11/25/25, 3:42 PM Home Page

Your (Half Yearly Compliance Report) has been Submitted with following details			
Proposal No	IA/MP/MIN/130137/2016		
Compliance ID	550105978		
Compliance Number(For Tracking)	EC/M/COMPLIANCE/550105978/2025		
Reporting Year	2025		
Reporting Period	01 Dec(01 Apr - 30 Sep)		
Submission Date	25-11-2025		
RO/SRO Name	Shri S Senthil Kumar		
RO/SRO Email	jk083.ifs@nic.in		
State	MADHYA PRADESH		
RO/SRO Office Address	Integrated Regional Offices, Bhopal		
Note:- SMS and E-Mail has been sent to Shri S Senthil Kumar, MADHYA PRADESH with Notification to Project Proponent.			



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

CIN: L17229UP1994PLC017199

- Village Harduwaken, Tehsil Amanganj District - Panna, State - Madhya Pradesh, India - 488 441
- ♦ 9329141591

 jkc.panna@jkcement.com

 § panna@jkcement.com

 pa
- 8 www.jkcement.com

Ref.No.: JKCEMENT/ENV./EC/KAKRA/2025-26/03/20

Date: 22.11.2025

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 April -2025 to September-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 vide F. 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 **April 2025 to September-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,

Kapil Agrawal (Unit Head)

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

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

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 :

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



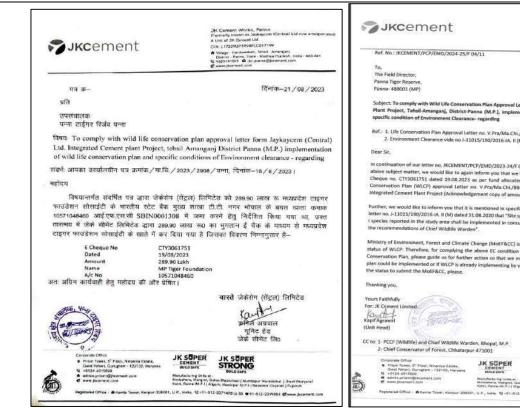
Environmental Clearance to M/s J K Cement Limited issued for Kakra-Panna Limestone Mine for production of 4.08 MTPA Limestone, 1.51 MTPA inter-burden, 1.26 MTPA soil/Alluvium, 0.18 MTPA Mine waste and 0.58 MTPA sub-grade mineral [Total Excavation 7.61 MTPA] in the ML area 1594.35 Ha, at Villages Kakra, 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 Name Change in EC vide F. No. J-11015/190/2016-IA. II (M) dated 23th January 2024

		Amendment in EC vide F. No. J-11015/190/ Name Change in EC vide F. No. J-11015/190/							
Ī	Spec	ific Condition			` '			•	
	I.	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.	i	Amended dated 18 in the en plan. Am	dition has d EC no. l th Octob tire lease nended E copy ar	F. No. Jeer 2023, Fer area as FC copy	-11015/ to carry s per the and re	190/2010 y out min le approvevised m	-&CC vide 6-IA. II (M) ing activity yed mining hining plan ure-1 & 2
	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.	I	Habitatio on eithe	ety barrie n; 45 m r side of mining zo	er of 10 on eithe the villa one and	0 m aç r side c age roa thick ç	of the Na ads have	e village / llah; 50 m been left lt is being
	III.	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 green belt shall be developed with native species before commencement of mining operations in the area.	1	from the	ng is bei bank of t	he Ken	River a		n distance green belt
	IV.	•		with ne General	e adopt cessary of Mines village lone fa	permis Safety t / Habita raway	ssion food black to the design of the design	from the asting with oundary. village/	chniques Director thin 300 m Mining is habitation
		species shall be developed in the safety			Distan	ce from N	/line Pit	(meter)	
		barrier left against the Habitations before		Pit	Dewra	Kakra	Judi	Kamtana	Saptai
		commencement of mining operations in the area.		details	Village	Village	Village	Village	Village
				Pit 1	750	1380	3000	3600	2300
				Pit-2	1800	900	4200	3900	1350
								and bro	ad-leaved barrier.

DGMS permission copy is enclosed as Annexure-

V.	The ground induced blasting vibrations shall be monitored regularly for every blast performed and the values of "Peak Particle Velocity" and "Air Over Pressure" shall be maintained below the permissible values prescribed by the DGMS, from time to time.	Complied. The ground induced blasting vibrations is being monitored regularly for every blast performed and the values of "Peak Particle Velocity" and "Air Over Pressure" is well within the permissible values prescribed by the DGMS. A blasting vibration report attached as Annexure-4.
VI.	No external dumping of overburden and/or subgrade material shall be made outside the mining lease area.	Complied. No external dumping of overburden and/or subgrade material is being done outside the mining lease area.
VII.	Site specific conservation plan for all the Schedule-I species reported in the study area shall be implemented in consultation with State Forest Department as per the recommendations of Chief Wildlife Warden.	Complied. We have already deposited Rs. 289.90 Lakh via. E Cheque no. CTY3061751 dated 19.08.2023 as per fund allocated for implementation of approved Wild 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. And regarding the approval of wildlife Conservation plan (w.r.t Schedule I species) as per wildlife protection amendment Act,2022 for proposed expansion in Limestone in the Limestone production capacity of Kakra panna Limestone Mines letter no. JKCEMENT/PCP/EMD/2025-26/F04/23 dated 29.07.2025 submission of Distric Forest Officer, Panna.





Acknowledgement copy of amount deposition in WLCP





WLCP Approval letter submission copy

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-25 to Sep-25 is following:

Sr.	Production	Permission	Apr-25 to Sep-
No		(MTPA)	25
			(MT)
1	Limestone	4.08	973154
2	Sub-grade Limestone	0.58	0.00
3	Inter burden	1.51	64225
4	Soil/ Alluvium	1.26	1335
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 on progress.

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

A total of 61520 nos of sapling of native and broadleaved species have been planted in 24.61 Ha of area up to Sep-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 Sep-25
		((in Lakhs)
1	Health (Health, Check-up, Camp, Sports etc.)	280.97
2	Education (Books, Bags, Stationary etc.)	415.25
3	Sanitation (Domestic water, Toilets etc.)	60.89
4	Skill Development (Training centre etc.)	23.71
5	Infrastructure (Road, Community Centers, etc.)	868.58
6	Other Local Social Need	168.04
7	Greenery Development Nearby Area	402.81
	Total	2220.25





MMU visit at nearby villages

Drinking water arrangement through Water nearby Villages





Community and Youth Road Safety & distribution of helmet

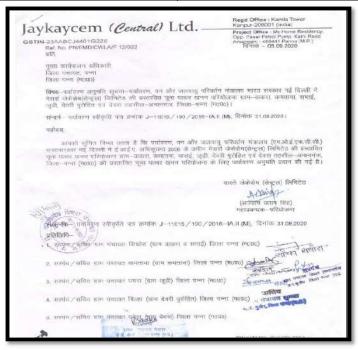
Plantation Drive at nearby villages

XI.	All the mitigation measures committed /	Complied.	
	envisaged in the EIA/EMP report and	·	
2/11	subsequent submission shall be implemented.		
XII.	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 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. 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. St	andard EC Conditions:		
I. Sta	tutory 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.	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.	
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. 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.	
3)	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 Environment, Forest and Climate 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,

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.

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.

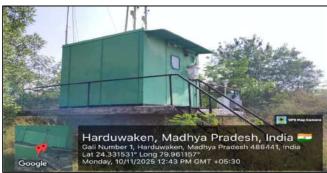
The ambient air quality shall also be monitored at prominent places like office building, canteen etc. as per the site condition to ascertain the exposure characteristics at specific places. The above data shall be digitally displayed within 03 months in front of the main Gate of the mine site.

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 of dust generation and subsequent suppression (like regular water sprinkling, metaled road construction etc.) shall be carried

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

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 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

in crusher. Fugitive Emission reports are attached as **Annexure-6**.



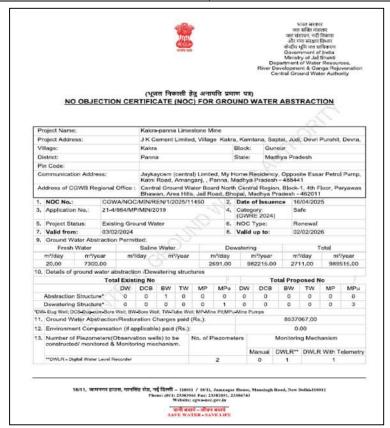
Water sprinkling photo

III. Water quality monitoring and preservation

In case, immediate mining scheme envisages intersection of ground water table, then Environmental Clearance shall 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 The minina operations. permission 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.



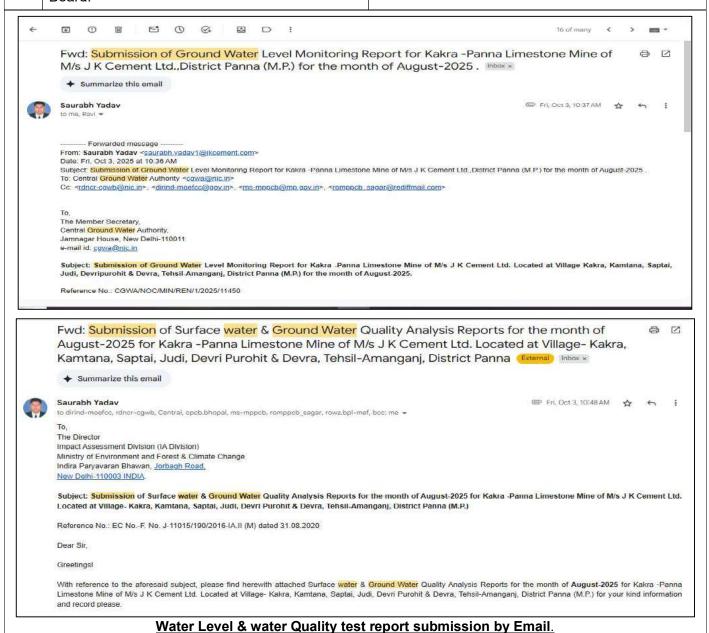
Renewal NOC copy

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 Board.

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 03.10.2025 (Ground water level) & (Surface water & quality test report).

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



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.**

14) 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.



Project Proponent shall plan, develop and implement rainwater harvesting measures on long term basis to augment ground water resources in the area in consultation with Central Ground Water Board/ State Groundwater Department. A report on amount of water recharged needs to be submitted to Regional Office MoEFCC annually.

Complied.

The rainwater harvesting structure has been developed. Water recharge report will be submitted after monsoon season.

Industrial waste water (workshop and waste water from the mine) should be properly collected and treated so as to conform to the notified standards prescribed from time to time. The standards shall be prescribed through Consent to Operate (CTO) issued by the concerned State Pollution Control Board (SPCB). The workshop effluent shall be treated after its initial passage through Oil and grease trap.

Agreed.

Construction of workshop and Oil and grease trapping system are under progress. Mine pit water is discharged through siltation pond and surface run off water quality is also monitored which is within standard.



Valid CTO Copy

17) 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-2025 to Sep-2025 is given below.

		Permission of	Permission of Waste water generation (KL/Day)	During April-2025 to September-2025			
Sr.No	Water Code	Water Consumption (KL/Day)		Water Consumption (KL/Day)	Waste water generation (KL/Day	Reuse/recycle	
1	Domestic water	20	9.0	5.7	0.0	Nil	
2	Dust Suppression	70	0.0	38.9	N/A	N	
3	Manufacturing Process	100	0.0	32.7	N/A	N/A	
4	Plantation/ Horticulture	40	0.0	19.8	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

Complied

Peak Particle velocity is being monitored as per the DGMS guidelines. Report is enclosed as **Annexure-4**.

	Distance from Mine Pit (meter)					
Pit details	Dewra Village	Kakra Village	Judi Village	Kamtana Village	Saptai Village	
Pit 1	750	1380	3000	3600	2300	
Pit-2	1800	900	4200	3900	1350	

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

Complied.

As the mine is running only in two shifts hence the question of sound and illumination at night to disturb the sleeping is not arisen. The illumination and Noise levels are being monitored and maintained within the prescribed limits. Noise monitoring Reports is enclosed as **Annexure-10**.

The Project Proponent shall take measures for 20) control of noise levels below 85 dBA in the work environment. The workers engaged 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.

Complied.

Regular maintenance of HEMM is being carried out. PPEs like earplugs/muffs etc. has been provided to the workers working near high noise area. Training and awareness programs on health and safety aspects are being organized regularly. Photograph as enclosed in given below.

Work Zone Noise & personal dust Monitoring Reports is enclosed as **Annexure-11**.

V) Mining Plan

21) The Project Proponent shall adhere to approved mining plan, inter alia, including, total excavation (quantum of mineral, waste, over burden, interburden and top soil etc.); mining technology; lease area; scope of working (method of mining, overburden & dump management, O.B. & dump mineral transportation mining, mode. ultimate depth mining, concurrent of 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.).

Complied.

Mining activities are being carried out as per the approved mining plan. Approved mining plan copy No. E 12104 MCDR-MPC0LST/43/2024-JBP-IBM RO JBP and valid up to 31.03.2030

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

Complied.

Mining activities and land use planning are being done as per the approved mining plan.

Backfilling has not started yet as the area is not

Backfilling has not started yet as the area is not matured and the afforestation will be done on reclaimed area as per the approved mining plan.

VI. Land reclamation

The Overburden (O.B.), waste and topsoil 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

. 24

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.

Complied.

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

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.

Catch drains, settling tanks and siltation ponds of 25) appropriate size shall be constructed around the mine working, mineral vards 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 area, roads, green belt development, 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

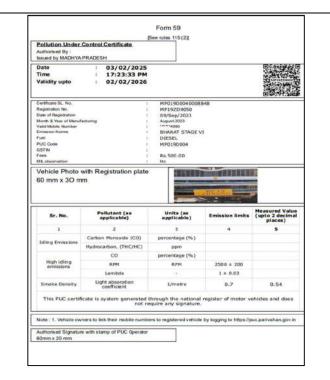
27) No Transportation of the minerals shall be allowed in case of roads passing through villages/ habitations. In such cases, PP shall construct a 'bypass' road for the purpose of transportation of the minerals leaving an adequate gap (say at least 200 meters) so that the adverse impact of sound and 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 the traffic load. pollution due The 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



Water sprinkling photo

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. The air 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.







Bag Filter photo



covered belt-conveyors



VIII. Green Belt

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 on 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 61520 no. of sapling have been planted in 24.61 Ha of area up to September-2025.





Plantation at Kakra mines area.

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

31

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

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 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.

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.

XI. Miscellaneous

- 34) 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

Complied.

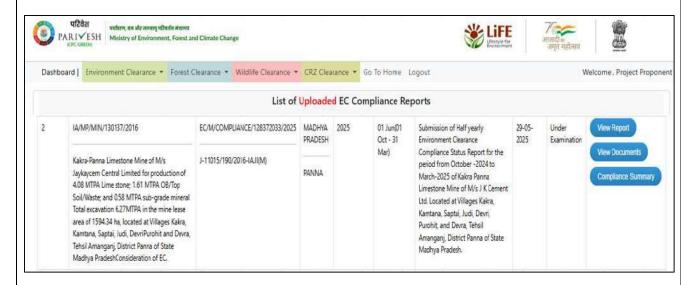
Six monthly compliance reports on the status of the implementation of the stipulated environmental safeguards to the MOEFCC & its concerned Regional Office, Central Pollution

Regional Office, Central Pollution Control Board and State Pollution Control Board.

Control Board and State Pollution Control Board is being submitted regularly. Last EC compliance report submission during October-2024 to March-2025, Letter no.JKCEMENT/ENV/EC/KAKRA/2025-26/03/17 dated 20.05.2025. copy as enclosed in given below.



Submission of half yearly EC compliance report copy

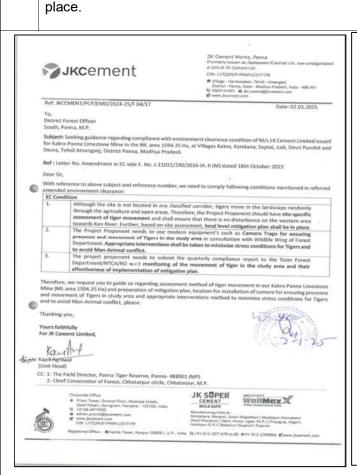


EC report uploading in Parivesh portal

37	A separate 'Environmental Management Cell' 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. Interpret
38	The concerned Regional Office of the MoEFCC 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.	Complied.
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.

	- tion and a the mariety of Fadanasa	
	action under the provisions of Environment	
27.	(Protection) Act, 1986. 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.
20.	shall lie with the National Green Tribunal, if	Agreed and Noted.
	preferred, within a period of 30 days as	
	prescribed under Section 16 of the National Green	
	Tribunal Act, 2010.	
Δmei	ndment in EC vide F. No. J-11015/190/2016-IA. II (M) dated 18 th October 2023
1	DUST SUPPRESSION	
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
	Effective dust suppression system shall also be	mine haulage road to control the fugitive dust
	adopted at other parts of the mining lease to arrest	emission. Bag filter has been installed and belt
	the fugitive dust emission. Online air monitoring	conveyors with covered corrugated sheets are
	system should be installed near crusher and haul	installed to control the 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.
		CHILD.
		EO TIMTL
		ala la
		SURPLISE MACHINERY
		Annual September 1
		Fog canon/mist sprayer
		3 nos. of Online air monitoring system (CAAQMS)
	CINCLE LICE DI ACTIC	have been installed at boundary of the ML.
2	SINGLE USE PLASTIC	Complied
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 Single Use Plastic (SUP) in order to ensure the	of Single Use Plastic (SUP) has been carried out and
	origie use riastic (SUP) in order to ensure the	

compliance of Notification published by MoEF&CC report with photographs are attached as Annexure on 12/08/2021. A report, along with photographs, on 12. the measures taken shall also be included in the six monthly compliance report. **CLEAN ENERGY** 3 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 pollution and roadkill in the tiger reserve area. road kill in tiger reserve area is not anticipated. Complied 4.2 Although the site is not located in any classified 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 the Project Proponent should have site-specific condition via letter assessment of tiger movement and shall ensure JKCEMENT/PCP/EMD/2024-25/F04/14 dated



that there is no disturbance on the western area

towards Ken River. Further, based on site

assessment, local level mitigation plan shall be in

JKCement Works, Panna

Set JKCement

JKCement Works, Panna

A United Statement Control List. Now amaligamated
A United Statement Control List. Now amaligamated
A United Statement Control

The Control of Panna Tager Research, District Statement Control

Ref. JKCEMENT/PCP/EMD/2025-28/F 04/21

To The Field Director.

Penna Tager Research

Panna Asglot (M.P.)

Subject: Seeking guidance regarding compliance with environment clearance condition of M/s J K Cement Limited issued for Kaltra-Parina Limitedom Mine in the ML area 1564-35 Ha, at Villages Kaltra, Kamtlana, Saptal, Judi, Devri Purchit and Devra, Teshal Amalingan District Panna, Medinga Pradesta.

Ref. Letter No Amendment in EC vide F. No. J-11015/150/2016-IA. II (M) dated 18th October 2023

Dear Sir.

Vidin reference to above subject and reference number, we need to comply following condition mentioned in referred amended environment clearance:

EC Condition

1. Although the afte is not located in any classified corridor, tigers move in the landscape randomly through the movement and shall ensure that there is no districtance on the western area towards Ken River, Further, Judic of no idea assessment, Icola Invest mitigation glan shall be in place.

2. The Project Proponent needs to use modern equipments such as Camera Traps for ensuring presence and movement of Tigers in the study area in consultation with Wildlife Wing of Forest Department.

Animal conflict.

3. The project proponent needs to submit the study area in consultation with Wildlife Wing of Forest Department.

Animal conflict.

3. The Project Proponent needs to submit the study area in the study area and movement of Tigers in the study area in consultation with Wildlife Wing of Forest Department.

Animal conflict, Department.

Animal conflict, Proper 12/200, refs.

9. Collect Proper proponent needs to submit the consultation with Wildlife Wing of Forest Department.

Coll LT2220-P1064CD31760

Reference Grant Forest Officer South, Panna, M.P. 488001.

2. Chief Connervation of Forest, Chihaterpur ci

16.08.2024. A follow up letter is submitted via letter

no. JKCEMENT/PCP/EMD/2024-25/F 04/17 dated 02.01.2025 & letter no. JKCEMENT/PCP/EMD/2025-

26/F 04/21 dated 21.07.2025

The Project Proponent needs to use modern equipment's such as Camera Traps for ensuring presence and movement of Tigers in the study area

4.3

Complied

We have submitted request letter to District Forest South, Panna for guidance regarding compliance of

	in consultation with Wildlife Wing of Forest Department. Appropriate interventions shall be	JKCEMENT/PCP/EMD/2024-25/F04/14 dated
	taken to minimize stress conditions for Tigers and to avoid Man-Animal conflict.	16.08.2024. A follow-up letter is submitted via letter no. JKCEMENT/PCP/EMD/2024-25/F 04/17 dated 02.01.2025 & letter no. JKCEMENT/PCP/EMD/2025-26/F 04/21 dated 21.07.2025.
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.
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	

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 176 Nos. local residents admission during the FY:2025-26.









(M/s JK Cement Institute of Technology ITI)

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

Yours Sincerely

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

(Kapil Agrawal)
Unit Head

Annexure-1

Dt: 13/01/2025

By e-mail

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

The state of the s

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), located at Villages Kakra, Kamtana, Judi, Dayra,

(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 Pavm	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 रवान 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.



Date/Time Long at 14:11:53 April 11, 2025 **Trigger Source** Geo: 0.600 mm/s, Mic: 6.325 pa.(L)

Geo: 254.0 mm/s Range 3.0 sec at 2048 sps **Record Time** Operator/Setup: Operator/MINES.MMB

Notes Location: Client:

User Name: KAKRA PANNA LIMESTONE MINES

General:

Microphone Linear Weighting **PSPL** 3.336 pa.(L) at 1.117 sec

ZC Freq 5.9 Hz

Channel Test Passed (Freq = 19.7 Hz Amp = 1094 mv)

	Tran	Vert	Long	
PPV	1.592	0.631	1.852	mm/s
ZC Freq	26	18.6	26	Hz
Time (Rel. to Trig)	0.396	0.365	0.253	sec
Peak Acceleration	0.035	0.015	0.041	g
Peak Displacement	0.016	0.006	0.019	mm
Sensor Check	Passed	Passed	Passed	
Frequency	7.3	7.5	7.5	Hz
Overswing Ratio	4.4	4.3	4.1	

Peak Vector Sum 2.081 mm/s at 0.396 sec

Serial Number UM20052 V 10-90FB Micromate ISEE

Battery Level 3.6 Volts

Unit Calibration February 22, 2025 by UES New Delhi File Name UM20052_20250411141153.IDFW

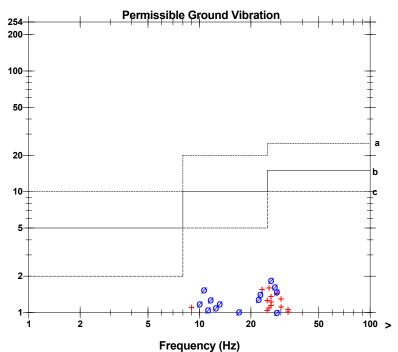
Post Event Notes

Blasting Location: Pit-1 B1S A Block, MCD:33.5Kg,

Monitoring Location: Pit-1 View Point,

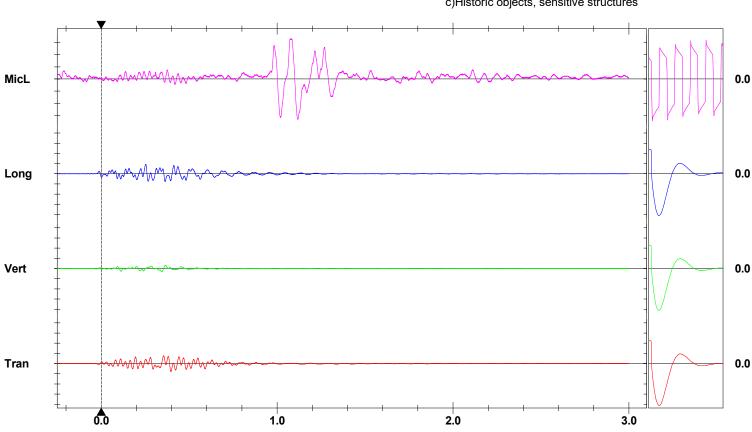
Monitoring Distance: 500Mtrs

DGMS India (A)



Tran: + Vert: x Long: ø

a)Industrial Buildings b)Domestic houses/structures c)Historic objects, sensitive structures



Trigger = ▶

Time Scale: 0.20 sec/div Amplitude Scale: Geo: 2.000 mm/s/div Mic: 1.000 pa.(L)/div



Date/Time Long at 13:07:03 May 17, 2025 **Trigger Source** Geo: 0.600 mm/s, Mic: 6.325 pa.(L)

Range Geo: 254.0 mm/s
Record Time 3.0 sec at 2048 sps
Operator/Setup: Operator/MINES.MMB

Notes Location: Client:

User Name: KAKRA PANNA LIMESTONE MINES

General:

Microphone Linear Weighting PSPL 42.45 pa.(L) at 1.030 sec

ZC Freq 49 Hz

Channel Test Passed (Freq = 19.7 Hz Amp = 1056 mv)

	Tran	Vert	Long	
PPV	1.356	0.780	1.647	mm/s
ZC Freq	16.3	19.7	15.3	Hz
Time (Rel. to Trig)	0.318	0.115	0.210	sec
Peak Acceleration	0.023	0.023	0.023	g
Peak Displacement	0.013	0.006	0.016	mm
Sensor Check	Passed	Passed	Passed	
Frequency	7.3	7.5	7.5	Hz
Overswing Ratio	4.4	4.3	4.1	

Peak Vector Sum 1.697 mm/s at 0.210 sec

Serial Number UM20052 V 10-90FB Micromate ISEE

Battery Level 3.7 Volts

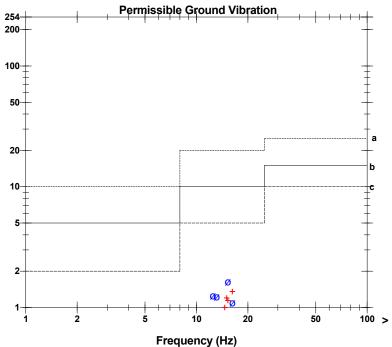
Unit Calibration February 22, 2025 by UES New Delhi UM20052_20250517130703.IDFW

Post Event Notes

Blasting Location: Pit-2 B1W, MCD:33.3Kg,

Monitoring Location: Pit-2 B1E, Monitoring Distance: 500Mtrs

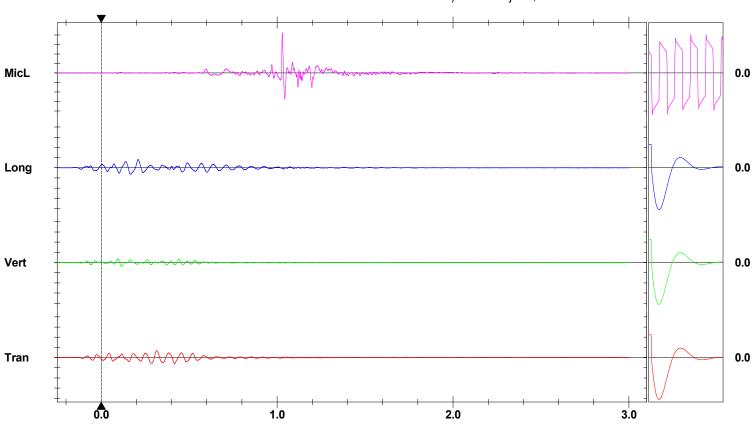
DGMS India (A)



Tran: + Vert: x Long: Ø

.....g. <u>.</u>

a)Industrial Buildings b)Domestic houses/structures c)Historic objects, sensitive structures



Trigger = -----

Time Scale: 0.20 sec/div Amplitude Scale: Geo: 2.000 mm/s/div Mic: 10.000 pa.(L)/div



Velocity (mm/s)

Date/Time MicL at 13:15:53 June 12, 2025 **Trigger Source** Geo: 0.600 mm/s, Mic: 6.325 pa.(L)

Geo: 254.0 mm/s Range 3.0 sec at 2048 sps **Record Time** Operator/Setup: Operator/MINES.MMB

Notes Location: Client:

User Name: KAKRA PANNA LIMESTONE MINES

General:

Microphone Linear Weighting **PSPL** 55.05 pa.(L) at 2.338 sec

ZC Freq 20 Hz

Channel Test Passed (Freq = 19.7 Hz Amp = 1040 mv)

	Tran	Vert	Long	
PPV	5.769	4.564	5.234	mm/s
ZC Freq	57	31	68	Hz
Time (Rel. to Trig)	0.301	0.509	0.631	sec
Peak Acceleration	0.211	0.255	0.222	g
Peak Displacement	0.015	0.019	0.013	mm
Sensor Check	Passed	Passed	Passed	
Frequency	7.3	7.5	7.5	Hz
Overswing Ratio	4.5	4.3	4.1	

Peak Vector Sum 6.436 mm/s at 0.508 sec

Serial Number UM20052 V 10-90FB Micromate ISEE

Battery Level 3.6 Volts

Unit Calibration February 22, 2025 by UES New Delhi File Name UM20052_20250612131553.IDFW

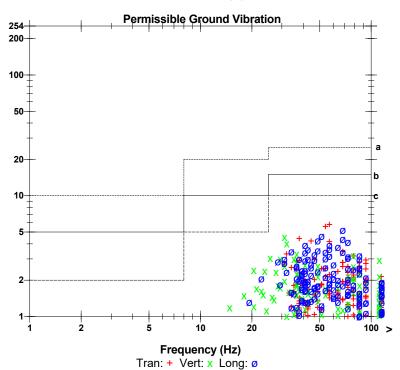
Post Event Notes

Blasting Location: Pit-1 B1S B Block, MCD:34.2Kg,

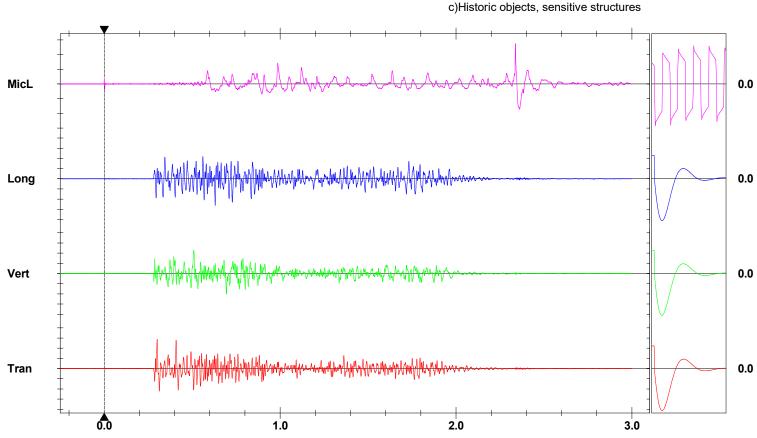
Monitoring Location: Pit-1 Kakara Road,

Monitoring Distance: 400Mtrs

DGMS India (A)



a)Industrial Buildings b)Domestic houses/structures



Trigger = ▶

Time Scale: 0.20 sec/div Amplitude Scale: Geo: 2.000 mm/s/div Mic: 20.00 pa.(L)/div



Date/Time Tran at 16:58:05 July 21, 2025 **Trigger Source** Geo: 0.600 mm/s, Mic: 6.325 pa.(L)

Geo: 254.0 mm/s Range 3.0 sec at 2048 sps **Record Time** Operator/Setup: Operator/MINES.MMB

Notes Location: Client:

User Name: KAKRA PANNA LIMESTONE MINES

General:

Microphone Linear Weighting <0.500 pa.(L) **PSPL ZC Freq** 16.5 Hz

Channel Test Passed (Freq = 19.7 Hz Amp = 1187 mv)

	Tran	Vert	Long	
PPV	0.969	0.520	1.876	mm/s
ZC Freq	79	93	68	Hz
Time (Rel. to Trig)	0.007	0.039	0.050	sec
Peak Acceleration	0.053	0.030	0.081	g
Peak Displacement	0.002	0.001	0.004	mm
Sensor Check	Passed	Passed	Passed	
Frequency	7.1	7.5	7.5	Hz
Overswing Ratio	4.8	4.4	4.4	

Peak Vector Sum 2.106 mm/s at 0.050 sec

N/A: Not Applicable

Serial Number UM20052 V 10-90FB Micromate ISEE

Battery Level 3.7 Volts

Unit Calibration February 22, 2025 by UES New Delhi File Name UM20052_20250721165805.IDFW

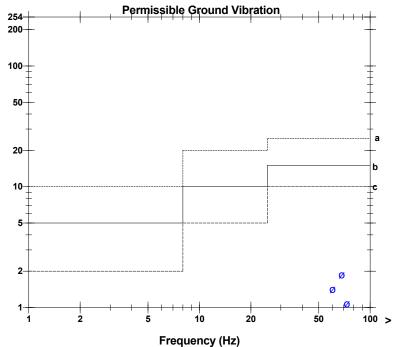
Post Event Notes

Blasting Location: Pit-1 B1E A Block, MCD:26.7Kg,

Monitoring Location: Pit-1 View Point,

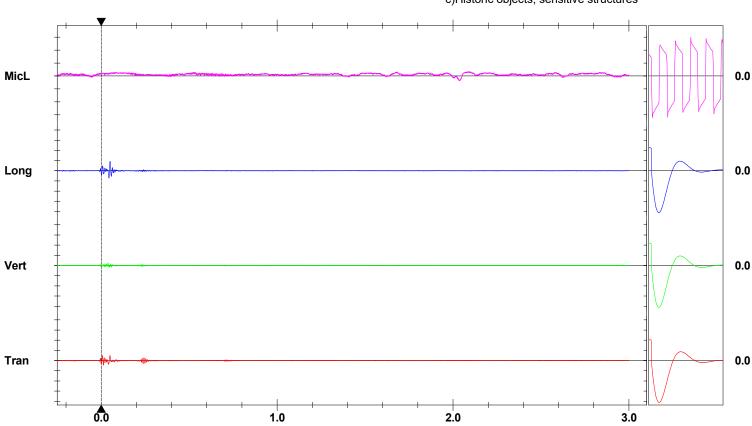
Monitoring Distance: 500Mtrs

DGMS India (A)



Tran: + Vert: x Long: ø

a)Industrial Buildings b)Domestic houses/structures c)Historic objects, sensitive structures



Format © 1995-2015 Xmark Corporation

Time Scale: 0.20 sec/div Amplitude Scale: Geo: 2.000 mm/s/div Mic: 1.000 pa.(L)/div

Trigger = ▶



Date/Time Vert at 12:49:16 August 11, 2025 **Trigger Source** Geo: 0.600 mm/s, Mic: 6.325 pa.(L)

Geo: 254.0 mm/s Range 3.0 sec at 2048 sps **Record Time** Operator/Setup: Operator/MINES.MMB

Notes Location: Client:

User Name: KAKRA PANNA LIMESTONE MINES

General:

Microphone Linear Weighting **PSPL**

6.625 pa.(L) at 0.011 sec

ZC Freq 146 Hz

Channel Test Passed (Freq = 19.7 Hz Amp = 1162 mv)

	Tran	Vert	Long	
PPV	2.026	1.576	0.867	mm/s
ZC Freq	73	41	68	Hz
Time (Rel. to Trig)	0.016	0.014	0.015	sec
Peak Acceleration	0.105	0.138	0.059	g
Peak Displacement	0.004	0.004	0.002	mm
Sensor Check	Passed	Passed	Passed	
Frequency	7.3	7.3	7.5	Hz
Overswing Ratio	4.6	4.4	4.4	

Peak Vector Sum 2.223 mm/s at 0.016 sec

Serial Number UM20052 V 10-90FB Micromate ISEE

Battery Level 3.8 Volts

Unit Calibration February 22, 2025 by UES New Delhi File Name UM20052_20250811124916.IDFW

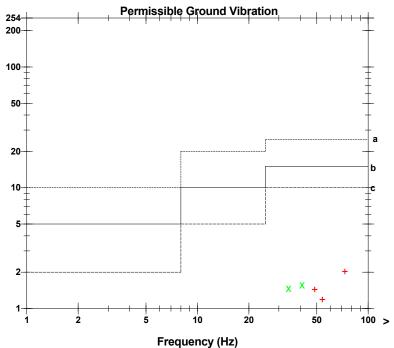
Post Event Notes

Blasting Location: Pit-1 B1S A Block, MCD:29.5Kg,

Monitoring Location: Pit-1 View Point,

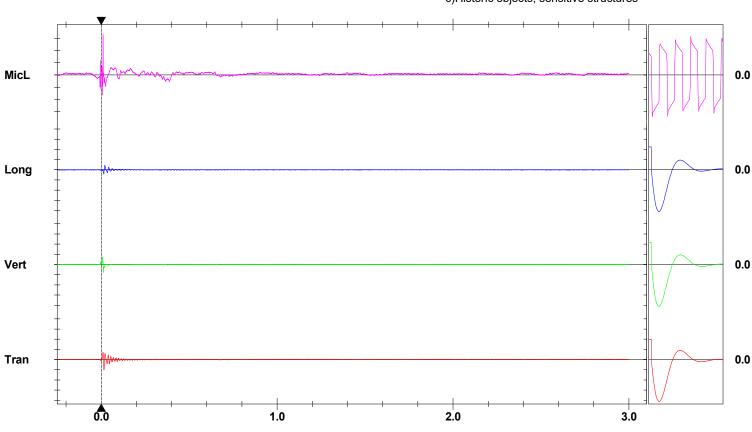
Monitoring Distance: 400Mtrs

DGMS India (A)



Tran: + Vert: x Long: ø

a)Industrial Buildings b)Domestic houses/structures c)Historic objects, sensitive structures



Time Scale: 0.20 sec/div Amplitude Scale: Geo: 2.000 mm/s/div Mic: 2.000 pa.(L)/div Trigger = ▶



ISO 9001, 14001 & 45001 Certified Company
EPA Recognized Laboratory | NABET Accredited EIA Consultant Organisation

TEST REPORT

Annexure-5

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/2507010008-10

Format No.: 7.8 F 02

ence No.: NIL

Report Date:

Report No.:

03/07/2025

Period of Analysis:

01-03/07/2025

Receipt Date

01/07/2025

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

: 26-27/06/2025

: 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	NH3 μg/m3	Pb μg/m3	Benzene μg/m3	Benzo(a) Pyrene	03 μg/m3	Nickel ng/m3	Arsenic ng/m3
S.NO	Location	IS: 518: (P-23)- 2006 R 2022	Charles and Section 1		(P-2): Sec	IS: 5182 (P-10) NDIR	IS 5182 (P-25): 2018	IS: 5182 (P-22): 2004,RA.20	IS: 5182 (P-11), 2006,RA.20	ng/m3 IS: 5182 (P-12), 20 RA 2019	IS: 5182 (P-9) :1974 R 2019	IS 5182 (P-26): 2020	VTL/STP/0 TP/09
1.	Kakra Mines (Near Mines Office)	44.26	23.59	14.15	9.16	0.67	*BLQ (**LOQ10.0)	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2	10.02	*BLQ	*BLQ
2.	Kakra Mines Boundry (Near CAAQMS)	42.04	21.71	12.89	8.53	0.55	*BLQ (**LOQ10.0)	*BLQ	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2	0.07	*BLQ (**LOQ 5.0	(**LOQ0.5) *BLQ (**LOQ0.5)
3.	(Security Office)	52.77	27.18	10.13	6.44	0.46	*BLQ (**LOQ10.0)	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2	8.86	*BLQ (**LOQ 5.0	*BLQ (**LOQ0.5)
3	#NAAQS Standard	100	60	80	80	04	400	01	05	01	180	20	06

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

Checked By



RK Yadav Lab Incharge Authorized Signatory

Corporate & Registered Office:

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

Terms & Conditions:

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



ISO 9001, 14001 & 45001 Certified Company EPA Recognized Laboratory | NABET Accredited EIA Consultant Organisation

TEST REPORT

Name & Address of the

Party

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 Report No.:

VTL/A/2507010011-17

Format No.:

7.8 F 02

Party Reference No.:

NIL

Report Date:

03/07/2025

Period of Analysis:

01-03/07/2025

Receipt Date

01/07/2025

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 : 26-27/06/2025

: VTL Team

: Calibrated

: Clear sky

: Human, Vehicular & Other Activities

: Regulatory Requirement

: IS-5182 & CPCB Guidelines

: 24 hrs.

: As Per Work Order

S.NO.	Sampling	PM10 μg/m3	PM2.5 μg/m3	NO2 μg/m3	SO2 μg/m3	CO mg/m3	
S.NU.	Location	IS: 5182 (P-23)-2006 R 2022	IS 5182 (P-24): 2019	IS: 5182 (P-6)-2006, R 2022	IS: 5182 (P-2): Sec 1 2023	IS: 5182 (P-10)-1999 ,RA.2019 NDIR	
1.	Saptai Village	49.92	29.77	15.40	9.03	0.57	
2.	Kamtana Village	46.70	27.08	12.63	7.31	0.68	
3.	Puraina Village	54.06	32.64	16.06	8.47	0.75	
4.	Pagra Village	56.09	33.89	20.19	10.79	0.77	
5.	Udla Village	47.93	29.70	13.34	8.78	0.62	
6.	Sotipura Village	44.17	26.60	11.47	7.41	0.51	
7.	Hinauta Village	53.44	31.35	15.62	9.23	0.56	
	#NAAQS Standard	100	60	80	80	0.30	

Corporate & Registered Office:

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

© 0141-2954638

bd@vibranttechnolab.com

www.vibranttechnolab.com

& Conditions:

RK Yadav Lab Incharge Authorized Signatory

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



ISO 9001, 14001 & 45001 Certified Company EPA Recognized Laboratory | NABET Accredited EIA Consultant Organisation

TEST REPORT

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-Amanganj PIN-488441 Dist-Panna Report No .:

VTL/A/2507010018-22

Format No .:

7.8 F 02

Party Reference No.:

Report Date:

03/07/2025

Period of Analysis:

01-03/07/2025

Receipt Date

01/07/2025

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 : 27-28/06/2025

: 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
Location Location		IS: 5182 (P-23)-2006 RA 2022	IS 5182 (P-24): 2019	IS: 5182 (P-6)-2006, RA 2022	IS: 5182 (P-2): Sec 1 2023	IS: 5182 (P-10)-1999 ,RA.201 NDIR
1.	Purwa Village	52.93	29.44	19.29	8.89	0.75
2.	Amanganj Village	44.87	28.10	17.63	7.46	0,67
3.	Bhupatpura Village	49.48	30.81	14.45	8.79	0.73
4.	Mahadkh Village	44.61	26.83	11.63	6.78	0.62
5.	Umeri Village	55.13	32.47	14.27	9.11	0.77
	#NAAQS Standard	100	60	80 ort	80	04

Checked By

Corporate & Registered Office:

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

© 0141-2954638 © bd@vibranttechnolab.com

www.vibranttechnolab.com

erms & Conditions:

RK Yadav Lab Incharge Authorized Signator

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

only, any query beyond 30 days will not be entertained.



TEST REPORT

Sustainability

Issued from: PITHAMPUR INDUSTRIAL WASTE MANAGEMENT PVT.LTD. (LABORATORY)

Issued to: J.K. Cement Works, Panna (A Unit of JK Cement Ltd.)

Village- Harduwaken, Tehsil- Amanganj

Dist. Panna, PIN- 488441

Madhya Pradesh

Lab Ref. No.: - PIWMPL/LAB/2232 to 2239/2025-26

Issued Date :- 03/10/2025

Sampling Location: Near Kakra Mine office

Monitoring Period: Ambient Air Quality Monitoring for the Month September- 2025

Date of Start of Analysis: 02/09/2025 to 30/09/2025 Date of Completion of Analysis: 03/10/2025

Other References:

Ref:1 Nature of Sample: Ambient Air Quality Monitoring (Core Zone) Ref:2 Ambient Temperature: Min.- 33.2 °C Max.- 35.5 °C Ref:3 Monitoring Carried out by: RESL Lab Team Ref:4 Duration of Sampling: 24 Hours Ref:5 Humidity:- Min.- 55% Ref:6 General Environment Condition: Clear Sky

Ref:7 Sampling Protocol: PIWMPL/LAB/SOP-45/2022: Rev./Issue:01

TEST LIMIT AS PER MADHYA PRADESH POLLUTION CONTROL BOARD (M.P.P.C.B)

Table 1 - Ambient Air Quality Monitoring Result

Parameters		PM-10 (μg/m3)	PM-2.5 (μg/m3)	NO ₂ (μg/m3)	SO ₂ (μg/m3)	CO (mg/m3)	
Method of Test			IC F103 (Dave 22)	IC 5402 (D. + 24)	IS 5402 (D. 1.5)	IC F402 (D C)	
S. No.	Date & Time of Sampling	Sample Received Date	2006	IS 5182 (Part 24) : 2019	2006	IS 5182 (Part 6) : 2006	IS 5182 (Part 10) : 1999 RA 2019 NDIR
1	02-09-2025	04-09-2025	20.24	12.27	13.19	7.54	0.34
2	05-09-2025	07-09-2025	31.48	19.08	14.97	6.76	0.33
3	09-09-2025	11-09-2025	22.98	13.93	12.08	7.17	0.40
4	12-09-2025	14-09-2025	42.08	25.50	14.30	8.32	0.34
5	16-09-2025	18-09-2025	34.18	20.72	12.31	8.16	0.42
6	19-09-2025	21-09-2025	18.30	11.09	11.88	7.78	0.48
7	23-09-2025	25-09-2025	50.24	30.45	16.34	7.00	0.42
8	26-09-2025	28-09-2025	52.98	32.11	17.19	9.56	0.43
	Minimum		18.30	11.09	11.88	6.76	0.33
	Maximum		52.98	32.11	17.19	9.56	0.48
Monthly Average Value		34.06	20.64	14.03	7.79	0.40	
Limit			100	60	80	80	4.0

- 1. The above results relate only to conditions prevailing at the time of sampling.
- 2. Statement of conformity to a specification or standard is given only on the request of customer.
- 3. The report cannot be reproduced in part or in full without the permission of Pithampur Industrial Waste Management Pvt. Ltd.

****** End of the test report******

Authorized Signatory:

S.Babyrani

PIWMPL/LAB/QRF/00/21.07.2022

Pithampur Industrial Waste Management Private Limited [A Subsidiary of Re Sustainability Limited]

CIN No. U90000TG2010PTC071919

Registered Office:

Level 11B, Aurobindo Galaxy, Hyderabad Knowledge City, Hitech City Road, Hyderabad-500 081. India.

Site Address:

Plot No 104, Industrai Area, Sector-II, Pithampur, District Dhar - 454 775, Madhya Pradesh, India.

Certificate REG No : 23EQKR96 [ISO 9001 : 2015] Certificate REG No : 23EEKW93 [ISO 14001 : 2015] Certificate REG No : 23EOKE89 [ISO 45001 : 2018]





TEST REPORT

Sustainability

Issued from: PITHAMPUR INDUSTRIAL WASTE MANAGEMENT PVT.LTD. (LABORATORY)

Issued to: J.K. Cement Works, Panna (A Unit of JK Cement Ltd.)

Village- Harduwaken, Tehsil- Amanganj

Dist. Panna, PIN- 488441

Madhya Pradesh

Lab Ref. No.: - PIWMPL/LAB/2240 to 2247/2025-26

Issued Date :- 03/10/2025

Sampling Location: Near Secruity Office

Monitoring Period: Ambient Air Quality Monitoring for the Month September- 2025

Date of Start of Analysis: 02/09/2025 to 30/09/2025

Date of Completion of Analysis: 03/10/2025

Other References:

Ref:1 Nature of Sample: Ambient Air Quality Monitoring (Core Zone) Ref:2 Ambient Temperature: Min.- 33.2 °C Max.- 35.5 °C

Ref:3 Monitoring Carried out by: RESL Lab Team Ref:4 Duration of Sampling: 24 Hours

Ref:5 Humidity:- Min.- 55% Max.- 65% Ref:6 General Environment Condition: Clear Sky

Ref:7 | Sampling Protocol: PIWMPL/LAB/SOP-45/2022: Rev./Issue:01

TEST LIMIT AS PER MADHYA PRADESH POLLUTION CONTROL BOARD (M.P.P.C.B)

Table 1 - Ambient Air Quality Monitoring Result

Parameters			PM-10 (μg/m3)	PM-2.5 (μg/m3)	NO ₂ (μg/m3)	SO ₂ (μg/m3)	CO (mg/m3)
Method of Test		IS 5182 (Part 23)	IS 5182 (Part 24) :	IS 5182 (Part 6):	IS 5182 (Part 6):	IS 5182 (Part 10) :	
S. No.	Date & Time of Sampling	Sample Received Date	2006	2019	2006	2006	1999 RA 2019 NDIR
1	02-09-2025	04-09-2025	18.04	11.14	13.34	7.38	0.31
2	05-09-2025	07-09-2025	33.22	20.51	14.32	8.25	0.32
3	09-09-2025	11-09-2025	19.40	11.98	12.34	7.25	0.36
4	12-09-2025	14-09-2025	37.24	22.99	14.32	9.14	0.39
5	16-09-2025	18-09-2025	26.94	16.63	13.52	8.75	0.44
6	19-09-2025	21-09-2025	23.22	14.33	12.54	7.94	0.44
7	23-09-2025	25-09-2025	44.03	27.18	14.43	10.03	0.36
8	26-09-2025	28-09-2025	48.13	29.71	16.43	9.60	0.38
	Minimum	g.	18.04	11.14	12.34	7.25	0.31
Maximum		48.13	29.71	16.43	10.03	0.44	
	Monthly Average	Value	31.28	19.31	13.91	8.54	0.38
Limit		100	60	80	80	4.0	

- 1. The above results relate only to conditions prevailing at the time of sampling.
- 2. Statement of conformity to a specification or standard is given only on the request of customer.
- 3. The report cannot be reproduced in part or in full without the permission of Pithampur Industrial Waste Management Pvt. Ltd.

****** End of the test report***

Authorized signatory:

S.Babyrani

PIWMPL/LAB/QRF/00

Pithampur Industrial Waste Management Private Limited (A Subsidiary of Re Sustainability Limited)

CIN No. U90000TG2010PTC071919

Registered Office:

Level 11B, Aurobindo Galaxy, Hyderabad Knowledge City, Hitech City Road, Hyderabad-500 081. India. Site Address:

Plot No 104, Industrai Area, Sector-II, Pithampur, District Dhar - 454 775, Madhya Pradesh, India. Certificate REG No : 23EQKR96 [ISO 9001 : 2015] Certificate REG No : 23EEKW93 [ISO 14001 : 2015] Certificate REG No : 23EOKE89 [ISO 45001 : 2018]



TEST REPORT Sustainability

Issued from: PITHAMPUR INDUSTRIAL WASTE MANAGEMENT PVT.LTD. (LABORATORY)

Issued to: J.K. Cement Works, Panna (A Unit of JK Cement Ltd.)

Lab Ref. No.: - PIWMPL/LAB/2248 to 2255/2025-26

Village- Harduwaken, Tehsil- Amanganj Issued Date :- 03/10/2025

Dist. Panna, PIN- 488441

Sampling Location: Kakra Mine Lease Area (Near Kamtana CAAQMS)

Monitoring Period: Ambient Air Quality Monitoring for the Month September- 2025

Date of Start of Analysis: 02/09/2025 to 30/09/2025

Date of Completion of Analysis: 03/10/2025

Other References:

Madhva Pradesh

Ref:1Nature of Sample: Ambient Air Quality Monitoring (Core Zone)Ref:2Ambient Temperature: Min.- 33.2 °CMax.- 35.5 °CRef:3Monitoring Carried out by: RESL Lab TeamRef:4Duration of Sampling: 24 HoursRef:5Humidity:- Min.- 55%Max.- 65%Ref:6General Environment Condition: Clear Sky

Ref:7 | Sampling Protocol: PIWMPL/LAB/SOP-45/2022: Rev./Issue:01

TEST LIMIT AS PER MADHYA PRADESH POLLUTION CONTROL BOARD (M.P.P.C.B)

Table 1 - Ambient Air Quality Monitoring Result

Parameters Method of Test			PM-10 (μg/m3)	PM-2.5 (μg/m3)	NO ₂ (μg/m3)	SO ₂ (μg/m3)	CO (mg/m3)
			IS 5182 (Part 23) :	IS 5182 (Part 24) :	IS 5182 (Part 6) :	IS 5182 (Part 6) :	IS 5182 (Part 10) :
S. No.	Date & Time of Sampling	Sample Received Date	2006	2019	2006	2006	1999 RA 2019 NDIR
1	02-09-2025	04-09-2025	23.52	13.36	14.52	8.31	0.31
2	05-09-2025	07-09-2025	27.62	15.69	15.43	7.43	0.33
3	09-09-2025	11-09-2025	28.25	16.05	14.01	9.63	0.35
4	12-09-2025	14-09-2025	45.21	25.69	14.43	8.03	0.39
5	16-09-2025	18-09-2025	37.28	21.18	17.14	8.12	0.37
6	19-09-2025	21-09-2025	31.32	17.80	16.44	8.03	0.26
7	23-09-2025	25-09-2025	42.24	24.00	15.32	7.32	0.43
8	26-09-2025	28-09-2025	49.77	28.28	17.43	8.52	0.35
	Minimum		23.52	13.36	14.01	7.32	0.26
Maximum		Maximum 49.77	28.28	17.43	9.63	0.43	
	Monthly Average	Value	35.65	20.26	15.59	8.17	0.35
Limit		100	60	80	80	4.0	

- The above results relate only to conditions prevailing at the time of sampling.
- Statement of conformity to a specification or standard is given only on the request of customer.
- 3. The report cannot be reproduced in part or in full without the permission of Pithampur Industrial Waste Management Pvt. Ltd.

****** End of the test report******

Authorized Signatory:

S.Babyrani

PIWMPL/LAB/QRF/00

Pithampur Industrial Waste Management Private Limited [A Subsidiary of Re Sustainability Limited]

CIN No. U90000TG2010PTC071919

Registered Office:

Level 11B, Aurobindo Galaxy, Hyderabad Knowledge City, Hitech City Road, Hyderabad-500 081. India. Site Address:

Plot No 104, Industrai Area, Sector-II, Pithampur, District Dhar - 454 775, Madhya Pradesh, India. Certificate REG No : 23EQKR96 [ISO 9001 : 2015] Certificate REG No : 23EEKW93 [ISO 14001 : 2015] Certificate REG No : 23EOKE89 [ISO 45001 : 2018]



TEST REPORT

Sustainability

Issued from: PITHAMPUR INDUSTRIAL WASTE MANAGEMENT PVT.LTD. (LABORATORY)

Issued to: J.K. Cement Works, Panna (A Unit of JK Cement Ltd.)

Village- Harduwaken, Tehsil- Amanganj

Dist. Panna, PIN- 488441

Madhya Pradesh

Lab Ref. No.: - PIWMPL/LAB/2256 to 2263/2025-26

Issued Date :- 03/10/2025

Sampling Location: Kakra Mine Pit Back side

Monitoring Period: Ambient Air Quality Monitoring for the Month September- 2025

Date of Start of Analysis: 02/09/2025 to 30/09/2025 Date of Completion of Analysis: 03/10/2025

Other References:

Nature of Sample: Ambient Air Quality Monitoring (Core Zone) Ref:1 Ref:2 Ambient Temperature: Min.- 33.2 °C Max.- 35.5 °C Ref:3 Monitoring Carried out by: RESL Lab Team Ref:4 Duration of Sampling: 24 Hours Ref:5 Humidity:- Min.- 55% Max.- 65% Ref:6 General Environment Condition: Clear Sky

Ref:7 Sampling Protocol: PIWMPL/LAB/SOP-45/2022: Rev./Issue:01

TEST LIMIT AS PER MADHYA PRADESH POLLUTION CONTROL BOARD (M.P.P.C.B)

Table 1 - Ambient Air Quality Monitoring Result

Parameters Method of Test			PM-10 (μg/m3)	PM-2.5 (μg/m3)	NO ₂ (μg/m3)	SO ₂ (μg/m3)	CO (mg/m3)
			IS 5182 (Part 23)	IS 5182 (Part 24) :	IS 5182 (Part 6) :	IS 5182 (Part 6):	IS 5182 (Part 10):
S. No.	Date & Time of Sampling	Sample Received Date	2006	2019	2006	2006	1999 RA 2019 NDIR
1	02-09-2025	04-09-2025	26.39	16.49	8.53	14.51	0.37
2	05-09-2025	07-09-2025	18.32	11.45	7.46	13.40	0.33
3	09-09-2025	11-09-2025	30.39	18.99	7.00	12.40	0.39
4	12-09-2025	14-09-2025	42.55	26.59	8.64	15.51	0.44
5	16-09-2025	18-09-2025	47.32	29.58	9.73	16.31	0.42
6	19-09-2025	21-09-2025	26.32	16.45	7.58	12.97	0.40
7	23-09-2025	25-09-2025	33.66	21.04	8.53	17.40	0.44
8	26-09-2025	28-09-2025	52.32	32.70	8.45	16.75	0.48
Xu_	Minimum		18.32	11.45	7.00	12.40	0.33
	Maximum		52.32	32.70	9.73	17.40	0.48
Monthly Average Value		34.66	21.66	8.24	14.91	0.41	
Limit		100	60	80	80	4.0	

- 1. The above results relate only to conditions prevailing at the time of sampling.
- 2. Statement of conformity to a specification or standard is given only on the request of customer.
- 3. The report cannot be reproduced in part or in full without the permission of Pithampur Industrial Waste Management Pvt. Ltd.

***** End of the test report******

Authorized Signatory:

S.Babyrani

PIWMPL/LAB/QRF/00

Pithampur Industrial Waste Management Private Limited (A Subsidiary of Re Sustainability Limited)

CIN No. U90000TG2010PTC071919

Registered Office:

Level 11B, Aurobindo Galaxy, Hyderabad Knowledge City, Hitech City Road, Hyderabad-500 081. India.

Site Address:

Plot No 104, Industrai Area, Sector-II, Pithampur, District Dhar - 454 775. Madhya Pradesh, India.

Certificate REG No : 23EQKR96 [ISO 9001 : 2015] Certificate REG No : 23EEKW93 [ISO 14001 : 2015] Certificate REG No : 23EOKE89 [ISO 45001 : 2018]

T: 7067678811,12,13 E: mbdmpwmp@resustainability.com

piwmpl.com



Sustainability **TEST REPORT** Issued from: PITHAMPUR INDUSTRIAL WASTE MANAGEMENT PVT.LTD. (LABORATORY) Issued to: J.K. Cement Works, Panna (A Unit of JK Cement Ltd.) Lab Ref. No.: - PIWMPL/LAB/2264 to 2267/2025-26 Village- Harduwaken, Tehsil- Amanganj Issued Date :- 03/10/2025 Dist. Panna, PIN- 488441 Madhya Pradesh Sampling Location: Kakra Village, Depra Village & Hardua Village Monitoring Period: Ambient Air Quality Monitoring for the Month September- 2025 Date of Sampling: 05/09/2025 & 12/09/2025 Date of Sample Reciept: 07/09/2025 & 14/09/2025 Date of Start of Analysis: 07/09/2025 to 17/09/2025 Date of Completion of Analysis: 03/10/2025 Other References: Ref:1 Nature of Sample: Ambient Air Quality Monitoring (Core Zone) Ref:2 Ambient Temperature: Min.- 33.2 °C Max.- 35.5 °C Ref:3 Monitoring Carried out by: RESL Lab Team **Duration of Sampling: 24 Hours** Ref:4 Ref:5 Humidity:- Min.- 55% Max.- 65% Ref:6 General Environment Condition: Clear Sky Ref:7 Sampling Protocol: PIWMPL/LAB/SOP-45/2022: Rev./Issue:01

TEST LIMIT AS PER MADHYA PRADESH POLLUTION CONTROL BOARD (M.P.P.C.B)

Table 1 - Ambient Air Quality Monitoring Result

Parameters Method of Test			PM-10 (μg/m3)	PM-2.5 (μg/m3)	NO ₂ (μg/m3)	SO ₂ (μg/m3)	CO (mg/m3)
			IS 5182 (Part 23) :	IS 5182 (Part 24) :	IS 5182 (Part 6):	IS 5182 (Part 6):	IS 5182 (Part 10):
S. No.	Date & Time of Sampling	Sampling Location	2006	2019	2006	2006	1999 RA 2019 NDIR
1	05.09.2025	Kakra Village	44.40	25.23	15.58	8.59	0.58
2	05.09.2025	Kamtana Village	48.30	27.44	16.43	8.37	0.61
3	12.09.2025	Deora Viilage	52.20	29.66	17.43	7.73	0.44
4	12.09.2025	Saptai Village	51.40	29.20	14.64	8.19	0.47
	Monthly Aver	rage Value	49.08	25.68	16.14	8.24	0.53
	Limi	t	100	60	80	80	4.0

- 1. The above results relate only to conditions prevailing at the time of sampling.
- 2. Statement of conformity to a specification or standard is given only on the request of customer.
- 3. The report cannot be reproduced in part or in full without the permission of Pithampur Industrial Waste Management Pvt. Ltd.

****** End of the test report*******

Authorized Signatory:

S.Babyrani

PIWMPL/LAB/QRF/00/21.07.2022

Pithampur Industrial Waste Management Private Limited (A Subsidiary of Re Sustainability Limited)

CIN No. U90000TG2010PTC071919

Registered Office:

Level 11B, Aurobindo Galaxy, Hyderabad Knowledge City, Hitech City Road, Hyderabad-500 081. India. Site Address:

Plot No 104, Industrai Area, Sector-II, Pithampur, District Dhar - 454 775, Madhya Pradesh, India.



Certificate REG No : 23EQKR96 [ISO 9001 : 2015] Certificate REG No : 23EEKW93 [ISO 14001 : 2015] Certificate REG No : 23EOKE89 [ISO 45001 : 2018]



ISO 9001, 14001 & 45001 Certified Company

EPA Recognized Laboratory | NABET Accredited EIA Consultant Organisation

TEST REPORT

Annexure-6

Sample Number:

Name & Address of the Party

VTL/FD/01

M/s JK Cement Works, Panna (A Unit Of JK Cement Ltd.) Kakra- Panna Limestone Mines Village-Harduwaken Tehsil-Amanganj PIN-488441 Dist-Panna Report No.: Format No.: VTL/FD/2507010009

ormat No.:

7.8 F 02

Party Reference No.:

NIII

Report Date:

03/07/2025

Period of Analysis:

01-03/07/2025

Receipt Date

01/07/2025

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 Crusher (Transfer Point)

: VTL Team

: HVS

: VTL/HVS/01

: --

: --

: Clear sky

: 26/06/2025

: 09:00 to 13:00 Hrs.

: Min. 26°C, Max. 29°C

: Human, Vehicular& Plant Activities

: IS-5182 & CPCB Guidelines

: 4 hrs.

: As Per Work Order

Parameter	Protocol	Result	Unit	Limit
	VTL/STP/02/STP/01	290.73	μg/m3	600
	ended Particulate Matter (SPM)	ended Particulate Matter (SPM) VTL/STP/02/STP/01		ended Particulate Matter (SPM) VTL/STP/02/STP/01 290.73 µg/m3

Checked By



RK Yadav
Lab Incharge
Authorized Signatory
Pages 1 of 1

Corporate & Registered Office:

- Plot No. Q-39, Shringarpura, Narayan Vihar Q, Bhankrota, Jaipur 302026 (Raj.)
- 3 0141-2954638 bd@vibranttechnolab.com
- mww.vibranttechnolab.com

Terms & Conditions:

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



ISO 9001, 14001 & 45001 Certified Company
EPA Recognized Laboratory | NABET Accredited EIA Consultant Organisation

TEST REPORT

Sample Number:

Name & Address of the Party

VTL/FD/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

Report No.:

VTL/FD/2507010010

Format No.:

7.8 F 02

Party Reference No.:

NIL

Report Date:

03/07/2025

Period of Analysis:

01-03/07/2025

Receipt Date

01/07/2025

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 Mine pit Back Side

: VTL Team

: HVS

: VTL/HVS/01

. ..

.

: Clear sky

: 26/06/2025

: 14:30 to 18:30 Hrs.

: Min. 27°C, Max. 30°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	184.04	μg/m3	600
		End of the Report	Branche Torres	μg/1113	000

Cheered By



RK Yadav
Lab Incharge
Authorized Signatory
Pages 1 of 1

Corporate & Registered Office:

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

3 0141-2954638 bd@vibranttechnolab.com

www.vibranttechnolab.com

Terms & Conditions:

1. The Result Listed refer only to the tested sample and applicable parameters.
2. Total Liability of our concern is limited to the invoiced amount. 3. The report is

not to be reproduced wholly or part and cannot be used as an evidence in the court of law and should not be used in any advertising media without our special permission in writing. 4. Authenticity of Test Report and Accreditation status may be seen online through QR Code. 5. Retention period of sample will be 30 days only, any query beyond 30 days will not be entertained.



ISO 9001, 14001 & 45001 Certified Company EPA Recognized Laboratory | NABET Accredited EIA Consultant Organisation

TEST REPORT

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.:

Format No.:

VTL/FD/2507010011

7.8 F 02

Party Reference No.:

NII.

Report Date:

03/07/2025

Period of Analysis:

01-03/07/2025

Receipt Date

01/07/2025

Sample Description:

General Information:-Sampling Location

Sample collected by

Instrument Code

Date of Sampling

Time of Sampling

Surrounding Activity

Method of Sampling

Sampling Duration

Parameter Required

Ambient Temperature (°C)

Latitude Longitude

Sampling Equipment used

Meteorological condition during monitoring

Fugitive Emission Monitoring

Results

: Near Kakra Haulage Road

: VTL Team

: HVS

: VTL/HVS/02

: Clear sky

: 26/06/2025

: 09:30 to 13:30 Hrs.

: Min. 26°C, Max. 29°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	224.72	μg/m3	600

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



RK Yadav Lab Incharge Authorized Signato

Pages 1 of 1

Corporate & Registered Office:

- O Plot No. Q-39, Shringarpura, Narayan Vihar Q, Bhankrota, Jaipur 302026 (Raj.)
- 3 0141-2954638 bd@vibranttechnolab.com
- www.vibranttechnolab.com

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



ISO 9001, 14001 & 45001 Certified Company
EPA Recognized Laboratory | NABET Accredited EIA Consultant Organisation

TEST REPORT

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-Amangani PIN-488441 Dist-Panna Report No.:

VTL/FD/2507010012

Format No.:

7.8 F 02

Party Reference No.:

NII.

Report Date:

03/07/2025

Period of Analysis:

01-03/07/2025

Receipt Date

01/07/2025

Sample Description:

General Information:-Sampling Location

Sample collected by

Instrument Code

Date of Sampling

Time of Sampling

Surrounding Activity

Method of Sampling

Sampling Duration

Parameter Required

Ambient Temperature (°C)

Latitude Longitude

Sampling Equipment used

Meteorological condition during monitoring

Fugitive Emission Monitoring

Results

: Near Kakra Mine Crusher (Unloading Point)

: VTL Team

: HVS

: VTL/HVS/02

. ..

: --

: Clear sky

: 26/06/2025

: 14:40 to 18:40 Hrs.

: Min. 27°C, Max. 30°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	146.98	μg/m3	600

Checked By



RK Yadav Lab Incharge Authorized Signatory

Pages 1 of 1

Corporate & Registered Office:

- O Plot No. Q-39, Shringarpura, Narayan Vihar Q, Bhankrota, Jaipur 302026 (Raj.)
- 3 0141-2954638 bd@vibranttechnolab.com
- www.vibranttechnolab.com

Terms & Conditions:

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



ISO 9001, 14001 & 45001 Certified Company EPA Recognized Laboratory | NABET Accredited EIA Consultant Organisation

TEST REPORT

Sample Number:

Name & Address of

Sample Description:

the Party

VTL/FD/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

Fugitive Emission Monitoring

Report No.:

VTL/FD/2507010013

Format No.:

7.8 F 02

Party Reference No.:

NIL

Report Date:

03/07/2025

Period of Analysis:

01-03/07/2025

Receipt Date

01/07/2025

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

Results

: Clear sky

: 27/06/2025

: 09:30 to 13:30 Hrs.

: Min. 25°C, Max. 31°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	167.53	μg/m3	600
S		1 18 2 1 2 2 20 20	Lin is a constant	uenonded Particulate Matter (CDM) virgi (gmp (eq. (gmp in)



RK Yadav Lab Incharge Authorized Signator

Pages 1 of 1

Corporate & Registered Office:

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

● 0141-2954638 bd@vibranttechnolab.com

www.vibranttechnolab.com

Terms & Conditions:

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



	TES	T REP	ORT		
Issued	from: PITHAMPUR INDUSTRIAL WASTE MANAGEMENT PVT.LTD.	(LABOR	TORY)		
Issued	to: J.K. Cement Works, Panna (A Unit of JK Cement Ltd.)		Lab Ref. No.: - PIWMPL/LAB/2268/2025-26		
	Village- Harduwaken, Tehsil- Amanganj		Issued Date :- 03/10/2025		
	Dist. Panna, PIN- 488441				
	Madhya Pradesh				
Sampli	ng Location: Near Kakra Crusher Area (Unloading Point)				
Date &	Time of Monitoring:- 27/09/2025 - 09:00 hrs to 13:20 hrs		Date of Sample Reciept: 28/09/2025		
Date of	f Start of Analysis: 28/09/2025		Date of Completion of Analysis: 30/09/2025		
Other F	References :				
Ref:1	Nature of Sample: Fugitive Emission Monitoring (Core Zone)	Ref:2	Ambient Temperature: Min 27.2 °C Max 35.5 °C		
Ref:3	Monitoring Carried out by: RESL Lab Team	Ref:4	Duration of Sampling: 04.20 Hours		
	Humidity:- Min 55% Max 65%	Ref:6	General Environment Condition: Clear Sky		
Ref:5					

Table 1 - Fugitive Emission Monitoring Result

S. No.	Parameters	Unit	Result	Limit	Method of Test
1	Suspended Particulate Matter (SPM)	μg/m3	397.1	600	PIWMPL/LAB/STP/12, Issue No.1, Issue Date: 22.0/.2022

Note:

- 1. The above results relate only to conditions prevailing at the time of sampling.
- 2. Statement of conformity to a specification or standard is given only on the request of customer.
- 3. The report cannot be reproduced in part or in full without the permission of Pithampur Industrial Waste Management Pvt. Ltd.

****** End of the test report *******

Authorized/Signatory:

S.Babyrani

PIWMPL/LAB/QRF/00/21.07.2022

LABORATORY PITHAMPUR (M.P.)



CIN No. U90000TG2010PTC071919

Registered Office:

Level 11B, Aurobindo Galaxy, Hyderabad Knowledge City, Hitech City Road, Hyderabad-500 081. India. Site Address: Plot No 104, Industrai Area, Sector-II, Pithampur, District Dhar - 454 775, Madhya Pradesh, India.



Certificate REG No : 23EQKR96 [ISO 9001 : 2015] Certificate REG No : 23EEKW93 [ISO 14001 : 2015] Certificate REG No : 23EOKE89 [ISO 45001 : 2018]



	TEST	T REP	ORT		
Issued	from: PITHAMPUR INDUSTRIAL WASTE MANAGEMENT PVT.LTD.	(LABORA	ATORY)		
Issued	to: J.K. Cement Works, Panna (A Unit of JK Cement Ltd.)		Lab Ref. No.: - PIWMPL/LAB/2269/2025-26		
Village- Harduwaken, Tehsil- Amanganj			Issued Date :- 03/10/2025		
	Dist. Panna, PIN- 488441				
	Madhya Pradesh				
Sampli	ng Location: Near Kakra Crusher Area (Transfer Point) Area				
Date &	Time of Monitoring:- 27/09/2025 - 13:40 hrs to 17:45 hrs		Date of Sample Reciept: 28/09/2025		
Date of Start of Analysis: 28/09/2025			Date of Completion of Analysis: 30/09/2025		
Other F	teferences :				
Ref:1	Nature of Sample: Fugitive Emission Monitoring (Core Zone)	Ref:2	Ambient Temperature: Min 33.2 °C Max 35.5 °C		
Ref:3	Monitoring Carried out by: RESL Lab Team	Ref:4	Duration of Sampling: 04.15 Hours		
n (-	Humidity:- Min 55% Max 65%	Ref:6	General Environment Condition: Clear Sky		
Ref:5					

Table 1 - Fugitive Emission Monitoring Result

S. No.	Parameters	Unit	Result	Limit	Method of Test
1	Suspended Particulate Matter (SPM)	μg/m3	346.3	600	PIWMPL/LAB/STP/12, Issue No.1, Issue Date: 22.07.2022

Note:

- 2. Statement of conformity to a specification or standard is given only on the request of customer.
- 3. The report cannot be reproduced in part or in full without the permission of Pithampur Industrial Waste Management Pvt. Ltd.

****** End of the test report *******

S.Babyrani

PIWMPL/LAB/QRF/00/21.07.2022

Pithampur Industrial Waste Management Private Limited (A Subsidiary of Re Sustainability Limited)

CIN No. U90000TG2010PTC071919

Registered Office:

Level 11B, Aurobindo Galaxy, Hyderabad Knowledge City, Hitech City Road, Hyderabad-500 081. India.

Site Address:

Plot No 104, Industrai Area, Sector-II, Pithampur, District Dhar - 454 775, Madhya Pradesh,

India.

Certificate REG No : 23EQKR96 [ISO 9001 : 2015] Certificate REG No : 23EEKW93 [ISO 14001 : 2015] Certificate REG No : 23EOKE89 [ISO 45001 : 2018]

T: 7067678811,12,13

E: mbdmpwmp@resustainability.com

piwmpl.com



	TES	TREP	ORT		
Issued	from: PITHAMPUR INDUSTRIAL WASTE MANAGEMENT PVT.LTD.	(LABOR	TORY)		
Issued	to: J.K. Cement Works, Panna (A Unit of JK Cement Ltd.)		Lab Ref. No.: - PIWMPL/LAB/2270/2025-26		
Village- Harduwaken, Tehsil- Amanganj			Issued Date :- 03/10/2025		
	Dist. Panna, PIN- 488441				
	Madhya Pradesh				
Sampli	ng Location: Near Kakra Mine Haulage Road				
Date &	Time of Monitoring:- 29/09/2025 - 09:00 hrs to 13:05 hrs		Date of Sample Reciept: 30/09/2025		
Date of Start of Analysis: 30/09/2025		Date of Completion of Analysis: 03/10/2025			
Other I	References:		<u> </u>		
Ref:1	Nature of Sample: Fugitive Emission Monitoring (Core Zone)	Ref:2	Ambient Temperature: Min 33.2 °C Max 35.5 °C		
persepen.			Duration of Sampling: 04.05 Hours		
Ref:3	Monitoring Carried out by: RESL Lab Team	Ref:4	Duration of Sampling: 04.05 Hours		
Ref:3 Ref:5	Monitoring Carried out by: RESL Lab Team Humidity:- Min 55% Max 65%	Test services	Duration of Sampling: 04.05 Hours General Environment Condition: Clear Sky		

Table 1 - Fugitive Emission Monitoring Result

S. No.	Parameters	Unit	Result	Limit	Method of Test
1	Suspended Particulate Matter (SPM)	μg/m3	403.2	600	PIWMPL/LAB/STP/12, Issue No.1, Issue Date: 22.07.2022

Note:

- The above results relate only to conditions prevailing at the time of sampling.
- 2. Statement of conformity to a specification or standard is given only on the request of customer.
- 3. The report cannot be reproduced in part or in full without the permission of Pithampur Industrial Waste Management Pvt. Ltd.

****** End of the test report******

orized Signatory:

S.Babyrani

PIWMPL/LAB/QRF/00/21.07.2022

Pithampur Industrial Waste Management Private Limited [A Subsidiary of Re Sustainability Limited]

CIN No. U90000TG2010PTC071919

Registered Office:

Level 11B, Aurobindo Galaxy, Hyderabad Knowledge City, Hitech City Road, Hyderabad-500 081. India. Site Address:

Plot No 104, Industrai Area, Sector-II, Pithampur, District Dhar - 454 775, Madhya Pradesh, India.



Certificate REG No : 23EQKR96 (ISO 9001 : 2015) Certificate REG No : 23EEKW93 (ISO 14001 : 2015) Certificate REG No : 23EOKE89 (ISO 45001 : 2018)



	TES	T REP	ORT		
Issued	from: PITHAMPUR INDUSTRIAL WASTE MANAGEMENT PVT.LTD.	(LABORA	TORY)		
Issued	to: J.K. Cement Works, Panna (A Unit of JK Cement Ltd.)		Lab Ref. No.: - PIWMPL/LAB/2271/2025-26		
	Village- Harduwaken, Tehsil- Amanganj		Issued Date :- 03/10/2025		
	Dist. Panna, PIN- 488441				
	Madhya Pradesh				
Sampli	ng Location: Near Mine Pit (Loading Point)				
Date &	Time of Monitoring:- 29/09/2025 - 13:15 hrs to 17:20 hrs		Date of Sample Reciept: 30/09/2025		
Date of	Start of Analysis: 30/09/2025		Date of Completion of Analysis: 03/10/2025		
Other R	References :				
Ref:1	Nature of Sample: Fugitive Emission Monitoring (Core Zone)	Ref:2	Ambient Temperature: Min 33.6 °C Max 35.5 °C		
Ref:3	Monitoring Carried out by: RESL Lab Team	Ref:4	Duration of Sampling: 04.05 Hours		
Ref:5	Humidity:- Min 55% Max 65%	Ref:6	General Environment Condition: Clear Sky		
Ref:7	Sampling Protocol: PIWMPL/LAB/SOP-45/2022: Rev./Issue:01				

Table 1 - Fugitive	Emission	Monitoring Result
--------------------	----------	-------------------

S. No.	Parameters	Unit	Result	Limit	Method of Test
1	Suspended Particulate Matter (SPM)	μg/m3	309.7	600	PIWMPL/LAB/STP/12, Issue No.1, Issue Date: 22.07.2022

Note:

- 1. The above results relate only to conditions prevailing at the time of sampling.
- 2. Statement of conformity to a specification or standard is given only on the request of customer.
- 3. The report cannot be reproduced in part or in full without the permission of Pithampur Industrial Waste Management Pvt. Ltd.

****** End of the test report******

Authorized Signatory:

S.Babyrani

PIWMPL/LAB/QRF/00/21.07.2022

Pithampur Industrial Waste Management Private Limited (A Subsidiary of Re Sustainability Limited)

CIN No. U90000TG2010PTC071919

Registered Office:

Level 11B, Aurobindo Galaxy, Hyderabad Knowledge City, Hitech City Road, Hyderabad-500 081. India. Site Address:

Plot No 104, Industrai Area, Sector-II, Pithampur, District Dhar - 454 775, Madhya Pradesh, India. 2

Certificate REG No : 23EQKR96 [ISO 9001 : 2015] Certificate REG No : 23EEKW93 [ISO 14001 : 2015] Certificate REG No : 23EOKE89 [ISO 45001 : 2018]

> T: 7067678811,12,13 E: mbdmpwmp@resustainability.com

> > piwmpl.com



	TES	T REP	PORT		
Issued	from: PITHAMPUR INDUSTRIAL WASTE MANAGEMENT PVT.LTD.	(LABOR	ATORY)		
Issued	to: J.K. Cement Works, Panna (A Unit of JK Cement Ltd.)		Lab Ref. No.: - PIWMPL/LAB/2272/2025-26		
	Village- Harduwaken, Tehsil- Amanganj		Issued Date :- 03/10/2025		
	Dist. Panna, PIN- 488441				
	Madhya Pradesh				
Sampli	ng Location: Kakra Mine Driling point				
Date &	Time of Monitoring:- 30/09/2025 - 09:10 hrs to 13:20 hrs		Date of Sample Reciept: 01/10/2025		
Date of	Start of Analysis: 01/10/2025		Date of Completion of Analysis: 03/10/2025		
Other F	References :				
Ref:1	Nature of Sample: Fugitive Emission Monitoring (Core Zone)	Ref:2	Ambient Temperature: Min 27.2 °C Max 35.5 °C		
Ref:3	Monitoring Carried out by: RESL Lab Team	Ref:4	Duration of Sampling: 04.10 Hours		
Ref:5	Humidity:- Min 55% Max 65%	Ref:6	General Environment Condition: Clear Sky		
Feet (Control)	Sampling Protocol: PIWMPL/LAB/SOP-45/2022: Rev./Issue:01				

Table 1 - Fugitive Emission Monitoring Result

S. No.	Parameters	Unit	Result	Limit	Method of Test
1	Suspended Particulate Matter (SPM)	μg/m3	445.7	600	PIWMPL/LAB/STP/12, Issue No.1, Issue Date: 22.07.2022
ote :	1. The above results relate only to conditions	prevailing at the time	of sampling.		

2. Statement of conformity to a specification or standard is given only on the request of customer.

3. The report cannot be reproduced in part or in full without the permission of Pithampur Industrial Waste Management Pvt. Ltd.

****** End of the test report******

Authorized Signatory:

S.Babyrani

PIWMPL/LAB/QRF/00/21.07.2022

Page Mo: 1/1

ABORATORY

FITHAMPUR

(M.P.)



CIN No. U90000TG2010PTC071919

Registered Office:

Level 11B, Aurobindo Galaxy, Hyderabad Knowledge City, Hitech City Road, Hyderabad-500 081. India. Site Address:

Plot No 104, Industrai Area, Sector-II, Pithampur, District Dhar - 454 775, Madhya Pradesh, India.



Certificate REG No : 23EQKR96 [ISO 9001 : 2015] Certificate REG No : 23EEKW93 [ISO 14001 : 2015] Certificate REG No : 23EOKE89 [ISO 45001 : 2018]

Dated: 27.06.2025



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

CIN: L17229UP1994PLC017199

- Village Harduwaken, Tehsil Amanganj
 District Panna, State Madhya Pradesh, India 488 441
- 9329141591 👄 jkc.panna@jkcement.com
- g www.jkcement.com

Ref. No. JKCEMENT/ENV/EMR/2024-25/20B/87

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 May-2025.

Ref: 1-NOC Letter No. CGWA/NOC/MIN/REN/1/2025/11450

Dear Sir,

With reference to the aforesaid subject, please find 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-Amangani, District Panna (M.P.) for the month of May-2025.

This is for your kind information and record, please.

With Regards, Yours Faithfully

For Kakra-Panna Limestone Mine (A 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

2. 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

 Prism Tower, Ground Floor, Ninaniya Estate, Gwal Pahari, Gurugram, Haryana - 122102, India

+0124-6919000

admin.prismt@jkcement.com

www.jkcement.com
 CIN: L17229UP1994PLC017199







Nimbahera, Mangrol, Gotan (Rajasthan) | Muddapur (Karnataƙa) Jharti (Haryana) | Katni, Panna, Ujjain (M.P.) | Prayagraj, Aligarh, Hamirpur (U.P.) | Batasinor (Gujarat) | Fujairah





Sample Description:

Sample Collected by:

VIBRANT TECHNO LAB PVT. LTD.

ISO 9001, 14001 & 45001 Certified Company
EPA Recognized Laboratory | NABET Accredited EIA Consultant Organisation

TEST REPORT

VTL/WL/01-67

M/s JK Cement Works, Panna

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

Mines Village-Harduwaken Tehsil-Amanganj PIN-

Vibrant Techno Lab Representative

488441 Dist-Panna

Ground Water Level

Report No.:

VTL/W/2505290001-67

Format No.:

7.8 F-01

Party Reference No.:

NIL

Report Date:

06/06/2025

Receipt Date:

29/05/2025

Sampling Date:

23-27/05/2025

		50 5005	Locat	Water Level	
S.No.	Location	Person Name	Latitude (N)	Longitude (E)	(Below Ground Level)- Meter
1	Sanaura Village Borewell	Private	24°18′57″	79°97′51″	34.0
2	Sanaura Village Dugwell	Govt.	24°80'07"	79°93'23"	11.0
3	Sanaura Village Dugwell	Govt.	24°41′82″	79°96′64"	9.0
4	Jhijgav Village Borewell	Pvt.	24°25′6″	79°58'59"	16.0
5	Jhijgav Village Borewell	Pvt.	24°25'10"	79°59'1358	12.0
6	Jhijgav Village Borewell	Near Road	24°25′7″	79°59′13″	19.0
7	Jhijgav Village Dugwell	Pvt.	24°25′8″	79°58′44″	17.0
8	Udla Village Borewell	Govt.	24°24′16"	79°54'39"	14.0
9	Udla Village Dugwell	Govt.	24°24′19″	79°54'39"	21.0
10	Sanaura Village Dugwell	Temple	24°25′5″	79°58′20″	13.0
11	Kamtana Village Dugwell	Pvt.	24°22′60″	79°57'17"	4.5
12	Kamtana Village Borewell	Pvt.	24°23′6″	79°57′25"	11.0
13	Kamtana Village Borewell	Near Khet	24°22′55″	79°57′21″	17.0
14	Hinauta Dugwell	Pvt.	24° 23' 48"	80° 1' 17"	9.0
15	Kamtana Village Dugwell	Pvt.	24° 23' 11"	79° 57' 28"	9.0
16	Kamtana Village Dugwell	Pvt.	24°23'12"	79°57′29″	11.0
17	Kamatana Village Borewell	Nr. Temple	24°22′51″	79°57'47"	25.0
18	Kamatana Village Borewell	Pvt.	24°22'40"	79°57'50"	31.0

Corporate & Registered Office:

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

www.vibranttechnolab.com

Terms conditions:

RK Yadav Lab Incharge

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



ISO 9001, 14001 & 45001 Certified Company EPA Recognized Laboratory | NABET Accredited EIA Consultant Organisation

TEST REPORT

19	Saptaiya Village Borewell	Govt.	24.357682	80.0647	40.0
20	Saptaiya Village Borewell	Govt.	24.357676	80.06458	35.0
21	Sotipura Village Dugwell	Govt.	24.351939	79.998294	3.0
22	Sotipura Village Dugwell	Pvt.	24.352182	79.997994	4.0
23	Madiya Village Borewell	Govt.	24.386781	80.01395	25.0
24	Saptai Village Dugwell	Near Temple	24°21'24"	79°57′1″	19.0
25	Bamhori Village Borewell	Near Road	24°20′15″	80°1′57″	40.0
26	Bamhori Village Dugwell	Govt.	24°20′26″	80°2'50"	46.0
27	Bamhori Village Borewell	Pvt.	24° 20' 12''	80° 2' 5"	51.0
28	Jharkuwa Village Borewell	Near Road	24°21'4"	80°2′46″	21.0
29	Jharkuwa Village Dugwell	Pvt.	24°21'16"	80°2'42"	19.0
30	Itauri Village Borewell	Pvt.	24°22'41"	80.2'17"	45.0
31	Itauri Village Dugwell	Near road	24°21′14″	80°2'46"	15.0
32	Itauri Village Dugwell	Pvt.	24°25′10″	79°59'13"	11.0
33	Itauri Village Borewell	Pvt.	24°25′24″	80°0′29″	35.0
34	Itauri Village Borewell	Near Road	24°25'32"	80°0'49"	40.0
35	Itauri Village Borewell	Pvt.	24°25′32"	80°0'49"	39.0
36	Itauri Village Borewell	Pvt.	24°25'32"	80°0'48"	41.0
37	Amanganj Borewell	Pvt.	24°25′28″	80°2'7"	20.0
38	Amanganj Dugwell	Govt.	24°25′26″	80°2'2"	15.0
39	Amanganj Borewell	Govt.	24°25′32″	80°2'8"	29.0
40	Madaiyan Borewell	Pvt.	24°19′44"	79°59'24"	19.0
41	Deora Village Dugwell	Pvt.	24°20′53″	79°59'49"	8.0
42	Deora Village Borewelli	Near Road	24° 20' 50"	79°59'49"	19.0
43	Deora Village Borewell	Pvt.	24°20′35″	79°59′50″	16.0
44	Deora Village Dugwell	Near Road.	24° 20' 21''	79° 58′ 16″	4.0
45	Deora Village Dugwell	Pvt.	24° 20' 19"	79°58′19″	9.0
46	Deora Village Borewell	Pvt.	24° 14' 55"	79° 58' 58''	18.0
47	Deora Village Borewell	Pvt.	24°20′41″	79°58'17"	22.0
48	Deora Village Borewell	Pvt.	24° 20′ 43″	79° 58' 14"	14.0
49	Deora Village Borewell	Near Temple	24° 20' 18"	79°58' 18"	16.0
50	Deora Village Borewell	Govt.	24°20'45"	79°58′18″	21.0
51	Kakra Village Dugwell	Temple	24°35′50″	79° 94'98''	17.0

Corporate & Registered Office:

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

© 0141-2954638 © bd@vibranttechnolab.com

www.vibranttechnolab.com

JAIPUR

RK Yadav Lab Incharge

The Resalt Listed refer only to the tested attrapped and a solution of the parameters.

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



ISO 9001, 14001 & 45001 Certified Company EPA Recognized Laboratory | NABET Accredited EIA Consultant Organisation

TEST REPORT

52	Kakra Village Borewell	Pvt.	24°35′63″	79°95′35″	11.0
53	Kakra Village Borewell	Pvt.	24°35'65"	79°95'07"	22.0
54	Kakra Village Dugwell	Govt.	24°35′61″	79° 95'29"	19.0
55	Kakra Village Borewell	Pvt.	24°35′50″	79°95'87"	24.0
56	Kakra Village Borewell	Pvt.	24°35′81″	79°95′87″	29.0
57	Kakra Village Borewell	Pvt.	24°35′56"	79°95'92"	19.0
58	Pagra Villge Borewell	Pvt.	24.350834	79.999909	14.0
59	Pagra Villge Dugwell	Govt.	24.350875	79.999949	6.0
60	Kakra Village Borewell	Pvt.	24° 21' 21"	79° 56' 59"	15.0
61	Bilha Village Dugwell	Govt.	24° 88' 42''	79° 99 29"	11.0
62	Bilha Village Borewell	Pvt.	24° 38′57''	79° 99' 87"	21.0
63	Bilha Village Dugwell	Pvt.	24° 38′52''	79° 99' 85"	9.0
64	Bilha Village Borewell	Pvt.	24.369562	80.005888	18.0
65	Kuchwa Village Borewell	Pvt.	24.37761	80.01084	25.0
66	Kuchwa Village Dugwell	Govt.	24.38678	80.01391	10.0
67	Piezometer Near Security Barrack	Cement Plant	24° 23' 3''	79°57' 34''	24.7
68	Kakra Crusher Piezometer	JK	24.313289	79.932191	14.6
69	Kakra Village Mine Pit Piezometer	JK	24°34′63′	79°95'97"	20.8

End of the report

Corporate & Registered Office:

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

© 0141-2954638 @ bd@vibranttechnolab.com

www.vibranttechnolab.com

JAIPUR RK Yadav C

In a result Listed refer only to the tested attention and signature of signatures.

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



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

Dated: 29.09.2025

CIN: L17229UP1994PLC017199

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

Ref. No. JKCEMENT/ENV/EMR/2025-26/20B/96

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 August-2025.

Ref: 1-NOC Letter No. CGWA/NOC/MIN/REN/1/2025/11450

Dear Sir.

With reference to the aforesaid subject, please find 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 August-2025.

This is for your kind information and record, please.

With Regards, Yours Faithfully

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

Kapit Agrawal (Unit Head)

Encl: As above

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

2. 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

 Prism Tower, Ground Floor, Ninaniya Estate, Gwal Pahari, Gurugram, Haryana - 122102, India

40124-6919000

admin.prismt@jkcement.com

www.jkcement.com CIN: L17229UP1994PLC017199 JK SUPER CEMENT BUILD SAFE







ISO 9001, 14001 & 45001 Certified Company EPA Recognized Laboratory | NABET Accredited EIA Consultant Organisation

TEST REPORT

Sample Number: Name & Address of the Party: VTL/ WL/01-69 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 Level

Format No.:

Report No.:

VTL/W/2508230001-69

7.8 F-01 Party Reference No.: NIL

Report Date:

29/08/2025

Receipt Date:

23/08/2025

Sample Collected by:

Sample Description:

Vibrant Techno Lab Representative

18-21/08/2025 Sampling Date:

	Location	Person Name	Location	Water Level	
S.No.			Latitude (N)	Longitude (E)	(Below Ground Level)- Meter
1	Sanaura Village Borewell	Private	24°18′57"	79°97'51"	2.4
2	Sanaura Village Dugwell	Govt.	24°80′07"	79°93'23"	5.0
3	Sanaura Village Dugwell	Govt.	24°41'82"	79°96′64"	1.0
4	Jhijgav Village Borewell	Pvt	24°25'6"	79°58'59"	2.0
5	Jhijgav Village Borewell	Pvt.	24°25′10″	79°59'1358	3.4
6	Jhijgav Village Borewell	Near Road	24°25'7*	79°59′13*	3.8
7	jhijgav Village Dugwell	Pvt.	24°25'8"	79°58'44"	0.3
8	Udla Village Borewell	Govt.	24°24'16"	79°54′39″	6.2
9	Udla Village Dugwell	Govt.	24°24'19"	79°54'39"	1.4
10	Sanaura Village Dugwell	Temple	24°25′5″	79°58'20"	3.2
11	Kamtana Village Dugwell	Pvt.	24"22'60"	79°57'17"	3.0
12	Kamtana Village Borewell	Pvt.	24°23′6*	79°57'25"	5,4
13	Kamtana Village Borewell	Near Khet	24°22'55"	79°57'21"	6.1
14	Hinauta Dugwell	Pvt.	24° 23' 48"	80° 1' 17"	1.3
15	Kamtana Village Dugwell	Pvt.	24° 23' 11"	79° 57' 28"	1.6
16	Kamtana Village Dugwell	Pvt.	24°23'12"	79°57′29*	4.4





RK Yadav Lab Incharge **Authorized Signatory**

Page 1 of 3

Corporate & Registered Office:

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

Terms & Conditions:

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



ISO 9001, 14001 & 45001 Certified Company
EPA Recognized Laboratory | NABET Accredited EIA Consultant Organisation

TEST REPORT

17	Kamatana Village Borewell	Nr. Temple	24°22'51"	79°57'47"	1.8
18	Kamatana Village Borewell	Pvt	24°22'40"	79°57'50"	4.1
19	Saptaiya Village Borewell	Govt.	24.357682	80.0647	0.9
20	Saptaiya Village Borewell	Govt	24.357676	80.06458	1.2
21	Sotipura Village Dugwell	Govt.	24.351939	79.998294	2.0
22	Sotipura Village Dugwell	Pvt.	24.352182	79.997994	2.1
23	Madiya Village Borewell	Govt.	24.386781	80.01395	2.0
24	Saptai Village Dugwell	Near Temple	24°21′24*	79°57'1"	1.3
25	Bamhori Village Borewell	Near Road	24°20'15"	80°1'57"	1.8
26	Bamhori Village Dugwell	Govt	24°20′26″	80°2'50"	3.2
27	Bamhori Village Borewell	Pvt.	24° 20′ 12"	80° 2' 5"	4.0
28	Jharkuwa Village Borewell	Near Road	24°21'4"	80°2'46"	3.2
29	Jharkuwa Village Dugwell	Pvt	24°21'16"	80°2'42"	4.0
30	Itauri Village Boreweil	Pvt.	24°22'41"	80.2'17"	4.1
31	Itauri Village Dugwell	Near road	24°21'14"	80°2'46"	7.1
32	Itauri Village Dugwell	Pvt.	24°25′10″	79°59′13"	3.7
33	Itauri Village Borewell	Pvt.	24°25'24"	80°0'29"	5.4
34	Itauri Village Borewell	Near Road	24°25'32"	80°0'49"	3.9
35	Itauri Village Borewell	Pvt	24°25'32"	80°0'49"	3.4
36	Itauri Village Borewell	Pvt.	24°25'32*	80°0'48"	5.1
37	Amanganj Borewell	Pvt.	24°25'28"	80°2'7"	6.4
38	Amangani Dugwell	Govt.	24°25′26″	80°2′2"	1.4
39	Amanganj Borewell	Govt.	24°25'32*	80°2'8"	4.5
40	Madaiyan Borewell	Pvt	24°19'44"	79°59'24"	3.5
41	Deora Village Dugwell	Pvt.	24°20′53"	79°59'49"	3.3
42	Deora Village Borewelll	Near Road	24° 20′ 50"	79°59'49"	3.2
43	Deora Village Borewell	Pvt.	24°20'35"	79°59'50"	4.0
44	Deora Village Dugwell	Near Road.	24° 20′ 21"	79° 58′ 16″	2.0
45	Deora Village Dugwell	Pvt.	24° 20′ 19″	79°58'19"	1.5
46	Deora Village Borewell	Pvt	24° 14' 55"	79° 58' 58"	4.7

Chlocked By



RK Yadav Lab Incharge

Authorized Signatory
Page 2 of 3

Corporate & Registered Office:

- Plot No. Q-39, Shringarpura, Narayan Vihar Q, Bhankrota, Jalpur 302026 (Raj.)
- ◆ 0141-2954638 bd@vibranttechnolab.com
- www.vibranttechnolab.com

Terms & Conditions:

1. The Result Listed refer only to the tested sample and applicable parameters.

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



ISO 9001, 14001 & 45001 Certified Company
EPA Recognized Laboratory | NABET Accredited EIA Consultant Organisation

TEST REPORT

47	Deora Village Borewell	Pvt.	24°20'41"	79°58'17"	3.8
48	Deora Village Borewell	Pvt.	24° 20' 43"	79° 58′ 14"	3.0
49	Deora Village Borewell	Near Temple	24° 20' 18"	79°58' 18"	5.3
50	Deora Village Borewell	Govt.	24°20'45"	79°58'18"	5.2
51	Kakra Village Dugwell	Temple	24°35'50°	79° 94′98"	1.8
52	Kakra Village Borewell	Pvt	24°35′63″	79°95'35"	2.4
53	Kakra Village Borewell	Pvt.	24°35′65"	79°95′07"	2.4
54	Kakra Village Dugwell	Govt	24°35'61"	79° 95'29"	3.2
55	Kakra Village Borewell	Pvt	24°35'50"	79°95'87"	3.0
56	Kakra Village Borewell	Pvt.	24°35'81"	79°95'87"	2.6
57	Kakra Village Borewell	Pvt	24°35′56"	79°95'92"	2.4
58	Pagra Villge Borewell	Pvt.	24.350834	79.999909	5.2
59	Pagra Vilige Dugwell	Govt.	24.350875	79.999949	3.7
60	Kakra Village Borewell	Pvt.	24° 21' 21"	79° 56' 59"	4.1
61	Bilha Village Dugwell	Govt.	24° 88' 42"	79° 99 29"	1.9
62	Bilha Village Borewell	Pvt.	24° 38′57"	79° 99' 87"	4.3
63	Bilha Village Dugwell	Pvt	24° 38'52"	79° 99′ 85"	4.0
64	Bilha Village Borewell	Pvt.	24.369562	80.005888	4.0
65	Kuchwa Village Borewell	Pvt.	24.37761	80.01084	3.2
66	Kuchwa Village Dugwell	Govt	24.38678	80.01391	2.4
67	Piezometer Near Security Barrack	Cement Plant	24° 23′ 3"	79°57'34"	4.8
68	Kakra Crusher Piezometer	јк	24.313289	79.932191	2.9
69	Kakra Village Mine Pit Piezometer	ĵΚ	24°34'63'	79°95′97*	7.8

End of the report





- Plot No. Q-39, Shringarpura, Narayan Vihar Q, Bhankrota, Jaipur 302026 (Raj.)
- © 0141-2954638 © bd@vibranttechnolab.com
- www.vibranttechnolab.com



RK Yadav Lab Incharge Authorized Signatory

Page 3 of 3

Terms & Conditions:

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

Date: 27.06.2025



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

CIN: L17229UP1994PLC017199

- 🏚 Village Harduwaken, Tehsit Amanganj District - Panna, State - Madhya Pradesh, India - 488 441
- 🧐 9329141591 📦 jkc.panna@jkcement.com
- 👣 www.jkcement.com

Ref: JKCEMENT/ENV/EMR/2025-26/20B/88

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 May-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

With reference to the aforesaid subject, please find herewith enclosed Surface water & Ground Water Quality Analysis Reports for the month of May-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 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-1,4th 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@ikcement.com
- www.ikcement.com
 - CIN: £17229UP1994PLC017199





Manufacturing Units at :

Nimbahera, Mangrot, Gotan (Rajasthan) | Muddapur (Karnataka) Jharli (Heryana) | Katni, Panna, Ujjain (M.P.) | Prayagraj, Aligarh, Hamirpur (U.P.) | Balasinor (Gujarat) | Fujairah





ISO 9001, 14001 & 45001 Certified Company EPA Recognized Laboratory | NABET Accredited EIA Consultant Organisation

TEST REPORT

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.:

VTL/W/2505300030-32

7.8 F-01

Party Reference No.: NIL

Report Date: 05/06/2025

Period of Analysis: Receipt Date:

30/05/2025 to 05/06/2025

Sampling Date:

30/05/2025

Sampling Quantity:

24/05/2025 2.0Ltr.+ 250 ml

Sampling Type:

Grab

S. No.	Parameter	Test Method	Pond Near Pagra Village	Ken River Near Tighra Village	Beteha Nalia Near Surajpur	Unit
_	cal Parameters	The state of the s			Jurajpur	
1.	pH (at 25 °C)	IS 3025 (P-11): 2022	7.42	7.39	7.58	
2.	Colour	IS 3025(P-4): 2021	9	8	10	Hazer
3.	Turbidity	IS 3025 (P-10): 2023	13	15	16	NTU
	ical Parameters (mg/l)				10	1110
4.	Total Hardness as CaCO ₃	IS: 3025 (P-21): 2009,RA: 2019	155.0	168.0	125.00	mg/l
5.	Alkalinity as CaCO ₃	IS: 3025 (P-23): 2023	82.6	59.7	64.00	ma //
6.	Chloride as Cl	IS: 3025(Part 32):1988, RA:2019	52.4	41.8	32.36	mg/l
7.	Total Dissolved Solids	IS 3025 (P-16): 2023	450	510	405	mg/l
8.	Sulphate as SO ₄	IS: 3025 (P-24): Sec.1: 2022 (Clause	21.5	25.9		mg/l
9.	Fluoride as F	5.0)	3/5/55	V9000000	16.43	mg/l
10.	Nitrate as NO ₃	APHA (24th Edition), 4500FD:2023	0.28	0.33	0.27	mg/l
		IS: 3025 (P-34): Sec 1: 2023 (Clause 6.4)	8.64	9.21	6.21	mg/l
11.	Iron as Fe	APHA (24th Edition),3111B: 2023	0.23	0.31	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, 5530 D :2023	*BLQ(**LOQ- 0.05)	*BLQ(**LOQ-0.05)	*BLQ(**LOQ-0.05)	mg/l
14.	Zinc as Zn	APHA (24th Edition),3111B: 2023	0.38	0.43	0.41	-
15.	Copper as Cu	APHA (24th Edition),3111B: 2023	*BLQ(**LOQ- 0.02)	*BLQ(**LOQ-0.02)	*BLQ(**LOQ-0.02)	mg/l 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 (24th 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)	*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)	
1.	BOD (3days at 27°C)	IS:3025(P-44):2023	5.8	6.5		mg/l
2.	COD	IS:3025(P-58):2023	30.0	33.0	7.3	mg/l
3.	DO	IS:3025(P-38):1989, RA:2019	7.1	6.8	37.0	mg/l
4.	TSS	IS:3025(P-17):2022	12	14	6.1	mg/l
licrob	iological Parameters (MPN/	100 ML)	**	14	15	mg/l
5.	Total Coliform	IS:15185: 2016	Present	Present	0	
~~~	Faecal Coliform	APHA 24th Edition, 9221-C:2023  Quantification, **LOQ- Limit of Quantifica	Present	Present	Present Present	bsent pe 100 ml

Corporate & Registered Office:

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

© 0141-2954638 © bd@vibranttechnolab.com

www.vibranttechnolab.com

LABA

JAIPUR

RK Yadav Lab Incharge Authorized Signato

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



ISO 9001, 14001 & 45001 Certified Company EPA Recognized Laboratory | NABET Accredited EIA Consultant Organisation

### **TEST REPORT**

Sample Number:

Sample Description:

Sample Collected by:

Parameter Required:

Sampling Protocol:

Preservation:

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-488441 Dist-

Panna

Surface Water

Report No.: Format No.: VTL/W/2505300033-35

7.8 F-01

Party Reference No.: Report Date:

NII.

05/06/2025

Period of Analysis: Receipt Date:

30/05/2025 to 05/06/2025 30/05/2025

Sampling Date: Sampling Quantity: 24/05/2025

Sampling Type:

2.0Ltr.+ 250 ml Grab

As Per Work Order APHA 24th Edition 1060, 2023

Vibrant Techno Lab Team

Suitable Preservation

S. No.	Parameter	Test Method	Mirhasan River Near Amanganj	Ken River Near Singaura Village	Sonar River Near Village Santa	Unit
	al Parameters			9	Timage builtu	1
1.	pH (at 25 °C)	IS 3025 (P-11): 2022	7.42	7.36	7.55	T
2.	Colour	IS 3025(P-4): 2021	8	10	12	Hazen
3.	Turbidity	IS 3025 (P-10): 2023	20	18	24	NTU
Chemic	al Parameters (mg/l)	* * *				1110
4.	Total Hardness as CaCO ₃	IS: 3025 (P-21): 2009,RA: 2019	175.0	157.0	186.0	mg/l
5.	Alkalinity as CaCO ₃	. IS: 3025 (P-23): 2023	98.7	105.3	125.4	mg/l
6.	Chloride as Cl	IS: 3025(Part 32):1988, RA:2019	85.2	59.1	47.9	-
7.	Total Dissolved Solids	IS 3025 (P-16): 2023	530	480	590	mg/l
8.	Sulphate as SO ₄	IS: 3025 (P-24): Sec.1: 2022 (Clause 5.0)	23.6	20.7	28.9	mg/l mg/l
9.	Fluoride as F	APHA (24th Edition), 4500FD:2023	0.19	0.22	0.26	- n
10.	Nitrate as NO ₃	IS: 3025 (P-34): Sec 1: 2023 (Clause 6.4)	10.3	9.8	13.7	mg/l mg/l
11.	Iron as Fe	APHA (24th Edition),3111B: 2023	0.20	0.25	0.32	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, 5530 D :2023	*BLQ(**LOQ- 0.05)	*BLQ(**LOQ-0.05)	*BLQ(**LOQ-0.05)	mg/l
14.	Zinc as Zn	APHA (24th Edition),3111B: 2023	0.36	0.24	0.41	mg/l
15.	Copper as Cu	APHA (24th Edition),3111B: 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- 0.005)	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 (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)	IS:3025(P-44):2023	9.0	6.4	10.0	mg/l
2.	COD	IS:3025(P-58):2023	38.0	27.0	42.0	
3.	DO	IS:3025(P-38):1989, RA:2019	5.8	6.3	5.2	mg/l
4.	TSS	IS:3025(P-17):2022	41	38	34	mg/l
licrobi	ological Parameters (MPN/10	OML)	23	30	34	mg/l
5.	Total Coliform	IS:15185: 2016	Present	Present	Present	D
6.	Faecal Coliform	APHA 24th Edition , 9221-C :2023 of Quantification, **LOQ- Limit of Quantif	Present	Present	Present	Present/Al sent per 100 ml



Corporate & Registered Office:

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

**RK Yadav** Lab Incharge Authorized Signate



ISO 9001, 14001 & 45001 Certified Company EPA Recognized Laboratory | NABET Accredited EIA Consultant Organisation

## TEST REPORT

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-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.:

Party Reference No.:

Report Date:

Period of Analysis:

Receipt Date: Sampling Date:

Sampling Quantity:

Sampling Type:

VTL/W/2505300036-38

7.8 F-01

NIL

05/06/2025

30/05/2025 to 05/06/2025

30/05/2025

24/05/2025

2.0Ltr.+ 250 ml Grab

S. No.		Test Method	Pond Near Chikhla Village	Pond Near Umri Village	Nala Near Deora Village	Unit
	cal Parameters			, imge	Village	
1.	pH (at 25 °C)	IS 3025 (P-11): 2022	7.29	7.29	7.44	
2.	Colour	IS 3025(P-4): 2021	9	11	14	Haze
3.	Turbidity	IS 3025 (P-10): 2023	22	19	26	NTU
	ical Parameters (mg/l)	NO. 100 100 100 100 100 100 100 100 100 10	8			
4.	Total Hardness as CaCO ₃	IS: 3025 (P-21): 2009,RA: 2019	250.0	210.0	310.0	mg/l
5.	Alkalinity as CaCO ₃	IS: 3025 (P-23): 2023	91.2	78.5	83.8	mg/l
6.	Chloride as Cl	IS: 3025(Part 32):1988, RA:2019	82.5	62.3	67.4	mg/l
7.	Total Dissolved Solids	IS 3025 (P-16): 2023	520	450	580	mg/l
8.	Sulphate as SO ₄	IS: 3025 (P-24): Sec.1: 2022 (Clause 5.0)	21.8	19.6	32.2	mg/l
9.	Fluoride as F	APHA (24th Edition), 4500FD:2023	0.29	0.23	0.31	- m = (1
10.	Nitrate as NO ₃	IS: 3025 (P-34): Sec 1: 2023 (Clause 6.4)	20.5	16.2	23.7	mg/l mg/l
11.	Iron as Fe	APHA (24th Edition),3111B: 2023	0.34	0.28	0.42	n
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, 5530 D :2023	*BLQ(**LOQ-0.05)	*BLQ(**LOQ-0.05)	*BLQ(**LOQ-0.05)	mg/l
14.	Zinc as Zn	APHA (24th Edition),3111B: 2023	0.35	0.31	0.39	
15.	Copper as Cu	APHA (24th Edition),3111B: 2023	*BLQ(**LOO-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-0.02) *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 (24th Edition),3114C,2023	*BLQ(**LOQ- 0.005)	*BLQ(**LOQ- 0.005)	*BLQ(**LOQ- 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	8.0	10.0	6.0	mg/l
22.	COD	IS:3025(P-58):2023	33.0	40.0	28.0	mg/l
23.	DO	IS:3025(P-38):1989, RA:2019	6.8	5.1	7.3	mg/l
4.	TSS	IS:3025(P-17):2022	21	17	24	
licrob	iological Parameters (MPN/1			100	A-T	mg/l
5.	Total Coliform	IS:15185: 2016	Present	Present	Present	Present
6.	Faecal Coliform	APHA 24th Edition, 9221-C:2023  f Quantification, **LOQ- Limit of Quantification	Present	Present	Present	/Absent per 100 ml

Corporate & Registered Office:

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

© 0141-2954638 © bd@vibranttechnolab.com

www.vibranttechnolab.com

RK Yadav Lab Incharge **Authorized Signator** 



ISO 9001, 14001 & 45001 Certified Company EPA Recognized Laboratory | NABET Accredited EIA Consultant Organisation

### TEST REPORT

Sample Number:

Sample Description:

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-

Surface Water

Report No.:

VTL/W/2505300039-41

Format No .:

7.8 F-01

Party Reference No.: Report Date:

Period of Analysis:

05/06/2025

Receipt Date:

30/05/2025 to 05/06/2025

Sampling Date:

30/05/2025 24/05/2025

Sampling Quantity:

2.0Ltr.+ 250 ml

Sampling Type:

Sample Collected by: Preservation:

Parameter Required: Sampling Protocol: Vibrant Techno Lab Team

Suitable Preservation As Per Work Order

APHA 24th Edition 1060, 2023

S. No.	Parameter ical Parameters	Test Method	Pond Near Amanganj	Berma River Near Gaisabad Village	Pond Puraina Village	Unit
1.				West and the second sec		
2.	pH (at 25 °C)	IS 3025 (P-11): 2022	7.29	7.34	7.37	
3.	Colour	IS 3025(P-4): 2021	6	9	7	Haze
	Turbidity	IS 3025 (P-10): 2023	10	14	12	NTU
4.	nical Parameters (mg/l)					1110
	Total Hardness as CaCO ₃	IS: 3025 (P-21): 2009,RA: 2019	178.0	161.0	205.0	mg/l
5.	Alkalinity as CaCO ₃	IS: 3025 (P-23): 2023	66.7	83.4	044	-
6.	Chloride as Cl	IS: 3025(Part 32):1988, RA:2019	49.1	53.6	94.1	mg/
7.	Total Dissolved Solids	IS 3025 (P-16): 2023	525	460	72.5	mg/
8.	Sulphate as SO ₄	IS: 3025 (P-24): Sec.1: 2022 (Clause	25.3	32.7	560	mg/
		5.0)	23.3	32.7	41.1	mg/l
9,	Fluoride as F	APHA (24th Edition), 4500FD:2023	0.30	0.36	1 8 9	
10.	Nitrate as NO ₃	IS: 3025 (P-34): Sec 1: 2023 (Clause	15.1	18.4	0.42	mg/
		6.4)	10.1	18.4	21.8	mg/
11.	Iron as Fe	APHA (24th Edition),3111B: 2023	0.26	0.21		
12.	Chromium as Cr+6	APHA (24th Edition),3500 CR-B,	*BLQ(**LOQ-0.05)		0.32	mg/
		2023	DEQ[ E0Q-0.03]	*BLQ(**LOQ-0.05)	*BLQ(**LOQ-0.05)	mg/l
13.	Phenolic Compounds	APHA 24th Edition, 2017, 5530 D:2023	*BLQ(**LOQ-0.05)	*DI 0(**I 00 0 05)		1))
14.	Zinc as Zn	APHA (24th Edition),3111B: 2023	0.29	*BLQ(**LOQ-0.05) 0.20	*BLQ(**LOQ-0.05)	mg/l
15.	Copper as Cu	APHA (24th Edition),3111B: 2023	*BLQ(**LOQ-0.02)		0.34	mg/l
16.	Cadmium as Cd	APHA (24th Edition),3111B: 2023	*BLQ(**LOQ-0.002)	*BLQ(**LOQ-0.02)	*BLQ(**LOQ-0.02)	mg/l
17.	Lead as Pb	APHA (24th Edition),3111B: 2023		*BLQ(**LOQ-0.002)	*BLQ(**LOQ-0.002)	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 (24th Edition)3112 B,2023	*BLQ(**LOQ-0.005)	*BLQ(**LOQ-0.005)	*BLQ(**LOQ-0.005)	mg/l
20.	Oil & Grease		*BLQ(**LOQ-0.001)	*BLQ(**LOQ-0.001)	*BLQ(**LOQ-0.001)	mg/l
21.	BOD (3days at 27°C)	IS:3025(P-39):2021	*BLQ(**LOQ-4.0)	*BLQ(**LOQ-4.0)	*BLQ(**LOQ-4.0)	mg/l
2.	COD	IS:3025(P-44):2023	5.9	4.2	6.0	mg/l
3.	DO	IS:3025(P-58):2023	21.0	17.0	23.0	mg/l
4.	TSS	IS:3025(P-38):1989, RA:2019	6.3	5.1	7.2	mg/l
	piological Parameters (MPN/	IS:3025(P-17):2022	39	22	33	mg/l
5.	Total Coliform		STATE OF THE PERSON NAMED IN COLUMN		25.72	6/1
	Faecal Coliform	IS:15185: 2016	Present	Present	Present	Presen
		APHA 24th Edition , 9221-C:2023  Quantification, **LOQ- Limit of Quantification	Present	Present	Present	/Absen per 100

***End of the report***



Corporate & Registered Office:

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

● 0141-2954638 🖨 bd@vibranttechnolab.com

www.vibranttechnolab.com



RK Yadav Lab Incharge Authorized Signatory

Terms & Conditions:

 The Result Listed refer only to the tested sample and applicable parameters. 2. Total Liability of our concern is limited to the invoiced amount. 3. The report is

not to be reproduced wholly or part and cannot be used as an evidence in the court of law and should not be used in any advertising media without our special permission in writing. 4. Authenticity of Test Report and Accreditation status may be seen online through QR Code. 5. Retention period of sample will be 30 days only, any query beyond 30 days will not be entertained.



ISO 9001, 14001 & 45001 Certified Company EPA Recognized Laboratory | NABET Accredited EIA Consultant Organisation

### **TEST REPORT**

Name & Address of the Party:

Sample Description:

Sample Collected by:

Preservation:

Parameter Required:

Sampling Protocol:

VTL/W/01

M/s JK Cement Works, Panna

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

488441 Dist-Panna **Ground Water** 

Vibrant Techno Lab Representative

Suitable Preservation As Per Work Order

APHA 24th Edition 1060, 2023

Report No.:

VTL/W/2505300014

Format No.:

7.8 F-01

Party Reference No.:

NIL

Report Date:

05/06/2025

Period of Analysis:

30/05/2025 to 05/06/2025

Receipt Date:

30/05/2025

Sampling Date:

24/05/2025

Sampling Quantity: Sampling Type:

2.0Ltr.+ 250 ml

Grab

					Limits of I	S:10500-2012
S.No.		Test-Method	Kakra Mine Borewell	Unit	Requirement (Acceptable Limits)	Absence of Alternate
1.	pH (at 25°C)	IS 3025 (Part 11): 2022	7.29		6.5 to 8.5	Source No Polometic
2.	Colour	IS 3025 (Part 4): 2021	*BLQ(**LOQ 1.0)	Hazen	5	No Relaxatio
3.	Turbidity	IS 3025 (Part 10): 2023	*BLQ(**LOQ 1.0)	NTU	1	15
4.	Odour	IS 3025 (Part 5): 2018	Agreeable			5
5.	Taste	IS 3025 (Part 8): 2023	Agreeable		Agreeable	Agreeable
6.	Total Hardness as CaCO3	IS 3025 (Part 21): 2009, RA: 2019	230.0	*** //	Agreeable	Agreeable
7.	Calcium as Ca	IS 3025 (Part 40): 2024	58.0	mg/l	200	600
8.	Alkalinity as CaCO ₃	IS 3025 (Part 23) : 2023	82.6	mg/l	75	200
9.	Chloride as Cl	IS 3025 (Part 32): 1988, RA: 2019		mg/l	200	600
10.	Residual free Chlorine	IS 3025 (Part 26): 2021 Clause 7.0	71.5	mg/l	250	1000
11.	Cyanide as CN	IS 3025 (Part 27/Sec 1): 2022	*BLQ(**LOQ 0.2)	mg/l	0.2	1
12.	Magnesium as Mg	IS 3025 (Part 46):2023	*BLQ(**LOQ 0.02)	mg/l	0.05	No Relaxation
13.	Total Dissolved Solids	IS 2025 (Part 46):2023	22.55	mg/l	30	100
14.	Sulphate as SO ₄	IS 3025 (Part 16) :2023	710	mg/l	500	2000
		IS 3025 (Part 24/Sec 1) : 2022 Clause 5.0	45.6	mg/l	200	400
15.	Fluoride as F	APHA, 24th Edition, 4500F-D: 2023	0.44			1
16.	Nitrate as NO ₃	IS 3025 (Part 34/Sec 1): 2023	0.41	mg/l	1.0	1.5
1000		Clause 6.4	21.78	mg/l	45	No Relaxation
17.	Iron as Fe	APHA 24th Edition, 3111 B, 2023	0.30		21	1
18.	Aluminium as Al	IS 3025 (Part 55): 2003, RA: 2019	*BLQ(**LOQ 0.03)	mg/l	1.0	No Relaxation
19.	Boron	APHA, 24th Edition, 4500 B-C: 2023	*BLQ(**LOQ 0.2)	mg/l	0.03	0.2
20.	Total Chromium as Cr	APHA, 24th Edition, 3111 B: 2023	*DLQ(**LOQ 0.2)	mg/l	0.5	2.4
21.	Phenolic compound as	APHA, 24th Edition, 5530 C : 2023	*BLQ(**LOQ 0.02)	mg/l	0.05	No Relaxation
	C ₆ H ₅ OH	5510 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)	ma/1		A STATE OF THE PARTY OF THE PAR
23.	Zinc as Zn	APHA, 24th Edition, 3111 B: 2023	*BLQ(**LOQ 0.2)	mg/l	0.2	1.0
24.	Copper as Cu	APHA, 24th Edition, 3111 B: 2023	*BLQ(**LOQ 0.02)	mg/l	5	15
5.	Manganese as Mn	APHA, 24th Edition, 3111 B: 2023	*BLQ(**LOQ 0.05)	mg/l	0.05	1.5
6.	Cadmium as Cd	APHA, 24th Edition, 3111 B: 2023	*BLQ(**LOQ 0.002)	mg/l	0.1	0.3
7.	Lead as Pb	APHA, 24th Edition, 3111 B: 2023	*PLO(**LOQ 0.002)	mg/l	0.003	No Relaxation
8.	Selenium as Se	APHA, 24th Edition, 3114 C: 2023	*BLQ(**LOQ 0.005) *BLQ(**LOQ 0.005)	mg/l	0.01	No Relaxation
9.	Arsenic as As	APHA, 24th Edition, 3114 C: 2023	**PI 0(**1 00 0 005)	mg/l		No Relaxation
0.	Mercury as Hg	APHA, 24th Edition, 3112 B: 2023	**BLQ(**LOQ 0.005)	mg/l	0.01	No Relaxation
1.	Total Coliform	IS 15185 : 2016	*BLQ(**LOQ 0.001)	mg/l	0.001	No Relaxation
2.	E. Coli	IS 15185 : 2016  IS 15185 : 2016  2-Limit of Quantification	Absent Absent	Per 100	Shall not be I	



Corporate & Registered Office:

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

● 0141-2954638 bd@vibranttechnolab.com

www.vibranttechnolab.com

RK Yadav Lab Incharge Authorized Signatory



Sample Collected by:

Sample Description:

Preservation: Parameter Required: Sampling Protocol:

VIBRANT TECHNO LAB PVT. LTD.

ISO 9001, 14001 & 45001 Certified Company EPA Recognized Laboratory | NABET Accredited EIA Consultant Organisation

### TEST REPORT

VTL/W/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** 

Vibrant Techno Lab Representative

Suitable Preservation As Per Work Order APHA 24th Edition 1060, 2023 Report No.:

VTL/W/2505300015

Format No.:

7.8 F-01

Party Reference No.:

NIL

Report Date:

05/06/2025

Period of Analysis:

30/05/2025 to 05/06/2025

Receipt Date:

30/05/2025

Sampling Date: Sampling Quantity: 24/05/2025

Sampling Type:

2.0Ltr.+ 250 ml Grah

C.N.					Limits of IS:10500-20		
S.No	Parameters  pH (at 25°C)	Test-Method	Kakra Village ( Hand Pump-01)	Unit	Requireme nt (Acceptabl e Limits)	Permissible Limit in the Absence of Alternate Source	
2.	Colour	IS 3025 (Part 11) : 2022	7.38		6.5 to 8.5	No Relaxation	
3.	Turbidity	IS 3025 (Part 4): 2021	*BLQ(**LOQ 1.0)	Hazen	5	15	
4.	Odour	IS 3025 (Part 10) : 2023	*BLQ(**LOQ 1.0)	NTU	1	5	
5.	Taste	IS 3025 (Part 5) : 2018	Agreeable		Agreeable	Agreeable	
6.	Total Hardness as CaCO ₃	IS 3025 (Part 8) : 2023	Agreeable		Agreeable	Agreeable	
7.	Calcium as Ca	IS 3025 (Part 21): 2009, RA: 2019	285.0	mg/l	200	600	
8.		IS 3025 (Part 40): 2024	72.0	mg/l	75		
9.	Alkalinity as CaCO ₃	IS 3025 (Part 23): 2023	120.0	mg/l	200	200	
10.	Chloride as Cl	IS 3025 (Part 32): 1988, RA: 2019	158.0	mg/l	250	600	
11.	Residual free Chlorine	IS 3025 (Part 26): 2021 Clause 7.0	*BLQ(**LOQ 0.2)	mg/l	0.2	1000	
12.	Cyanide as CN	IS 3025 (Part 27/Sec 1): 2022	*BLQ(**LOQ 0.02)	mg/l	0.05	1	
	Magnesium as Mg	IS 3025 (Part 46):2023	25.60	mg/l	30	No Relaxation	
13.	Total Dissolved Solids	IS 3025 (Part 16) :2023	860		V-10-10-1	100	
14.	Sulphate as SO ₄	IS 3025 (Part 24/Sec 1): 2022 Clause 5.0	92.1	mg/l mg/l	200	2000 400	
15.	Fluoride as F	APHA, 24th Edition, 4500F-D: 2023	0.58	- n - 1			
16.	Nitrate as NO ₃	IS 3025 (Part 34/Sec 1) : 2023 Clause 6.4	33.14	mg/l mg/l	1.0 45	1.5 No Relaxation	
17.	Iron as Fe	APHA 24th Edition, 3111 B, 2023	0.00	100	V.B.	A STATE OF THE STA	
18.	Aluminium as Al	IS 3025 (Part 55) : 2003, RA : 2019	0.32	mg/l	1.0	No Relaxation	
19.	Boron	APHA, 24th Edition, 4500 B-C: 2023	*BLQ(**LOQ 0.03)	mg/l	0.03	0.2	
20.	Total Chromium as Cr	APHA, 24 th Edition, 3111 B : 2023	*BLQ(**LOQ 0.2)	mg/l	0.5	2.4	
21.	Phenolic compound as C ₆ H ₅ OH	APHA, 24th Edition, 5530 C: 2023	*BLQ(**LOQ 0.02)	mg/l	0.05	No Relaxation	
22.	Anionic Detergent as MBAS	10,2005 (8	*BLQ(**LOQ 0.001)	mg/l	0.001	0.002	
23.	Zinc as Zn	IS 3025 (Part 68) : 2019	*BLQ(**LOQ 0.05)	mg/l	0.2	1.0	
24.	Copper as Cu	APHA, 24th Edition, 3111 B: 2023	*BLQ(**LOQ 0.2)	mg/l	5		
25.	Manganese as Mn	APHA, 24th Edition, 3111 B: 2023	*BLQ(**LOQ 0.02)	mg/l	0.05	15	
6.	Cadmium as Cd	APHA, 24th Edition, 3111 B: 2023	*BLQ(**LOQ 0.05)	mg/l	0.1	1.5	
7.	Lead as Pb	APHA, 24th Edition, 3111 B: 2023	*BLQ(**LOQ 0.002)	mg/l	0.003	0.3	
	Selenium as Se	APHA, 24th Edition, 3111 B: 2023	*BLQ(**LOQ 0.005)	mg/l	0.003	No Relaxation	
	Arsenic as As	APHA, 24th Edition, 3114 C: 2023	*BLQ(**LOQ 0.005)	mg/l	0.01	No Relaxation	
100	Mercury as Hg	APHA, 24th Edition, 3114 C: 2023	**BLQ(**LOQ 0.005)	mg/l	0.01	No Relaxation	
		APHA, 24th Edition, 3112 B: 2023	*BLQ(**LOQ 0.001)	mg/l	0.001	No Relaxation	
	Total Coliform E. Coli	IS 15185 : 2016	Absent	Per	0.001	No Relaxation	
307.5	Limit of Quantification, **LOQ-	IS 15185 : 2016	Absent	100 ml	Shall not be Detectable in Any 100 ml sample		

JAIPUR

*BLC

Corporate & Registered Office:

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

© 0141-2954638 © bd@vibranttechnolab.com

www.vibranttechnolab.com

**RK Yadav** Lab Incharge Authorized Signat



Sample Collected by:

Parameter Required:

Sampling Protocol:

Preservation:

# VIBRANT TECHNO LAB PVT. LTD.

ISO 9001, 14001 & 45001 Certified Company EPA Recognized Laboratory | NABET Accredited EIA Consultant Organisation

### TEST REPORT

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** 

Vibrant Techno Lab Representative

Suitable Preservation

As Per Work Order

APHA 24th Edition 1060, 2023

Report No.:

VTL/W/2505300016-17

Format No.:

7.8 F-01

Party Reference No.: Report Date:

NIL

Period of Analysis:

05/06/2025

30/05/2025 to 05/06/2025

Receipt Date:

30/05/2025

Sampling Date:

Sampling Quantity:

24/05/2025 2.0Ltr.+ 250 ml

ampling Type:	Gr

						Limits of IS:10500-201	
S.No	Parameters  pH (at 25°C)	rest-Method	Saptai Village	Dny Wel Kamtana Village	Unit	Requir	Permissible Limit in the Absence of Alternate Source
	1.0 52. 4		7.38	7.30		6.5 to 8.5	No Relaxatio
2	Colour	IS 3025 (Part 4): 2021	DEQ( EOQ 1.0)		Haze		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			Agreea	Agreeable	
5	Temperature	IS 3025 (Part 9): 2023	25.2	24.9		bie	-
6	Total Hardness as CaCO ₃	IS 3025 (Part 21): 2009, RA: 2019	148.0	162.0	mg/l	200	600
7	Calcium as Ca	IS 3025 (Part 40) :2024	32.0	40.0	- /1	25	
8	Alkalinity as CaCO ₃	IS 3025 (Part 23): 2023	78.5	87.3	mg/l	75	200
9	Chloride as Cl	IS 3025 (Part 32): 1988, RA: 2019	66.2	53.9	mg/l	200 250	600
10	Residual free Chlorine	IS 3025 (Part 26) : 2021 Clause 7.0	*BLQ(**LOQ 0.2)	*BLQ(**LOQ 0.2)	mg/l mg/l	0.2	1000
11	Phosphate	IS 3025 (Part 31)	*BLQ(**LOQ 0.2)	*BLQ(**LOQ 0.2)			1
12	Magnesium as Mg	IS 3025 (Part 46):2023	15.89	15.11	mg/l		
13	Total Dissolved Solids	IS 3025 (Part 16) :2023	790	715	mg/l mg/l	30 500	2000
14	Sulphate as SO ₄	IS 3025 (Part 24/Sec 1): 2022 Clause 5.0	63.9	56.1	mg/l	200	400
15	Fluoride as F	APHA, 24th Edition, 4500F-D: 2023	0.39	0.32		10	
16	Nitrate as NO ₃	IS 3025 (Part 34/Sec 1): 2023 Clause 6.4	17.2	15.8	mg/l mg/l	1.0	1.5 No Relaxation
17	Iron as Fe	APHA 24th Edition, 3111 B, 2023	0.22	0.25		/ / /	THE REAL PROPERTY.
18	Potassium	APHA 24th Edition, 3500 K,2023	22.9	18.4	mg/l	1.0	No Relaxation
19	Boron	APHA, 24th Edition, 4500 B-C: 2023	*BLQ(**LOQ 0.2)	*BLQ(**LOQ 0.2)	mg/l 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)	*BLQ(**LOQ 0.01)			
22	Electrical Conductivity	IS 3025 (Part 14):2013 RA:2019	1160	1210	mg/l μs/c	0.02	No Relaxation
23	Zinc as Zn	APHA, 24th Edition, 3111 B: 2023	*BLQ(**LOQ 0.2)	*BLQ(**LOQ 0.2)	m		
4	Copper as Cu	APHA, 24th Edition, 3111 B: 2023	*BLQ(**LOQ 0.02)	*BLQ(**LOQ 0.02)	mg/l	5	15
00-	Cadmium as Cd	APHA, 24th Edition, 3111 B: 2023	*BLQ(**LOQ 0.002)	*BLQ(**LOQ 0.002)	mg/l	0.05	1.5
	Lead as Pb	APHA, 24th Edition, 3111 B: 2023	*BLQ(**LOQ 0.005)	*BLQ(**LOQ 0.002)	mg/l	0.003	No Relaxation
	Total Coliform	IS 15185: 2016	Absent	Absent	mg/l	0.01	No Relaxation
8	E. Coli	IS 15185 : 2016  Quantification, **LOQ-Limit of Quantifi	Absent	Absent	Per 100 ml	Shall not b	e Detectable in 0 ml sample

Corporate & Registered Office:

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

● 0141-2954638 🖾 bd@vibranttechnolab.com

www.vibranttechnolab.com

**RK Yadav** Lab Incharge Authorized Signatory



Sample Collected by:

Parameter Required:

Sampling Protocol:

Preservation:

# VIBRANT TECHNO LAB PVT. LTD.

ISO 9001, 14001 & 45001 Certified Company EPA Recognized Laboratory | NABET Accredited EIA Consultant Organisation

### TEST REPORT

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 1060, 2023

Report No.: VTL/W/2505300018-19

Format No.: 7.8 F-01

Party Reference No.: NIL Report Date: 05/06/2025

Period of Analysis: 30/05/2025 to 05/06/2025

Receipt Date: 30/05/2025

Sampling Date: 24/05/2025 Sampling Quantity: 2.0Ltr.+ 250 ml

Sampling Type: Grab

	Parameters  pH (at 25°C)				To a	Limits of IS:105	
S.No		Test-Method  IS 3025 (Part 11): 2022	Puraina Village	Pagra Village	Unit	Requir	Permissible Limit in the Absence of Alternate Source
2	Colour		7.36	7.42		6.5 to 8.5	No Relaxation
SEW	TO INSTRUMENTAL	IS 3025 (Part 4): 2021	*BLQ(**LOQ 1.0)	*BLQ(**LOQ 1.0)	Haze		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		Agreea ble	Agreeable
5	Temperature	IS 3025 (Part 9): 2023	25.1	25.3		Die	
6	Total Hardness as CaCO ₃	IS 3025 (Part 21): 2009, RA: 2019	210.0	245.0 mg			600
7	Calcium as Ca	IS 3025 (Part 40) :2024	55.0	63.0	mg/l	75	200
8	Alkalinity as CaCO ₃	IS 3025 (Part 23): 2023	78.4	92.1	mg/l		200
9	Chloride as Cl	IS 3025 (Part 32): 1988, RA: 2019	72.9	105.2			600
10	Residual free Chlorine	IS 3025 (Part 26) : 2021 Clause 7.0	*BLQ(**LOQ 0.2)	*BLQ(**LOQ 0.2)	mg/l mg/l	0.2	1000
11	Phosphate	IS 3025 (Part 31)	*BLQ(**LOQ 0.2)	*BLQ(**LOQ 0.2) mg		1 1	
12	Magnesium as Mg	IS 3025 (Part 46):2023	17.68				- 1
13	Total Dissolved	IS 3025 (Part 16) :2023	850	21.34	mg/l	30	100
12020	Solids	8 8	030	890	mg/l	500	2000
14	Sulphate as SO ₄	IS 3025 (Part 24/Sec 1) : 2022 Clause 5.0	63.4	75.8	mg/l	200	400
15	Fluoride as F	APHA, 24th Edition, 4500F-D: 2023	0.42	0.45	- n - n	1.0	
16	Nitrate as NO ₃	IS 3025 (Part 34/Sec 1): 2023 Clause 6.4	25.4	28.3	mg/l mg/l	1.0	1.5 No Relaxation
17	Iron as Fe	APHA 24th Edition, 3111 B, 2023	0.26	0.33	- 0	4.0	
18	Potassium	APHA 24th Edition, 3500 K,2023	22.8	27.3	mg/l	1.0	No Relaxation
19	Boron	APHA, 24th Edition, 4500 B-C: 2023	*BLQ(**LOQ 0.2)		mg/l		**
20	Hexavalent Chromium as Cr+6	APHA, 24th Edition, 3500 Cr- B:2023	*BLQ(**LOQ 0.05)	*BLQ(**LOQ 0.2) *BLQ(**LOQ 0.05)	mg/l mg/l	0.5	2.4 No Relaxation
21	Nickel	APHA, 24th Edition, 3111 B: 2023	*BLQ(**LOQ 0.01)	*BLQ(**LOQ 0.01)	mg/l	0.02	No Relaxation
22	Electrical Conductivity	IS 3025 (Part 14):2013 RA:2019	1310	1380	μs/c		•••
23	Zinc as Zn	APHA, 24th Edition, 3111 B: 2023	*BLQ(**LOQ 0.2)		m		
24	Copper as Cu	APHA, 24th Edition, 3111 B: 2023	*BLQ(**LOQ 0.02)	*BLQ(**LOQ 0.2)	mg/l	5	15
25	Cadmium as Cd	APHA, 24th Edition, 3111 B: 2023	*BLQ(**LOQ 0.002)	*BLQ(**LOQ 0.02)	mg/l	0.05	1.5
26	Lead as Pb	APHA, 24th Edition, 3111 B : 2023	*BLQ(**LOQ 0.002)	*BLQ(**LOQ 0.002)	mg/l	0.003	No Relaxation
27	Total Coliform	IS 15185 : 2016	Absent	*BLQ(**LOQ 0.005)	mg/l	0.01	No Relaxation
28	E. Coli	IS 15185 : 2016  Quantification, **LOQ-Limit of Quantification	Absent	Absent Absent	Per 100 ml	Shall not b	oe Detectable in 0 ml sample

s & Condition

Corporate & Registered Office:

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

🕒 0141-2954638 🚭 bd@vibranttechnolab.com

www.vibranttechnolab.com

RK Yadav Lab Incharge Authorized Signatory



Sample Collected by:

Parameter Required:

Sampling Protocol:

Preservation:

# VIBRANT TECHNO LAB PVT. LTD.

ISO 9001, 14001 & 45001 Certified Company EPA Recognized Laboratory | NABET Accredited EIA Consultant Organisation

### **TEST REPORT**

VTL/W/05-06

M/s JK Cement Works, Panna

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

488441 Dist-Panna

Ground Water

Report No.: VTL/W/2505300020-21

Format No.:

7.8 F-01

Party Reference No.: Report Date:

NIL

05/06/2025

Period of Analysis:

30/05/2025 to 05/06/2025

Receipt Date:

30/05/2025

Sampling Date:

24/05/2025

Sampling Quantity:

2.0Ltr.+ 250 ml

Sampling Type:

Grah

Suitable Preservation

As Per Work Order

APHA 24th Edition 1060, 2023

Vibrant Techno Lab Representative

Limits of IS:10500-2012 Permissible S.No Requireme **Parameters** Test-Method Limit in the **Udla Village** Sotipura Village Unit Absence of (Acceptable Alternate Limits) Source pH (at 25°C) 1 IS 3025 (Part 11): 2022 7.32 7.29 6.5 to 8.5 No Relaxation 2 Colour IS 3025 (Part 4): 2021 *BLQ(**LOQ 1.0) *BLQ(**LOQ 1.0) Haze 15 3 Turbidity IS 3025 (Part 10): 2023 *BLQ(**LOQ 1.0) *BLQ(**LOQ 1.0) NTU 1 5 4 Odour IS 3025 (Part 5): 2018 Agreeable Agreeable --Agreeable Agreeable 5 Temperature IS 3025 (Part 9): 2023 25.5 25.2 ... Total Hardness as 6 IS 3025 (Part 21): 2009, RA: 2019 1520 131.0 mg/l 200 600 CaCO₃ 7 Calcium as Ca IS 3025 (Part 40):2024 46.0 40.0 mg/l 75 200 8 Alkalinity as CaCO₃ IS 3025 (Part 23): 2023 55.9 39.2 mg/l 200 600 9 Chloride as Cl IS 3025 (Part 32): 1988, RA: 2019 67.3 58.4 mg/l 250 1000 10 Residual free IS 3025 (Part 26): 2021 Clause 7.0 *BLQ(**LOQ 0.2) *BLQ(**LOO 0.2) mg/l 0.2 1 Chlorine 11 Phosphate IS 3025 (Part 31) *BLQ(**L00 0.2) *BLQ(**L00 0.2) mg/l 12 Magnesium as Mg IS 3025 (Part 46):2023 9.05 7.58 mg/l 30 100 13 Total Dissolved IS 3025 (Part 16):2023 702 670 mg/I 500 2000 Solids 14 IS 3025 (Part 24/Sec 1): 2022 Sulphate as SO₄ 37.6 45.8 mg/l 200 400 Clause 5.0 Fluoride as F 15 APHA, 24th Edition, 4500F-D: 2023 0.34 0.41 mg/l 1.0 1.5 16 Nitrate as NO3 IS 3025 (Part 34/Sec 1): 2023 11.2 14.8 mg/l 45 No Relaxation Clause 6.4 17 Iron as Fe APHA 24th Edition, 3111 B, 2023 0.17 0.28 mg/l 1.0 No Relaxation APHA 24th Edition, 3500 K,2023 18 Potassium 10.8 13.2 mg/l 19 Boron APHA, 24th Edition, 4500 B-C: *BLQ(**LOQ 0.2) *BLQ(**LOQ 0.2) mg/l 0.5 2.4 2023 20 Hexavalent APHA, 24th Edition, 3500 Cr-*BLQ(**LOQ 0.05) *BLQ(**LOQ 0.05) mg/l 0.05 No Relaxation Chromium as Cr+6 B:2023 Nickel APHA, 24th Edition, 3111 B: 2023 21 *BLQ(**LOQ 0.01) No Relaxation *BLQ(**LOQ 0.01) mg/l 0.02 22 Electrical IS 3025 (Part 14):2013 RA:2019 us/c Conductivity 1220 1080 23 Zinc as Zn m APHA, 24th Edition, 3111 B: 2023 *BLQ(**LOQ 0.2) *BLQ(**LOQ 0.2) mg/l 5 24 Copper as Cu 15 APHA, 24th Edition, 3111 B: 2023 *BLQ(**LOQ 0.02) *BLQ(**LOQ 0.02) 25 mg/l 0.05 15 Cadmium as Cd APHA, 24th Edition, 3111 B: 2023 *BLQ(**LOQ 0.002) *BLQ(**LOQ 0.002) mg/l 0.003 26 No Relaxation APHA, 24th Edition, 3111 B: 2023 Lead as Pb *BLQ(**LOQ 0.005) *BLQ(**LOQ 0.005) mg/l 0.01 27 Total Coliform No Relaxation IS 15185: 2016 Absent Absent Per 28 E. Coli IS 15185: 2016 Shall not be Detectable in Absent Absent 100 Any 100 ml sample *BLQ-Below Limit of Quantification, **LOQ-Limit of Quantification ml LAB PA

JAIPUR

Terms & C

Checkell By
Corporate & Registered Office:

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

© 0141-2954638 © bd@vibranttechnolab.com

www.vibranttechnolab.com

**RK Yadav** Lab Incharge

Authorized Signatory



ISO 9001, 14001 & 45001 Certified Company EPA Recognized Laboratory | NABET Accredited EIA Consultant Organisation

### TEST REPORT

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** 

Report No.: VTL/W/2505300022-23

Format No.: 7.8 F-01

Party Reference No.: NIL

Report Date: 05/06/2025

Period of Analysis: 30/05/2025 to 05/06/2025

Receipt Date: 30/05/2025

Sampling Date: 24/05/2025

Sampling Type: Grab

Sampling Quantity: 2.0Ltr.+ 250 ml

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

				Control of the second		Limits of I	S:10500-2012
S.No.	Parameters  pH (at 25°C)	Test-Method	Hinauta Village	Purwa Village	Unit	Requirement (Acceptable Limits)	Permissible Limit in the Absence of Alternate Source
2	Colour	IS 3025 (Part 11): 2022	7.25	7.32		6.5 to 8.5	No Relaxation
3	Turbidity	IS 3025 (Part 4): 2021	*BLQ(**LOQ 1.0)	*BLQ(**LOQ 1.0)	Hazen	5	15
4	Odour	IS 3025 (Part 10) : 2023	*BLQ(**LOQ 1.0)	*BLQ(**LOQ 1.0)	NTU	1	5
5	LANCE TOTAL	IS 3025 (Part 5) : 2018	Agreeable	Agreeable		Agreeable	Agreeable
6	Temperature Total Hardness as	IS 3025 (Part 9) : 2023	25.1	25.6		192	
100	CaCO ₃	IS 3025 (Part 21): 2009, RA: 2019	195.0	162.0	mg/l	200	600
7	Calcium as Ca	IS 3025 (Part 40) :2024	49.0	42.0	mg/l	75	200
8	Alkalinity as CaCO₃	IS 3025 (Part 23): 2023	82.5	76.8	mg/l	200	600
9	Chloride as Cl	IS 3025 (Part 32): 1988, RA: 2019	95.6	89.2	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 0.2)	*BLQ(**LOQ 0.2)	mg/l	7-	7
12	Magnesium as Mg	IS 3025 (Part 46):2023	17.68	13.90	mg/l	30	100
13	Total Dissolved Solids	IS 3025 (Part 16) :2023	710	820	mg/l	500	2000
14	Sulphate as SO ₄	IS 3025 (Part 24/Sec 1): 2022 Clause 5.0	62.9	53.4	mg/l	200	400
15	Fluoride as F	APHA, 24th Edition, 4500F-D: 2023	0.38	0.40	mg/l	10	
16	Nitrate as NO ₃	IS 3025 (Part 34/Sec 1): 2023 Clause 6.4	23.1	18.9	mg/l	1.0 45	1.5 No Relaxation
17	Iron as Fe	APHA 24th Edition, 3111 B, 2023	0.21	0.18	mg/l	1.0	N. D. I.
18	Potassium	APHA 24th Edition, 3500 K,2023	19.8	13.2	mg/l	1.0	No Relaxation
19	Boron	APHA, 24th Edition, 4500 B-C: 2023	*BLQ(**LOQ 0.2)	*BLQ(**LOQ 0.2)	mg/l	0.5	••
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	2.4 No Relaxation
21	Nickel	APHA, 24th Edition, 3111 B: 2023	*BLQ(**LOQ 0.01)	*BLQ(**LOQ 0.01)	mg/l	0.02	No Relaxation
22	Electrical Conductivity	IS 3025 (Part 14):2013 RA:2019	1110	1280	μs/cm		26
23	Zinc as Zn	APHA, 24th Edition, 3111 B: 2023	*BLQ(**LOQ 0.2)	*BLQ(**LOQ 0.2)			
24	Copper as Cu	APHA, 24th Edition, 3111 B: 2023	*BLQ(**LOQ 0.02)	*BLQ(**LOQ	mg/l mg/l	0.05	15 1.5
25	Cadmium as Cd	APHA, 24th Edition, 3111 B: 2023	*BLQ(**LOQ 0.002)	0.02) *BLQ(**LOQ	mg/l	0.003	No Relaxation
26	Lead as Pb	APHA, 24th Edition, 3111 B: 2023	*BLQ(**LOQ 0.005)	0.002) *BLQ(**LOQ 0.005)	mg/l	0.01	No Relaxation
27	Total Coliform	IS 15185 : 2016	Absent	Absent	Per 100	C) 11 1	
28	E. Coli	IS 15185 : 2016 of Quantification, **LOO-Limit of Quant	Absent	Absent	ml Per 100	Shall not be I Any 100 n	Detectable in

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

Corporate & Registered Office:

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

3 0141-2954638 bd@vibranttechnolab.com

www.vibranttechnolab.com

ditions:

**RK Yadav** Lab Incharge Authorized Signatory



ISO 9001, 14001 & 45001 Certified Company EPA Recognized Laboratory | NABET Accredited EIA Consultant Organisation

### TEST REPORT

VTL/W/09-10

M/s JK Cement Works, Panna

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

488441 Dist-Panna

**Ground Water** 

Report No.:

VTL/W/2505300024-25

Format No.:

7.8 F-01

Party Reference No.: Report Date:

NIL

05/06/2025

Period of Analysis: Receipt Date:

30/05/2025 to 05/06/2025

30/05/2025

Sampling Date:

24/05/2025

Sampling Quantity:

2.0Ltr.+ 250 ml

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

							IS:10500-2012
S.No.	Parameters	Test-Method	Amanganj	Bhupatpura Village	Unit	Requirem ent (Acceptabl e Limits)	Permissible Limit in the Absence of Alternate Source
1	pH (at 25°C)	IS 3025 (Part 11): 2022	7.33	7.39	-	6.5 to 8.5	No Relaxation
2	Colour	IS 3025 (Part 4): 2021	*BLQ(**LOQ 1.0)	*BLQ(**LOQ 1.0)	Hazen	5	15
3	Turbidity	IS 3025 (Part 10): 2023	*BLQ(**LOQ 1.0)	*BLQ(**LOQ 1.0)	NTU	1	5
4	Odour	IS 3025 (Part 5): 2018	Agreeable	Agreeable		Agreeable	Agreeable
5	Temperature	IS 3025 (Part 9): 2023	25.4	25.1		rigi ceaole	Agreeable
6	Total Hardness as CaCO ₃	IS 3025 (Part 21) : 2009, RA : 2019	221.0	256.0	mg/l	200	600
7	Calcium as Ca	IS 3025 (Part 40) :2024	42.0	57.0	mg/l	75	200
8	Alkalinity as CaCO₃	IS 3025 (Part 23): 2023	78.9	92.7		200	200
9	Chloride as Cl	IS 3025 (Part 32): 1988, RA: 2019	125.3	148.5	mg/l		600
10	Residual free Chlorine	IS 3025 (Part 26): 2021 Clause 7.0	*BLQ(**LOQ 0.2)	*BLQ(**LOQ 0.2)	mg/l mg/l	0.2	1000
11	Phosphate	IS 3025 (Part 31)	*BLQ(**LOQ 0.2)	*BLQ(**LOQ 0.2)	and the same of th	18.7	
12	Magnesium as Mg	IS 3025 (Part 46):2023	28.24		mg/l	**	
13	Total Dissolved Solids	IS 3025 (Part 16) :2023	690	27.65 830	mg/l mg/l	30 500	2000
14	Sulphate as SO ₄	IS 3025 (Part 24/Sec 1): 2022 Clause 5.0	85.6	91.8	mg/l	200	400
15	Fluoride as F	APHA, 24th Edition, 4500F-D: 2023	0.41	0.50			1 3 63
16	Nitrate as NO ₃	IS 3025 (Part 34/Sec 1) : 2023 Clause 6.4	32.6	0.50 36.7	mg/l mg/l	1.0 45	1.5 No Relaxation
17	Iron as Fe	APHA 24th Edition, 3111 B, 2023	0.29	0.22		- 88 ·	A COLLEGE
18	Potassium	APHA 24th Edition, 3500 K,2023	25.8	0.33	mg/l	1.0	No Relaxation
19	Boron	APHA, 24th Edition, 4500 B-C: 2023	*BLQ(**LOQ 0.2)	28.6	mg/l		
20	Hexavalent	APHA, 24th Edition, 3500 Cr- B:2023		*BLQ(**LOQ 0.2)	mg/l	0.5	2.4
	Chromium as Cr+6 Nickel	APHA, 24th Edition, 3111 B : 2023	*BLQ(**LOQ 0.05)	*BLQ(**LOQ 0.05)	mg/l	0.05	No Relaxation
21	Electrical		*BLQ(**LOQ 0.01)	*BLQ(**LOQ 0.01)	mg/l	0.02	No Relaxation
23	Conductivity	IS 3025 (Part 14):2013 RA:2019	1230	1290	μs/cm		
24	Zinc as Zn	APHA, 24th Edition, 3111 B: 2023	*BLQ(**LOQ 0.2)	*BLQ(**LOQ 0.2)	mg/l	5	15
	Copper as Cu	APHA, 24th Edition, 3111 B: 2023	*BLQ(**LOQ 0.02)	*BLQ(**LOQ 0.02)	mg/l	0.05	15 1.5
25	Cadmium as Cd	APHA, 24th Edition, 3111 B: 2023	*BLQ(**LOQ 0.002)	*BLQ(**LOQ	mg/l	0.003	No Relaxation
	Lead as Pb	APHA, 24th Edition, 3111 B: 2023	*BLQ(**LOQ 0.005)	0.002) *BLQ(**LOQ	mg/l	0.01	No Relaxation
	Total Coliform	IS 15185 : 2016	Absent	0.005)			
28	E. Coli	IS 15185 : 2016 f Quantification, **LOQ-Limit of Quantifi		Absent Absent	Per	Shall not be	Detectable in

Checkel By
Corporate & Registered Office:

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

© 0141-2954638 © bd@vibranttechnolab.com

www.vibranttechnolab.com

RK Yadav Lab Incharge Authorized Signatory



ISO 9001, 14001 & 45001 Certified Company
EPA Recognized Laboratory | NABET Accredited EIA Consultant Organisation

### **TEST REPORT**

VTL/W/11-12

M/s JK Cement Works, Panna

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

488441 Dist-Panna

**Ground Water** 

Report No.: VTL/W/2505300026-27

Format No.: 7.8 F-01

Party Reference No.: NIL

Report Date: 05/06/2025

Period of Analysis: 30/05/2025 to 05/06/2025

Receipt Date: 30/05/2025 Sampling Date: 24/05/2025

Sampling Quantity: 2.0Ltr.+ 250 ml

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

	Parameters  pH (at 25°C)					Limits of IS:10500-2012	
S.No.			Mahodkh Village	Umri Village	Unit	Requirement (Acceptable Limits)	Permissible Limit in the Absence of Alternate Source
2	Colour		7.26	7.34		6.5 to 8.5	No Relaxation
3		IS 3025 (Part 4) : 2021	*BLQ(**LOQ 1.0)	*BLQ(**LOQ 1.0)	Hazen	5	15
4	Turbidity Odour	IS 3025 (Part 10): 2023	*BLQ(**LOQ 1.0)	*BLQ(**LOQ 1.0)	NTU	1	5
5	CONTRACTOR CONTRACTOR	IS 3025 (Part 5): 2018	Agreeable	Agreeable		Agreeable	Agreeable
6	Temperature Total Hardness as	IS 3025 (Part 9) : 2023	25.6	25.3	375	**	
	CaCO ₃	IS 3025 (Part 21): 2009, RA: 2019	125.0	156.0	mg/l	200	600
7	Calcium as Ca	IS 3025 (Part 40) :2024	38.0	43.0	mg/l	75	200
8	Alkalinity as CaCO ₃	IS 3025 (Part 23) : 2023	55.6	48.7	mg/l	200	600
9	Chloride as Cl	IS 3025 (Part 32): 1988, RA: 2019	66.3	74.1	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 0.2)	*BLQ(**LOQ 0.2)	mg/l		
12	Magnesium as Mg	IS 3025 (Part 46):2023	7.34	11.84	mg/l	30	
13	Total Dissolved Solids	IS 3025 (Part 16):2023	730	790	mg/l	500	2000
14	Sulphate as SO ₄	IS 3025 (Part 24/Sec 1): 2022 Clause 5.0	59.2	49.5	mg/l	200	400
15	Fluoride as F	APHA, 24th Edition, 4500F-D: 2023	0.32	0.43	ma /1	1.0	
16	Nitrate as NO ₃	IS 3025 (Part 34/Sec 1): 2023 Clause 6.4	17.6	20.2	mg/l mg/l	1.0 45	1.5 No Relaxation
17	Iron as Fe	APHA 24th Edition, 3111 B, 2023	0.23	0.39	O		- SEE
18	Potassium	APHA 24th Edition, 3500 K,2023	17.4	22.3	mg/l	1.0	No Relaxation
19	Boron	APHA, 24th Edition, 4500 B-C: 2023	*BLQ(**LOQ 0.2)	*BLQ(**LOQ 0.2)	mg/l		***
20	Hexavalent Chromium as Cr+6	APHA, 24th Edition, 3500 Cr- B:2023	*BLQ(**LOQ 0.05)	*BLQ(**LOQ 0.05)	mg/l mg/l	0.5	2.4 No Relaxation
21	Nickel	APHA, 24th Edition, 3111 B: 2023	*BLQ(**LOQ 0.01)	*BLQ(**LOQ 0.01)	mg/l	0.02	No Relaxation
22	Electrical Conductivity	IS 3025 (Part 14):2013 RA:2019	1140	1260	μs/cm	3	
23	Zinc as Zn	APHA, 24th Edition, 3111 B: 2023	*BLQ(**LOQ 0.2)	*BLQ(**LOQ 0.2)	mg/l	5	
24	Copper as Cu	APHA, 24th Edition, 3111 B: 2023	*BLQ(**LOQ 0.02)	*BLQ(**LOQ 0.02)	mg/l	0.05	15 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	Total Coliform	IS 15185:2016	Absent	Absent	Dog		
28	E. Coli	IS 15185 : 2016 of Quantification, **LOQ-Limit of Quant	Absent	Absent	Per 100 ml	Shall not be I Any 100 n	Detectable in

Corporate & Registered Office:

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

© 0141-2954638 @ bd@vibranttechnolab.com

www.vibranttechnolab.com

JAIPUR

ns & Condition

RK Yadav Lab Incharge Authorized Signatory

2. Court of law and should not be used in any advertising media without our special permission in writing. 4. Authenticity of Test Report and Accreditation status may be seen online through QR Code. 5. Retention period of sample will be 30 days only, any query beyond 30 days will not be entertained.



ISO 9001, 14001 & 45001 Certified Company
EPA Recognized Laboratory | NABET Accredited EIA Consultant Organisation

### **TEST REPORT**

VTL/W/13

M/s JK Cement Works, Panna

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

488441 Dist-Panna

**Ground Water** 

Report No.:

VTL/W/2505300028

Format No.:

7.8 F-01

Party Reference No.:

NIL

Report Date:

05/06/2025

Period of Analysis:

30/05/2025 to 05/06/2025

Receipt Date:

30/05/2025

Sampling Date:

24/05/2025

Sampling Quantity:

2.0Ltr.+ 250 ml

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

					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	7.45		6.5 to 8.5	No Relaxation	
2	Colour	IS 3025 (Part 4): 2021	*BLQ(**LOQ 1.0)	Hazen	5	15	
3	Turbidity	IS 3025 (Part 10): 2023	*BLQ(**LOQ 1.0)	NTU	1	5	
4	Odour	IS 3025 (Part 5): 2018	Agreeable		Agreeable	Agreeable	
5	Temperature	IS 3025 (Part 9): 2023	25.4				
6	Total Hardness as CaCO ₃	IS 3025 (Part 21): 2009, RA: 2019	210.0	mg/l	200	600	
7	Calcium as Ca	IS 3025 (Part 40) :2024	62.0	mg/l	75	200	
8	Alkalinity as CaCO ₃	IS 3025 (Part 23): 2023	87.9	mg/l	200	600	
9	Chloride as Cl	IS 3025 (Part 32): 1988, RA: 2019	110.5	mg/l	250	1 2 3 3	
10	Residual free Chlorine	IS 3025 (Part 26): 2021 Clause 7.0	*BLQ(**LOQ 0.2)			1000	
11	Phosphate	IS 3025 (Part 31)	*BLQ(**LOQ 0.2)	mg/l	0.2	1	
12	Magnesium as Mg	IS 3025 (Part 46):2023	13.44	mg/l	- 17	165	
13	Total Dissolved Solids	IS 3025 (Part 16):2023	845	mg/l	30	100	
14	Sulphate as SO ₄	IS 3025 (Part 24/Sec 1) : 2022 Clause 5.0	66.9	mg/l mg/l	500 200	2000 400	
15	Fluoride as F	APHA, 24th Edition, 4500F-D: 2023	0.54	/1	14.0	2	
16	Nitrate as NO ₃	IS 3025 (Part 34/Sec 1) : 2023 Clause 6.4	39.5	mg/l mg/l	1.0	1.5 No Relaxation	
17	Iron as Fe	APHA 24th Edition, 3111 B, 2023	0.43	mg/l	1.0		
18	Potassium	APHA 24th Edition, 3500 K,2023	33.8	mg/l	1.0	No Relaxation	
19	Boron	APHA, 24th Edition, 4500 B-C: 2023	*BLQ(**LOQ 0.2)	mg/l	4 10 22	**	
20	Hexavalent Chromium as Cr+6	APHA, 24th Edition, 3500 Cr- B:2023	*BLQ(**LOQ 0.05)	mg/l mg/l	0.5	2.4 No Relaxation	
21	Nickel	APHA, 24th Edition, 3111 B: 2023	*BLQ(**LOQ 0.01)	mg/l	0.02	No Relaxation	
22	Electrical Conductivity	IS 3025 (Part 14):2013 RA:2019	1220	-	-	ALL VIEW	
23	Zinc as Zn	APHA, 24th Edition, 3111 B : 2023	1320	μs/cm		-	
24	Copper as Cu	APHA, 24th Edition, 3111 B: 2023	*BLQ(**LOQ 0.2)	mg/l	5	15	
25	Cadmium as Cd	APHA, 24 th Edition, 3111 B: 2023	*BLQ(**LOQ 0.02)	mg/l	0.05	1.5	
26	Lead as Pb	APHA, 24th Edition, 3111 B: 2023	*BLQ(**LOQ 0.002)	mg/l	0.003	No Relaxation	
27	Total Coliform	IS 15185: 2016	*BLQ(**LOQ 0.005)	mg/l	0.01	No Relaxation	
28	E. Coli	IS 15185 · 2016	Absent	Per 100	Shall not be l	Detectable in	
-Cro-OTe	*BLQ-Below Limit of Quant	ification, **LOQ-Limit of Quantification.	Absent	ml	Any 100 r	nl sample	

Cherked By

Corporate & Registered Office:

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

© 0141-2954638 © bd@vibranttechnolab.com

mww.vibranttechnolab.com



RK Yadav Lab Incharge Authorized Signator



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

Date: 29.09.2025

CIN: L17229UP1994PLC017199

- Village Harduwaken, Tehsil Amanganj
   District Panna, State Madhya Pradesh, India 488 441
- 😂 9329141591 🤷 jkc.panna@jkcement.com
- g www.jkcement.com

#### Ref: JKCEMENT/ENV/EMR/2025-26/20B/97

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 August-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 August-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 Agrewal (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
- **4** +0124-6919000
- admin.prlsmt@jkcement.com
   www.jkcement.com
- CIN: L17229UP1994PLC017199





Manufacturing Units at :

Nimbahera, Mangrol, Gotan (Rajasthan) | Muddapur (Karnataka) Jharti (Haryana) | Katni, Panna, Ujjain (M.P.) | Prayagraj, Aligarh, Hamirpur (U.P.) | Balasinor (Gujarat) | Fujairah





ISO 9001, 14001 & 45001 Certified Company EPA Recognized Laboratory | NABET Accredited EIA Consultant Organisation

#### **TEST REPORT**

Sample Number:

Name & Address of the Party:

Sample Description:

Sample Collected by:

Parameter Required; Sampling and Analysis Protocol: VTL/SW/01-03

M/s JK Coment Works, Panna

(A Unit Of | K Coment Ltd.) Kakra- Panna Limestone Mines Village-Harduwaken Tehsil-Amangan| PiN-488441 Dist-

Surface Water

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

Report No.

VTL/W/2508230030-32

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

Report Date: 29/08/2025

Period of Analysis: Receipt Date:

23 to 29/00/2025 23/08/2025

Sampling Date: Sampling Quantity: 21/08/2025 2.0Ltr.+ 250 ml

Sampling Type: Geab

S. No.	Parameter	Test Method	Pond Near Pagra Village	Ken River Near Tighra Village	Beteha Nalla Near Suraipur	Unit
Phys	ical Parameters			T. Grant T. Grant	out up at	
1.	pH (at 25 °C)	IS 3025 (P-11); 2022	7.49	7.71	7.52	
2.	Colour	IS 3025(P-4): 2021	6	9	8	Hazen
3.	Turbidity	IS 3025 (P-10): 2023	10	17	12	NTU
	ical Parameters (mg/l)		4.0	1,	12	I RIU
4.	Total Hardness as CaCO ₃	IS: 3025 (P-21): 2009,RA: 2019	142.0	173.0	132.0	mg/l
5.	Alkalinity as CaCO1	IS: 3025 (P-23): 2023	62.0	68.5	42.0	mg/l
6.	Chloride as Cl	IS: 3025 (Part 32):1988, RA:2019	32.50	36.50	25.67	mg/l
7.	Total Dissolved Solids	IS 3025 (P-16): 2023	432	410	387	mg/l
8.	Sniphate as SO ₄	IS: 3025 (P-24): Sec.1 : 2022	17.89	14.96	12.70	mg/l
9.	Fluoride as F	APHA (23rd Edition), 4500FD:2017	0.25	0.20	0.18	mg/t
10.	Nitrate as NO ₂	IS: 3025 (P-34): 1968,(Chromotropic Method) Sec. 4 RA: 2022	6.14	5.89	3.85	mg/l
11.	Iron as Fe	APHA (23rd Edition),31138: 2017	0.27	0,24	0.22	mg/l
12.	Chromium as Cr+6	APHA (23rd Edition),3500 CR-B	*BLQ(**LOQ-0.05)	*BLQ(**LOQ-0.05)	*8LQ(**LOQ-0.05)	mg/l
13.	Phenolic Compounds	APHA 23™ Edition,2017, 5530 C	*BLQ(**LOQ-0.001)	*BLQ(**L0Q-0.001)	"BLQ(**LOQ-0.001)	neg/l
14.	Zinc as Zn	APHA (23rd Edition),3111 B: 2017	0.35	0.22	0.32	mg/l
15.	Copper as Cu	APHA (23rd Edition),3111 B: 2017	*BLQ(**LOQ-0.02)	*BLQ(**LOQ-0.02)	*BLQ(**LOQ-0.02)	ny/1
16.	Cadmium as Cd	APHA (237 Edition),3111 B: 2017	*BLQ(**LOQ-0.002)	*BLQ(**LOQ-0.002)	*BLQ(**LOQ-0.002)	mg/l
7.	Lead as Pb	APHA (23rd Edition),3111 B: 2017	*BLQ(**LOQ-0.005)	*BLQ(**LOQ-0.005)	*BLQ(**LOQ-0.005)	mg/l
.8.	Arsenic as As	APHA (23rd 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 B,2017	*BLQ(**LOQ-0.001)	*BLQ(**LOQ-0.001)	*BLQ(**LOQ-0.001)	mg/l
0.	OH & Grease	15:3025(P-39)	*BLQ(**LOQ-4,0)	*BLQ(**LOQ-4.0)	*BLQ(**LOQ-4.0)	rng/l
1.	BOD ( 3days at 27°C)	IS:3025(P-44):1993, RA:2019	11.20	9.45	8.10	mg/t
Z	COD	IS:3025(P-58):2006, RA:2017	45.0	39.0	42.0	mg/l
3.	DO	IS:3025(F-3B):1989, RA:2019	6.2	6.0	5.8	mg/l
4.	TSS	IS:3025(P-17):2021	38	33	44	rng/l
icrob	iological Parameters				7.7	1 (105/1
	Total Collform	IS:1518S: 2016	Present	Present	Present	December / 17
_		IS:15185: 2016 Quantification, **LOQ- Limit of			Present	Present/Abs at per 100 m

**JAIPUR** 

RK Yadav Lab Incharge

Corporate & Registered Office:

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

3 0141-2954638 bd@vibranttechnolab.com

mww.vibranttechnolab.com

Теп Conditions:

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

Authorized Signatory



ISO 9001, 14001 & 45001 Certified Company EPA Recognized Laboratory | NABET Accredited EIA Consultant Organisation

#### **TEST REPORT**

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-488441 Dist-Panna

Report No.: VT1/W/2508230033-35 Format No.: 7.8 F-01 Party Reference No.: MTE. Report Date: 29/08/2025

Sample Description:

Sample Collected by: Preservation: Parameter Required: Sampling and Analysis Protocol: Vibrant Techno Lab Team Suitable Preservation As Per Work Order APHA 24th Edition 2023

Period of Analysis: 23 to 29/08/2025 Receipt Date: Sampling Date: Sampling Quantity: Sampling Type:

23/08/2025 20/08/2025 2.0Ltr.+ 250 ml

S. No.	Parameter	Test Method	Mirhasan River Near Amangani	Ken River Near Singaura Village	Sonar River Near Village Santa	Unit
Phys	ical Parameters				GHOLE	
1.	pH (at 25 °C)	IS 3025 (P-11): 2022	7.33	7.47	7.42	1
2.	Colour	IS 3025(P-4): 2021	6	11	8	Hazen
3.	Turbidity	IS 3025 (P-10): 2023	7	13	11	NTU
	ikal Parameters (mg/l)	10 3000 (1 10) 1000		13	- 11	MIG
4.	Total Hardness as CaCO ₂	IS: 3025 (P-21): 2009,RA: 2019	147.0	119.0	138.0	mg/l
5.	Alkalinity as CaCO ₃	IS: 3025 (P-23): 2023	62.0	48.2	54.6	mg/l
6.	Chloride as Cl	IS: 3025(Part 32):1988, RA:2019	48.60	32.60	35.70	ang/l
7.	Total Dissolved Solids	IS 3025 (P-16): 2023	450	372	415	mg/l
В.	Sulphate as SO ₄	IS: 3025 (P-24): Sec.1 : 2022	18.20	14.69	16.30	mg/l
9.	Fluoride as F	APHA (23rd Edition), 4500FD:2017	0.20	0.15	0.17	mg/l
10.	Nitrate as NO ₃	IS: 3025 (P-34): 1988,(Chromotropic Method) Sec. 4 RA: 2022	5.82	6.23	8.28	mg/l
11.	Iron as Fe	APHA (23™ Edition),31138: 2017	0.23	0.19	0.21	mg/l
12.	Chromium as Cr+6	APHA (23rd Edition),3500 CR-8	*BLQ(**LOQ-0.05)	*BLQ(**LOQ-0.05)	*BLQ(**LOQ-0.05)	mg/l
13.	Phenolic Compounds	APHA 23rd Edition,2017, 5530 C	*BLQ(**L0Q-0.001)	*BLQ(**LOQ-0.001)	*BLQ(**LOQ-0.001)	mg/l
14.	Zinc as Zn	APHA (23™ Edition),3111 B: 2017	0.32	0.29	0.33	mg/l
15.	Copper as Cu	APHA (23rt Edition),3111 B: 2017	*BLQ(**LOQ-0.02)	*BLQ(**LOQ-0.02)	*BLQ(**LOQ-0,02)	mg/l
16.	Cadulon as Cd	APHA (23rd Edition),3111 B: 2017	*BLQ(**LOQ-0.002)	*BLQ(**LOQ-0.002)	*8LQ(**LOQ-0.002)	mg/l
17.	Lead as Pb	APHA (23rd Edition),3111 B: 2017	*BLQ(**LOQ-0.005)	*BLQ(**LOQ-0.005)	*BLQ(**LOQ-0.005)	mg/t
18.	Arsenic as As	APHA (23rd Edition),3114C,2017	*BLQ(**LOQ-0.005)	*BLQ(**LOQ-0.005)	*BLQ(**LOQ-0.005)	mg/l
19.	Mercury as Hg	APHA (23™ Edition)3112 B,2017	*BLQ(**LOQ-0.001)	*BLQ(**LOQ-0.001)	*BLQ(**LOQ-0.001)	mg/t
:0.	Oli & Grease	IS:3025(P-39)	*BLQ(**LOQ-4.0)	*BLQ(**LOQ-4.0)	*BLQ(**LOQ-4.0)	nog/l
1.	BOD ( 3days at 27°C)	IS:3025(P-44):1993, RA:2019	15.0	11.0	12.5	mg/l
2.	COD	IS:3025(P-58):2006, RA:2017	57.0	44.0	51.0	rag/l
3.	70	I\$:3025(P-38):1989, RA:2019	5.9	6.2	6.0	ng/l
4.	TSS	IS:3025(P-17):2021	59	52	63	met P
	dological Parameters	1			93	mg/l
5.	Total Coliform	IS:15185: 2016	Present	Present	Present	Present/Abs
6.	Faecal Coliform	IS:15185: 2016	Present	Present	Present	nt per 100 m

JAIPUR

Corporate & Registered Office:

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

© 0141-2954638 bd@vibranttechnolab.com

www.vibranttechnolab.com

RK Yadav Lab Incharge Authorized Signator



ISO 9001, 14001 & 45001 Certified Company EPA Recognized Laboratory | NABET Accredited EIA Consultant Organisation

#### TEST REPORT

Sample Number:

Sample Description:

Sample Collected by:

Parameter Required:

Sampling and Analysis Protocol:

Preservation:

Name & Address of the Party:

VTL/SW/07-08

M/s |K Cement Works, Panna (A Unit Of |K Cement Ltd.) Kakra- Panna Limestone Mines Village-Harduwaken Tebsil-Amanganj PIN-488441 Dist-

Penna

Surface Water

Vibrant Techno Lab Team Suitable Preservation

APHA 24ª Edition 2023

As Per Work Order

Report No.:

VTL/W/2508230036-38 7.8 F-01

Format No.: Party Reference No.:

NIL 29/08/2025

Report Date: Period of Analysis:

23 to 29/08/2025

Receipt Date: Sampling Date: Sampling Quantity: 23/08/2025 19/08/2025 2.0Ltr.+ 250 ml

Sampling Type:

Grah

S. No.	Parameter	Test Method	Pond Near Chikhta Village	Pond Near Umri Village	Nala Near Deora Village	Unit
Phys	ical Parameters		V Sales a	- Fillings		
1.	pH (at 25 °C)	(\$ 3025 (P-11): 2022	7.24	7.38	7.25	1
2.	Colour	IS 3025(P-4): 2021	6	10	8	Hazen
3.	Turbidity	IS 3025 (P-10): 2023	10	14	12	NTU
Chen	olcal Parameters (mg/l)				1.0	1110
4.	Total Hardness as	IS: 3025 (P-21): 2009,RA: 2019	183.0	201.0	144.0	mg/l
5.	Alkalinity as CaCOs	IS: 3025 (P-23): 2023	60.20	57.50	52.90	-
6.	Chloride as Cl	IS: 3025(Part 32):1988, RA:2019	47.26	43.60	44.56	mg/l
7.	Total Dissolved Solids	IS 3025 (P-16): 2023	368	388	392	mg/l
l.	Sulphate as SO4	IS: 3025 (P-24): Sec.1: 2022	14.23	11.19	15.89	
),	Fluoride as F	APHA (23rd Edition), 4500FD:2017	0.22	0,19	0.23	mg/l
0.	Nitrate as NO ₇	IS: 3025 (P-34): 1968,(Chromotropic Method) Sec. 4 RA: 2022	6.24	5.26	7.45	mg/l
1.	Iron as Fe	APHA (23rd Edition),31138: 2017	0.24	0.19	0.28	mg/l
2.	Chromium as Cr+6	APHA (23rd Edition),3500 CR-B	*Bl-Q(**LOQ-0.05)	*BLQ(**LOQ-0.05)	*BLQ(**LOQ-0.05)	rng/l
3.	Phenolic Compounds	APHA 23 rd Edition,2017, 5530 C	*BLQ(**LOQ-0.001)	*BLQ(**LOQ-0.001)	*BLQ(**LOQ-0.001)	mg/l
4.	2Inc as Zu	APHA (23 rd Edition),3111 B: 2017	0.30	0.24	0.31	neg/2
5.	Copper as Cu	APHA (23rd Edition),3111 B: 2017	*BLQ(**1.0Q-0.02)	*BLQ(**LOQ-0.02)	*BLQ(**LOQ-0.02)	mg/l
6.	Cadmium as Cd	APHA (23rd Edition),3111 B: 2017	*BLQ(**LOQ-0.002)	*BLQ(**LOQ-0.002)	*BLQ(**LOQ-0.002)	mg/l
7.	Lead as Pb	APHA (23rd Edition),3111 8: 2017	*BLQ(**LOQ-0.005)	*BLQ(**LOQ-0.005)	*BLQ(**LOQ-0.005)	mg/l
3.	Arsenic as As	APHA (23 rd Edition),3114C,2017	*BLQ(**LOQ-0.005)	*BLQ(**LOQ-0.005)	*BLQ(**LOQ-0.005)	mg/l
2.	Mercury as Hg	APHA (23 rd Edition)3112 8,2017	*BLQ(**LOQ-0.001)	*BLQ(**LOQ-0.001)	*BLQ(**LOQ-0.001)	mg/l
).	Oll & Grease	IS:3025(P-39)	*BLQ(**LOQ-4.0)	*BLQ(**LOQ-4.0)	*BLQ(**LOQ-4.0)	mg/I
	BOD (3days at 27°C)	I5:3025(P-44):1993, RA:2019	10.90	09.40	8.71	mg/l
	COD	IS:3025(P-58):2066, RA:2017	59.0	51.0	43.0	mg/l
	DO	IS:3025(P-38):1989, RA:2019	5.4	6.8	6.7	mg/l
	TSS	IS:3025(P-17):2021	65	57	55	mg/I
	iological Parameters				44	rug/1
	Total Collform	IS:15185: 2016	Present	Present	Present	Present/Abs
	Faecal Coliform	IS:15185: 2016 of Quantification, **LOQ- Limit	Present	Present	Present	at per 100 n

**JAIPUR** 

Lab Incharge Authorized Signator

RK Yadav

Conditions:

Corporate & Registered Office:

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

O 0141-2954638 bd@vibranttechnolab.com

www.vibranttechnolab.com



ISO 9001, 14001 & 45001 Certified Company
EPA Recognized Laboratory | NABET Accredited EIA Consultant Organisation

#### **TEST REPORT**

Sample Number: 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 Tehsii-Amanganj PIN-488441 Dist-Panna

Surface Water

Sample Description:

Sample Collected by: Preservation: Parameter Required: Sampling and Analysis Protocol: Vibrant Techno Lab Team Suitable Preservation As Per Work Order APHA 24th Edition 2023 Report No.:

Party Reference No.: Report Date:

Period of Analysis; Receipt Date; Sampling Date; Sampling Quantity;

Sampling Type:

VTL/W/2508230039-41

7.8 F-01 NEL

29/08/2025 23 to 29/08/2025

23/08/2025 19/08/2025 2.0Ltr.+ 250 ml

Grab

S. No.	Parameter	Test Method	Poud Near Amangan	Berma River Near Galsabad Village	Pond Puraina Village	Unit
Phys	ical Parameters		1 management	national Attract	THE RESERVE TO SERVE THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO	
1.	pH (at 25 °C)	IS 3025 (P-11): 2022	7.52	7.38	7.69	_
2.	Colour	IS 3025(P-4): 2021	8	10	12	Hazen
3.	Turbidity	IS 3025 (P-10): 2023	14	15	17	NTU
	nical Parameters (mg/l)	1 10 0000 (1 10) 10000	4.7	13	- 1/	טוא ן
4.	Total Hardness as CaCO ₂	IS: 3025 (P-21): 2009,RA: 2019	164.0	152.0	171.0	mg/l
S.	Alkalinity as CaCO ₂	IS: 3025 (F-23): 2023	72.0	92.0	83.0	
б.	Chloride as Cl	tS: 3025(Part 32):1988, RA:2019	36.43	40.76	43.89	mg/l
7.	Total Dissolved Solids	IS 3025 (P-16): 2023	358	389	442	mg/t
8.	Sulphate as SQ ₄	IS: 3025 (P-24): Sec.1: 2022	16.78	17.67	20.09	
9.	Finoride as F	APHA (23rd Edition), 4500FD:2017	0.26	0.24	0.30	mg/l
10.	Nitrate as NO ₃	IS: 3025 (P-34); 1980,(Chromotropic Method) Sec. 4 RA: 2022	8.18	9.89	10.46	mg/l
11.	lron as Fe	APHA (23≪ Edition),3113B: 2017	0.23	0.22	0.28	mg/l
12.	Chromium as Cr+6	APHA (23rd Edition),3500 CR-B	*BLQ(**L0Q-0.05)	*BLQ(**LOQ-0.05)	"8LQ(""LOQ-0.05)	mg/l
13.	Phenolic Compounds	APHA 23™ Edition,2017, 5530 C	*BLQ(**LOQ-0.001)	"BLQ(**LOQ-0.001)	*BLQ(**LOQ-0.001)	rag/l
14.	Zinc as Zn	APHA (23rd Edition),3111 B: 2017	0.31	0.27	0.34	mg/l
15.	Copper as Co	APHA (23rd Edition),3111 B: 2017	*BLQ(**LOQ-0.02)	*BLQ(**LOQ-0.02)	"BLQ(**LOQ-0.02)	mg/l
16.	Cadmium as Cd	APHA (23rd Edition),3111 B: 2017	*BLQ(**LOQ-0.002)	*BLQ(**LOQ-0.002)	*BLQ(**LOQ-0.002)	mg/l
7.	Lead as Pb	APHA (23rd Edition),3111 B: 2017	*BLQ(**LOQ-0.005)	*BLQ(**LOQ-0.005)	*BLQ(**LOQ-0.005)	mg/I
.8.	Arsenic as As	APHA (23rd Edition).3114C.2017	*BLQ(**LOQ-0.005)	*BLQ(**LOQ-0.005)	*BLQ(**LOQ-0.005)	mg/t
9.	Mercury as Hg	APHA (23 rd Edition)3112 B.2017	*BLQ(**LOQ-0.001)	*BLQ(**LOQ-0.001)	*BLQ(**LOQ-0.001)	mg/l
O.	O# & Grease	IS:3025(P-39)	*BLQ(**L00-4.0)	*BLQ(**LOO-4.0)	1010/14100 / A	19704
1.	B0D (3days at 27°C)	IS:3025(P-44):1993, RA:2019	6.0	5.7	*BLQ(**LOQ-4,0) 6.3	mg/l mg/l
2.	COD	IS:3025(P-58):2006, RA:2017	22.0	17.0	32.0	mg/l
3.	DO	IS:3025(P-38):1989, RA:2019	7.0	6.4	7.2	mg/l
4.	TSS	IS:3025(P-17):2021	44	52	4.7	
icrob	lological Parameters		- 11	36	4.7	mg/l
	Cotal Coliform	IS:15185: 2016	Present	Present		
	secal Colliform	IS-15185-2014	Present Quantification APport		Present Present	Present/Abs

Caredityd By

Corporate & Registered Office:

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

🕒 0141-2954638 🚭 bd@vibranttechnolab.com

www.vibranttechnolab.com

JAIPUR

RK Yadav Lab Incharge Authorized Signatory

erms Conditions:



Sample Number: Name & Address of the Party:

Sample Description:

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

# VIBRANT TECHNO LAB PVT. LTD.

ISO 9001, 14001 & 45001 Certified Company EPA Recognized Laboratory NABET Accredited EIA Consultant Organisation

#### **TEST REPORT**

VTL/ W/01

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/2508230028

Format No.:

7.8 F-01

Party Reference No.:

Report Date:

29/08/2025

Period of Analysis:

23 to 29/08/2025

Receipt Date:

23/08/2025

Sampling Date:

20/08/2025

Sampling Quantity:

2.0Ltr.+ 250 ml

Samp

pling Type:	Gra
-------------	-----

					Limits of E	S: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	7.24	_	6.5 to 8.5	No Relaxation
2.	Colour	IS 3025 (Part 4): 2021	*BLQ(**LOQ 1.0)	Hazen	5	15
3.	Turbidity	IS 3025 (Part 10): 2023	*BLQ(**LOQ 1.0)	NTU	1	5
4.	Odour	IS 3025 (Part 5): 2018	Agreeable		Agreeable	Agreeable
5.	Taste	IS 3025 (Part 8): 2023	Agreeable		Agreeable	Agreeable
6.	Total Hurdness as CaCOa	IS 3025 (Part 21): 2009, RA: 2019	142.0	mg/l	200	600
7.	Calcium as Ca	IS 3025 (Part 40): 1991, RA: 2019	47.5	mg/l	75	200
8.	Alkalinity as CaCO2	IS 3025 (Part 23): 2023	62.0	mg/l	200	600
9.	Chloride as Cl	IS 3025 (Part 32): 1988, RA: 2019	49.0	mg/l	250	1000
10.	Residual free Chlorine	IS 3025 (Part 26): 2021 Clause 7.0	*BLQ(**L00 0.2)	mg/l	0.2	1
11.	Cyanide as CN	IS 3025 (Part 27/Sec 1): 2022	*BLQ(**L00 0.02)	mg/l	0.05	No Relaxation
12.	Magnesium as Mg	APHA, 24th Edition, 3500 Mg B, Calculation Method	5.71	mg/I	30	100
13.	Total Dissolved Solids	IS 3025 (Part 16) :2023	452	mg/i	500	2000
14.	Sulphate as SO ₄	IS 3025 (Part 24/Sec 1): 2022 Clause 5.0	28.9	mg/l	200	400
15.	Pluoride as F	APHA, 24th Edition, 4500F-D: 2023	0.30	rog/l	1.0	1.5
16.	Nitrate as NO ₃	IS 3025 (Part 34/Sec 1): 2023 Clause 6.4	9.21	mg/l	45	No Relaxation
17.	Iron as Fe	APHA 24th Edition, 3111 B, 2023	0.17	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, 24th 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	*BLO(**LOQ 0.02)	mg/l	0.05	No Relaxation
21.	Phenolic compound as C ₆ H ₅ OH	APHA, 24th Edition, 5530 C : 2023	*BLQ(**LOQ 0.001)	mg/l	0.001	0.002
22.	Anionic Detergent as MBAS	IS 3025 (Part 68) : 2019	*BLQ(**LOQ 0.05)	mg/l	0.2	1.0
23.	Zinc as Zn	APHA, 24th Edition, 3111 B: 2023	0.21	mg/l	5	15
24.	Copper as Cu	APHA, 24th Edition, 3111 B : 2023	*BLQ(**LOQ 0.02)	mg/l	0.05	1.5
25.	Manganese as Mn	APHA, 24th Edition, 3111 B : 2023	*BLO(**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 Pb	APHA, 24th 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, 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 100		
32.	E. Coli	IS 15185 : 2016, RA 2021 Q-Limit of Quantification Q LAB		ml	Shall not be Detectable in Any 100 ml sample	

JAIPUR

Corporate & Registered Office:

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

3 0141-2954638 bd@vibranttechnolab.com

www.vibranttechnolab.com

RK Yadav Lab Incharge

Conditions:



Sample Collected by:

Parameter Required:

Sampling and Analysis Protocol:

Preservation:

VIBRANT TECHNO LAB PVT. LTD.

ISO 9001, 14001 & 45001 Certifled Company EPA Recognized Laboratory | NABET Accredited EIA Consultant Organisation

#### **TEST REPORT**

Name & Address of the Party:

VTL/ W/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** 

Vibrant Techno Lab Representative

**Suitable Preservation** As Per Work Order APHA 24th Edition 2023

Report No.: Format No.: Party Reference No.:

Report Date:

VTL/W/2508230029

7.8 F-01 NIL

29/08/2025

Period of Analysis: Receipt Date: Sampling Date:

23 to 29/08/2025 23/08/2025 20/08/2025

Sampling Quantity: Sampling Type:

2.0Ltr.+ 250 ml Grab

	<b>以下的原果的性质</b>				Limits of IS:10500-2012		
S.No.	. Parameters	Test-Method	Kakra Village (Hand Pump-01)	Unit	Requirement (Acceptable Limits)	Permissible Limit in the Absence of Alternate Source	
1.	pH (at 25°C)	IS 3025 (Part 11): 2022	7.29	-	6.5 to 8.5	No Relaxation	
2.	Colour	IS 3025 (Part 4): 2021	*BLQ(**LOQ 1.0)	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		Agreeable	Agreeable	
5.	Taste	IS 3025 (Part 8): 2023	Agreeable		Agreeable	Agreeable	
6.	Total Hurdness as CaCO ₃	IS 3025 (Part 21) : 2009, RA : 2019	207.0	mg/l	200	600	
7.	Calcium as Ca	IS 3025 (Part 40): 1991, RA: 2019	55.9	mg/l	75	200	
8.	Alkalinity as CaCO ₃	IS 3025 (Part 23): 2023	76.0	mg/l	200	600	
9.	Chloride as CI	IS 3025 (Part 32): 1988, RA: 2019	102.0	mg/l	250	1000	
10.	Residual free Chlorine	IS 3025 (Part 26) : 2021 Clause 7.0	"BLQ(**LOQ 0.2)	mg/I	0.2	1	
11.	Cyanide as CN	IS 3025 (Part 27/Sec 1): 2022	*BLQ(**LOQ 0.02)	mg/l	0.05	No Relaxation	
12.	Magnesium as Mg	APHA, 24th Edition, 3500 Mg B, Calculation Method	16.41	mg/l	30	100	
13.	Total Dissolved Solids	IS 3025 (Part 16) :2023	629	mg/l	500	2000	
14.	Sulphate as 50₄	IS 3025 (Part 24/Sec 1) : 2022 Clause 5.0	61.49	mg/I	200	400	
15.	Fluoride as F	APHA, 24th Edition, 4500F-D: 2023	0.53	mg/l	1.0	1.5	
16.	Nitrate as NO₃	IS 3025 (Part 34/Sec 1) : 2023 Clause 6.4	20.39	mg/l	45	No Relaxation	
17.	fron as Fe	APHA 24th Edition, 3111 B, 2023	0.22	mg/l	1.0	No Relaxation	
18.	Aluminium as Al	IS 3025 (Part 55): 2003, RA: 2019	*BLQ(**LOQ 0.03)	mg/l	0.03	0.2	
19.	Boron	APHA, 24th Edition, 4500 B-C: 2023	*BLQ(**LOQ 0.2)	mg/l-	0.5	2.4	
20.	Total Chrominm as Cr	APHA, 24th Edition, 3111 B: 2023	*BLQ(**L00 0.02)	mg/l	0.05	No Relaxation	
21.	Phenolic compound as C ₆ H ₅ OH	APHA, 24th Edition, 5530 C : 2023	*BLQ(**LOQ 0.001)	mg/l	0.001	0.002	
22.	Anionic Detergent as MBAS	IS 3025 (Part 68): 2019	*BLQ(**LOQ 0.05)	mg/l	0.2	1.0	
23.	Zinc as Zn	APHA, 24th Edition, 3111 B: 2023	0.26	mg/l	S	15	
4.	Copper as Cu	APHA, 24th Edition, 3111 B : 2023	*BLQ(**LOQ 0.02)	mg/l	0.05	1.5	
5.	Manganese as Mn	APHA, 24th Edition, 3111 B: 2023	*BLQ(**LOQ 0.05)	mg/l	0.1	0.3	
6.	Cadmium as Cd	APHA, 24th Edition, 3111 B : 2023	*BLQ(**LOQ 0.002)	mg/l	0.003	No Relaxation	
7.	Lead as Pb	APHA, 24th Edition, 3111 B: 2023	*BLQ(**LOQ 0.005)	mg/l	0.01	No Relaxation	
8.	Selenium as Se	APHA, 24th Edition, 3114 C : 2023	*BLQ(**LOQ 0.005)	mg/1	0.01	No Relaxation	
9.	Arsenic as As	APHA, 24th Edition, 3114 C: 2023	**BLQ(**LOQ 0.005)	mg/l	0.01	No Relaxation	
D.	Mercury as Hg	APHA, 24th Edition, 3112 B: 2023	*BLQ(**LOQ 0.001)	mg/l	0.001	No Relaxation	
1.	Total Coliform	IS 15185 : 2016, RA 2021	Absent	Per			
2.	E. Coli w Limit of Quantification, **LOQ-Li	IS 15185 : 2016, RA 2021	Absent	100 ml		Detectable in ml sample	

Corporate & Registerach Office:

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

🕒 0141-2954638 🖨 bd@vibranttechnolab.com

www.vibranttechnolab.com

**RK Yadav** 

Lab incharge



ISO 9001, 14001 & 45001 Certified Company EPA Recognized Laboratory | NABET Accredited EIA Consultant Organisation

#### **TEST REPORT**

Sample Number:

Sample Description:

Name & Address of the Party:

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** 

Format No.: Party Reference No.: VTL/W/2508230016-17

7.8 F-01

NIL

Report Date:

Report No.:

29/08/2025

Period of Analysis:

23 to 29/08/2025

Receipt Date:

23/08/2025

Sampling Date: Sampling Quantity:

20/08/2025 2.0Ltr.+ 250 ml

Sampling Type:

Grab

Sample Collected by: Preservation: Parameter Required: Sampling and Analysis Protocol: Vibrant Techno Lab Representative **Suitable Preservation** As Per Work Order APHA 24th Edition 2023

	STEEL				334531		5:10500-2012
S.No	Parameters	Test-Method	Saptai Village	Kamtana Village	Unit	Requireme nt (Acceptabl e Limits)	Limit in the Absence of Alternate Source
1	pH (at 25°C)	IS 3025 (Part 11) : 2022	7.14	8.25		6.5 to 8.5	No Relaxation
2	Colour	IS 3025 (Part 4) : 2021	*BLQ(**LOQ 1.0)	*BLQ(**LOQ 1.0)	Haz en	5	15
3	Turbidity	IS 3025 (Part 10) : 2023	*BLQ(**LOQ 1.0)	*BLQ(**LOQ 1.0)	NTU	1	5
4	Odour	IS 3025 (Part 5): 2018	Agreeable	Agreeable	**	Agreeable	Agreeable
5	Temperature	IS 3025 (Part 9): 2023	25.0	25.0			
6	Total Hurdness as CaCO ₃	IS 3025 (Part 21): 2009, RA: 2019	128.0	142.0	mg/l	200	600
7	Calcium as Ca	IS 3025 (Part 40) : 1991, RA : 2019	28.0	34.0	mg/l	75	200
8	Alkalinity as CaCO ₂	IS 3025 (Part 23): 2023	69.42	53.71	mg/l	200	600
9	Chloride as Cl	IS 3025 (Part 32) : 1988, RA : 2019	54.21	49.87	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)	mg/t	\ II	1 . 5
12	Magnesium as Mg	APHA, 24th Edition, 3500 Mg B, Calculation Method	14.12	13.89	mg/l	30	100
13	Total Dissolved Solids	IS 3025 (Part 16) :2023	598.0	552.0	mg/l	500	2000
14	Sulphate as SO ₄	IS 3025 (Part 24/Sec 1): 2022 Clause 5.0	46.24	41.36	mg/l	200	400
15	Fluoride as P	APHA, 24th Edition, 4500F-D; 2023	0.34	0.29	mg/l	1.0	1.5
16	Nitrate as NO ₃	IS 3025 (Part 34/Sec 1): 2023 Clause 6.4	10.84	9.51	mg/l	45	No Relaxation
17	Iron as Fe	APHA 24th Edition, 3111 B, 2023	0.17	0.20	mg/l	1.0	No Relaxation
18	Potassium	APHA 24th Edition, 3500 K, A+B	13.25	11.87	mg/l		Netaxacion
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, 24th Edition, 3500 Cr- B	*BLQ(**LOQ 0.02)	*BLQ(**LOQ 0.02)	mg/l	0.05	No Relaxation
21	Nickel	APHA, 24 th Edition, 3111 B: 2023	*BLQ(**LOQ 0.01)	*BLQ(**LOQ 0.01)	mg/l	0.02	No Relaxation
22	Electrical Conductivity	IS 3025 (Part 14)	910	842	µs/c		**

**RK Yadav** Lab Incharge **Authorized Signato** 

Corporate & Registered Office:

- Plot No. Q-39, Shringarpura, Narayan Vihar Q. Bhankrota, Jaipur 302026 (Raj.)
- 🕓 0141-2954638 👄 bd@vibranttechnolab.com
- www.vibranttechnolab.com

ms & Conditions:



ISO 9001, 14001 & 45001 Certified Company
EPA Recognized Laboratory | NABET Accredited EIA Consultant Organisation

#### **TEST REPORT**

Samp	le Number: VTL/ W/0	1-02		Rep	ort No.: 1	VTL/W/250	8230016-17
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, 24th Edition, 3111 B : 2023	*BLQ(**LOQ 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, 24 th Edition, 3111 B: 2023	*BLQ(**LOQ 0.005)	"8LQ(**LOQ 0.005)	mg/l	0.01	No Relaxation
27	Total Coliform	IS 15185 : 2016, RA 2021	Absent	Absent	Per	Shall not l	e Detectable
28	E. Coli	IS 15185 : 2016, RA 2021	Absent	Absent	100 ml		in ml sample

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



Checked By

Corporate & Registered Office:

- Plot No. Q-39, Shringarpura, Narayan Vihar Q, Bhankrota, Jaipur 302026 (Raj.)
- © 0141-2954638 @ bd@vibranttechnolab.com
- www.vibranttechnolab.com



RK Yadav Lab Incharge Authorized Signatory

Terms & Conditions:



ISO 9001, 14001 & 45001 Certified Company EPA Recognized Laboratory | NABET Accredited EIA Consultant Organisation

#### **TEST REPORT**

Sample Number: Name & Address of the Party: 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** 

Party Reference No.: Report Date:

Report No.:

Format No.:

VTL/W/2508230018-19 7.6 F-01

Sample Description:

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

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

Period of Analysis: Receipt Date: Sampling Date:

23 to 29/08/2025 23/08/2025 20/08/2025 2.0Ltr.+ 250 ml Grab

29/08/2025

MII.

Sampling Quantity: Sampling Type:

	La transport de la					Limits of L	S:10500-2012
S.No	Parameters		Puraina Village	Pagra Village	Unit	Require ment (Accepta ble Limits)	Permissible  Limit in the Absence of Alternate Source
1	pH (at 25°C)		7.48	7.67	01	6.5 to 8.5	No Relaxation
2	Colour	IS 3025 (Part 4): 2021	*BLQ(**LOQ 1.0)	*BLQ[**LOQ 1.0)	Haz	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		Agreeabl e	Agreeable
5	Temperature	IS 3025 (Part 9): 2023	25.7	24.9		4 /	
6	Total Hurdness as CaCO ₂	IS 3025 (Part 21): 2009, RA: 2019	172.0	194.0	mg/ī	200	600
7	Calcium as Ca	IS 3025 (Part 40): 1991, RA: 2019	49.0	51.0	mg/l	75	200
8	Alkalinity as CaCO ₃	IS 3025 (Part 23) : 2023	57.0	64.0	mg/l	200	600
9	Chloride as Cl	IS 3025 (Part 32): 1988, RA: 2019	64.0	70.0	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		d - 10
12	Magnesium as Mg	APHA, 24th Edition, 3500 Mg B, Calculation Method	12.08	16.22	mg/l	30	100
13	Total Dissolved Solids	IS 3025 (Part 16) :2023	590.0	682.0	mg/l	500	2000
14	Sulphate as SO ₄	IS 3025 (Part 24/Sec 1) : 2022 Clause 5.0	54.28	67.84	mg/l	200	400
15	Fluoride as F	APHA, 24th Edition, 4500F-D: 2023	0.38	0.42	mg/l	1.0	1.5
16	Nitrate as NO ₃	IS 3025 (Part 34/Sec 1): 2023 Clause 6.4	14.87	16.26	mg/l	45	No Relaxation
17	fron as Fe	APHA 24th Edition, 3111 B, 2023	0.21	0.28	mg/l	1.0	No Relaxation
18	Potassium	APHA 24th Edition, 3500 K, A+B	11.4	13.8	mg/l	**	**
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, 24th Edition, 3500 Cr- B	*BLQ(**LOQ 0.02)	*BLQ(**LOQ 0.02)	mg/l	0.05	No Relaxation
21	Nickel	APHA, 24th 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)	890	1024	μs/c m		**
23	Zinc as Zn	APHA, 24th Edition, 3111 B : 283 U	APROXIPLO0 0.2)	*BLQ(**1.0Q 0.2)	mg/l	5	15

RK Yadav Lab Incharge **Authorized Signatory** 

Corporate & Registered Office:

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

ms & Conditions:



ISO 9001, 14001 & 45001 Certified Company
EPA Recognized Laboratory | NABET Accredited EIA Consultant Organisation

### **TEST REPORT**

Samp	le Number: VTL/ W/	03-04		Repor	rt No.: V	FL/W/250	8230018-19
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, 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	Total Coliform	IS 15185 : 2016, RA 2021	Absent	Absent	Per		
28	E. Coli	IS 15185 : 2016, RA 2021	Absent	Absent	100 ml		e Detectable 0 ml sample

^{*}BLQ-Below Limit of Quantification, **LOQ-Limit of Quantification.

Checked By

Corporate & Registered Office:

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

www.vibranttechnolab.com



RK Yadav Lab Incharge Authorized Signatory

Terms & Conditions:



ISO 9001, 14001 & 45001 Certified Company EPA Recognized Laboratory | NABET Accredited EIA Consultant Organisation

#### **TEST REPORT**

Sample Number:

Name & Address of the Party:

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

Mines Village-Harduwaken Tehsil-Amanganj PIN-

Sample Description:

Sample Collected by: Preservation:

Parameter Required: Sampling and Analysis Protocol: VTL/ W/05-06

M/s JK Cement Works, Panna

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/2508230020-21

7.8 F-01 NIL

29/08/2025

23 to 29/08/2025

23/08/2025 20/08/2025 2.0Ltr.+ 250 ml

Grah

- 4			The Control of the Party of the	1 - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Limits of IS:10500-2012		
S.No	Parameters	Test-Method	Udla Village	Sptipura Village	Unit	Require ment (Accepta ble Limits)	Permissible Umit in the Absence of Alternate Source	
1	pH (at 25°C)	IS 3025 (Part 11): 2022	7.42	7.57	4-	6.5 to 8.5	No Relaxation	
2	Colour	1S 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(**LOQ 1.0)	NTU	1	5	
4	Odour	IS 3025 (Part 5): 2018	Agreeable	Agreeable		Agreeabl	Agreeable	
5	Temperature	IS 3025 (Part 9): 2023	24.5	24.7		7	1 11	
6	Total Hurdness as CaCO ₃	IS 3025 (Part 21) : 2009, RA : 2019	145.0	152.0	mg/l	200	600	
7	Calcium as Ca	IS 3025 (Part 40): 1991, RA: 2019	43.0	45.0	mg/l	75	200	
8	Alkalinity as CaCO ₃	IS 3025 (Part 23) : 2023	49.3	52.8	mg/l	200	600	
9	Chloride as CI	IS 3025 (Part 32) : 1988, RA : 2019	56.4	59.6	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)	*8LQ(**LOQ 0.02)	*BLQ(**LOQ 0.02)	mg/l	N 8		
12	Magnesium as Mg	APHA, 24th Edition, 3500 Mg B, Calculation Method	9.16	9.65	mg/l	30	100	
13	Total Dissolved Solids	IS 3025 (Part 16) :2023	496	513	mg/l	500	2000	
14	Sulphate as \$04	IS 3025 (Part 24/Sec 1) : 2022 Clause 5.0	34.32	42.87	mg/l	200	400	
15	Fluoride as F	APHA, 24th Edition, 4500F-D: 2023	0.35	0.39	mg/l	1.0	1.5	
16	Nitrate as NO ₃	IS 3025 (Part 34/Sec 1): 2023 Clause 6.4	9.68	10.17	mg/l	45	No Relaxation	
17	lron as Fe	APHA 24th Edition, 3111 B, 2023	0.15	0.21	mg/l	1.0	No Relaxation	
18	Potassium	APHA 24th Edition, 3500 K, A+B	9.84	11.43	mg/l		**	
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, 24th Edition, 3500 Cr- B	*BLQ(**LOQ 0.02)	*BLQ(**LOQ 0.02)	mg/l	0.05	No Relaxation	
21	Nickel	APHA, 24th Edition, 3111 B: 2023	QQ 0.01)	*BLQ(**LOQ 0.01)	mg/l	0.02	No Relaxation	

**RK Yadav Lab Incharge Authorized Signator** 

Corporate & Registered Office:

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

ns & Conditions:



ISO 9001, 14001 & 45001 Certified Company
EPA Recognized Laboratory | NABET Accredited EIA Consultant Organisation

#### **TEST REPORT**

Samp	ole Number: VTL/W/	<b>'05-06</b>		R	eport No	: VTL/W/	2508230020-21	
22	Electrical Conductivity	1\$ 3025 (Part 14)	771	818	μs/c m			
23	Zinc as Zn	APHA, 24th Edition, 3111 B: 2023	*BLQ(**LOQ 0.2)	*BLQ(**LOQ 0.2)	mg/l	5	15	
24	Copperas 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, 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	Total Coliform	IS 15185 : 2016, RA 2021	Absent	Absent	Рег	Ø 14		
28	E. Coli	IS 15185 : 2016, RA 2021	Absent	Absent	100 ml		be Detectable in 00 ml sample	

^{*}BLQ-Below Limit of Quantification, **LOQ-Limit of Quantification.





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

© 0141-2954638 @ bd@vibranttechnolab.com

www.vibranttechnolab.com



RK Yadav Lab Incharge Authorized Signatory

Terms & Conditions



ISO 9001, 14001 & 45001 Certified Company EPA Recognized Laboratory | NABET Accredited EIA Consultant Organisation

#### **TEST REPORT**

Sample Number:

Name & Address of the Party:

VTL/ W/07-08

M/s JK Cement Works, Panna

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

**Ground Water** 

Sample Description:

Sample Collected by:

Preservation: Parameter Required:

Sampling and Analysis Protocol:

Mines Village-Harduwaken Tehsil-Amangani PIN-

488441 Dist-Panna

Vibrant Techno Lab Representative

Suitable Preservation

As Per Work Order APHA 24th Edition 2023 Report No.: Format No.: VTL/W/2508230022-23 7.8 F-01

Party Reference No.: NIL.

Report Date: 29/08/2025

Period of Analysis:

23 to 29/08/2025

Receipt Date: Sampling Date: 23/08/2025 20/08/2025

Sampling Quantity:

2.0Ltr.+ 250 ml

Sampling Type:

Grab

Park.	TO STATE OF THE PARTY OF THE PA			EUROPE EVEN	HE CHIE	Limits of IS	:10500-2012
S.No.	Parameters	Test-Method	Hinauta Village	Purwa Village	Unit	Requirement (Acceptable Limits)	Permissible Limit in the Absence of Alternate Source
1	pH (at 25°C)	IS 3025 (Part 11): 2022	7.46	7.54		6.5 to 8.5	No Relaxation
2	Colour	IS 3025 (Part 4): 2021	*BLQ(**LOQ 1,0)	*BLQ(**LOQ 1.0)	Hazen	5	15
3	Turbidity	IS 3025 (Part 10) : 2023	*BLQ(**LQQ 1.0)	*BLQ(**LOQ 1.0)	NTU	1	5
4	Odour	IS 3025 (Part 5): 2018	Agreeable	Agreeable		Agreeable	Agreeable
5	Temperature	IS 3025 (Part 9): 2023	24.7	24.2		/	/
6	Total Hurdness as CaCO ₃	IS 3025 (Part 21): 2009, RA: 2019	168.0	158.0	mg/J	200	600
7	Calcium as Ca	IS 3025 (Part 40): 1991, RA: 2019	44.0	37.0	mg/l	75	200
8	Alkalinity as CaCO ₃	IS 3025 (Part 23) : 2023	58.0	51.0	mg/l	200	600
9	Chloride as Cl	IS 3025 (Part 32): 1988, RA: 2019	72.83	68.24	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	7.3
11	Phosphate	IS 3025 (Part 31)	*BLQ(**LOQ 0.02)	*BLQ(**LOQ 0.02)	mg/l	Villa and	7 - 13
12	Magnesium as Mg	APHA, 24th Edition, 3500 Mg B, Calculation Method	14.14	15.96	mg/l	30	100
13	Total Dissolved Solids	IS 3025 (Part 16) :2023	590.0	572.0	mg/l	500	2000
14	Sulphate as SO ₄	IS 3025 (Part 24/Sec 1) : 2022 Clause 5.0	49.0	54.2	mg/l	200	400
15	Fluoride as F	APHA, 24th Edition, 4500F-D: 2023	0.37	0.35	mg/l	1.0	1.5
16	Nitrate as NO ₃	IS 3025 (Part 34/Sec 1): 2023 Clause 6.4	14.28	10.57	mg/l	45	No Relaxation
17	Iron as Fe	APHA 24th Edition, 3111 B, 2023	0.16	0.14	mg/l	1.0	No Relaxation
18	Potassium	APHA 24th Edition, 3500 K, A+B	13.45	11.98	mg/l		**
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 th Edition, 3500 Cr- B	*BLQ(**LOQ 0.02)	*BLQ(**LOQ 0.02)	mg/l	0.05	No Relaxation
21	Nickel	APHA, 24th 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)	IN LABOR	940	µs/cm	- 1	der .



Corporate & Registered Office:

- O Plot No. Q-39, Shringarpura, Narayan Vihar Q, Bhankrota, Jaipur 302026 (Raj.)
- 0141-2954638 bd@vibranttechnolab.com
- www.vibranttechnolab.com

RK Yadav

Lab Incharge **Authorized Signator** 



ISO 9001, 14001 & 45001 Certified Company
EPA Recognized Laboratory | NABET Accredited EIA Consultant Organisation

#### **TEST REPORT**

Sam	ple Number: VTL/ V				Report N	io.: VTL/W/2	2508230022-23	
23	Zinc as Zn	APHA, 24th Edition, 3111 B: 2023	*BLQ(**LOQ 0.2)	*BLQ(**LOQ 0.2)	mg/i	5	15	
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, 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	Total Coliform	IS 15185 : 2016, RA 2021	Absent	Absent	Per			
28	E. Coli	IS 15185 : 2016, RA 2021	Absent	Absent	1 1 1 1 1 1		ot be Detectable in 100 ml sample	

^{*}BLQ-Below Limit of Quantification, **LOQ-Limit of Quantification.





RK Yadav Lab Incharge Authorized Signatory

Corporate & Registered Office:

- Plot No. Q-39, Shringarpura, Narayan Vihar Q, Bhankrota, Jaipur 302026 (Raj.)
- © 0141-2954638 © bd@vibranttechnolab.com
- www.vibranttechnolab.com

Terms & Conditions



ISO 9001, 14001 & 45001 Certified Company EPA Recognized Laboratory | NABET Accredited EIA Consultant Organisation

### **TEST REPORT**

Sample Number:

Sample Description:

Sample Collected by:

Parameter Required:

Sampling and Analysis Protocol:

Preservation:

Name & Address of the Party:

VTL/W/09-10

M/s |K 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.

Report Date:

Party Reference No.2

Period of Analysis:

Receipt Date: Sampling Date: Sampling Quantity:

Sampling Type:

VTL/W/2508230024-25

7.8 F-01

29/08/2025

23 to 29/08/2025 23/08/2025

20/08/2025 2.0Ltr.+ 250 ml

Grab

3413				The state of the state of		Limits of IS:	10500-2012
S.No.	Parameters PH (et 2000)	Test-Method	Amanganj	Bhupatpura Village	Unic	Requirement (Acceptable Limits)	Permissible Limit in the Absence of Alternate Source
1	pH (at 25°C)	IS 3025 (Part 11) : 2022	7.38	7.52	44	6.5 to 8.5	No Relaxation
2	Colour	IS 3025 (Part 4): 2021	*BLQ(**LOQ 1.0)	*BLQ(**LOQ 1.0)	Hazen	5	15
3	Turbidity	IS 3025 (Part 10) : 2023	"BLQ(""LOQ 1.0)	*BLQ(**LOQ'	NTU	1	5
4	Odour	IS 3025 (Part 5): 2018	Agreeable	Agreeable		Agreeable	Agreeable
5	Temperature	IS 3025 (Part 9): 2023	24.1	24.7	-0	44	
6	Total Hurdness as CaCO ₃	IS 3025 (Part 21) : 2009, RA : 2019	195.0	214.0	mg/l	200	600
7	Calcium as Ca	IS 3025 (Part 40) : 1991, RA : 2019	49.0	54.0	mg/l	75	200
8	Alkalinity as CaCO ₃	IS 3025 (Part 23) : 2023	72.42	84.32	mg/l	200	600
9	Chloride as Cl	IS 3025 (Part 32) : 1988, RA : 2019	117.32	131.38	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	A."	
12	Magnesium as Mg	APHA, 24th Edition, 3500 Mg B, Calculation Method	17.67	19,26	mg/l	30	100
13	Total Dissolved Solids	IS 3025 (Part 16) :2023	652.0	685.0	mg/l	500	2000
14	Sulphate as SO _†	IS 3025 (Part 24/Sec 1) : 2022 Clause 5.0	53.74	67.22	mg/l	200	400
15	Fluoride as F	APHA, 24th Edition, 4500F-D: 2023	0.37	0.48	mg/l	1.0	1.5
16	Nitrate as NO ₃	IS 3025 (Part 34/Sec 1): 2023 Clause 6.4	16.56	28.34	mg/l	45	No Relaxation
17	Iron as Fe	APHA 24th Edition, 3111 B, 2023	0.21	0.24	mg/l	1.0	No Relaxation
18	Potassium	APHA 24th Edition, 3500 K, A+B	13.52	15.27	mg/l		
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	*BLQ(**LOQ 0.02)	mg/l	0.05	No Relaxation



Corporate & Registered Office:

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

◆ 0141-2954638 

◆ bd@vibranttechnolab.com

www.vibranttechnolab.com

RK Yadav Lab Incharge

& Conditions:

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

Authorized Signatury



ISO 9001, 14001 & 45001 Certified Company
EPA Recognized Laboratory | NABET Accredited EIA Consultant Organisation

#### **TEST REPORT**

Samp	ole Number: VTL/ W	/09-10			Report No.: VTL/W/2508230024-25		
21	Nickel	APHA, 24* Edition, 3111 B: 2023	*BLQ(**LOQ 0.01)	*BLQ(**LOQ 0.01)	mg/i	0.02	No Relaxation
22	Electrical Conductivity	IS 3025 (Part 14)	980	1020	µs/cm	••	
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, 24th Edition, 3111 B: 2023	*BLQ(**LOQ 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	Total Coliform	IS 15185 : 2016, RA 2021	Absent	Absent	Per		
28	E. Coli	IS 15185 : 2016, RA 2021	Absent	Absent	100 ml	Shall not be Detectable in Any 100 ml sample	

^{*}BLQ-Below Limit of Quantification, **LOQ-Limit of Quantification.



Corporate & Registered Office:

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

3 0141-2954638 bd@vibranttechnolab.com

www.vibranttechnolab.com



RK Yadav Lab Incharge Authorized Signatory

erms & Conditions:



ISO 9001, 14001 & 45001 Certified Company EPA Recognized Laboratory | NABET Accredited EIA Consultant Organisation

#### **TEST REPORT**

Sample Number:

Sample Description:

Sample Collected by:

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 Tehsil-Amanganj PlN-

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/2508230026-27

7.8 F-01

Party Reference No.:

NIL

Report Date:

29/08/2025

Period of Analysis: Receipt Date:

23 to 29/08/2025 23/08/2025

Sampling Date: Sampling Quantity: 20/08/2025 2.0Ltr.+ 250 ml

Sampling Type:

Grab

Preserv	ation:
Parame	ter Required:
Samplin	ng and Analysis Protocol:
Long H	A DESCRIPTION OF THE RES
15000	
CNI	
S.No.	Parameters
A PART	
ALCON	
1	pH (at 25°C)
-	Colour

					THE REAL PROPERTY.	Limits of IS:10500-2012	
S.No.	Parameters	Test-Method	Mahodkh Village	Umri Village	Unit	Requirement (Acceptable Limits)	Permissible Limit in the Absence of Alternate Source
1	pH (at 25°C)	(S 3025 (Part 11) : 2022	7.67	7.72	-	6.5 to 8.5	No Relaxation
2	Colour	IS 3025 (Part 4): 2021	*BLQ(**LOQ 1.0)	*BLQ(**LOQ 1.0)	Hazen	5	15
3	Turbidity	IS 3025 (Part 10) : 2023	*BLQ(**LOQ 1.0)	*BLQ(**LOQ 1.0)	NTU	1	5
4	Odour	IS 3025 (Part 5): 2018	Agreeable	Agreeable		Agreeable	Agreeable
5	Temperature	IS 3025 (Part 9) : 2023	24.1	24.6		. 17	/
6	Total Hurdness as CaCO ₃	IS 3025 (Part 21) : 2009, RA : 2019	132.0	151.0	mg/l	200	600
7	Calcium as Ca	IS 3025 (Part 40): 1991, RA: 2019	33.0	41.0	mg/l	75	200
8	Alkalinity as CaCO ₃	IS 3025 (Part 23): 2023	47.65	55.71	mg/l	200	600
9	Chioride as Ci	IS 3025 (Part 32) : 1988, RA : 2019	64.32	78.23	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	126	102.5
12	Magnesium as Mg	APHA, 24th Edition, 3500 Mg B, Calculation Method	8.43	10.01	mg/l	30	100
13	Total Dissolved Solids	IS 3025 (Part 16) :2023	552.0	696.0	mg/l	500	2000
14	Sulphate as SO ₄	IS 3025 (Part 24/Sec 1) : 2022 Clause 5.0	52.43	58.37	mg/l	200	400
15	Fluoride as F	APHA, 24th Edition, 4500F-D : 2023	0.31	0.38	mg/l	1.0	1.5
16	Nitrate as NO ₃	IS 3025 (Part 34/Sec 1) : 2023 Clause 6.4	11.24	18.67	mg/l	45	No Relaxation
17	fron as Fe	APHA 24th Edition, 3111 B, 2023	0.22	0.34	mg/l	1.0	No Relaxation
18	Potassium	APHA 24th Edition, 3500 K, A+B	11.84	14.32	mg/l		- INDIGNATION
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, 24th Edition, 3500 Cr- B .	*BLOC*LOQ	*BLQ(**LOQ 0.02)	mg/l	0.05	No Relaxation

**JAIPUR** 

RK Yadav Lab Incharge Authorized Signatory

Corporate & Registered Office:

- Plot No. Q-39, Shringarpura, Narayan Vihar Q, Bhankrota, Jaipur 302026 (Raj.)
- © 0141-2954638 

  bd@vibranttechnolab.com
- www.vibranttechnolab.com

Terral Conditions:



ISO 9001, 14001 & 45001 Certified Company
EPA Recognized Laboratory | NABET Accredited EIA Consultant Organisation

#### **TEST REPORT**

Samj	ple Number: VTL/ W	Report No.: VTL/W/2508230026-27						
21	Nickel	APHA, 24th 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)	955	983	µs/cm	••	-	
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, 24th Edition, 3111 B: 2023	*BLQ(**LOQ 0.02)	*BLQ(**LOQ 0.02)	mg/i	0.05	1.5	
25	Cadmium as Cd	APHA, 24th Edition, 3111 B; 2023	*BLQ(**LQQ 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	Total Coliform	IS 15185 : 2016, RA 2021	Absent	Absent	Per			
28	E. Coli	IS 15185 : 2016, RA 2021	Absent	Absent	100 ml		ot be Detectable in 100 ml sample	

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



Corporate & Registered Office:

- Plot No. Q-39, Shringarpura, Narayan Vihar Q, Bhankrota, Jaipur 302026 (Raj.)
- © 0141-2954638 bd@vibranttechnolab.com
- www.vibranttechnolab.com



RK Yadav Lab Incharge Authorized Signatory

Terms & Conditions:



ISO 9001, 14001 & 45001 Certified Company EPA Recognized Laboratory | NABET Accredited EIA Consultant Organisation

#### **TEST REPORT**

Sample Number:

Name & Address of the Party:

VTL/SW/01

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** 

Sample Description: Sample Collected by:

Preservation:

Parameter Required:

Sampling and Analysis Protocol:

Vibrant Techno Lab Team Suitable Preservation

As Per Work Order APHA 24th Edition 2023

Report No.:

**Format No.:** 

Party Reference No.: Report Date:

Period of Analysis:

Receipt Date:

Sampling Date: Sampling Quantity:

Sampling Type:

VTL/W/2508230042

7.8 F-01

NII.

29/08/2025

23 to 29/08/2025

23/08/2025

20/08/2025 2.0Ltr.+ 250 ml

Grab

S. No.	Parameter	Test Method	Run Off Water Kakra Mine	Unit
<b>Physic</b>	al Parameters		The state of the s	Ome
1.	pH (at 25 °C)	IS 3025 (P-11): 2022	7.57	
2.	Colour	IS 3025(P-4): 2021	8	Hazen
3.	Turbidity	IS 3025 (P-10): 2023	11	NTU
Chemic	al Parameters (mg/l)			1 110
4.	Total Hardness as CaCO ₃	IS: 3025 (P-21); 2009,RA: 2019	143.0	mg/l
5.	Alkalinity as CaCO ₂	IS: 3025 (P-23): 2023	56.0	mg/
6.	Chloride as Cl	IS: 3025(Part 32):1988, RA:2019	42.0	
7.	Total Dissolved Solids	IS 3025 (P-16); 2023	384.0	mg/l
8.	Sulphate as 504	IS: 3025 (P-24): Sec.1: 2022	12.70	mg/I
9.	Fluoride as F	APHA (23rd Edition), 4500FD:2017	0.25	mg/I
10.	Nitrate as NOs	IS: 3025 (P-34): 1988,(Chromotropic Method) Sec. 4 RA: 2022	7.23	mg/l mg/l
11.	iron as Fe	APHA (23rd Edition),3113B: 2017	0.30	ma/l
12.	Chromium as Cr+6	APHA (23 rd Edition),3500 CR-B	*BLQ(**LOQ-0.05)	mg/l
13.	Phenolic Compounds	APHA 23rd Edition, 2017, 5530 C	*BLO(**LOO-0.901)	mg/l
14.	Zinc as Zn	APHA (23rd Edition),3111 B: 2017	0.37	mg/i
15.	Copper as Cu	APHA (23rd Edition),3111 B: 2017	*BLQ(**LOQ-0.02)	mg/l
l6.	Cadmium as Cd	APHA (23rd Edition),3111 B: 2017	*BLQ(**L00-0.002)	mg/l
17.	Lead as Pb	APHA (23rd Edition),3111 B: 2017	*BLQ(**LOQ-0.005)	mg/l
LØ.	Arsenic as As	APHA (23rd Edition);3114C.2017	*BLQ(**LOQ-0.005)	mg/l
19.	Mercury as Hg	APHA (23rd Edition) 3112 B.2017	*BLQ(**L0Q-0.001)	mg/l
20.	Oil & Grease	1S:3025(P-39)	*BLO(**LOO-4.0)	mg/l
!1.	BOD (3days at 27°C)	IS:3025(P-44):1993, RA:2019	7,49	mg/i
2.	COD	IS:3025(P-58):2006, RA:2017	58.0	mg/l
3.	DO	IS:3025(P-38):1989, RA:2019	5.6	ring/l
4.	TSS	IS:3025(P-17):2021	43.0	mg/l
ficrobi	ological Parameters		45.0	mg/l
5.	Total Coliform	IS:15185: 2016	Present	December (A)
6.	Faecal Coliform	IS:15185: 2016	Present	Present/Absent pe 100 ml

***End of the report***



Corporate & Registered Office:

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

🕒 0141-2954638 😂 bd@vibranttechnolab.com

www.vibranttechnolab.com

conditions:

RK Yadav Lab Incharge Authorized Signatory



ISO 9001, 14001 & 45001 Certified Company EPA Recognized Laboratory | NABET Accredited EIA Consultant Organisation

### TEST REPORT

Sample Number:

Sample Description:

Sample Collected by:

Parameter Required:

Sampling and Analysis 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 2023 Report No.: Format No.:

VTL/W/2508230030-32 7.8 F-01

Party Reference No.: NII.

Report Date: 29/08/2025

Period of Analysis: Receipt Date:

23/08/2025 Sampling Date: 21/08/2025

Sampling Quantity:

2.0Ltr.+ 250 ml

23 to 29/08/2025

Sampling Type:

Grab

S. No.	Parameter	Test Method	Pond Near Pagra Village	Ken River Near Tighra Village	Beteha Nalla Near Surajpur	Unit
Physi	cal Parameters					
1.	pH (at 25 °C)	IS 3025 (P-11): 2022	7.49	7.71	7.52	-
2.	Colour	IS 3025(P-4): 2021	6	9	8	Hazen
3.	Turbidity	IS 3025 (P-10): 2023	10	17	12	NTU
Chem	ical Parameters (mg/l)	at vo				
4.	Total Hardness as CaCO ₃	IS: 3025 (P-21): 2009,RA: 2019	142.0	173.0	132,0	mg/l
5.	Alkalinity as CaCO ₃	IS: 3025 (P-23): 2023	62.0	68.5	42.0	mg/l
6.	Chloride as Cl	IS: 3025(Part 32):1988, RA:2019	32.50	36.50	25.67	mg/l
7.	Total Dissolved Solids	IS 3025 (P-16): 2023	432	410	387	mg/l
8.	Sulphate as SO ₄	IS: 3025 (P-24): Sec.1 : 2022	17.89	14.96	12.70	mg/l
9.	Fluoride as F	APHA (23rd Edition), 4500FD:2017	0.25	0.20	0.18	mg/l
10.	Nitrate as NO ₃	IS: 3025 (P-34): 1988,(Chromotropic Method) Sec. 4 RA: 2022	6.14	5.89	3.85	mg/l
11.	Iron as Fe	APHA (23rd Edition),3113B: 2017	0.27	0.24	0.22	mg/l
12.	Chromium as Cr+6	APHA (23rd Edition),3500 CR-B	*BLQ(**LOQ-0.05)	*BLQ(**LOQ-0.05)	*BLQ(**LOQ-0.05)	mg/l
13.	Phenolic Compounds	APHA 23rd Edition,2017, 5530 C	*BLQ(**LOQ-0.001)	*BLQ(**LOQ-0.001)	*BLQ(**LOQ-0.001)	mg/l
14.	Zinc as Zn	APHA (23rd Edition),3111 B: 2017	0.35	0.22	0.32	mg/l
15.	Copper as Cu	APHA (23rd Edition),3111 B: 2017	*BLQ(**LOQ-0.02)	*BLQ(**LOQ-0.02)	*BLQ(**LOQ-0.02)	mg/l
16.	Cadmium as Cd	APHA (23rd Edition),3111 B: 2017	*BLQ(**LOQ-0.002)	*BLQ(**LOQ-0.002)	*BLQ(**LOQ-0.002)	mg/l
17.	Lead as Pb	APHA (23rd Edition),3111 B: 2017	*BLQ(**LOQ-0.005)	*BLQ(**LOQ-0.005)	*BLQ(**LOQ-0.005)	mg/l
18.	Arsenic as As	APHA (23 rd Edition),3114C,2017	*BLQ(**LOQ-0.005)	*BLQ(**LOQ-0.005)	*BLQ(**LOQ-0.005)	mg/l
19.	Mercury as Hg	APHA (23rd Edition)3112 B,2017	*BLQ(**LOQ-0.001)	*BLQ(**LOQ-0.001)	*BLQ(**LOQ-0.001)	mg/l
20.	Oil & Grease	IS:3025(P-39)	*BLQ(**LOQ-4.0)	*BLQ(**LOQ-4.0)	*BLQ(**LOQ-4.0)	mg/l
21.	BOD (3days at 27°C)	IS:3025(P-44):1993, RA:2019	11.20	9.45	8.10	mg/l
22.	COD	IS:3025(P-58):2006, RA:2017	45.0	39.0	42.0	mg/l
23.	DO	IS:3025(P-38):1989, RA:2019	6.2	6.0	5.8	mg/l
24.	TSS	IS:3025(P-17):2021	38	33	44	mg/l
Micro	biological Parameters				ACCT.	16/1
25.	Total Coliform	IS:15185: 2016	Present	Present	Present	Present/Abs
26.	Faecal Coliform	IS:15185: 2016	Present	Present	Present	nt per 100 m

RK Yadav Lab Incharge Authorized Signator

### Corporate & Registered Office:

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

Conditions:



ISO 9001, 14001 & 45001 Certified Company EPA Recognized Laboratory | NABET Accredited EIA Consultant Organisation

### TEST REPORT

Annexure-8

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 Tehsil-Amanganj PIN-488441 Dist-

Panna

VTL/SW/04-06

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/2508230033-35

7.8 F-01

NIL

29/08/2025

23 to 29/08/2025

23/08/2025

20/08/2025

2.0Ltr.+ 250 ml

Grab

S. No.	Parameter	Test Method	Mirhasan River Near Amanganj	Ken River Near Singaura Village	Sonar River Near Village Santa	Unit
Phys	ical Parameters					
1.	pH (at 25 °C)	IS 3025 (P-11): 2022	7.33	7.47	7.42	
2.	Colour	IS 3025(P-4): 2021	6	11	8	Hazen
3.	Turbidity	IS 3025 (P-10): 2023	7	13	11	NTU
	ical Parameters (mg/l)			0	1.0	•
4.	Total Hardness as CaCO ₃	IS: 3025 (P-21): 2009,RA: 2019	147.0	119.0	138.0	mg/l
5.	Alkalinity as CaCO₃	IS: 3025 (P-23): 2023	62.0	48.2	54.6	mg/l
6.	Chloride as Cl	IS: 3025(Part 32):1988, RA:2019	48.60	32.60	35.70	mg/I
7.	Total Dissolved Solids	IS 3025 (P-16): 2023	450	372	415	mg/l
8.	Sulphate as SO ₄	IS: 3025 (P-24): Sec.1: 2022	18.20	14.69	16.30	mg/l
9.	Fluoride as F	APHA (23rd Edition), 4500FD:2017	0.20	0.15	0.17	mg/l
10.	Nitrate as NO ₃	IS: 3025 (P-34): 1988,(Chromotropic Method) Sec. 4 RA: 2022	5.82	6.23	8.28	mg/l
11.	Iron as Fe	APHA (23rd Edition),3113B: 2017	0.23	0.19	0.21	mg/l
12.	Chromium as Cr+6	APHA (23rd Edition),3500 CR-B	*BLQ(**LOQ-0.05)	*BLQ(**LOQ-0.05)	*BLQ(**LOQ-0.05)	mg/l
13.	Phenolic Compounds	APHA 23rd Edition,2017, 5530 C	*BLQ(**LOQ-0.001)	*BLQ(**LOQ-0.001)	*BLQ(**LOQ-0.001)	mg/l
14.	Zinc as Zn	APHA (23rd Edition),3111 B: 2017	0.32	0.29	0.33	mg/l
15.	Copper as Cu	APHA (23rd Edition),3111 B: 2017	*BLQ(**LOQ-0.02)	*BLQ(**LOQ-0.02)	*BLQ(**LOQ-0.02)	mg/l
16.	Cadmium as Cd	APHA (23rd Edition),3111 B: 2017	*BLQ(**LOQ-0.002)	*BLQ(**LOQ-0.002)	*BLQ(**LOQ-0.002)	mg/l
17.	Lead as Pb	APHA (23rd Edition),3111 B: 2017	*BLQ(**LOQ-0.005)	*BLQ(**LOQ-0.005)	*BLQ(**LOQ-0.005)	mg/l
18.	Arsenic as As	APHA (23 rd Edition),3114C,2017	*BLQ(**LOQ-0.005)	*BLQ(**LOQ-0.005)	*BLQ(**LOQ-0.005)	mg/l
19.	Mercury as Hg	APHA (23rd Edition)3112 B,2017	*BLQ(**LOQ-0.001)	*BLQ(**LOQ-0.001)	*BLQ(**LOQ-0.001)	mg/l
20,	Oil & Grease	IS:3025(P-39)	*BLQ(**LOQ-4.0)	*BLQ(**LOQ-4.0)	*BLQ(**LOQ-4.0)	mg/l
21.	BOD (3days at 27°C)	IS:3025(P-44):1993, RA:2019	15.0	11.0	12.5	mg/l
22.	COD	IS:3025(P-58):2006, RA:2017	57.0	44.0	51.0	mg/l
23.	DO	IS:3025(P-38):1989, RA:2019	5.9	6.2	6.0	mg/l
24.	TSS	IS:3025(P-17):2021	59	52	63	ma /l
	biological Parameters				03	mg/l
25.	Total Coliform	IS:15185: 2016	Present	Present	Present	Present/Abs
26.	Faecal Coliform	IS:15185: 2016	Present	Present	Present	nt per 100 m

Corporate & Registered Office:

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

3 0141-2954638 bd@vibranttechnolab.com

www.vibranttechnolab.com

JAIPUR

conditions:

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

RK Yadav

Lab Incharge **Authorized Signato** 



ISO 9001, 14001 & 45001 Certified Company
EPA Recognized Laboratory | NABET Accredited EIA Consultant Organisation

### **TEST REPORT**

Sample Number:

Name & Address of the Party:

Sample Description:

Sample Collected by:

Preservation: Parameter Required:

Sampling and Analysis Protocol:

VTL/SW/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

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 Date:

Sampling Type:

VTL/W/2508230036-38

7.8 F-01

NIL 29/08/2025

23 to 29/08/2025

23/08/2025

19/08/2025

2.0Ltr.+ 250 ml

Grab

S. No.	Parameter	Test Method	Pond Near Chikhla Village	Pond Near Umri Village	Nala Near Deora Village	Unit
Phys	ical Parameters			· · · · · · · · · · · · · · · · · · ·		M Harrison Control
1.	pH (at 25 °C)	IS 3025 (P-11): 2022	7.24	7.38	7.25	200
2.	Colour	IS 3025(P-4): 2021	6	10	8	Hazen
3.	Turbidity	IS 3025 (P-10): 2023	10	14	12	NTU
Chen	nical Parameters (mg/l)				-	1 1110
4.	Total Hardness as CaCO ₃	IS: 3025 (P-21): 2009,RA: 2019	183.0	201.0	144.0	mg/l
5.	Alkalinity as CaCO ₃	IS: 3025 (P-23): 2023	60.20	57.50	52.90	mg/l
6.	Chloride as Cl	IS: 3025(Part 32):1988, RA:2019	47.26	43.60	44.56	mg/l
7.	Total Dissolved Solids	IS 3025 (P-16): 2023	368	388	392	mg/l
8.	Sulphate as SO ₄	IS: 3025 (P-24): Sec.1 : 2022	14.23	11.19	15.89	mg/l
9.	Fluoride as F	APHA (23rd Edition), 4500FD:2017	0.22	0.19	0.23	mg/l
10.	Nitrate as NO ₃	IS: 3025 (P-34): 1988,(Chromotropic Method) Sec. 4 RA: 2022	6.24	5.28	7.45	mg/l
11.	Iron as Fe	APHA (23rd Edition),3113B: 2017	0.24	0.19	0.28	mg/l
12.	Chromium as Cr+6	APHA (23rd Edition),3500 CR-B	*BLQ(**LOQ-0.05)	*BLQ(**LOQ-0.05)	*BLQ(**LOQ-0.05)	mg/l
13.	Phenolic Compounds	APHA 23rd Edition,2017, 5530 C	*BLQ(**LOQ-0.001)	*BLQ(**LOQ-0.001)	*BLQ(**LOQ-0.001)	mg/l
14.	Zinc as Zn	APHA (23rd Edition),3111 B: 2017	0.30	0.24	0.31	mg/l
15.	Copper as Cu	APHA (23rd Edition),3111 B: 2017	*BLQ(**LOQ-0.02)	*BLQ(**LOQ-0.02)	*BLQ(**LOQ-0.02)	mg/l
16.	Cadmium as Cd	APHA (23rd Edition),3111 B: 2017	*BLQ(**LOQ-0.002)	*BLQ(**LOQ-0.002)	*BLQ(**LOQ-0.002)	mg/l
17.	Lead as Pb	APHA (23rd Edition),3111 B: 2017	*BLQ(**LOQ-0.005)	*BLQ(**LOQ-0.005)	*BLQ(**LOQ-0.005)	mg/l
18.	Arsenic as As	APHA (23 rd Edition),3114C,2017	*BLQ(**LOQ-0.005)	*BLQ(**LOQ-0.005)	*BLQ(**LOQ-0.005)	mg/l
19.	Mercury as Hg	APHA (23rd Edition)3112 B,2017	*BLQ(**LOQ-0.001)	*BLQ(**LOQ-0.001)	*BLQ(**LOQ-0.001)	mg/l
20.	Oil & Grease	IS:3025(P-39)	*BLQ(**LOQ-4.0)	*BLQ(**LOQ-4.0)	*BLQ(**LOQ-4.0)	
21,	BOD (3days at 27°C)	IS:3025(P-44):1993, RA:2019	10.90	09.40	8.71	mg/l mg/l
22.	COD	IS:3025(P-58):2006, RA:2017	59.0	51.0	43.0	mg/l
23.	DO	IS:3025(P-38):1989, RA:2019	5.4	6.8	6.7	mg/l
24.	TSS	IS:3025(P-17):2021	65	57	55	
	biological Parameters			J.	33	mg/l
5.	Total Coliform	IS:15185: 2016	Present	Present	Present	December 1
6.	Faecal Coliform	IS:15185: 2016 t of Quantification, **LOQ- Limit	Descent		Present	Present/Abs

X

Corporate & Registered Office:

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

3 0141-2954638 

bd@vibranttechnolab.com

www.vibranttechnolab.com

RK Yadav

Conditions:

Lab Incharge
Authorized Signato



ISO 9001, 14001 & 45001 Certified Company EPA Recognized Laboratory | NABET Accredited EIA Consultant Organisation

### **TEST REPORT**

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-Harduwaken Tehsil-Amanganj PIN-488441 Dist-

Panna

Surface Water

Vibrant Techno Lab Team

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

VTL/W/2508230039-41

Format No.:

7.8 F-01

Party Reference No.: Report Date:

29/08/2025

Period of Analysis:

23 to 29/08/2025

Receipt Date:

23/08/2025

Sampling Date: Sampling Quantity:

19/08/2025 2.0Ltr.+ 250 ml

Sampling Type:

Grab

S. No.	Parameter	Test Method	Pond Near Amanganj	Berma River Near Gaisabad Village	Pond Puraina Village	Unit
Phys	ical Parameters	W77,	<b>"</b>			
1.	pH (at 25 °C)	IS 3025 (P-11): 2022	7.52	7.38	7.69	-
2.	Colour	IS 3025(P-4): 2021	8	10	12	Hazen
3.	Turbidity	IS 3025 (P-10): 2023	14	15	17	NTU
	nical Parameters (mg/l)					
4.	Total Hardness as CaCO ₃	IS: 3025 (P-21): 2009,RA: 2019	164.0	152.0	171.0	mg/l
5.	Alkalinity as CaCO ₃	IS: 3025 (P-23): 2023	72.0	92.0	83.0	mg/l
6.	Chloride as Cl	IS: 3025(Part 32):1988, RA:2019	36.43	40.76	43.89	mg/l
7.	Total Dissolved Solids	IS 3025 (P-16): 2023	358	389	442	mg/l
В.	Sulphate as SO ₄	IS: 3025 (P-24): Sec.1: 2022	16.78	17.67	20.09	mg/l
9.	Fluoride as F	APHA (23rd Edition), 4500FD:2017	0.26	0.24	0.30	mg/l
10.	Nitrate as NO ₃	IS: 3025 (P-34): 1988,(Chromotropic Method) Sec. 4 RA: 2022	8.18	9.89	10.46	mg/l
11.	Iron as Fe	APHA (23 rd Edition),3113B: 2017	0.23	0.22	0.28	mg/l
12.	Chromium as Cr+6	APHA (23rd Edition),3500 CR-B	*BLQ(**LOQ-0.05)	*BLQ(**LOQ-0.05)	*BLQ(**LOQ-0.05)	mg/I
13.	Phenolic Compounds	APHA 23rd Edition,2017, 5530 C	*BLQ(**LOQ-0.001)	*BLQ(**LOQ-0.001)	*BLQ(**LOQ-0.001)	mg/l
14.	Zinc as Zn	APHA (23rd Edition),3111 B: 2017	0.31	0.27	0.34	mg/l
15.	Copper as Cu	APHA (23rd Edition),3111 B: 2017	*BLQ(**LOQ-0.02)	*BLQ(**LOQ-0.02)	*BLQ(**LOQ-0.02)	mg/l
16.	Cadmium as Cd	APHA (23rd Edition),3111 B: 2017	*BLQ(**LOQ-0.002)	*BLQ(**LOQ-0.002)	*BLQ(**LOQ-0.002)	mg/l
7.	Lead as Pb	APHA (23rd Edition),3111 B: 2017	*BLQ(**LOQ-0.005)	*BLQ(**LOQ-0.005)	*BLQ(**LOQ-0.005)	mg/l
8.	Arsenic as As	APHA (23 rd 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 B,2017	*BLQ(**LOQ-0.001)	*BLQ(**LOQ-0.001)	*BLQ(**LOQ-0.001)	mg/l
0.	Oil & Grease	IS:3025(P-39)	*BLQ(**LOQ-4.0)	*BLQ(**LOQ-4.0)	*BLQ(**LOQ-4.0)	ma /l
1.	BOD (3days at 27°C)	IS:3025(P-44):1993, RA:2019	6.0	5.7	6.3	mg/l mg/l
2.	COD	IS:3025(P-58):2006, RA:2017	22.0	17.0	32.0	mg/l
3.	DO	IS:3025(P-38):1989, RA:2019	7.0	6.4	7.2	mg/l
4.	TSS	IS:3025(P-17):2021	44	52	47	ma /l
	biological Parameters	76			*/	mg/l
$\overline{}$	Total Coliform	IS:15185: 2016	Present	Present	Present	Present/Abs
6.	Faecal Coliform	IS:15185: 2016 f Quantification, **LOQ- Limit of	Present	D .	Present	nt per 100 m

Corporate & Registered Office:

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

www.vibranttechnolab.com

RK Yadav Lab Incharge

nditions:

Authorized Signato



ISO 9001, 14001 & 45001 Certified Company EPA Recognized Laboratory | NABET Accredited EIA Consultant Organisation

#### TEST REPORT

Annexure-9

Sample Number:

Sample Description:

Sample Collected by:

Parameter Required:

Preservation:

Name & Address of the Party:

Sampling and Analysis Protocol:

VTL/SW/01

M/s JK Cement Works, Panna

Vibrant Techno Lab Team

Suitable Preservation

APHA 24th Edition 2023

As Per Work Order

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

Mines Village-Harduwaken Tehsil-Amanganj PIN-

488441 Dist-Panna

Surface Water

Report No.:

VTL/W/2508230042

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

Report Date:

NIL

Period of Analysis:

29/08/2025

Receipt Date:

23 to 29/08/2025 23/08/2025

Sampling Date: Sampling Quantity: 20/08/2025 2.0Ltr.+ 250 ml

Sampling Type:

Grab

S. No.	Parameter	Test Method	Run Off Water Kakra Mine	Unit
Physica	al Parameters		No.	
1.	pH (at 25 °C)	IS 3025 (P-11): 2022	7.57	
2.	Colour	IS 3025(P-4): 2021	8	Hazen
3.	Turbidity	IS 3025 (P-10): 2023	11	NTU
Chemic	al Parameters (mg/l)			
4.	Total Hardness as CaCO ₃	IS: 3025 (P-21): 2009,RA: 2019	143.0	mg/I
5.	Alkalinity as CaCO₃	IS: 3025 (P-23): 2023	56.0	mg/l
6.	Chloride as Cl	IS: 3025(Part 32):1988, RA:2019	42.0	mg/l
7.	Total Dissolved Solids	IS 3025 (P-16): 2023	384.0	mg/l
8.	Sulphate as SO ₄	IS: 3025 (P-24): Sec.1: 2022	12.70	mg/l
9.	Fluoride as F	APHA (23rd Edition), 4500FD:2017	0.25	mg/l
10.	Nitrate as NO ₃	IS: 3025 (P-34): 1988,(Chromotropic Method) Sec. 4 RA: 2022	7.23	mg/l
11.	Iron as Fe	APHA (23rd Edition),3113B: 2017	0.30	mg/l
12.	Chromium as Cr+6	APHA (23rd Edition),3500 CR-B	*BLQ(**L0Q-0.05)	mg/l
13.	Phenolic Compounds	APHA 23rd Edition, 2017, 5530 C	*BLQ(**LOQ-0.001)	mg/l
14.	Zinc as Zn	APHA (23rd Edition),3111 B: 2017	0.37	mg/l
15.	Copper as Cu	APHA (23rd Edition),3111 B: 2017	*BLQ(**L0Q-0.02)	mg/l
16.	Cadmium as Cd	APHA (23rd Edition),3111 B: 2017	*BLQ(**LOQ-0.002)	mg/l
17.	Lead as Pb	APHA (23rd Edition),3111 B: 2017	*BLQ(**LOQ-0.005)	mg/l
18.	Arsenic as As	APHA (23rd Edition),3114C,2017	*BLQ(**LOQ-0.005)	mg/l
19.	Mercury as Hg	APHA (23rd Edition)3112 B,2017	*BLQ(**LOQ-0.001)	mg/l
20.	Oil & Grease	IS:3025(P-39)	*BLQ(**LOQ-4.0)	
21.	BOD (3days at 27°C)	IS:3025(P-44):1993, RA:2019	7.49	mg/l
22.	COD	IS:3025(P-58):2006, RA:2017	58.0	mg/l
23.	DO	IS:3025(P-38):1989, RA:2019	5.6	mg/l
24.	TSS	IS:3025(P-17):2021	43.0	mg/l
Microbi	ological Parameters		10.0	mg/l
25.	Total Coliform	IS:15185: 2016	Present	Present/Absent per
26.	Faecal Coliform	IS:15185: 2016	Present	100 ml

***End of the report***



Corporate & Registered Office:

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

3 0141-2954638 bd@vibranttechnolab.com

www.vibranttechnolab.com

Conditions:

RK Yadav Lab Incharge Authorized Signator



# VIBRANT TECHNO LAB PVT. LTD.

ISO 9001, 14001 & 45001 Certified Company EPA Recognized Laboratory | NABET Accredited EIA Consultant Organisation

### TEST REPORT

Annexure-10

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/2507010006-10

Format No.:

7.8 F-04

Party Reference No.:

NIL

Report Date:

03/07/2025

Receipt Date:

01/07/2025

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

S. No.	Location	Date	Test Parameter	Test Result dB (A)		
0.00			restrarameter	Day Time	Night Time	
1	Near Kakra Office	26-27/06/2025	Leg	65.9	56.4	
2	Kamtana CAAQMS Station	26-27/06/2025	Leg	54.6	43.3	
3	Kakra Mine Pit	26-27/06/2025	Leq	57.4		
4	Near Kakra Mine Security Cabin	26-27/06/2025	Leq	53.8	48.7	
5	Kakra Village	26-27/06/2025	Leq	51.2	39.1	

Category of Zones		Leq in dB (A)
	Day	Night
Industrial	75	70
Commercial	65	55
Residential	55	
Silence Zone  1. Day Time is from 6.00 AM to 10.0	50	45

Night Time is reckoned between 10.00 PM to 6.00 AM.

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

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



**RK Yadav** Lab Incharge

Authorized Signatory

Corporate & Registered Office:

- Plot No. Q-39, Shringarpura, Narayan Vihar Q, Bhankrota, Jaipur 302026 (Raj.)
- 3 0141-2954638 bd@vibranttechnolab.com
- www.vibranttechnolab.com

Terms & Conditions:



ISO 9001, 14001 & 45001 Certified Company EPA Recognized Laboratory | NABET Accredited EIA Consultant Organisation

### TEST REPORT

Name & Address of Party:

Sample Description:

VTL/ N/01-13

M/s JK Cement Works, Panna

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

Limestone Mines Village-Harduwaken Tehsil-

Amanganj PIN-488441 Dist-Panna

Ambient Noise Level Monitoring

Report No .:

VTL/N/2507010011-23

Format No.:

7.8 F-04

Party Reference No.:

NIL

Report Date:

03/07/2025

Receipt Date:

01/07/2025

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/01-07

:Clear Sky

: Regulatory Requirement

: IS 9989-1981 RA: 2020

: As per Work Order

S. No.	Location	Date	Test Parameter	Test Re	esult dB (A)	
			rest rai ameter	Day Time	Night Time	
1	Hardua Village	27-28/06/2025	Leq	54.8	41.9	
2	Saptai Village	27-28/06/2025	Leq	49.1	39.4	
3	Puraina Village	27-28/06/2025	Leg	47.6	38.7	
4	Pagra Village	27-28/06/2025	Leq	50.8	42.6	
5	Kamtana Village	27-28/06/2025	Leq	44.7	38.8	
6	Udla Village	27-28/06/2025	Leq	50.6	41.6	
7	Sotipura Village	27-28/06/2025	Leq	51.9	42.7	
8	Hinauta Village	28-29/06/2025	Leq	53.2	40.2	
9	Purwa Village	28-29/06/2025	Leq	47.3	39.1	
10	Amanganj	28-29/06/2025	Leq	48.9		
11	Bhupat Pura Village	28-29/06/2025	Leq	46.4	40.4	
12	Mohadkh Village	28-29/06/2025	Leq	51.7	38.3 40.8	
13	Umeri Village	28-29/06/2025	Leq	53.5	39.5	
Catego	ry of Zones		Leq in dB (A	SOLVENING	37.3	
Industr	rial	Day	Day		The same of the sa	
Comme		75		Night 70	TO SERVICE SER	
Resider		65		55		
Silence		55		45		
1.		50	40			

Night Time is reckoned between 10.00 PM to 6.00 AM.

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

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

Corporate & Registered Office:

- O Plot No. Q-39, Shringarpura, Narayan Vihar Q, Bhankrota, Jaipur 302026 (Raj.)
- © 0141-2954638 © bd@vibranttechnolab.com
- www.vibranttechnolab.com



RK Yadav Lab Incharge **Authorized Signatory** 

Terms & Conditions:



### **TEST REPORT**

Issued from: PITHAMPUR INDUSTRIAL WASTE MANAGEMENT PVT.LTD. (LABORATORY)

Issued to: J.K. Cement Works, Panna (A Unit of JK Cement Ltd.)

Village- Harduwaken, Tehsil- Amanganj

Dist. Panna, PIN-488441

Madhya Pradesh

PIWMPL/LAB/2273 to

Report No: 2276/2025-26

Issued Date: 03/10/2025

Sampling Particulars: Ambient Noise Level Monitoring (Core Zone)

Date of Monitoring: 05/09/2025 & 12/09/2025 Date of Completion of Monitoring: 05/09/2025 & 12/09/2025

Other References:

Ref:1	Time of Measurement (Day Time): 12:25 Hours	Ref:2	Monitoring Carried out by: RESL Lab Team
Ref:3	Time of Measurement (Night Time): 22:20 Hours	Ref:4	Environmental Condition : Clear Sky

#### TEST LIMIT AS PER MADHYA PRADESH POLLUTION CONTROL BOARD (M.P.P.C.B)

Table 1:- Noise Monitoring During Day Time

SI. No	Monitoring Location	Unit	Maximum	Minimum	Result (Leq)	Limit	Method of Test
1	Kakra Village	dB(A)	52.2	52.2	52.2	NMT 55	IS 9989 :1981
2	Kamtana Village	dB(A)	52.1	50.2	51.2	NMT 55	IS 9989 :1981
3	Deora Viilage	dB(A)	53.3	45.5	49.4	NMT 55	IS 9989 :1981
4	Saptai Village	dB(A)	53.1	50.3	51.7	NMT 55	IS 9989 :1981

Table 2:- Noise Monitoring During Night Time

SI. No	Monitoring Location	Unit	Maximum	Minimum	Result (Leq)	Limit	Method of Test
1	Kakra Village	dB(A)	41.2	40.4	40.8	NMT 45	IS 9989 :1981
2	Kamtana Village	dB(A)	44.2	37.1	40.7	NMT 45	IS 9989 :1981
3	Deora Viilage	dB(A)	39.4	34.9	37.2	NMT 45	IS 9989 :1981
4	Santai Village	dB(A)	39.9	38.5	39.2	NMT 45	IS 9989 :1981

Note:-

- 1. The above results relate only to conditions prevailing at the time of sampling.
- 2. Day time Shall mean from : 6:00 AM to 10:00 PM
- 3. Night Time shall mean from: 10:00 PM to 6:00 AM
- 4. Statement of conformity to a specification or standard is given only on the request of customer.
- 5. The report cannot be reproduced in part or in full without the permission of Pithampur Industrial Waste Management Pvt. Ltd.

WASTE M

6. NMT - refers to "Not More Than"

********End of the test report******

Authorized Signatory S. Babyrani

PIWMPL/LAB/QRF/00

Pithampur Industrial Waste Management Private Limited [A Subsidiary of Re Sustainability Limited]

CIN No. U90000TG2010PTC071919

Registered Office:

Level 11B, Aurobindo Galaxy, Hyderabad Knowledge City, Hitech City Road, Hyderabad-500 081. India. Site Address:

Plot No 104, Industrai Area, Sector-II, Pithampur, District Dhar - 454 775, Madhya Pradesh, India. Certificate REG No : 23EQKR96 [ISO 9001 : 2015] Certificate REG No : 23EEKW93 (ISO 14001 : 2015) Certificate REG No : 23EOKE89 [ISO 45001 : 2018]

T: 7067678811,12,13

E: mbdmpwmp@resustainability.com

piwmpl.com



Sustainability

## **TEST REPORT**

Issued from: PITHAMPUR INDUSTRIAL WASTE MANAGEMENT PVT.LTD. (LABORATORY)

Issued to: J.K. Cement Works, Panna (A Unit of JK Cement Ltd.)

Village- Harduwaken, Tehsil- Amangani

Dist. Panna, PIN-488441

Madhya Pradesh

PIWMPL/LAB/2325 to

Report No: 2328/2025-26

Issued Date: 03/10/2025

Sampling Particulars: Ambient Noise Level Monitoring (Core Zone)

Date of Monitoring: 26/09/2025 Date of Completion of Monitoring: 26/09/2025

Other References:

Ref:1 Time of Measurement (Day Time): 12:15 Hours dated 26/09/2025 Ref:2 Monitoring Carried out by: RESL Lab Team Ref:3 Time of Measurement (Night Time): 22:05 Hours dated 26/09/2025 Ref:4 Environmental Condition: Clear Sky

#### TEST LIMIT AS PER MADHYA PRADESH POLLUTION CONTROL BOARD (M.P.P.C.B)

Table 1:- Noise Monitoring During Day Time

SI. No	Monitoring Location	Unit	Maximum	Minimum	Result (Leq)	Limit	Method of Test
1	Near Kakra Mine office	dB(A)	66.4	55.3	60.9	NMT 75	IS 9989 :1981
2	Near Secruity Office	dB(A)	65.9	59.2	62.6	NMT 75	IS 9989 :1981
3	Kakra Mine Lease Area (Near Kamtana CAAQMS)	dB(A)	69.3	49.3	59.3	NMT 75	IS 9989 :1981
4	Kakra Mine Pit back side	dB(A)	68.2	57.1	62.7	NMT 75	IS 9989 :1981

Noise Monitoring During Night Time

SI. No	Monitoring Location	Unit	Maximum	Minimum	Result (Leq)	Limit	Method of Test
1	Near Kakra Mine office	dB(A)	48.7	47.8	48.3	NMT 70	IS 9989 :1981
2	Near Secruity Office	dB(A)	55.4	49.1	52.3	NMT 70	IS 9989 :1981
3	Kakra Mine Lease Area (Near Kamtana CAAQMS)	dB(A)	51.2	42.4	46.8	NMT 70	IS 9989 :1981
4	Kakra Mine Pit back side	dB(A)	51.3	38.8	45.1	NMT 70	IS 9989 :1981

Note:-1. The above results relate only to conditions prevailing at the time of sampling.

- 2. Day time Shall mean from : 6:00 AM to 10:00 PM
- 3. Night Time shall mean from: 10:00 PM to 6:00 AM
- 4. Statement of conformity to a specification or standard is given only on the request of customer.
- 5. The report cannot be reproduced in part or in full without the permission of Pithampur Industrial Waste Management Pvt. Ltd.
- 6. NMT refers to "Not More Than"

*********End of the test report******

**Authorized Signatory** 

S. Babyrani

PIWMPL/LAB/QRF/

Certificate REG No : 23EQKR96 [ISO 9001 : 2015] Certificate REG No : 23EEKW93 [ISO 14001 : 2015] Certificate REG No : 23EOKE89 [ISO 45001 : 2018]

T: 7067678811,12,13

E: mbdmpwmp@resustainability.com

piwmpl.com

Pithampur Industrial Waste Management Private Limited [A Subsidiary of Re Sustainability Limited]

CIN No. U90000TG2010PTC071919

Registered Office:

Level 11B, Aurobindo Galaxy, Hyderabad Knowledge City, Hitech City Road, Hyderabad-500 081. India.

Site Address:

Plot No 104, Industrai Area, Sector-II, Pithampur, District Dhar - 454 775, Madhya Pradesh, India.



ISO 9001, 14001 & 45001 Certified Company
EPA Recognized Laboratory | NABET Accredited EIA Consultant Organisation

### **TEST REPORT**

Annexure-11

Sample Number:

Name & Address of the Party:

VTL/WZN/01-05

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: Scope of Monitoring

Protocol Used: Instrument Used **Work Zone Noise** 

**Regulatory Requirement** 

IS 9989: IS 9876

SLM

Report No.:

VTL/WZN/2507010021-25

Format No.:

7.8 F 04 NIL

Report Date:

03/07/2025

Receipt Date:

01/07/2025

Sampling Duration
Sample Collected by

Party Reference No.:

30 Min. VTL Team

Instrument Calibration

Calibrated

Status

General Information:-

**Instrument Code** 

Meteorological condition during monitoring

Date of Monitoring

Ambient Temperature (°C)

Surrounding Activity

Parameter Required

: VTL/SLM/08

: Clear sky

: 26/06/2025

: 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	81.2	dB(A)	90.0
2.	Exavatore Operator Cabin	IS:9989,IS 9876:1981	80.3	dB(A)	90.0
3.	Dumpar Operator Cabin	IS:9989,IS 9876:1981	78.3	dB(A)	90.0
4.	Crusher Operator Cabin	IS:9989,IS 9876:1981	81.6	dB(A)	90.0
5.	Weigh Bridge Operator Cabin	IS:9989,IS 9876:1981	76.7	dB(A)	90.0





RK Yadav Lab Incharge Authorized Signatory

Corporate & Registered Office:

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

3 0141-2954638 bd@vibranttechnolab.com

www.vibranttechnolab.com

Terms & Conditions:



Name & Address of Party:

# VIBRANT TECHNO LAB PVT. LTD.

ISO 9001, 14001 & 45001 Certified Company
EPA Recognized Laboratory | NABET Accredited EIA Consultant Organisation

### **TEST REPORT**

VTL/PD/01-05

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/PD/2507010004-08

Format No.:

7.8 F 02

Party Reference No.:

NIL

Report Date: Period of Analysis: 03/07/2025 01-03/07/2025

Receipt Date:

01/07/2025

Sample Description:

PERSONAL DUST EXPOSURE MONITORING

General Information:-

Sample collected by

Instrument Used

**Instrument Calibration Status** 

Meteorological condition during monitoring

Date of Monitoring

Surrounding Activity

Scope of Monitoring

Sampling & Analysis Protocol

**Parameter Required** 

: VTL Team

: Personal Sampler

Calibrated

: Clear Sky

: 26-27/06/2025

: Human & Drilling Activities

: Regulatory Requirement

: IS-5182

: Suspended Particulate Matter

#### TEST RESULTS

S. No.	Location	Protocol	Result	Unit	Limit
1.	Drill Operator Cabin	NIOSH 500, 2001	2.71	mg/m3	10
2.	Exavatore Operator Cabin	NIOSH 500, 2001	3.87	mg/m3	10
3.	Dumpar Operator Cabin	NIOSH 500, 2001	1.93	mg/m3	10
4.	Crusher Operator Cabin	NIOSH 500, 2001	2.02	mg/m3	10
5.	Weigh Bridge Operator Cabin	NIOSH 500, 2001	3.67	mg/m3	10

Checked By



RK Yadav Lab Incharge Authori<del>zed Signato</del>ry

Corporate & Registered Office:

- Plot No. Q-39, Shringarpura, Narayan Vihar Q, Bhankrota, Jaipur 302026 (Raj.)
- 3 0141-2954638 

  bd@vibranttechnolab.com
- www.vibranttechnolab.com

Terms & Conditions:

# Location

# **Photo**







Cement Plant & Mines Area









## **Awareness on Plastic Waste Campaign**

## Location Photo







# Amanganj Bus Stand







# **Awareness on Plastic Waste Campaign**

## Location Photo





# Puraina Village



