BLQ(**LOQ- 0.002)	*BLQ(**LOQ- 0.002)	mg/1
17.	Lead as Pb	APHA (24th Edition),31118: 2023	*BLQ(**LOQ- 0.005)	*BLQ(**LOQ- 0.005)	*BLQ(**LOQ- 0.005)	mg/l
16.	Arsenic as As	APHA (24* Edition),3114C,2023	*BLQ(**LOQ- 0.005)	*BLQ(**LOQ- 0.005)	*BLQ(**LQQ- 0.005)	mg/l
19.	Mercury as Hg	APHA (24 th Edition)3112 B,2023	*BLQ(**LOQ- 0.001)	*BLQ(**LOQ- 0.001)	*BLQ(**LOQ- 0.001)	mg/l
20.	Oil & Grease	IS:3025(P-39):2021	"BLQ(""LOQ-4.0)	*BLQ(**LOQ-4.0)	*BLQ(**LOQ-4.0)	mg/l
21.	BOD (3days at 27°C)	IS-3025(P-44):2023	10.0	7.0	11.0	mg/i
99	COR	Control of the Contro	The second secon		2.770	100

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

IS:3025(P-58):2023

IS:3025(P-38):1989, RA:2019

IS:3025(P-17):2022

IS:15185: 2016

APHA 24th Edition, 9221-C:2023

"End of the report""

42.0

6.7

30

Present

Present

32.0

5.6

42

Present

Present



Microbiological Parameters (MPN/100ML)



RK Yadav Lab Incharge Authorized Signatory

510

7.9

34

Present

Present.

mg/l

mg/l

mg/1

Present

/Absen

t per 100 ml

22

23

24

25.

COD

DO

TSS

Total Coliform

Faecal Coliform

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

Vibrant Techno Lab Pvt. Ltd.

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bd@vibranttechnolab.com



Sample Number:

Name & Address of the Party:

Sample Description:

Sample Collected by: Preservation:

Parameter Required: Sampling Protocol: VTL/SW/07-08

M/s JK Coment Works, Panna

(A Unit Of JK Cement Ltd.) Kakra-Panna Limestone Mines Village-Harduwaken Tehali Amangani PIN-480441 Dist-

Panna Surface Water

Vibrant Techno Lab Team Suitable Preservation As Per Work Order

APHA 24th Edition 1060, 2023

Report No.:

VTL/W/2501230036-38

Format No.:

Party Reference No.: MIL

Report Date:

28/01/2025 23 to 28/01/2025

7.8 F-01

Period of Analysis: Receipt Date:

23/01/2025

Sampling Date:

17/01/2025

Sampling Quantity: Sampling Type:

2.0Ltr.+ 250 ml

Grab

s. No.	Parameter	Test Method	Pond Near Chikhla Village	Pond Near Umri Village	Nala Near Deora Village	Unit
-	cal Parameters				7 m/25- II	
1.00	pH (at 25 °C)	IS 3025 (P-11): 2022	7.34	7.22	7.41	7.7
2.	Colour	IS 3025(P-4): 2021	- 8	10	12	Hone
3.	Turbidity	IS 3025 (P-10): 2023	20	18	24	NTU
	ical Parameters (mg/l)	The Control of the Co	10 -000000 /			
4.	Total Hardness as CaCO ₃	IS: 3025 (P-21): 2009,RA: 2019	238.60	187,00	250.00	mg/
5.	Alkalinity as CaCO ₂	(S: 3025 (P-23): 2023	78.35	52.86	63.59	mg/
6.	Chloride as Ci	IS: 30Z5(Part 32):1988, RA:2019	61.87	47.58	58.12	mg/
7.	Total Dissolved Solids	IS 3025 (P-16): 2023	470	355	490	mg/
8.	Sulphate as 50.	IS: 3025 (P-24): Sec.1:2022 (Clause 5.0)	18.20	15.24	20.15	mg/
9.	Fluoride as F	APHA (24th Edition), 4500FD:2023	0.25	0.19	0.28	mg/
10.	Nitrate as NO ₃	IS: 3025 (P-34): Sec 1: 2023 (Clause 6.4)	14.52	10.41	17.21	mg/
11	Iron as Fe	APHA (24th Edition).3111B: 2023	0.32	0.25	0.37	mad
12.	Chromium as Cr+6	APHA (24th Edition),3500 CR-B , 2023	*BLQ(**LOQ-0.05)	"BLQ(""LOQ-0.05)	*BLQ(**LOQ-0.05)	mg/
13.	Phenolic Compounds	APHA 24th Edition,2017,5530 D :2023	"BLQ(""LOQ-0.05)	*BLQ(**LOQ-0.05)	*8LQ(**L0Q-0.05)	mg/l
14.	Zinc as Zn	APHA (24th Edition),3111B: 2023	0.37	0.25	0.41	ma/l
15.	Copper as Cu	APHA (24th Edition),31118: 2023	*BLQ(**L0Q-0.02)	*BLQ(**L0Q-0.02)	*BLQ(**L0Q-0.02)	mg/l
16.	Cadmium as Cd	APHA (24th Edition).31118: 2023	*BLQ(**LOQ- 0.002)	*BLQ(**LOQ-0.002)	*BLQ(**LOQ- 0.002)	mg/l
17,	Lead as Pb	APHA (24th Edition),3111B: 2023	"BLQ(""LOQ- 0.005)	*BLQ(**LOQ-0.005)	*BLQ(**LOQ- 0.0051	mg/l
18.	Arsenic as As	APHA (24 th Edition),3114C,2023	.8rd(rod-	*BLQ(**LOQ-0.005)	*BLQ(**LOQ- 0.005)	mg/l
19.	Mercury as Hg	APHA (24th Edition)3112 B,2023	*8LQ(**LOQ-	*Bró(**rod-0'001)	*BLQ(**LOQ- 0.001)	mg/l
10.	Oil & Grease	IS:3025(P-39):2021	*BLQ(**LOQ-4.0)	*BLQ(**LOQ-4.0)	"BLO(""LOO-4.0)	mg/j
ti.	BOD (3days at 27°C)	IS:3025(P-44):2023	10.0	9.0	7.0	mg/l
2.	COD	15:3025(P-58):2023	45.0	43.0	33.0	mg/l
23.	DO	IS:3025(P-38):1989, RA:2019	7,1	7.8	8.2	mg/3
4	TSS	15:3025(P-17):2022	42	38	32	mg/l
	Mological Parameters (MP)	N/100ML)			- 1000	11000
5.	Total Coliform	IS:15185: 2016	Present	Present	Present	Preser
Α.	Faecal Coliform	APHA 24th Edition, 9221-C:2023 of Quantification, **LOQ-Limit of Quanti	Present:	Present	Present	/Abser t per 100 m



JAIPHR

RK Yadav Lab Incharge Authorized Signapor

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

Vibrant Techno Lab Pvt. Ltd.

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2 0141-2954638

bd@vibranttechnolab.com



Sample Numbers

Name & Address of the Party:

Sample Description:

Sample Collected by: Preservation: Parameter Required:

Sampling Protocoli

VTL/SW/01-03

M/s JK Cement Works, Panna

(A Unit Of JK Coment Ltd.) Kakra-Panna Limestone Mines Village-Hardowsken Tehsil-Amangani PIN-488441 Dixi-

Panna

Surface Water

Vibrant Techno Lab Team Suitable Prescreation

As Per Work Order

APHA 24th Edition 1060, 2023

Report Noz.

VTL/W/2501230039-41

Format No.:

Period of Analysis:

7.8 F-01

Party Reference No.:

NIL

Report Date:

28/01/2025 23 to 28/01/2025

Receipt Date:

23/01/2025

Sampling Date:

17/01/2025

Sampling Quantity: Sampling Type:

2.0Ltr.+ 250 ml

Grah

S. No.	Parameter	Test Method	Pond Near Amanganj	Berma River Near Gatsubad Village	Pond Puraina Village	Unit
-	ical Parameters	The second secon				
1	pH (at 25 °C)	IS 3025 (P-11): 2022	7.42	7.32	7.58	94
2	Colour	IS 3025(P-4): 2021	8	10	16	Hanes
3.	Turbidity	IS 3025 (P-10): 2023	12	18	14	NTU
	rical Parameters (mg/l)	A PROGRAMMA CONTRACTOR OF THE	5 - STATES -			
4.	Total Hardness as CaCO ₃	IS: 3025 (P-21): 2009,RA: 2019	210.00	179.00	195.00	mg/I
5.	Alkalinity as CaCO ₁	15: 3025 (P-23): 2023	87.00	79.00	99.00	mg/l
6.	Chloride as Cl	IS: 3025(Part 32):1988, RA:2019	51.40	48.52	43.78	mg/l
7.	Total Dissolved Solids	45 3025 (P-16): 2023	445	399	\$10	mg/I
8.	Sulphate as 50.	IS: 3025 (P-24): Sec.1: 2022 (Clause 5.0)	21.63	12.34	24.78	mg/l
9.	Fluoride as F	APRA (24th Edition), 4500FD:2023	0.28	0.22	0.36	ma/l
10.	Nitrate as NO ₂	IS: 3025 (P-34); Sec 1: 2023 (Clause 6.4)	11.85	13.64	16.29	mg/l
11.	Iron as Fe	APHA (24th Edition).3111B: 2023	0.30	0.25	0.37	me/l
12.	Chromium as Cr+6	APHA (24th Edition),3500 CR-B, 2023	*BLQ(**LOQ- 0.05)	*BLQ(**LOQ-0.05)	*8LQ(**L0Q-0.05)	mg/l
13.	Phenolic Compounds	APHA 24th Edition,2017, 5530 D +2023	*BLQ(**LOQ-	*BtQ(**toQ-0.05)	*BLQ(**LOQ-0.05)	mg/l
14.	Zine as Zn	APHA (24th Edition),31118: 2023	9.36	0.28	0.43	mg/l
15.	Copper as Cu	APHA (24th Edition),31118: 2023	*BLQ(**LOQ- 0.02)	"8rd(""L00-0.02)	*BLQ(**LOQ-0.02)	mg/l
16	Cadmium as Cd	APHA (24th Edition),3111B: 2023	*BLQ(**LOQ- 0.002)	"BLQ(""LOQ-0.002)	*BLQ(**LOQ- 0.002)	mg/l
17.	Lead as Pb	APHA (24th Edition),3111B: 2023	*BLQ[**L0Q- 0.005)	*BLQ(**LOQ-0.005)	*BLQ(**LOQ- 0.005)	mg/l
18.	Arsenic as As	APHA (24th Edition),3114C,2023	"BLQ(""LOQ- 0.005)	*BLQ(**LOQ-0.005)	*BLQ(**LOQ- 0.005)	mg/l
19.	Mercury as Hg	APHA (24* Edition)3112 8,2023	*BLQ(**LOQ- 0.001)	*Brd(**rod-0.001)	*BLQ(**LOQ- 0.001)	mg/l
20,	Oil & Grease	IS:3025(P-39):2021	*BLQ(**L00-4.0)	*8LQ(**L00-4.0)	*BLQ(**LOQ-4.0)	mg/l
3.	BOD (3days at 27°C)	IS:3025(P-44):2023	6.9	4.9	62	mg/l
12.	COD	IS:3025(P-58):2023	31.0	18.0	28.0	mg/i
3.	DO	IS:3025(P-38):1989, RA:2019	6.7	7.3	7.9	mg/l
4.	TSS	IS:3025(P-17)-2022	35	29	40	mg/l
	biological Parameters (MP)	Y/100ML)			100	-14071
5.	Total Coliform	15:1518S: 2016	Present	Present	Present	Present
	Faecal Coliform	APHA 24° Edition, 9221-C :2023 Quantification, **LOQ- Limit of Quantific	Present	Present	Present	Absent per 100 ml

JAIPUR

RK Yadav Lab Incharge **Authorized Signato**

Approved & Certified EPA 1986 Recognised, ISO:9001 and Of 5:45001 Certified

Vibrant Techno Lab Pvt. Ltd.

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9929108691, 9810205356, 8005707098, 9549956601

2 0141-2954638

bd@vibranttechnolab.com





Sample Number:

Name & Address of the Party:

Sample Description:

Sample Collected by:

Parameter Required: Sampling Protocol:

Preservation:

VTL/ W/01

M/s JK Cement Works, Panna

(A Unit Of JK Cement Ltd.) Kakra- Panna Limestone Mines Village-Hardowaken Tehsil-Amangani PIN-

488441 Dist-Panna Ground Water

Vibrant Techno Lab Representative

Suitable Preservation As Per Work Order

APHA 24" Edition 1060, 2023

Report No.:

VTL/W/2501230014

Format No.: 7.8 F-01 Party Reference No.: NIL

Report Date: Period of Analysis: 28/01/2025 23 to 28/01/2025

Receipt Date: 23/01/2025 Sampling Date:

Sampling Quantity:

18/01/2025 2.01tr.+ 250 ml

Sampling Type:

Grab

	Parameters		The latest like		Limits of IS	5:10500-2012
S.No.		Test Method	Kakra Mine Borewell	Unit	Requirement (Acceptable Limits)	Permissible Limit in the Absence of Alternate Source
1.	pH (at 25°C)	IS 3025 (Part 11) : 2022	7.23	The state of	6.5 to 8.5	No Relaxation
2.	Colour	IS 3025 (Part 4): 2021	*BL0(**L00 1.0)	Hazen	5	15
3.	Turbidity	IS 3025 (Part 10) : 2023	*BLO(**LOO 1.0)	NTU	1	5
4.	0.dour	IS 3025 (Part S) : 2018	Agreeable	1 2	Agreeable	Agreeable
5.	Taste	IS 3025 (Part 8): 2023	Agreeable	100	Asrecable	Agreeable
6.	Total Hardness as CaCO ₂	IS 3025 (Part 21) : 2009, RA : 2019	192.0	mg/i	200	600
7.	Calcium as Ca	15 3025 (Part 40) : 2024	53.0	mg/I	75	200
8.	Alkalinity as CaCO ₂	IS 3025 (Part 23): 2023	75.0	mg/I	200	600
9.	Chloride as Cl	IS 3025 (Part 32): 1988, RA: 2019	68.0	me/l	250	1000
10.	Residual free Chlorine	IS 3025 (Part 26): 2021 Clause 7.0	*8LQ(**L0Q 0.2)	mg/l	0.2	1
IL	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
34.	Sulphate as SO ₁	IS 3025 (Part 24/Sec 1): 2022 Clause 5.0	38.9	mg/l	200	400
15.	Fluoride as F	APHA, 24" Edition, 4500F D : 2023	0.39	mg/l	2.0	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 24th Edition, 3111 B, 2023	0.27	mg/l	1.0	No Relaxation
10.	Aluminium as Al	IS 3025 (Part 55) : 2003, RA : 2019	*BLQ(**LOQ 0.03)	mg/l	0.03	0.2
19.	Boron	APHA, 24 st Edition, 4500 B-C: 2023	*8ró(**rod 0'3)	mg/l	0.5	2.4
28.	Total Chromium as Cr	APHA, 24* Billion, 3111 B: 2023	"BLQ(""LOQ 0.02)	mg/l	0.05	No Relaxation
21.	Phenolic compound as CLHyOH	APHA, 24th Edition, 55'30 C : 2023	"BLQ(""LDQ 0.001)	mg/I	0.001	0.002
22.	Anionic Detergent as MBAS	IS 3025 (Part 68) 2019	*BL0(**L00 0.05)	mg/I	0.2	1.0
23.	Zinc as Zn	APRIA, 24th Edition, 3111 B : 2023	*BLO(**L00 0.2)	mg/l	5	15
24.	Copper as Cu	APRA, 24th Edition, 3111 B : 2023	*8ILO(**LOO 0.021	ms/l	0.05	1.5
25.	Manganese as Mn	APHA, 24" Edition, 3111 8: 2023	*BLQ(**L0Q 0.05)	mg/l	0.1	0.3
26.	Cadmium as Cd	APHA, 24* Edition, 3111 B : 2023	*BLQ(**LOQ 0.002)	mg/l	0.003	No Relaxation
27.	Lead as Pb	APHA, 24# Edition, 3111 B - 2023	*BLQ(**LOQ 0.005)	mg/l	0.01	No Relocation
28.	Selonium as Se	APHA, 24th Edition, 3114 C : 2023	"BLQ(""LOQ 0.005)	mg/l	0.01	No Relaxation
29.	Arsenic as As	APHA, 24# Edition, 3114 C : 2023	"BLQ("LOQ 0.005)	mg/l	0.01	No Relaxation
30.	Mercury as Hg	APHA, Z4* Edimon, 3112 B: 2023	"BLQ(""LDQ 0.001)	mg/l	0.001	No Relaxation
31.	Total Coliform	75 15185 : 2016	Absent	Per 100		Detectable in
32.	E. Coli Sow Limit of Quantification, **LO	IS 15185 : 2016	Absent	464		ml sample



RK Yaday 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

2 0141-2954638

bdgvibranttechnolab.com



Sample Number:

Sample Description:

Sample Collected by:

Parameter Required:

Preservation:

Name & Address of the Party:

VTL/W/02

M/s JK Cement Works, Panna

Vibrant Techno Lab Representative

(A Unit Of JK Coment Ltd.) Kakra-Panna Limestone

Mines Village-Hardowaken Tehsil-Amangan| PIN-

488441 Dist-Panna

Suitable Preservation

As Per Work Order

Ground Water

Report No.:

VTL/W/2501230015

Format No.:

7.8 F-01

Party Reference No.: Report Date:

NIL

Period of Analysis:

28/01/2025

23 to 28/01/2025

Receipt Date:

23/01/2025

Sampling Date:

18/01/2025

Permissible

Sampling Quantity:

2,01tr.+ 250 ml

Sampling Type: Grab

Sampling Protocol: APHA 24* Edition 1060, 2023 Limits of IS:10500-2012 Kakra Village Requireme 5.No. Parameters Test-Method

		16M Section	(Hand Pump-01)	Unit	nt (Acceptable Limits)	Limit in the Absence of Alternate Source
1,	pH (at 25°C)	IS 3025 (Part 11): 2022	7.34	-	6.5 to 8.5	No Relaxation
2.	Colour	IS 3025 (Part 4): 2021	*8LQ(**LOQ 1.0)	Haze	S	15
3.	Turbidity	IS 3025 (Part 10) : 2023	*BLQ(**LOQ 1.0)	NTU	Trens	5
4	Odour	IS 3025 (Part 5) : 2018	Agreeable	-	Agreeable	Agreeable
5.	Taste	IS 3025 (Part 8): 2023	Agrecable	144	Agreeable	Agreeable
6.	Total Hardness as CaCO _x	IS 3025 (Part 21) : 2009, RA : 2019	252.0	mg/l	200	600
7.	Calcium as Ca	IS 3025 (Part 40) : 2024	68.0	mg/l-	75	200
8.	Alkalimity as CaCO ₃	IS 3025 (Part 23): 2023	92.0	mg/I	200	600
9,	Chloride as Cl	IS 3025 (Part 32): 1988, RA: 2019	136.0	mg/l	250	1000
10.	Residual free Oliorine	IS 3025 (Part 26): 2021 Clause 7.0	*BLQ(**L0Q 0.2)	mg/l	0.2	1
11.	Cyanide as CN	-IS 3025 (Part 27/Sec 1) : 2022	*BLQ(**LOQ 0.02)	mg/	0.05	No Relaxation
12.	Magnesium as Mg	IS 3025 (Part 46):2023	20.0	me/l	30	100
23.	Total Dissolved Solids	IS 3025 (Part 16):2023	740	mg/l	500	2000
14.	Sulphate as SO ₄	15 3025 (Part 24/Sec 1) : 2022 Clause 5.0	83.6	mg/7	200	400
15.	Fluoride as F	APHA, 24* Edition, 4500F-D : 2023	0.61	mg/l	1.0	1.5
16.	Nitrate as NO ₂	15 3025 (Part 34/Sec 1) : 2023 Clause 6.4	28.97	mg/l	45	No Relaxation
17.	tron as Fe	APHA 24th Edition, 3111 B, 2023	0.29	mg/l	10	No Relaxation
18.	Aluminium as Al	IS 3025 (Part 55): 2003, RA: 2019	"BLQ(""L0Q 0.03)	mg/i	0.03	0.2
19.	Boron	APHA, 24th Edition, 4500 B-C : 2023	*BLQ(**LQQ 0.2)	mg/I	0.5	2.4
20.	Total Chromium as Cr	APHA, 24* Edition, 3111 8 : 2023	*BLQ(**LOQ 0.02)	mg/l	0.05	No Relaxation
21.	Phenolic compound as CellsOH	APHA, 24 ^a Edition, 5530 C+2023	*RLQ(**LOQ 0.001)	mg/l	0.001	0.002
22.	Anionic Detergent as MBAS	IS 3025 (Part 68) : 2019	*BLQ(**L00 0.05)	mg/l	0.2	1.0
23.	Zinc as 2n	APHA, 24* Edition, 3111 B : 2023	*BLQ(**LOQ 0.2)	mg/I	- 5	15
24.	Copper as Cu	APHA, 24º Edition, 3111 B: 2023	"BLO(""LOO 0.02)	mg/l	0.05	15
25.	Manganese as Mn	APHA, 24th Edition, 3111 B : 2023	.Br0(r00 002)	mg/l	0.1	0.3
26.	Cadmium as Cd	APHA, 24th Edition, 3111 B : 2023	"BLQ(""LOQ 0.002)	mg/l	0.003	No Relaxation
27.	Lead as Pb	APHA, 24th Edition, 3111 B : 2023	*BLQ(**L0Q 0.005)	mg/l	0.01	No Relaxation
28.	Selectium as Se	APHA, 24th Edition, 3114 C: 2023	*BLQ(**L0Q 0.005)	mg/l	0.01	No Relaxation
29.	Arsenic as As	APHA, 24th Edition, 3114 C : 2023	**8LQ(**L0Q 0.005)	mg/i	0.01	No Relaxation
30.	Mercury as Hg	APHA, 24th Edition, 3112 B : 2023	*BLQ(**LOQ 0.001)	mg/s	0.001	No Relaxation
31.	Total Coliform	IS 15185 : 2016	Absent	Per		
32.	E. Coli	IS 15185 : 2016	Absent	100 ml		Detectable in ml sample

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



Approved & Certified EPA 1986 Recognised, ISO:900 AS:45001 Certified

RK Yadav Lab Incharge Authorized Signatory

Vibrant Techno Lab Pvt. Ltd.

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9929108691, 9810205356, 8005707098, 9549956601

2 0141-2954638

bd@vibranttechnelab.com



Sample Description:

Sample Collected by:

Parameter Required:

Sampling Protocol:

Preservation:

Name & Address of the Party:

VTL/W/01-02

M/s JK Coment Works, Panna

(A Unit Of JK Cement Ltd.) Kakra-Panna Limestone Mines Village-Hardowaken Tehsil-Amanganj PIN-

488441 Dist-Panna

Ground Water

Report No.: Format No.:

Report Date:

VTL/W/2501230016-17

7.8 F-01

Party Reference No.:

NUL

28/01/2025

Period of Analysis: Receipt Date:

23 to 28/01/2025 23/01/2025

Sampling Date:

18/01/2025

Limits of 15:10500-2012

Sampling Quantity: Sampling Type:

2.0Ltr.+ 250 ml Grab

Vibrant Techno Lab Representative

Suitable Preservation As Per Work Order

APHA 24th Edition 1060, 2023

Requir Permissible Dny Wel Kamtana S.No. **Parameters** Test-Method Saptar Village Limit in the Unit Village (Accep Absonce of Albernate Limits) Source pH (as 23°C) IS 3025 (Part 11): 2022 1 7.31 7.75 6.5 to No Relexation 2 Colour IS 3025 (Part 4): 2021 *BLQ(**LOQ 1.0) "BLQ(""LOQ 1.0) Haze 15 3 Turbidity: BLQ(""LOQ 1.0) IS 3025 (Part 10): 2023 "BLQ(""LOQ LO) NTU 5 4 Odpur IS 3025 (Part 5): 2018 Agrecable Agrecable. Agreea Agrecable ble IS 3025 (Part 9): 2023 5 Temperature: 24.2 Total Hardness as 6 IS 3025 (Part 21): 2009, RA: 158.0 175.0mg/i 200 600 Calcoli 7 Calcium as Ca IS 3025 (Part 40):2024 36.0 42.0 200 mg/i 75 8 Alkalinity as CaCO₁ IS 3025 (Part 23): 2023 71.25 63.75 200 600 mg/I9 Chloride as Cl IS 3025 (Part 32): 1988, RA: 59.78 48.53 250 mg/l1000 2019 Residual free 10 IS 3025 (Part 26) : 2021 Clause "BLQ(""LOQ 0.2) *BLQ(***LOQ 0.2) mg/l 0.2 1 Chloring 11 **Phosphate** 15 3025 (Part 31) "BLQ[""LOQ 0.2] *BLQ(**LOQ 0.2) mg/l 12 IS 3025 (Part 46) 2023 Magnesium as Ma 16.57 17.06 30 mg/i 100 **Total Dissolved** 13 IS 3025 (Part 16):2023 723.0 687.0 mg/L500 2000 Solids Sulphate as 50. 14 IS 3025 (Part 24/Sec 1): 2022 \$5,98 48.15 mg/L 200 400 Clause 5.0 Pluoride as F 15 APHA, 24º Edition, 4500F-0 : 0.46 0.38 1.0 mg/l1.5 2023 Nitrate as NOs. 16 15.42 IS 3025 (Part 34/Sec 1): 2023 12.21 mg/l 45 No Relaxation Clause 6.4 12 Iron as Fe APHA 24th Edition, 3111 B, 2023 0.26 0.19 mg/l1.0 No Relaxation 18 Potassium APHA 24th Edition, 3500 K,2023 18.59 14.18 mg/l19 Boron APHA, 24th Edition, 4500 B-C : "SLQ(""LOQ 0.2) "BLQ(""LOQ 0.2) 0.5 mg/l24 2023 20 APHA, 24th Edition, 3500 Cr-Henavalent "BLQ(""LOQ 0.05) *BLQ(**LOQ 0.05) 0.05 No Relaxation mg/lChromium as Cr+6 B:2023 21 Nickel APHA, 24th Edition, 3111 B : 2023 "BLQ(""LOQ 0.01) "BLO(""LOO 0.01) 0.02 mg/INo Relaxation 22 Electrical IS 3025 (Part 14):2013 RA:2019 us/e 1060 990 Conductivity m 23 APHA, 24* Edition, 3111 B : 2023 Zinc as Zn "BLQ(""LDQ 0.2) "BLO(""LOQ 0.2) 5 mg/l150 24 APHA, 24th Edition, 3111 B : 2023 Copper as Cu "BLQ(""LOQ 0.02) *BLQ(**LOQ 0.02) mg/l0.05 1.5 25 Carbnium as Cd APHA, 24th Edition, 3111 B: 2023 "BLQ(""LOQ 0.002) 0.003 mg/I No Relaxation *BLQ(**LOQ 0.005) 26 Lead as Pb. APHA, 24* Edition, 3111 8: 2023 *BLQ(**Log 0.005) mg/i No Relaxation Total Coliforns 27 18 15185 : 2016 Absent Absent. Per Shall not be Detectable in 为约 E. Cali IS 15185 : 2016 Absent Absent 100 Any 100 ml sample

*BLQ-Below Limit of Quantification, **LOQ-Limit of Quantification. O LAB A

JAIPUR

RK Yadav Lab Incharge Authorized Signatory

Approved & Certified PPA 1986 Recognised, ISO:9001 and ORSAS:45001 Certified

Vibrant Techno Lab Pvt. Ltd.

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bd@vibranttechnolab.com



Name & Address of the Party:

VTL/W/03-04

M/s JK Cement Works, Panna

(A Unit Of JK Coment Ltd.) Kakra- Panna Limestone Mines Village-Harduwaken Tehsil-Amanganj PIN-

488441 Dist-Panna

Ground Water

Report No.: Format No.:

VTL/W/2501230018-19

Limits of IS 10560-2012

7.8 F-01

Party Reference No.:

NIL

Report Date:

28/01/2025

Period of Analysis: Receipt Date:

23 to 28/01/2025

23/01/2025

Sampling Date:

18/01/2025

Sampling Quantity:

2.0Ltr.+ 250 ml

Sampling Type:

Grah

Sample Collected by:

Sample Description:

Preservation:

Parameter Required:

Sampling Protocol:

Vibrant Techno Lab Representative

Suitable Preservation As Per Work Order

APHA 24* Edition 1060, 2023

S.No.	Parameters	Test-Method	Puraina Village	Pagra Village	Unix	ement (Accept able Limits)	Limit in the Absence of Alternate Source
3	pH (at ZS*C)	15 3025 (Part 11) : 2022	7.40	7.45	199	6.5 to 8.5	No Relaxation
2	Colour	IS 3025 (Part 4) : 2021	*BLQ(**LOQ 1.0)	*BLQ(**LOQ 1.0)	Haze	5	15
3	Turbidity	IS 3025 (Part 10) : 2023	"BLQ(""LOQ 1.0)	"BLQ(""L00 1.0)	NTU	1	5
*	Odour	IS 3025 (Part S) : 2018	Agreeable	Agreeable	1 2	Agreea	Agreeable
- 5	Temperature	IS 3025 (Part 9): 2023	24.5	24.4	144		
5	Total Hardness as CaCO ₃	IS 3025 (Part 21) : 2009, IA : 2019	192.0	225.0	mg/l	200	600
- 2	Calcium as Ca	IS 3025 (Part 40):2024	52.0	58.0	mg/i	75	200
8	Alkalinity as CaCO ₄	IS 3025 (Part 23): 2023	71.0	85.0	mg/l	200	600
9	Chloride as Cl	IS 3025 (Part 32): 1988, RA: 2019	66.0	92.0	mg/l	250	1000
10	Residual free Chlorine	IS 3025 (Part 26) : 2021 Clause 7.0	*BLQ(**L0Q 0.2)	*8LQ(**LOQ 0.2)	mg/l	0.2	1
11	Phosphate	IS 3025 (Part 31)	*BLQ(**L00 0.2)	"8LQ[""L0Q 0.2]	mg/L	-	-
1,2	Magnesium as Mg	IS 3025 (Part 46):2023	15.13	19.51	mg/l	30	100
13	Total Dissolved Solids	15 3025 (Part 16) :2023	730.0		mg/l	500	2000
14	Sulphate as SO ₄	IS 3025 (Part 24/Sec 1) : 2022 Clause 5.0	58.64	69.32	mg/l	200	400
35	Fluoride as F	APMA, 24* Edition, 4500F-D : 2023	0.38	0.41	mg/l	1.0	1.5
16	Nitrate as NO ₂	IS 3025 (Part 34/Sec 1) : 2023 Clause 6.4	19.54	22.34	mg/i	45	No Relaxation
17	Iron as Pe	APHA 24ª Edition, 3111 B, 2023	0.29	0.36	mg/l	10	No Relaxation
18	Potassium	APHA 24° Edition, 3500 K,2023	17.84	21.89	mg/l		
19	Boron	APHA, 24" Edition, 4500 B-C: 2023	*BLQ(**L00 0.2)	"BLQ("L0Q 0.2)	mg/l	0.5	2.4
20	Hexavalent Chromium as Cr+6	APHA, 24th Edition, 3500 Cr- B:2023	*BLQ[**LOQ 0.05)	*BLQ(**LOQ 0.05)	mg/l	0.05	No Relaxation
21	Nickel	APHA, 24th Edition, 3111 B : 2023	*BLQ(**LOQ 0.01)	*Brd(**rod 0.01)	mg/l	0.02	No Relaxation
22	Electrical Conductivity	IS 3025 (Part 14):2013 RA:2019	1140	1220	μs/c		**
23	Zinc as Zn	APHA, 24th Edition, 3111 8 : 2023	"BLO(""LGO 0.2)	*BLQ(**LOQ 0.2)	mg/l	5	15
24	Copper as Cu	APHA, 24th Edition, 3111 B : 2023	*BLQ(**L00 0.02)	*BLQ(**L0Q 0.02)	mg/l	0.05	1.5
25	Cadmium as Cd	APHA, 24* Edinon, 3111 B : 2023	"BLQ("*LDQ 0.002)	*BLO(**LOG 0.002)	mg/l	0.003	No Relaxation
26	Lead as Pb	APHA, 24th Edition, 3111 B : 2023	*BLQ(**LOQ 0.005)	*BLQ(**LOQ 0.005)	mg/i	0.01	No Relaxation
27	Total Coliform	IS 15185 : 2016	Absent	Absent	Per	and look at	
28	E. Coli	IS 15185 - 2016	Abrane	Absort	9.00	Shall not	be Decectable in

Absent

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

15 15 185 : 2016





RK Yaday Lab Incharge **Authorized Signator**

100

Absent

28

E. Coli

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Vibrant Techno Lab Pvt. Ltd.

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bd@vibranttechnolab.com

Shall not be Detectable in

Any 100 ml sample



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-Hardowaken Tehsil-Amanganj PIN-

488441 Dist-Panna

Ground Water

Remort No. Format No.: VTL/W/2501230020-21

7.8 F-01

Party Reference No.:

Report Date: Period of Analysis: 28/01/2025 23 to 28/01/2025

Receipt Date:

23/01/2025

Sampling Date:

18/01/2025

Sampling Quantity: Sampling Type:

2.0Ltr.+ 250 ml Grab.

Sample Collected by:

Sample Description:

Preservation:

Parameter Required: Sampling Protocol:

As Per Work Order

APNA 24th Edition 1060, 2023

Vibrant Techno Lab Representative

Suitable Preservation

Limits of 19 10500-2012 Require Permissible. S.No. Parameters. Limit in the Test-Method Udla Village ment Sotipura Village Unit LAccepta Absence of Abternate Limits) Source pH (48.25*C) IS 3025 (Part 11): 2022 7.30 7.28 6.5 to 8.5 No Relaxation 2 Colour IS 3025 (Part 4): 2021 *BLQ(**LOQ L0) BLQ("LOQ 1.0) Haze 15 3 Turbidity. 85 3025 (Part 10) : 2023 "BLQ(""LOQ LO) "BLQ(""LOQ LO) NTU 5 1 Odour 4 IS 3025 (Part 5): 2018 Agrecable Agreeable Agreeabl Agreeable . 5 Temperature IS 3025 (Part 9) : 2023 24.4 6 Total Hardness as IS 3025 (Part 21): 2009, RA: 178.0 147.0 200 600 mg/l CaCOs 2019 IS 3025 (Part 40) :2024 Calcium as Ca. 49.0 43.0 mg/I7% 200 8 Alkalinity as CaCO₂ IS 3025 (Part 23): 2023 66.0 42.9 mg/I200 600 9 Chloride as Cl. IS 3025 (Part 32): 1988, RA 75.6 62.4 mg/l 250 1000 2019 10 Residual free IS 3025 (Part 26): 2021 Clause "BEQ(""LOQ 0.2) "BLQ(""LOQ 0.2) mg/t 0.2 1 Chlorine-7.0 11 "BLQ(""LOQ 0.2) Phosphate. IS 3025 (Part 31) *BLQ(**LO0 0.2) mg/i 12 Magnesium as Mg IS 3025 (Part 46):2023 13.55 9.65 30 mg/1100 13 Total Dissolved 15 3025 (Part 16):2023 610 592 mg/l 500 2000 14 Sulphate as 50. IS 3025 (Part 24/Sec 1): 2022 42.51 51.78 mg/l200 400 Clause S.0 15 Fluoride as P APHA, Z4" Edition, 4500F-D | 0.39 0.44 mg/l 10 15 2023 16 Nitrate as NOs IS 3025 (Part 34/Sec 1): 2023 13.54 16.20 mg_/I 45 No Relaxation Clause 6.4 12 Iron as Fe AFHA 24" Edition, 3111 B, 2023 0.22 0.31 mg/L1.0 No Relaxation APHA 24" Edition, 3500 K,2023 18 Potastium. 12.85 16.24 mg/L 19 Boron APHA, 24th Edition, 4500 B-C: *BL0(**L00 0.2) "BLQ(""LOQ 0.2) mg/l 0.5 2.4 2023 20 **Hexavalent** APHA, 24° Edition, 3500 Cr-"BLQ(""LOQ 0.05) "BLQ(""L00 0.05) mg/l0.05 No Reloxation Chromium as Ces 6 B.2023 Nickel APHA, 24th Edition, 3111 B: 2023 21 No Relaxation *BLQ(**LOQ 0.01) "BLQ(""LOQ 0.01) mg/l0.02 IS 3025 (Part 14):2013 RA:2019 22 Electrical 115/T 950 910 Conductivity m 23 Zinc as Zn APHA, 24th Edition, 3111 B: 2023 "BLQ(""LOQ 0.2) "SLQ(""LOQ 0.2) mg/l15 24 Copper as Cu APHA, 24th Edition, 3111 B : 2023 "BLQ(""LOQ 0.02) 200 mg/l1.5 25 Cadmium as Cd APHA, 24th Edition, 3111 B : 2023 "BLQ(""LOQ 0.00Z) "BLQ(""LOQ 0.002) 0.003 mg/INo Relovation 26 Lead as Pb APHA, 24th Edition, 3111 B : 2023 *BLQ(**LQQ 0.005) *BLQ(**LOQ 0.005) 0.01 mg/l No Relaxation 27 Total Coliform 15 15 185 : 2016 Absent Absent Per Shall not be Detectable in 28 E. Coh IS 15105:2016 Absent 100 Absent Any 100 ml sample mi

*BLQ-Below Limit of Quantification, **LOQ-Limit of Gunnot Seation



JAIPLIR

RK Yaday Lab Incharge Authorized Signatory

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

Vibrant Techno Lab Pvt. Ltd.

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2 0141-2954638

bd@vibranttechnolab.com



Name & Address of the Party:

VTL/W/07-08

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

Format No.:

VTL/W/2501230022-23

7.8 F-01

Party Reference No.:

NIL

Report Date: Period of Analysis: 28/01/2025 23 to 28/01/2025

Receipt Date:

23/01/2025

Sampling Date:

Report No.:

Sampling Quantity:

18/01/2025 2.0Utr.+ 250 ml

Limits of IS 10500-2012

Sampling Type:

Grab

Sample Collected by:

Sample Description:

Preservation:

Parameter Required: Sampling Protocol:

Vibrant Techno Lab Representative Suitable Preservation

As Per Work Order

APHA 24th Edition 1060, 2023

	The second second	The state of the s	A STATE OF THE PARTY OF THE PAR		43 33	Limits 4/15 10500-2012	
S.No.	Parameters .	Test-Method	Hinauta Village	Parwa Village	Unit	Requirement (Acceptable Limits)	Permissible Limit in the Absence of Alternate Source
1	pH (at 25°C)	IS 3025 (Part 11): 2022	7.33	7.26	100	6.5 to 8.5	No Relaxation
2	Colour	IS 3025 (Part 4) : 2021	*SEQ(**L0Q 1.0)	"BLQ(""LOQ L0)	Hazen	5	15
3	Turbidity	IS 3025 (Part 10) : 2023	"BLQ(""LOQ 1.0)	*BLQ(**LOQ 1.0)	NTU	1	5
*	Odour	IS 3025 (Part 5): 2018	Agreeable	Agreeable	100	Agrenable	Agreeable
5	Temperature	IS 3025 (Part 9) : 2023	24.5	24.2	1000		
6	Total Hardness as CaCO ₁	IS 3025 (Part 21) : 2009, RA: 2019	208.0	178.0	mg/l	200	600
7	Calcium as Ca	IS 3025 (Part 40) :2024	52.0	46.0	mg/l	75	200
8	Alkalinity as CaCO ₃	IS 3025 (Part 23) : 2023	78.0	61.0	mg/l	200	600
9	Chloride as CI	IS 3025 (Part 32): 1988, RA: 2019	92.8	85.1	mg/l	250	1000
1.0	Residual free Chlorine	IS 3025 (Part 26) : 2021 Clause 7.0	*Brd(**rod 0'3)	*8LQ(**LOQ 0.2)	mg/l	0.2	1
11	Phosphate	IS 3025 (Part 31)	*BL0(**L00 0.2)	*8LQ(**LOQ 0.2)	mg/l		- 10
12	Magnesium as Mg	IS 3025 (Part 46):2023	19.02	15.36	mg/l	30	100
13	Total Dissolved Solids	15 3025 (Part 16) :2023	660.0	730.0	mg/l	500	2000
14	Sulphate as \$0 ₄	15 3025 (Part 24/Sec 1): 2022 - Clause 5.0	71.5	\$5.8	mg/I	200	400
15	Fluoride as F	APHA, 24" Edition, 4500F-D : 2023	0.45	0.42	reg/I	1.0	1.5
16	Nitrate as NO ₃	IS 3025 (Part 34/Sec 1) : 2023 Clause 6.4	19.67	16.25	mg/I	45	No Relaxation
17	Iron as Fe	APHA 24º Edition, 3111 B, 2023	0.24	0.20	mg/l	1.0	No Relaxation
18	Potassium	APHA 24* Edition, 3500 K 2023	22.0	16.9	mg/l		THE REPORTED IN
19	Boron	APMA, 24* Edition, 4500 B-C : 2023	*#LQ[**LQQ 0.2]	*BLO(**LOO 0.2)	mg/l	0.5	2.4
20	Hexavalent Chromium as Cr+6	APILA, 24th Edition, 3500 Cr- 8:2023	*Br0(**ro0	.Brd(rod	mg/l	0.05	No Relaxation
21	Nickel	APHA, 24 th Edition, 3111 B : 2023	*BLQ[**LOQ	Brólrod	mg/l	.0.02	No Relaxation
22	Electrical Conductivity	IS 3025 (Part 14):2013 RA:2019	1040	1170	μs/cm	E#15	25
23	Zinc as Zn	APHA, 24th Edition, 3111 B : 2023	*BLO(**LO0 0.2)	*BLQ(**L0Q 0.2)	mg/l	5	15
24	Copper as Cu	APHA, 24* Edition, 3511 B : 2023	*Brd(**rod	*BLQ(**LOQ 0.02)	mg/t	0.05	1.5
25	Cadmium as Cd	APHA, 24th Edition, 3111 B : 2023	*RLQ(**LOQ 0.002)	*BLQ[**LOQ 0.002)	mg/l	0.003	No Relaxation
26	Lead as Pb	APHA, 2411 Edition, 3111 B : 2023	*BLQ(**L0Q 0.005)	*8LQ(**LOQ 0.005)	mg/l	0.01	No Relaxation
27	Total Coliform	IS 15185 2016	Absent	Absent	Per	Shall not be:	Detectable in
28	E. Coli *BLQ-Below Limit	IS 15185 : 2016	Absent	Absent	100 ml	Shall not be Detectable in Any 100 ml sample	





RK Yaday Lab Incharge **Authorized Signatory**

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

Vibrant Techno Lab Pvt. Ltd.

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9929108691, 9810205356, 8005707098, 9549956601

C 0141-2954638

m bd@vibranttechnolab.com



Sample Number:

Sample Description:

Sample Collected by:

Parameter Required:

Preservation:

Name & Address of the Party:

VTL/W/09-10

M/s JK Cement Works, Panna

Vibrant Techno Lab Representative

(A Unit Of JK Cement Ltd.) Kakra-Panna Limestone

Mines Village-Harduwaken Tehsil-Amangani PIN-

488441 Dist-Panna

Suitable Preservation

As Per Work Order

Ground Water

Report No.:

VTL/W/2501230024-25

Format No.:

7.8 F-01

Party Reference No.:

NO.

Report Date: Period of Analysis:

28/01/2025

23 to 28/01/2025

Receipt Date:

23/01/2025

Sampling Date:

18/01/2025

Limits of IX:10500-2012

Sampling Quantity:

2.0Ltr.+ 250 ml

Sampling Type:

Grab

ampling Protocol:		APHA 24th Edition 1060, 2023			

						STATISTICS AND LA	The Property of the Party of th
S.No.	Parameters	Test-Method	Amanganj	Bhupatpura Village	Unit	Requirement (Acceptable Limits)	Permissible Limit in the Absence of Alternate Source
1	pH (st 25°C)	IS 3025 (Part 11) : 2022	7.38	7.42		6.5 to 8.5	No Relaxation
- 2	Colour	IS 3025 (Part 4): 2021	"BLQ(""LOQ 1.0)	"BLQ(""LOQ 1.0)	Hazen	5	1.5
3	Turbidity	15 3025 (Part 10) : 2023	"BLQ(""LOQ 1.0)	*BLQ(**LOQ 1.0)	NTU	1	- 5
4	Odour	IS 3025 (Part 5) : 2010	Agreeable	Agreeable	9-5	Agreeable	Agrecable
.5	Temperature	IS 3025 (Part 9): 2023:	24.2	24.4	100	-	**
6	Total Hardness as CaCO ₃	IS 3025 (Part 21): 2009, RA: 2019	252.0	275.0	mg/l	200	600
7	Calcium as Ca	ES 3025 (Part 40):2024	57.0	66.0	mg/l	75	280
8	Alkalimity as CaCO ₂	IS 3025 (Part 23): 2023	95.6	110.2	reg/I	200	600
9	Chloride as Cl	IS 3025 (Part 32): 1988, RA: 2019	152.0	173.0	mg/l	250	1000
10	Residual free Chlorine	IS 3025 (Part 26) : 2021 Clause 7.0	_Brd(rod 0'5)	.Brd(rod ors)	mg/l	9.2	1
11	Phosphate	IS 3025 (Part 31)	"BLQ(""LOQ 0.2)	*BLQ(**LOG 0.2)	mg/l		
12	Magnesium as Mg	IS 3025 (Part 46):2023	26.68	26.81	mg/l	30	100
13	Total Dissolved Solids	IS 3025 (Part 16) :2023	760.0	790.0	mg/l	500	2000
3.4	Sulphate as 50.	RS 3025 (Part 24/Sec 1): 2022 Clause 5.0	65.31	73.92	mg/i	200	400
15	Fluoride as F	APHA, 24º Edition, 4500F-D : 2023	0.46	0.53	mg/l	1.0	1.5
16	Nitrate as NO ₃	IS 3025 (Part 34/Sec 1): 2023 Clause 64	24.82	23.16	æg/1	45	No Relaxation
17	Iron as Fe	APHA 24th Edition, 3111-B, 2023	0.28	0.31	mg/l	1.0	No Relaxation
18	Potassium	APHA 24th Edition, 3500 K,2023	19.87	21.85	mg/l		The same of the con-
19	Boren	APHA, 24th Edition, 4500 B-C: 2023	"BEO(""LOO 0.21	"BLQ(""LOQ 0.2)	mg/l	0.5	2.4
20	Hexavalent Chromium as Cr+6	APHA, 24* Edition, 3500 Cr- B:2023	*BLQ(**LOQ 0.05)	.Bró(rod	mg/l	0.05	No Relaxation
21	Nickel	APNA, 24º Edition, 3111 8 : 2023	.Brd(rod	*BLQ[**LOQ 0.01)	mg/l	0.02	No Relaxation
22	Electrical Conductivity	IS 3025 (Part 14):2013 RA:2019	1180	1240	µs/cm		***
23	Zinc as Zn	APHA, 24* Edition, 3111 B : 2023	"BLQ(""LOQ 0.2)	*BLQ(**LOQ 0.2)	mg/l	S	15
24	Copper as Cu	APHA, 24° Edition, 3111 B : 2023	*BLQ(**LOQ 0.02)	"BLQ(""LOQ 0.0Z)	mg/l	0.05	1.5
25	Cadmium as Cd	APHA, 24 th Edition, 3111 B : 2023	*BLQ(**LOQ 0.002)	*Brd(**rod	mg/l	0.003	No Relaxation
26	Lead as Pb	APHA, 24th Edition, 3111 B : 2023	*8LQ(**LOQ 0.005)	*BLQ(**LOQ 0.005)	mg/l	0.01	No Relaxation
27	Total Coliform	IS 15185 : 2016	Absent	Absent	Per	Shall not be D	
28	E. Coli	IS 15185 : 2016 of Quantification, **LOO-Limit of Owan	Absent	Absent	100 ml	Any 100 m	

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



Approved & Certified PPA 1986 Recognised, ISO:9001 at #5/45:45001 Certified

Vibrant Techno Lab Pvt. Ltd.

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9929108691, 9810205356, 8005707098, 9549956601

2 0141-2954638

RK Yadav Lab Incharge Authorized Signatory

bd@vibranttechnolab.com



Name & Address of the Party:

VTL/W/11-12

M/s JK Cement Works, Panna

(A Unit Of JK Cement Ltd.) Kakra-Panna Limestone Mines Village Hardowaken Tehsil-Amanganj PIN-

488441 Dist-Panna

Ground Water

Report No.:

VII./W/2501230026-27

Permissible

Limit to the

Absence of

Alternate. Sperce

No Relaxation

15

5

Agreeable

600

Format No.:

7.8 F-01

Party Reference No.: Report Date:

NIL

Period of Analysis:

28/01/2025 23 to 28/01/2025

Receipt Date:

23/01/2025

Sampling Date:

18/01/2025

Sampling Quantity:

2.0Ltr.+ 250 ml

Sampling Type:

Grady

200

Sample Collected by:

Sample Description:

Preservation:

Parameter Required:

Sampling Protocol:

Vibrant Techno Lab Representative

Suitable Preservation As Per Work Order

APRA 24" Edition 1060, 2023

Limits of IS-10500-2012 Mahodikh S.No. **Parameters** Test-Method Umri Village Requirement Unit Village (Acceptable Limits) 1 pH (at 25%) IS 3025 (Part 11): 2022 7.35 7.40 6.5 to 8.5 Colour IS 3025 (Part 4): 2021 "BLQ(""LOQ LO) *8LQ(**LOQ LO) Happy IS 3025 (Part 10) : 2023 3 **Turbidity** *BLQ(**LOQ 1.0) *BLQ(**L0Q L0) NTU 4 Odoor IS 3025 (Part 5): 2018 Agrecable Agresable air. Agreeable 5 Temperature IS 3025 (Part 9): 2023 24.5 6 Total Hardness as IS 3025 [Part 21]: 2009, RA: 2019 162.0 175.0 mg/1

1000	CarCOs	Concrete and control of the control	00000000	The DATASET.	1.77-66-71	0.0000000	5000
7	Calcium as Ca	ES 3025 (Part 40) :2024	45.0	51.0	mg/i	75	200
8	Alkalinity as CaCO _V	15 3025 (Part 23): 2023	63.8	56.3	mg/I	200	600
9	Chloride as CI	IS 3025 (Part 32): 1988, RA: 2019	72.4	87.1	mg/l	250	1000
10	Residual free Chloring	15 3025 (Part 26) : 2021 Clause 7.0	*Brd(**rod 0'S)	"BLQ(""LOQ 0.2)	mg/l	0.2	1
11	Phosphate	IS 3025 (Part 31)	"BLQ("L0Q 0.2)	"BLO(""LOO 0.2)	mg/I		-
12	Magnesium as Mg	IS 3025 (Part 46):2023	12.08	11.60	mg/l	30	100
1.3	Total Dissolved Solids	IS 3025 (Part 16) :2023	615.0	690.0	mg/l	500	2000
14	Sulphace as SO ₄	IS 3025 (Part 24/Sec 1): 2022 Clause 5.0	61.39	67.85	mg/I	200	100
15	Fluoride as F	APHA, 24th Edition, 4508F-D: 2023	0.37	0.47	mg/l	1.0	1.5
16	Nitrate as NO ₃	IS 3025 (Part 34/Sec 1): 2023 Clause 6.4	15.62	18.58	mg/l	45	No Relaxation
17	Iron as Fe	APRA 24th Edition, 3111 B, 2023	0.24	0.41	mg/l	1.0	No Relaxation
18	Potassium	APHA 24* Edition, 3500 K,2023	15.20	19.38	mg/l	100	- 44
19	Boron	APHA, 24" Edition, 4500 B-C r 2023	*BLQ(**LOQ 0.2)	*BLQ(**L0Q 0.3)	mg/l	0.5	2.4
20	Hexavalent Chromium as Cr+6	APHA, 24° Edition, 3590 Cr- B:2023	*BLQ[**LOQ 0.05)	*BLQ(**LOQ 0.05)	mg/l	0.05	No Relaxation
21	Nickel	APHA, 24* Edition, 3111 II : 2023	*BLQ(**LOQ	*BLQ(**LOQ	mg/l	0.02	No Relaxation
22	Electrical	IS 3025 (Part 14):2013 RA:2019	950	7110	µs/cm	1177	-

950

"BLQ(""LOQ 0.2)

BLQ("TLOQ

0.02)

"BLQ(""LOQ

0.0023

.Brd(...rod

0.005)

Absent

15 15185 : 2016 Absent *BLQ-Below Limit of Quantification, **LOQ-Limit of Quantification

APHA, 24th Edition, 3111 B: 2023

APHA, 24" Edition, 3111 ft; 2023

APHA, 24* Edition, 3111 B: 2023

APNA, 24" Edition, 3111 B: 2023

IS 15185 : 2016

LAB A JAIPUR

RK Yaday Lab Incharge Authorized Signatory

reg/l

mg/l

mg/I

mg/i

Per

100 ml

5

0.65

0.003

0.01

15

1.5

No

Relaxation

No

Relaxation

Shall not be Detectable in

Any 100 ml sample

1110

"BLQ(""LOQ 0.2)

.Rrd(...rod

0.02)

BLQ(**LOQ

0.002)

HLQ("LOQ

0.005)

Absent.

Absent

Conductivity

Copper as Cu

Cadmium as Cd

Zinc as Zn.

Lead as Pb

Total Coliforni

23

24

25

25

22

28

Approved & Certified PPA 1986 Recognised, ISO:9001 and ORSAS:45001 Certified

Vibrant Techno Lab Pvt. Ltd.

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9929108691, 9810205356, 8005707098, 9549956601

C 0141-2954638

bd@vibranttechnolab.com



Sample Description:

Sample Collected by:

Parameter Required:

Sampling Protocol:

Preservation:

Name & Address of the Party:

VTL/ W/13

M/s JK Cement Works, Panna

(A Unit Of JK Cement Ltd.) Kakra-Panna Limestone Mines Village-Harduwaken Tebsil-Amangani PIN-

488441 Dist-Panna

Ground Water

Report No.: Format No.: VTL/W/2501230028

7.8 F-01

Party Reference No.: MIL.

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

Sultable Preservation

As Per Work Order

APHA 24th Edition 1060, 2023

Vibrant Techno Lab Representative

Sampling Type: Grab

S.No.			CALL SELECT		Umits of t	5-10500-2012	
	Parameters	Test-Method	Hardus Village	Unit	Requirement (Acceptable Limits)	Permissible Limit in the Absence of Absence Source	
1	pH (at 25°C)	IS 3025 (Part 11) : 2022	7.42	-	6.5 to 8.5	No Relaxation	
2	Colour	IS 3025 (Part 4): 2021	*BLQ(**LDQ 1.8)	Hanen	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	Temperature	IS 3025 (Part 9): 2023	24.5				
6	Total Hardness as CaCO ₃	IS 3025 (Part 21) : 2009, RA : 2019	193.0	mg/I	200	600	
7	Calcium as Ca	IS 3025 (Part 40) 2024	\$5.0	mg/1	75	280	
8	Alkalinity as CaCO ₁	IS 3025 (Part 23) : 2023	73.1	mg/l	200	600	
9	Chloride as Cl	IS 3025 (Part 32): 1988, RA: 2019	92.8	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	Phosphate	IS 3025 (Part 31)	*BLQ(**L00 0.2)	mg/l			
17	Magnesium as Mg	IS 3025 (Part 46): 2023	11.12	mg/l	30	100	
13	Total Dissolved Solids	IS 3025 (Part 16) 2023	750.0	mg/l	500	2000	
14	Sulphate as SO ₄	IS 3025 (Part 24/Sec 1): 2022 Clause 5.0	59.6	mg/l	200	400	
15	Fluoride as F	APHA, 24th Edition, 4500F-D (2023)	0.63	mg/I	1.0	1.5	
16	Nitrate as NO ₂	IS 3025 (Part 34/Sec 1) : 2023 Clause 6.4	36.71	mg/l	45	No Relaxation	
17	Iron as Fe	APHA 24th Edition, 3111 B, 2023	0.38	me/i	1.0	No Relaxation	
18	Potassium	APHA 24th Edition, 3500 K,2023	25.14	ma/l		-	
19	Boron	APHA, 24th Edition, 4500 B-C: 2023	*BL0(**L00:0.2)	mg/l	0.5	2.4	
20	Hexavalent Chromium as Cr+6	APHA, 24° Edition, 3500 Crs 8:2023	*8rd(**rod 002)	mg/I	0.05	No Relaxation	
21	Nickel	APHA, 24° Edition, 3111 B : 2023	*8rd(**rod 0:01)	mg/l	0.02	No Relaxation	
22	Electrical Conductivity	IS 3025 (Part 14):2013 RA:2019	1170	µs/cm	100	4	
23	Zinc as Zn	APHA, 24* Edition, 3111 8 : 2023	*BLQ(**L0Q 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	Cadmium as Cd	APHA, 24th Edition, 3111 B : 2023	*BLQ(**LOQ 0.002)	mg/l	0.003	No Relaxation	
26	Lead as Pb	APHA, 24th Edition, 3111 B : 2023	*BLQ(**L00 0.005)	mg/l	0.01	No Relaxation	
27	Total Coliform	IS 15185 ; 2016	Absent	Per 100		Detectable in	
28	*BLQ-Below Limit of Quar	IS 15185 : 2016	Absent	ml	Any 100 mt sample		





RK Yadav Lab Incharge Authorized Signatory

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

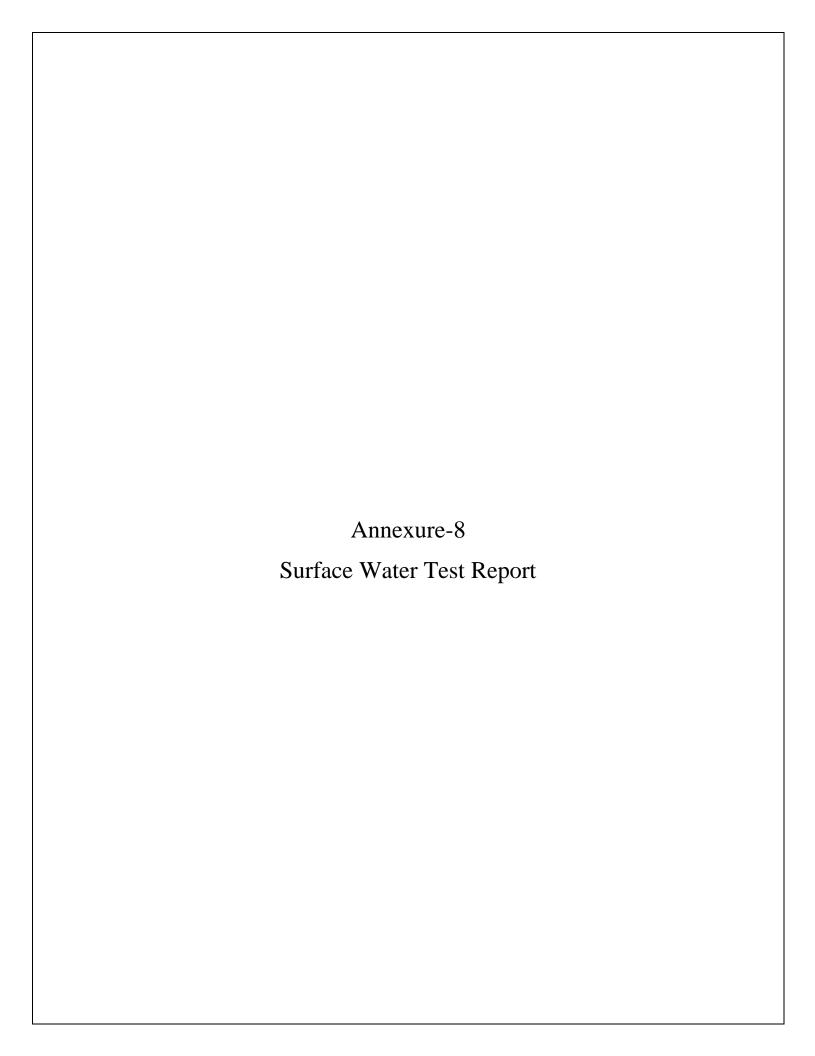
9 SC-40, 3rd Floor, Narayan Vihar S, Ajmer Road, Jaipur Raj. 302020

9929108691, 9810205356, 8005707098, 9549956601

2 0141-2954638

bd@vibranttechnolab.com









Sample Number:

Name & Address of the Party:

Sample Description:

Sample Collected by: Preservation: Parameter Required: Sampling and Analysis Protocols VTL/SW/01-03

M/s JK Cement Works, Panna

(A Unit Of JK Cement Ltd.) Kakra- Panna Limestone Mines

Village-Hardowaken Tehsil-Amanganj PIN-488441 Dist-

Panna

Surface Water

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

Report No.:

Format No.:

Party Reference No.: Report Date:

Period of Analysis:

Receipt Date: Sampling Date:

Sampling Quantity: Sampling Type:

VTL/W/2411170030-32

7.8 F-01 NIL

25/11/2024

17 to 25/11/2024

17/11/2024

16/11/2024 2.0Ltr.+ 250 ml

Grab

S. No.	Parameter	Test Method	Pond Near Pagra Village	Kes River Near Tighra Village	Beteba Nalla Near Suralpur	Vait
Physi	cal Parameters	Will Leaving with the 12		Light Fillings	341 apput	-
1	pH (at 25 °C)	IS 3025 (P-11): 2022	7.62	7.57	7.69	
2	Colour	IS 3025(P-4): 2021	7	6	10	Hazen
3.	Turbidity	IS 3025 (P-10): 2023	12	16	14	NTU
Chem	ical Parameters (mg/l)					I MIO
4.	Total Hardness as CaCO ₃	IS: 3025 (P-21): 2009,RA: 2019	153.00	167.00	134.00	mg/l
5.	Alkalinity as CaCO ₃	IS: 3025 (P-23): 2023	68.00	58.00	49.00	
6	Chloride as Cl	IS: 3025(Part 32):1988, RA:2019	38.76	32.15	28.41	mg/l
7.	Total Dissolved Solids	IS 3025 (P-16): 2023	360	290	320	mg/l
8.	Sulphate as \$04	IS: 3025 (P-24): Sec.1 : 2022	15.12	19.67	17.38	-
9.	Fluoride as F	APHA (23rd Edition). 4500FD:2017	0.23	0.18	0.25	mg/l
10:	Nitrate as NO ₃	15: 3025 (P-34); 1988.(Chromotropic Method) Sec. 4 RA: 2022	5.48	6.20	\$.32	mg/l
TE	Iron as Fe	APHA (23" Edition),31138: 2017	0.23	0.31	0.26	mg/l
12.	Chromium as Cr+6	APHA (23rd Edition),3500 CR-B	*BLQ(**LOQ-0.05)	*Brd(rod-araz)	"BLQ[**L0Q-0.05]	mg/l
13.	Phenolic Compounds	APHA 23" Edition, 2017, 5530 C	*860(**600-0.001)	"BLQ(""LOQ-0.001)	*8LQ(**LOQ-0.001)	mg/l
14.	Zinc as Za	APHA (23 rd Edition),3111 B: 2017	0.35	0.20	0.32	mg/l
15.	Copper as Cu	APHA (23rd Edition),3111 8: 2017	*BLQ(**LOQ-0.02)	*8LQ(**LOQ-0.02)	*BLQ(**L0Q-0.02)	mg/l
6.	Cadmium as Cd	APHA (23* Edition),3111 B: 2017	*BLQ(**LOQ-0.002)	*BLQ(**LOQ-0.002)	"BLQ(""LOQ-0.002)	mg/l
17.	Lead as Pb	APHA (23™ Edition),3111 B; 2017	*BLQ(**LOQ-0.005)	*BLQ(**LOQ-0.005)	"BLQ(""LOQ-0.005)	mg/I
8.	Arsenic as As	APHA (23** Edition) 3114C 2017	*BLQ(**L0Q-0.005)	*BLQ(**LOQ-0.005)	"8LQ(""LOQ-0.005)	mg/l
0.	Mercury as Hg	APHA (23 Edition)3112 8,2017	*810(**100-0.001)	*BLQ(**LOQ-0.001)	"BLQ(""LOQ-0.001)	mg/l
0.	Oll & Grease	IS:3025(P-39)	*BLQ(**LOQ-4.0)	*BLQ(**L0Q-4.0)	"8LQ(""LOQ-4.0)	mg/I
1	BOD (3days at 27°C)	IS:3025(P-44):1993, RA:2019	10.12	8.67	12.53	mg/l
2	сов	IS:3025(P-58):2006, RA:2017	40.0	35.0	48.0	mg/l
3,	DO	IS:3025(P-38):1989, RA:2019	6.1	5.9	5,4	mg/l
	TSS	IS:3025(P-17):2021	53	47	39	
licrob	lological Parameters				37	mg/l
	Total Celiform	IS 15185: 2016	Present	Present	Present	1 Out of the
6	Faecal Coliform	IS-15185: 2016 of Quantification, **LOQ- Limit of	Present	Present	Present	Present/Abs of per 100 m

JAIPUR

RK Yadav Lab Incharge Authorized Signator

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 Rej. 302020

9929108691, 9810205356, 8005707098, 9549956601

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bd@vibranttechnolab.com





Sample Number:

Name & Address of the Party:

Sample Description:

Sample Collected by: Preservation Parameter Required: Sampling and Analysis Protocol: VTL/SW/04-06

M/s JK Cement Works, Panna

(A Vent Of JK Cement Lod.) Kalora- Panna Limestone Mines Village-Harduwaken Tehsil-Amangani PIN-489441 Dist-

Panna Surface Water

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

Report No.:

VTL/W/2411170033-35 7.8F-61

Format No.: Party Reference No.:

Report Date:

MIL 25/11/2024

Period of Analysis:

17 to 25/11/2024

Receipt Date:

17/11/2024

Sampling Dates Sampling Quantity:

16/11/2024 2.0Ltr.+ 250 ml

Sampling Type:

Grab

S. Mo.		Test Method	Mirhasan River Near Amangani	Ken River Near Singaura Village	Sonar River Near Village Santa	Unit
	ical Parameters	Distriction measures and	The state of the s	The state of the s	Senia	
1.	pH (at 25 °C)	IS 3025 (P-11): 2022	7.51	7.39	7.46	1 -
2	Colour	(\$ 3025(P-4): 2021	7	9	6	Hazen
3.	Turbidity	IS 3025 (P-10): 2023	13	7	10	NTU
	nical Parameters (mg/l)				100	1 800
4	Total Hardness as CaCO ₃	IS: 3025 (P-21): 2009,RA: 2019	139.00	112.00	147.00	mg/l
5.	Alkalinity as CaCO ₂	IS: 3025 (P-23): 2023	\$6.00	43.00	60.53	mg/l
6	Chioride as Cl	IS: 3025(Part 32):1998, RA:2019	41.24	37.82	39.68	mg/l
7	Total Dissolved Solids	IS 3025 (P-16): 2023	410	325	448	mg/I
8.	Sulphate as 50.	IS: 3025 (P-24): Sec.1 : 2022	15.46	12.17	18.37	100
9.	Fluoride as F	APHA (23rd Edition), 4500FD:2017	0.16	0.13	0.15	mg/l
10.	Nitrate as NO ₃	IS: 3025 (P-34): 1988,(Chromotropic Method) Sec. 4 RA: 2022	7.54	6.28	8.67	mg/l
n.	Iron as Fe	APHA (23 rd Edition),3113B: 2617	0.21	0.17	0.25	mg/l
12.	Chromium as Cr+6	APHA (23 ⁻⁰ Edition),3500 CR-B	*Bró(rod-0'02)	*Bró(*,rod-a'az)	"8LQ(""L0Q-0.05)	Ng/I
13.	Phenolic Compounds	APHA 23= Edition,2017,5530 C	"81.0(""1.00-0.001)	"8LQ(""L0Q-0.001)	"BLQ(""LOQ-0.001)	mg/I
14.	Zinc as Zn	APNA (23≈ Edition),3111 B: 2017	0.29	0.33	0.30	mg/l
15.	Copper as Cu	APHA (23 rd Edition).3111 B: 2017	*BLQ(**LOQ-0.02)	*BLQ(**LOQ-0.02)	*Brd(**rod-0.05)	mg/l
16.	Cadmium as Cd	APHA (23 rd Edition),3111 B: 2017	*BLQ(**LOQ-0.002)	"BLQ(""LOQ-0.002)	*Brd(**rod-erees)	mg/l
17.	Lead as Pb	APHA (23 rd Edition),3111 B: 2017	*BLQ(**LOQ-0.005)	"RLQ(""LOQ-0.005)	*8LQ(**LoQ-0.005)	mg/l
18.	Arsenic as As	APRA (23" Edition) 3114C 2017	*8LQ(**LOQ-0.005)	*8LQ(**LOQ-0.005)	*BLQ(**L0Q-0.005)	ng/l
9.	Mercury as Hg	APHA (23 rd Edition)3112 B.2017	"BLQ(""LOQ-0.001)	.8rd(.,rod-0:001)	*8LQ(**LOQ-0.001)	mg/l
0.	Oll & Grease	IS-3025(P-39)	*8LQ[**L0Q-4.0)	*BLQ(**L00-4.0)	"BLQ(""LOQ-4.0)	200
1	BOD (3days at 27°C)	IS:3025(P-44):1993, RA:2019	12.0	9.0	14.0	mg/l mg/l
2.	COD	IS:3025(P-58):2006, RA:2017	50.0	37.0	56.0	mg/l
3.	DO	IS:3025(P-38):1989, 8A:2019	5.7	6.4	5.3	mg/l
4.	TSS	15:3025(P-17):2021	53	49	60	
	biological Parameters					mg/l
	Total Coliform	15:15185: 2016	Present	Present	Present	On the second second
5.	Feecal Coliform	15:15:185: 2016	Present	Present	Present	Present/Abs

JAIPUR

RK Yaday 5 Lab Incharge **Authorized Signato**

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

Vibrant Techno Lab Pvt. Ltd.

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- 9929108691, 9810205356, 8005707098, 9549956601

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Sample Number:

Name & Address of the Party:

Sample Description:

Sample Collected by: Preservations

Parameter Required: Sampling and Analysis Protocol: VTL/SW/07-08

M/s JK Cement Works, Panna

(A Unit Of JK Coment Ltd.) Kakra- Panna Limestone Mines Village-Harduwaken Tehsil-Amangani PIN-488441 Dist

Surface Water

Vibrant Techno Lab Team

Suitable Preservation

As Per Work Order APHA 24º Edition 2023 Report No.:

VTL/W/2411170936-38 7.8 F-01

Format No.:

Party Reference No.:

MIL

Report Date:

25/11/2024

Period of Analysis:

17 to 25/11/2024

Receipt Date:

17/11/2024

Sampling Date: Sampling Quantity:

16/11/2024 2.0Ltr.+ 250 ml

Sampling Type:

Grab

S. No.	Parameter	Test Method	Pond Near Chilchia Village	Pond Near Umri Village	Nala Neur Deora Village	Unit
Physic	cal Parameters			Time Be		The second of the
1	pB (at 25 °C)	IS 3025 (P-11): 2022	7.42	7.15	7.28	1
2	Colour	IS 3025(P-4): 2021	6	9	7	Hazen
3.	Turbidity	IS 3025 (P-10): 2023	15	19	10	NTU
	ical Parameters (mg/l)					1 110
4.	Total Hardness as CaCO ₂	IS: 3025 (P-21): 2009,RA: 2019	195.00	208.00	121.00	mg/t
5.	Alkalinity as CaCO ₁	IS: 3025 (P-23): 2023	66.34	55,20	40.74	mg/l
6.	Chloride as Cl	IS: 3025(Part 32):1988, RA:2019	53.17	38.37	46.10	mg/l
7.	Total Dissolved Solids	IS 3025 (P-16): 2023	375	326	286	/Ngm
8.	Sulphate as SO.	IS: 3025 (P-24): Sec.1 : 2022	16.41	13.18	18.67	
9	Fluoride as F	APHA (23rd Edition). 4500FD:2017	0.21	0.17	0.24	mg/l mg/l
10.	Nitrate as NO ₂	IS: 3025 (P-34): 1998.(Chromotropic Method) Sec. 4 8A: 2022	7,89	8.16	10.14	mg/l
11.	iron as Fe	APHA (23rd Edition),3113B; 2017	- 0.29	0.16	0.31	ng/l
12.	Chromium as Cr+6	APHA (23" Edition),3500 CR-8	*8rd(**rod-aos)	*Brd(**rod-0.05)	*BLQ(**LOQ-0.05)	mg/l
13.	Phenolic Compounds	APMA 23* Edition.2017, 5530 C	"8LO(""LOG-0.001)	"BLQ(""LOQ-0.001)	"BLQ(""L0Q-0.001)	mg/l
14.	Zinc as Zo	APHA (23 rd Edition),3111 B: 2017	0.34	0.20	0.28	mg/l
15.	Copper as Cu	APHA (23 rd Edition),3111 B: 2017	"BLQ(""LOQ-0.02)	*BLQ(**LOQ-0.02)	*BrO(rod-0.05)	mg/l
16.	Cadmium as Cd	APHA (23" Edition),3111 B: 2017	*BLQ(**LOQ-0.002)	*8LQ(**L0Q-0.002)	"BLQ(""LOQ-0.002)	mg/l
17.	Lead as Pb	APHA (23" Edition) 3111 B: 2017	.ard(rod-0.002)	"BLQ(""L0Q-0.005)	*8LQ(**LOQ-0.005)	mg/l
18.	Arsenic as As	APHA (23 ⁻⁴ Edition13114C2017	*BLQ(**LOQ-0.005)	*Brd(**rod-0.005)	*8EQ(**LOQ-0.005)	mg/l
19.	Mercury as Hg	APHA (23 Edition)3112 B.2017	*8rd(**rod-0.001)	*BLQ(**LOQ-0.001)	*8LQ(**LOQ-0.001)	mg/l
00.	Oll & Grease	IS(3025(P-39)	*8LQ(**L0Q-4.0)	*BLQ(**L0Q-4.0)	*BL0(**L00-4.0)	mg/l
i.	BOD (3days at 27°C)	IS:3025(P-44):1993, RA:2019	14.72	11.81	9.64	mg/l
12.	COD	IS:3025(P-58):2006. RA:2017	\$5.0	46.0	38.0	mg/l
3.	DO	IS:3025(P-38):1989, RA:2019	6.7	7.1	6.5	mg/l
4.	TSS	IS:3025(P-17):2021	70	62	53	
dicrob	tological Parameters			Va.	.0.0	mg/l
5.	Total Coliform	18:15185: 2016	Present	Present	Present	Present/Alto
6	Faecal Coliform	(\$:15185:2016	Present	Present	Present	nt per 100 m

LAB

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

RK Yadav Lab Incharge **Authorized Signato**

Vibrant Techno Lab Pvt. Ltd.

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Sample Number:

Name & Address of the Party:

Sample Description:

Sample Collected by: Preservation: Parameter Required:

Sampling and Analysis Protocol:

VTL/SW/01-03

M/s JK Cement Works, Panna

(A Unit Of JK Cement Ltd.) Kakra-Panna Limestone Mines Village-Barduwaken Tehsil-Amangani PIN-488441 Dist-

Panna Surface Water

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

Report No.:

Format No.:

Party Reference No.: Report Date:

Period of Analysis:

Receipt Date: Sampling Date:

Sampling Quantity: Sampling Type:

VTL/W/2411170039-61

7.8 F-01

MIL

25/11/2024 17 to 25/11/2024

17/11/2024

16/11/2024

2.0Ltr.+ 250 ml

Grab

S. No.	Parameter	Test Method	Pond Near Amangani	Berma River Near Gaisabad Village	Pond Puraina Village	Unit
_	ical Parameters	The control of the second				2000
L	pH (at 25 °C)	IS 3025 (P-11): 2022	7.39	7.25	7.61	1
7.	Colour	IS 3025(P-4): 2021	7	g	15	Hapen
3.	Turbidity	15 3025 (P-10): 2023	11	17	13	NTU
	rical Parameters (mg/l)			1	- 10	NIU.
4.	Total Hardness as CaCO ₃	IS: 3025 (P-21): 2009,RA: 2019	172.00	141.00	186.00	mg/l
5.	Alkalinity as CaCO ₂	85: 3025 (P-23): 2023	78.00	84.00	92.00	-
6	Chloride as Cl	IS: 3025(Part 32):1988, RA:2019	41.15	35.27	46.81	mg/l
7.	Total Dissolved Solids	IS 3025 (P-16): 2023	346	356	459	mg/l
8.	Sulphate as SO ₄	IS: 3025 (P-24): Sec.1 : 2022	18.04	10.94	22.67	100
9,	Fluoride as F	APHA (23rd Edition), 4500FD:2017	0.24	0.19	0.33	Ngm Ngm
10.	Nitrate as NO ₂	IS: 3025 (P-34): 1988 (Chromotropic Method) Sec. 4 RA: 2022	917	11.36	14.97	ing/l
11.	Iron as Fe	APHA (21rd Edition),3113B; 2017	0.26	0.17	0.23	mg/l
12	Chromium as Cr+6	APHA (23™ Edition),3500 CR-8	*Brd(**rod-0.05)	.8rd(rod-a'o2)	*BLQ(**LOQ-0.05)	mg/l
13.	Phenolic Compounds	APHA 23" Edition,2017, 5530 C	"BLQ(""LOQ-0.001)	"8LQ(""L00-0.001)	"BL0(""L00-0.001)	
4.	Zinc as Zn	APHA (23 rd Edition),3111 B: 2017	0.33	0.25	0.41	mg/l
15,	Copper as Cu	APHA (23 rd Edition),3111 B: 2017	*BLQ(**LOQ-0.02)	*Brd(**rod-e.es)	*BLQ(**LOQ-0.02)	mg/l
16.	Cadmium as Cd	APHA (23 rd Edition),3211 B: 2017	*BLQ(**LOQ-6.002)	.8rd(rod-q:qq5)	*BLQ(**LOQ-0.002)	mg/l
17.	Lead as Pb	APHA (23" Edition) 3111 B: 2017	*8r6(**rod-0.005)	*BLQ(**LOQ-0.005)	*8LQ(**LOQ-0.005)	mg/l
8.	Arsenic as As	APHA (23~ Edition).3114C.2017	"BLQ(""LOQ-0.005)	*BLQ(**LOQ-0.005)	*BLQ(**LOQ-0.005)	mg/l
9.	Mercury as Hg	APHA (23 rd Edition)3112 8.2017	.ard(rod-tres1)	*BrQ(**roq-0.001)	"BLQ(""LOQ-0.001)	mg/l
0.	Off & Grease	IS:3025(P-39)	"BLQ(""L0Q-4.0)	"BLQ(""LOQ-4.0)	*8LQ(**L0Q-4.0)	-
1	BOD (3days at 27°C)	IS:3025(P-44):1993, RA:2019	6.2	5.1	6.9	mg/l
2,	сов	IS:3025(P-58):2006, RA:2017	25.0	20.0	39.0	mg/l
3,	DO	IS:3025(P-38):1989, RA:2019	7.5	6.8	7.6	mg/l
4.	TSS	IS:3025(P-17)-2021	40	57	42	-
	dological Parameters				92	mg/l
5.	Total Colliform	15:15185: 2016	Present	Present		T Samuel Control
6.	Faecal Coliform ote: - "BLQ-Below Limit o	(5:15185: 2016	Present	Present	Present	Present/Abs nt per 100 m

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

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RK Vadav Lab Incharge Authorized Signat

bd@vibranttechnolab.com



Sample Number:

Sample Description:

Sample Collected by:

Parameter Required:

Sampling Protocol:

Preservations

Name & Address of the Party:

VTL/SW/01-03

M/s JK Cement Works, Panna

(A Unit Of JK Coment Ltd.) Kakra- Panna Limestone Mines Village-Harduwaken Tehsil-Amanganj PIN-488441 Dist

Panna

Surface Water

Vibrant Techno Lab Team

Suitable Preservation

As Per Work Order

APRA 24th Edition 1060, 2023

Report No.:

VTL/W/2501230030-32

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: Sampling Type:

2.0Ltr.+ 250 ml Grab

S. No.	1000100100000	Test Method	Pond Near Pagra Village	Ken River Near Tighra Village	Beteha Nalla Near Surajpur	Unit
Phys	ical Parameters	100-50-00-00-00-00-00-00-00-00-00-00-00-0		-	- Servingen	-
1	pH (at 25 °C)	IS 3025 (P-11): 2022	7.58	7.49	7.70	141
2	Colour	IS 3025(P-4): 2021	8	7	11	Haze
3.	Turbidity	IS 3025 (P-10): 2023	15	18	12	NTU
	ical Parameters (mg/l)		0.0520	27,002		-
*	Total Hardness as CaCO ₂	IS: 3025 (P-21): 2009,RA: 2019	161.00	172.00	145.00	mg/
5.	Alkalinity as CaCO ₁	IS: 3025 (P-23): 2023	75.00	64.00	52.00	mg/
6.	Chloride as CI	IS: 3025(Part 32):1988, RA:2019	48.12	38.54	29.98	mg/
7.	Total Dissolved Solids	IS 3025 (P-16): 2023	420	490	370	mg/
8.	Sulphate as SO ₄	IS: 3025 (P-24): Sec.1: 2022 (Clause 5.0)	18.42	22.84	14.27	ing/
9.	Fluoride as F	APHA (24th Edition), 4500FD:2023	0.25	0.31	0.22	mg/
10.	Nitrate as NO ₃	IS: 3025 (P-34): Sec 1: 2023 (Clause 6.4)	6.68	7.94	4.87	mg/
11.	Iron as Fe	APHA (24th Edition),3111B: 2023	0.28	0.37	0.25	ng/
12.	Chromium as Cr+6	APHA (24th Edition),3500 CR-B, 2023	*BLQ(**LOQ-0.05)	*BLQ(**LOQ-0.05)	*BLQ(**LOQ-0.05)	mg/
13.	Phenolic Compounds	APHA 24th Edition,2017, SS30 D :2023	*BLQ(**LOQ-0.05)	*BLQ(**LOQ-0.05)	*BLQ(**LOQ-0.05)	mg/
14.	Zinc as Zn	APHA (24th Edition),31118: 2023	0.41	0.48	0.35	mg/l
15.	Copper as Cu	APHA (24th Edition),31118: 2023	*BLQ(**L0Q-0.02)	*BLQ(**L0Q-0.02)	*BLQ[**L00-0.02]	mg/l
16.	Cadmium as Cd	APHA (24th Edition),3111B: 2023	*BLQ(**LOQ- 0.002)	*BLQ(**LOQ- 0.002)	*BLQ(**LOQ-0.002)	mg/l
17.	Lead as Pb	APHA (24th Edition),3111B: 2023	*BLQ(**LOQ- 0.005)	*BLQ(**LOQ- 0.005)	*BLQ(**LOQ-0.005)	mg/l
18.	Arsenic as As	APHA (24° Edition),3114C,2023	*BLQ(**LOQ- 0.005)	*BLQ(**LOQ- 0.005)	*BLQ(**LOQ-0.005)	mg/l
19.	Mercury as Hg	APHA (24th Edition)3112 B,2023	*BLQ(**LOQ- 0.001)	*BLQ(**LOQ- 0.001)	*Brd(**rod-0:001)	mg/l
20.	Off & Grease	IS:3025(P-39):2021	*BLQ(**L0Q-4.0)	*BLQ(**LOQ-4.0)	"8LQ(""L0Q-4.0)	mg/l
1	BOD (3days at 27°C)	IS:3025(P-44):2023	7.0	6.0	9.0	mg/1
22.	COD	IS:3025(P-58):2023	36.0	30.0	42.0	mg/l
3.	DO	IS:3025(P-38):1989, RA:2019	7.8	6.4	5.8	mg/l
4.	TSS	IS:3025(P-17):2022	28	32	30	mg/l
	biological Parameters (MPN/	100 ML)				1140
5.	Total Coliform	IS:15185: 2016	Present	Present	Present	Preser
26.	Faecal Coliform	APHA 24* Edition , 9221-C :2023	Present	Present	Present	t/Abse nt per 100 m

End of the report





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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- 9929108691, 9810205356, 8005707098, 9549956601

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bd@vibranttechnolab.com



Sample Number:

Sample Description:

Sample Collected by:

Parameter Regulred:

Sampling Protocol:

Preservation:

Name & Address of the Party:

VTL/SW/04-06

M/s IK Cement Works, Panna

Vibrant Techno Lab Team

Suitable Preservation

As Per Work Order

(A Unit Of JK Cement Ltd.) Hakra-Panna Limestone Mines

Village-Harduwaken Tehsil-Amanganj PIN-498441 Dist-

Panna

Surface Water

Report No.: Format No.: VTL/W/2501230033-35

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:

2.0l.tr.+ 250 ml

Sampling Type:

Grab

APHA 24th Edition 1060, 2023

Mirhasan River Near Ken River Near Sonar River Near Parameter. 5. No. Test Method Unit Village Santa Amangan) Singaura Village Physical Parameters IS 3025 (P-11): 2022 pH (at 25 °C) 7.50 7.31 Colour IS 3025(P-4): 2021 10 B 11 Haizen. 3 IS 3025 (P-10): 2023 Turbidity 18 15 22 NTU-Chemical Parameters (mg/l) IS: 3025 (P-21): 2009,RA: 2019 4. Total Hardness as 166.00 132.00 151.00 mg/il CaCO₁ 5 Alkalinity as CaCO₂ IS: 3025 (P-23): 2023 71.00 55.00 68.23 mg/l 6 Chloride as Cl IS: 3025(Part 32):1988, RA:2019 51.78 43.51 36.74 mg/l **Total Dissolved Solids** IS 3025 (P-16): 2023 460 410 510 mg/l 8 Sulphate as SO₄ IS: 3025 (P-24): Sec.1: 2022 17.24 15.48 22.54 mg/l (Clause 5.0) Q Fluoride as F APHA (24th Edition), 4500FD:2023 0.21 0.16 0.23 mg/l 10. Nitrate as NO2 IS: 3025 (P-34): Sec 1: 2023 9.78 7.14 11.24 mg/l (Clause 6.4) 11, Iron as Fe APHA (24th Edition),3111B: 2023 0.23 0.19 0.29 mg/l 12. Chromium as Cr+6 APHA (24th Edition),3500 CR-B. *BLQ(**LOQ-0.05) *BLQ(**LOQ-0.05) *BLQ(**LOQ-0.05) mg/l 2023 13. Phenolic Compounds APHA 24th Edition,2017, 5530 D *BLQ(**L0Q-0.05) *BLQ(**LOQ-0.05) *BLQ(**LOQ-0.05) mg/S :2023 14 Zinc as Zn APHA (24th Edition),3111B: 2023 0.34 0.28 0.38 mg/l 15 Copper as Cu APHA (24th Edition),31118: 2023 "BLQ(""LOQ-0.02) *BLQ(**LOQ-0.02) *BLQ[**LOQ-0.02) mg/l 16 Cadmium as Cd APHA (24th Edition),31118: 2023 *BLQ(**LOQ-*BLQ(**LOQ-*BLQ[**LOQmg/l 0.0021 0.002)0.0023 17 Lead as Pb APHA (24th Edition);3111B: 2023 *BLQ(**LOQ-*BLQ(**LOQ-*BLQ[**LOQmg/l 0.005) 0.0053 0.005)18 Arsenic as As APHA (24th Edition),3114C,2023 *BLQ[**LOQ-*BLQ(**L00-*BLQ(**LOQmg/l 0.005) 0.005)0.005)19. Mercury as Hg APHA (24th Edition)3112 B,2023 *BLQ(**LOQ-*BLQ(**LOQ-BLQ(**LOQmg/l 0.001) 0.001) 0.001)20. Oil & Grease IS:3025(P-39):2021 *BLQ(**LOQ-4.0) BLQ(**LOQ-4.0) *BLQ(**LOQ-4.0) mg/l 21. BOD (3days at 27°C) IS:3025[P-44]:2023 10.0 7.0 mg/l 22 IS:3025(P-58):2023 COD 42.0 32.0 53.0 mg/I 23 DO IS:3025(P-38):1989, RA:2019 6.7 5.6 7.9 mg/l 24 TSS 30 IS:3025(P-17):2022 42 34 mg/l Microbiological Parameters (MPN/100ML) 25 Total Coliform IS:15185: 2016 Present Present Present Present 26. Faecal Coliform APHA 24th Edition , 9221-C:2023 /Absen Present Present t per 100 ml

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

""End of the report""





RK Yadav Lab Incharge Authorized Signatury

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

Vibrant Techno Lab Pvt. Ltd.

- 9 SC-40, 3rd Floor, Narayan Vihar S, Ajmer Road, Jaipur Raj. 302020
- 9929108691, 9810205356, 8005707098, 9549956601

C 0141-2954638

bd@vibranttechnolab.com



Sample Number:

Sample Description:

Sample Collected by:

Parameter Required:

Sampling Protocol:

Preservation:

Name & Address of the Party:

VTL/SW/07-08

M/s JK Cement Works, Panna

(A Unit Of JK Cement Ltd.) Kakra-Panna Limestone Mines Village-Barduwaken Tebsil-Amanganj PIN-488441 Dist-

Surface Water

Party Reference No.:

Report No.:

Format No.:

VTL/W/2501230036-38

7.8 F-01

NIL

Report Date:

28/01/2025

Period of Analysis: Receipt Date:

23 to 28/01/2025

23/01/2025

Sampling Date: Sampling Quantity:

17/01/2025 Z.OLtr.+ 250 ml

Sampling Type:

Grab

Vibrant Techno Lab Team Suitable Preservation As Per Work Order

APHA 24th Edition 1060, 2023

S. No.	5777777	Test Method	Pond Near Chikhla Village	Pond Near Umri Village	Nala Near Deora Village	Unit
Phys	ical Parameters	Construction Control (Construction)		93/087		
1.	pH (at 25 °C)	IS 3025 (P-11): 2022	7.34	7.22	7.41	1 -
2.	Colour	IS 3025(P-4): 2021	8	10	12	Hages
3.	Turbidity	IS 3025 (P-10): 2023	20	18	24	NTU
	nical Parameters (mg/l)		A SULDOWN T	98550	2000	-
4.	Total Hardness as CaCO;	IS: 3025 (P-21): 2009,RA: 2019	230.00	187.00	250.00	mg/l
5	Alkalinity as CaCO ₂	IS: 3025 (P-23): 2023	78.35	52.86	63.59	mg/I
6	Chloride as Cl	IS: 3025(Part 32):1988, RA:2019	61.87	47.58	58.12	mg/l
7.	Total Dissolved Solids	IS 3025 (P-16): 2023	470	355	490	mg/l
8.	Sulphate as SO ₄	IS: 3025 (P-24): Sec.1:2022 (Clause 5.0)	18.20	15.24	20.15	mg/l
9.	Fluoride as F	APHA (24th Edition), 4500FD:2023	0.25	0.19	0.28	mg/l
10.	Nitrate as NO ₅	IS: 3025 (P-34): Sec 1: 2023 (Clause 6.4)	14.52	10.41	17.21	mg/l
11.	Iron as Fe	APHA (24th Edition),31118: 2023	0.92	0.25	0.37	mg/l
12.	Chromium as Cr+6	APHA (24th Edition),3500 CR-B, 2023	*BLQ(**LOQ-0.05)	*BLQ(**LOQ-0.05)	*BLQ(**LOQ-0.05)	mg/l
13.	Phenolic Compounds	APHA 24th Edition,2017, SS30 D :2023	*BLQ(**L0Q-0.05)	*BLQ(**LOQ-0.05)	*BLQ(**LOQ-0.05)	mg/l
14.	Zinc as Zn	APHA (24th Edition),31118: 2023	0.37	0.25	0.41	mg/l
15.	Copper as Cu	APHA (24th Edition),3111B: 2023	*BLQ(**L0Q-0.02)	*BLQ[**L0Q-0.02]	*BLQ(**LOQ-0.02)	mg/l
16.	Cadmium as Cd	APHA (24th Edition),31118: 2023	*BLQ(**LOQ- 0.002)	*BLQ(**LOQ-0.002)	*BLQ(**LOQ- 0.002)	mg/i
17.	Lead as Pb	APHA (24th Edition),31118: 2023	*BLQ(**LOQ- 0.005)	*BLQ(**LCQ-0.005)	*BLQ(**LOQ- 0.005)	tog/l
18.	Arsenic as As	APHA (24* Edition),3114C,2023	*BLQ(**LOQ- 0.005)	*BLQ(**LCQ-0.005)	*BLQ(**LOQ- 0.005)	mg/l
19.	Mercury as Hg	APHA (24th Edition)3112 B,2023	*BLQ(**LOQ- 0.001)	*BLQ[**LOQ-0.001)	*BLQ(**LOQ- 0.001)	mg/l
0.	Oil & Grease	IS:3025(P-39):2021	*BLQ(**LOQ-4.0)	*BLQ(**LOQ-4.0)	*BLQ(**LOQ-4.0)	mg/l
1.	BOD (3days at 27°C)	1S:3025(P-44):2023	10.0	9.0	7.0	mg/l
2.	COD	IS:3025(P-58):2023	46.0	43.0	33.0	mg/l
3.	DO	IS:3025(P-38):1989, RA:2019	7.1	7.8	9.2	mg/l
4.	TSS	IS:3025(P-17):2022	42	38	32	mg/l
	biological Parameters (MP)	N/100ML)	- Ann	7,000		-6/1
5.	Total Coliform	IS:15185: 2016	Present	Present	Present	Present
6.	Faecal Coliform	APHA 24 th Edition , 9221-C :2023	Present	Present	Present	/Absen t per 100 ml

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



"End of the rep OLABO JAIPUR

RK Yadav Lab Incharge Authorized Signator

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

Vibrant Techno Lab Pvt. Ltd.

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9929108691, 9810205356, 8005707098, 9549956601

2 0141-2954638

bd@vibranttechnolab.com



Sample Number:

Sample Description:

Sample Collected by:

Parameter Required:

Sampling Protocol:

Preservation:

Name & Address of the Party:

VTL/SW/01-03

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

Vibrant Techno Lab Team

Suitable Preservation

As Per Work Order

APHA 24th Edition 1060, 2023

Report No.: Format No.:

Report Date:

VTL/W/2501230039-41

7.8 F-01

Party Reference No.:

NIL 28/01/2025

Period of Analysis:

23 to 28/01/2025

Receipt Date:

23/01/2025

Sampling Date:

17/01/2025

Sampling Quantity:

Pond Near Berma River Near

2.0Ltr.+ 250 ml

Grab

Sampling Type:

179CS		
	Birman at an	

S. No.	Parameter	Test Method	Amangani	Gaisabad Village	Pond Puraina	Unit
Physi	ical Parameters	A Company of the Comp	ramangang	Garandad vinage	Village	1
1.	pH (at 25 °C)	IS 3025 (P-11): 2022	7.42	7.32	7.58	
2.	Colour	IS 3025(P-4): 2021	8	10	16	Hage
3.	Turbidity	IS 3025 (P-10): 2023	12	18	14	NTU
	ical Parameters (mg/l)		100000			1000
*	Total Hardness as CaCO ₃	IS: 3025 (P-Z1): 2009,RA: 2019	210.00	179.00	195.00	mg/l
5.	Alkalinity as CaCO ₁	IS: 3025 (P-23): 2023	87.00	79.00	99.00	mg/l
6.	Chloride as Cl	IS: 3025(Part 32):1988, RA:2019	51.49	48.52	43,78	mg/l
7.	Total Dissolved Solids	IS 3025 (P-16): 2023	445	390	510	mg/l
8.	Sulphate as SO ₄	IS: 3025 (P-24): Sec.1: 2022 (Clause 5.0)	21.63	12.34	24.78	mg/l
9.	Fluoride as F	APHA (24th Edition), 4500FD:2023	0.28	0.22	0.36	mg/l
10.	Nitrate as NO ₃	IS: 3025 (P-34): Sec 1: 2023 (Clause 6.4)	11.85	13.64	16.29	mg/l
11.	Iron as Fe	APHA (24th Edition),3111B: 2023	0.30	0.25	0.37	mg/l
12.	Chromium as Cr+6	APHA (24th Edition),3500 CR-B, 2023	*BLQ(**LOQ- 0.05)	*BLQ(**LOQ-0.05)	*BLQ(**LOQ-0.05)	mg/l
3.	Phenolic Compounds	APHA 24th Edition,2017, 5530 D :2023	*BLQ[**LOQ- 0.05]	*BLQ(**LOQ-0.05)	*BLQ(**LOQ-0.05)	mg/l
14.	Zinc as Zn	APHA (24th Edition),31118: 2023	0.36	0.28	0.43	mg/I
15.	Copper as Cu	APHA (24th Edition),31118: 2023	*BLQ(**LOQ- 0.02)	*BLQ(**LOQ-0.02)	*BLQ(**LOQ-0.02)	mg/l
16.	Cadmium as Cd	APHA (24th Edition),3111B: 2023	*BLQ(**LOQ- 0.002)	*BLQ(**LOQ-0.002)	*BLQ(**LOQ- 0.002)	mg/l
17.	Lead as Pb	APHA (24th Edition),3111B: 2023	*BLQ(**LOQ- 0.005)	*BLQ[**LOQ-0.005)	*BLQ(**LOQ- 0.00S)	mg/l
8.	Arsenic as As	APHA (24* Edition),3114C,2023	*BLQ(**LOQ- 0.005)	*BLQ(**LOQ-0.005)	*BLQ(**LOQ- 0.005)	mg/l
9.	Mercury as Hg	APHA (24th Edition)3112 B,2023	*BLQ(**LOQ- 0.001)	*BLQ(**LOQ-0.001)	*BLQ(**LOQ- 0.001)	ing/l
0.	Oil & Grease	IS:3025(P-39):2021	*BLQ(**LOQ-4.0)	*BLQ(**LOQ-4.0)	*BLQ(**LOQ-4.0)	mg/l
1.	BOD (3days at 27°C)	IS:3025(P-44):2023	6.9	4.9	6.2	mg/l
2.	COD	IS:3025(P-58):2023	31.0	18.6	28.0	mg/l
3.	DO	IS:3025(P-38):1989, RA:2019	6.7	7,3	7.9	mg/l
4.	TSS	IS:3025(P-17):2022	35	29	40	mg/l
licrot	olological Parameters (MP)				******	
	Total Coliform	IS:15185: 2016	Present	Present	Present	Present
6.	Faecal Coliform	APHA 24* Edition , 9221-C :2023	Present	Present	Present	Absent per 100 ml

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



JAIPUR

RK Yadav Lab Incharge Authorized Signator

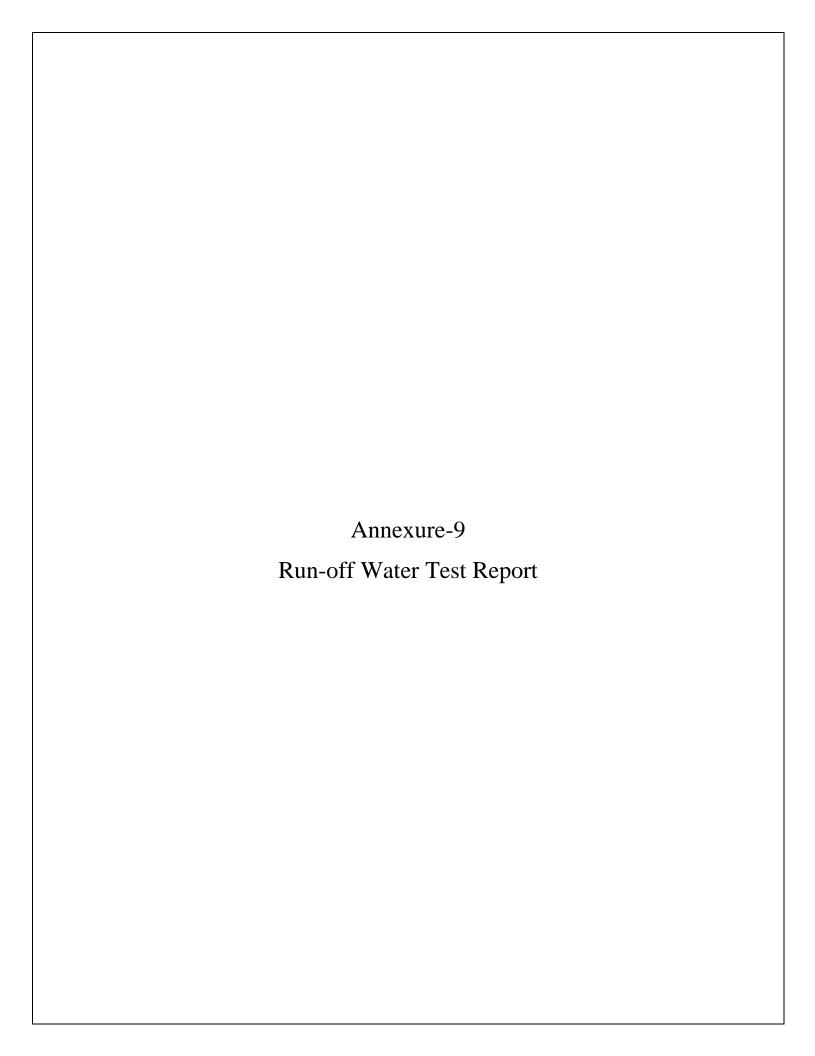
Approved & Certified EPA 1986 Recognised, ISO:9001 and OH543 45001 Certified

Vibrant Techno Lab Pvt. Ltd.

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- 9929108691, 9810205356, 8005707098, 9549956601

2 0141-2954638

bd@vibranttechnolab.com





Sample Number:

Sample Description:

Sample Collected by:

Parameter Required:

Sampling and Analysis Protocol:

Preservation:

Name & Address of the Party:

M/s JK Cement Works, Panna

(A Unit Of JK Cement Ltd.) Kakra- Panna Limestone

Mines Village-Harduwaken Tebsil-Amanganj PIN-

488441 Dist-Panna

Surface Water

VTL/SW/01

Vibrant Techno Lab Team

Suitable Preservation

As Per Work Order

APHA 24th Edition 2023

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: Sampling Quantity: 16/11/2024

2.0Ltr.+ 250 ml

ailams	e Typ	(0)

Grab

S. No.	Parameter	Test Method	Run Off Water Kakra Mine	Unit
Physica	l 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
Chemic	al Parameters (mg/l)	Altr		10.10
4.	Total Hardness as CaCO ₃	IS: 3025 (P-21): 2009,RA: 2019	158.00	1 500
5.	Alkalinity as CaCO ₃	IS: 3025 (P-23): 2023	61.00	mg/l
6.	Chloride as Cl	I5: 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.	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 ₂	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™ Edition),3500 CR-B	*8LQ(**LOQ-0.05)	100000000000000000000000000000000000000
13.	Phenolic Compounds	APHA 23rd Edition, 2017, 5530 C	*BLQ(**L0Q-0.001)	mg/l
14.	Zinc as Zn	APHA (23 rd Edition),3111 B: 2017	0.41	mg/l
15.	Copper as Cu	APHA (23rd Edition),3111 B: 2017	*BLQ(**L0Q-0.02)	mg/l
6.	Cadmium as Cd	APHA (23 rd Edition),3111 B: 2017	*BLQ(**LOQ-0.002)	mg/l
7.	Lead as Pb	APHA (23rd Edition), 3111 B: 2017		mg/l
8.	Arsenic as As	APHA (23rd Edition),3114C,2017	*BLQ(**LOQ-0.005)	mg/l
9.	Mercury as Hg	APHA (23* Edition)3112 B,2017	*BLQ(**LOQ-0.00S)	mg/l
0.	Oil & Grease	IS:3025(P-39)	*BLQ(**LOQ-0.001)	mg/l
1.	BOD (3days at 27°C)	IS:3025(P-44):1993, RA:2019	*BLQ(**LOQ-4.0)	mg/l
2	COD	IS:3025[P-58]:2006, RA:2017	8.12	mg/l
3.	DO		50.0	mg/l
4.	TSS	IS:3025(P-38):1989, RA-2019	4.9	mg/i
THE RESIDENCE AND ADDRESS.	ological Parameters	IS:3025(P-17):2021	65.0	mg/l
5.	Total Coliform	To a series page	sacinanto"	
6.	Faecal Coliform	IS:15185: 2016	Present	Present/Absent per
	ets: - *PLO Poloss Limit of Occasi	IS:15185: 2016	Present	100 ml

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





RK Yaday Lab Incharge **Authorized Signa**

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

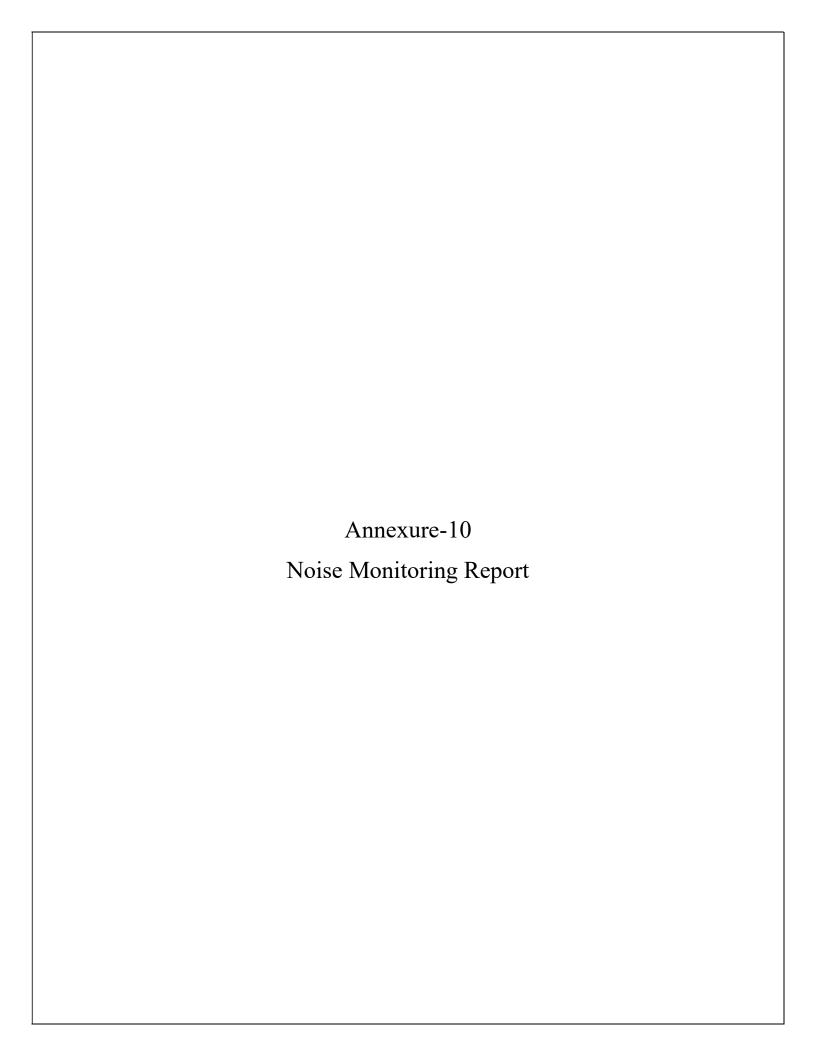
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9929108691, 9810205356, 8005707098, 9549956601

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B bd@vibranttechnolab.com







Sample Description:

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 MIL

Report Date:

Party Reference No.:

25/11/2024

Receipt Date:

17/11/2024

General Information:-

Sample collected by

Instrument Used

Instrument Calibration Status

Instrument Code

Meteorological condition during monitoring

Scope of Monitoring

Sampling & Analysis Protocol

Parameter Required

; VTL Team

:Sound Level Meter-

: Calibrated

:VTL/SLM/01-04

: Clear Sky

: Regulatory Requirement

: IS 9989-1981 RA: 2020

: As per Work Order

S. No.	Tankston		Tank Banamakan	Test Result dB (A)	
9- MO-	Location	Date	Test Parameter	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	Leg	61.3	50.8
+	Near Kakra Mine Security Cabin	11-12/11/2024	Leq	59.2	+2.1
5	Kakra Village	11-12/11/2024	Leq	49.7	40.0

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

Day Time is from 6.00 AM to 16.00 PM.

Night Time is recknown between 10.00 PM to 6.00 AM.
Silence Zone is defined as an area up to 100 m around premises of Hospitale, Educational and Courts. Use of vehicle horn, Loudspeaker and bursting of crackers is banned in these ropes.

Note: Mixed categories of areas he declared as one of the four above mentioned categories by the competent Authority and the corresponding standards sha





RK Yaday

Lab Incharge

Authorized Signafory

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



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B bd@vibranttechnolab.com





Name & Address of Party:

Sample Number:

Sample Description:

VTL/ N/01-05

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/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

Instrument Used

Instrument Calibration Status

Instrument Code

Meteorological condition during monitoring

Scope of Monitoring

Sampling & Analysis Protocol

Parameter Required

VTL Team

:Sound Level Meter

:Calibrated

:VTL/SLM/01-05

:Clear Sky

: Regulatory Requirement

: IS 9989-1981 RA: 2020

: As per Work Order

4000	West News and	The second second	The same than the same of	Test Result dB (A)	
S. No.	Location	Date	Test Parameter	Day Time	Night Time
1	Near Kakra Office	11-12/02/2025	Leq	67.4	58.2
2	Kakra Crusher	11-12/02/2025	Leq	62.9	53.1
3	Kakra Mine Pit	11-12/02/2025	Leq	63.7	51.9
4	Near Kakra Mine Security Cabin	11-12/02/2025	Leq	57.3	43.7
5	Kakra Village	11-12/02/2025	Leq	48.1	39.4

Category of Zones	Leq in dB (A)				
	Day	Night			
Industrial	75	79			
Commercial	THE RESERVE THE RE	55			
Residential	THE RESIDENCE OF THE PARTY OF T	45			
Silence Zone	50	40			

Day Time is from 6.00 AM to 10.00 PM.

Night Time is recknied between 10.00 PM to 6.00 AM.

Silence Zone is defined as an area up to 100 m around premiers of Hospitals, Educational and Courts. Use of echicle horn, Londspeaker 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

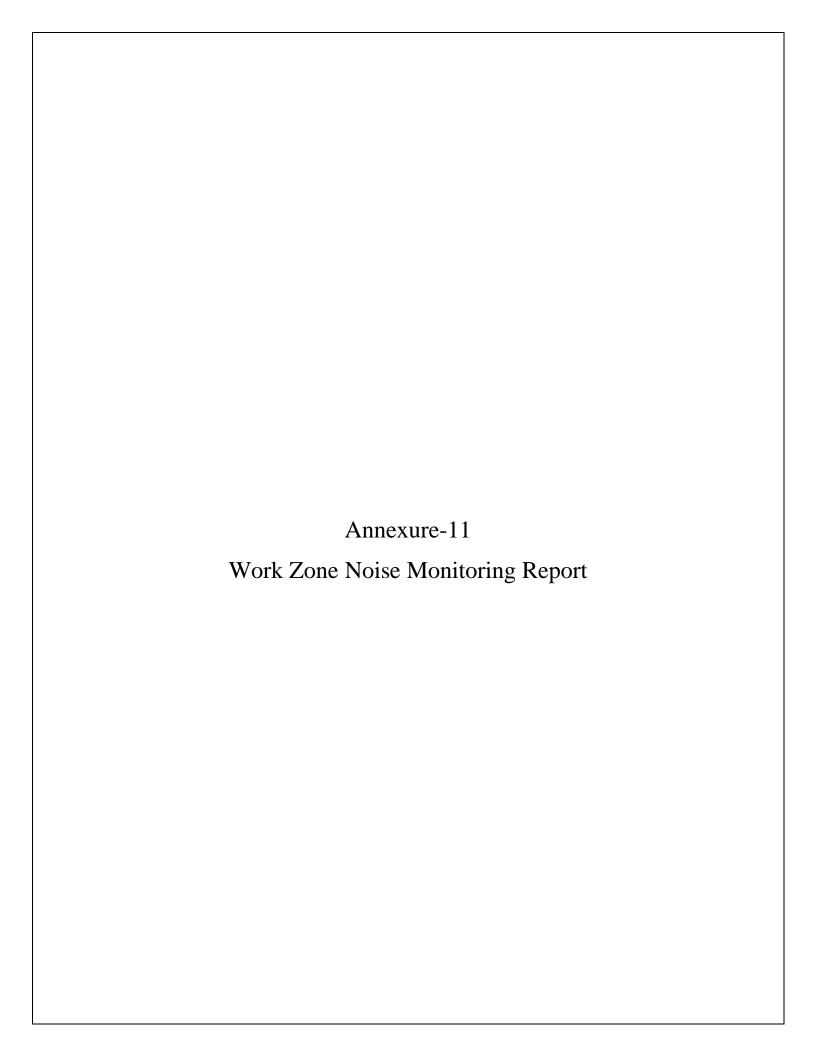




RK Yadav Lab Incharge Authorized Signatory

Approved & Certified EPA 1985 Recognized, ISO:9001 and OHSAS:45001 Certified

9929108691, 9810205356, 8005707098, 9549956601





Sample Number:

VTL/WZN/01

Name & Address of the Party:

M M/s JK Cement Works, Panna

(A Unit Of JK Cement Ltd.) Kakra- Panna Limestone Mines Village-Harduwaken Tehsil-Amangani PIN-488441 Dist-Panna

Sample Description:

Work Zone Noise

Scope of Monitoring

Regulatory Requirement

Protocol Used: Instrument Used IS 9989: IS 9876

SLM

Report No.:

VTL/WZN/2411170021-25

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

Instrument Calibration

VTL Team Calibrated

Status

General Information:-

Instrument Code

Meteorological condition during monitoring

Date of Monitoring

Ambient Temperature (°C)

Surrounding Activity

Parameter Required

: VTL/SLM/01

: Clear sky

: 10/11/2024

: Min 35°C Average

: Human & Mining Activity

: Leq

Sr.No.	Test Parameter	Protocol	Result	Unit	Limit
1.	Drill Operator Cabin	IS:9989,IS 9876:1981	81.2	dB(A)	90.0
2.	Exavatore Operator Cabin	IS:9989,IS 9876:1981	78.6	dB(A)	90.0
3.	Dumpar Operator Cabin	IS:9989,IS 9876:1981	73.1	dB(A)	90.0
4.	Crusher Operator Cabin	IS:9989,IS 9876:1981	84.7	dB(A)	90.0
5.	Weigh Bridge Operator Cabin	IS:9989,IS 9876:1981	71.3	dB(A)	90.0





RK Yadav Lab Incharge **Authorized Signato**

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

Vibrant Techno Lab Pvt. Ltd.

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

9929108691, 9810205356, 8005707098, 9549956601

2 0141-2954638

bd@vibranttechnolab.com



Sample Number: Name & Address of

the Party:

VTL/WZN/01

M 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:

Work Zone Noise

Scope of Monitoring

Regulatory Requirement

Protocol Used:

Instrument Used

IS 9989: IS 9876

SLM

Report No.:

VTL/WZN/2503010021-25

Format No.:

7.8 F 04

Report Date:

NIL.

05/03/2025

Receipt Date:

01/03/2025

Sampling Duration

30 Min.

Sample Collected by

Party Reference No.:

Instrument Calibration

VTL Team Calibrated

Status

General Information:-

Instrument Code

Meteorological condition during monitoring

Date of Monitoring

Ambient Temperature (°C)

Surrounding Activity

Parameter Required

: VTL/SLM/01

: Clear sky

17-18/02/2025

: Min 35°C Average

: Human & Mining Activity

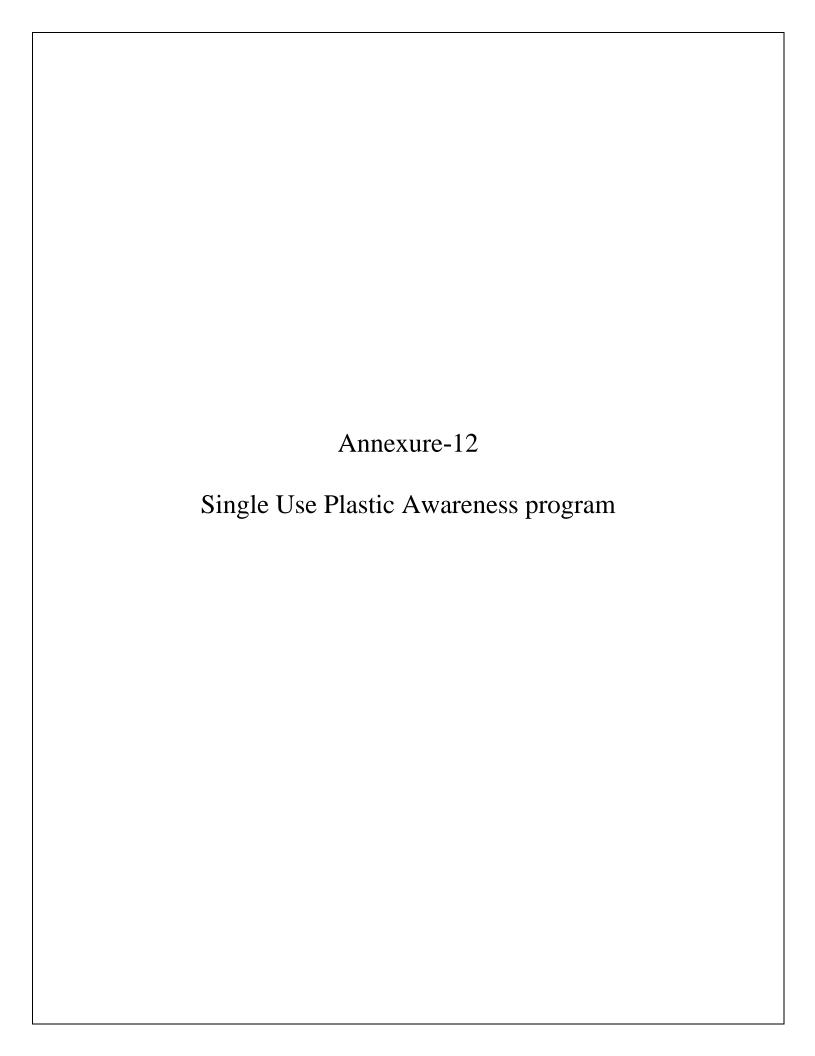
: Leq

Sr.No.	Test Parameter	Protocol	Result	Unit	Limit
1.	Drill Operator Cabin	IS:9989,IS 9876:1981	82.9	dB(A)	90.0
2.	Exavatore Operator Cabin	IS:9989,IS 9876:1981	79.3	dB(A)	90.0
3.	Dumpar Operator Cabin	IS:9989,IS 9876:1981	75.2	dB(A)	90.0
4.	Crusher Operator Cabin	IS:9989,IS 9876:1981	80.4	dB(A)	90.0
5.	Weigh Bridge Operator Cabin	IS:9989,IS 9876:1981	74.9	dB(A)	90.0



RK Yadav Lab Incharge Authorized Signatory

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Awareness on Plastic Waste Campaign in nearby School of dated 29.08.2024

School Name Photo





Puraina School





Awareness on Plastic Waste Campaign in nearby School of dated 30.08.2024

School Name

Photo





Boda School





Awareness on Plastic Waste Campaign in nearby School of dated 31.08.2024

School Name Photo





Pagra School





Awareness on Plastic Waste Campaign in nearby School of dated 04.09.2024

School Name Photo





Kamtana School



