

Ref.No.: JKCEMENT/ENV./EC/KAKRA/2024-25/03/15

Date: 27.05.2024

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

Subject: Submission of Half yearly Environment Clearance Compliance Status Report for the period from October 2023 to March-2024 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

Dear Sir,

With reference to above stated Environment Clearance (EC) and MoEF & CC notification no. S.O.5845(E) 26.11.2018, we are submitting Half Yearly Environmental Clearance Compliance Status Report for the period from October 2023 to March-2024 of Kakra Panna Limestone Mine of M/s J K Cement Ltd, located at Villages Kakra, Kamtana, Saptai, Judi, Devri, Purohit, & Devra, Tehsil Amanganj, District Panna, Madhya Pradesh through email, this is for your kind information and record please.

Thank you,

Yours Sincerely

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



Kapil Agrawal
(Unit Head)

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

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



Corporate Office

Padam Tower, 19 DDA Community Centre
Okhla, Phase - 1, New Delhi - 110020, India
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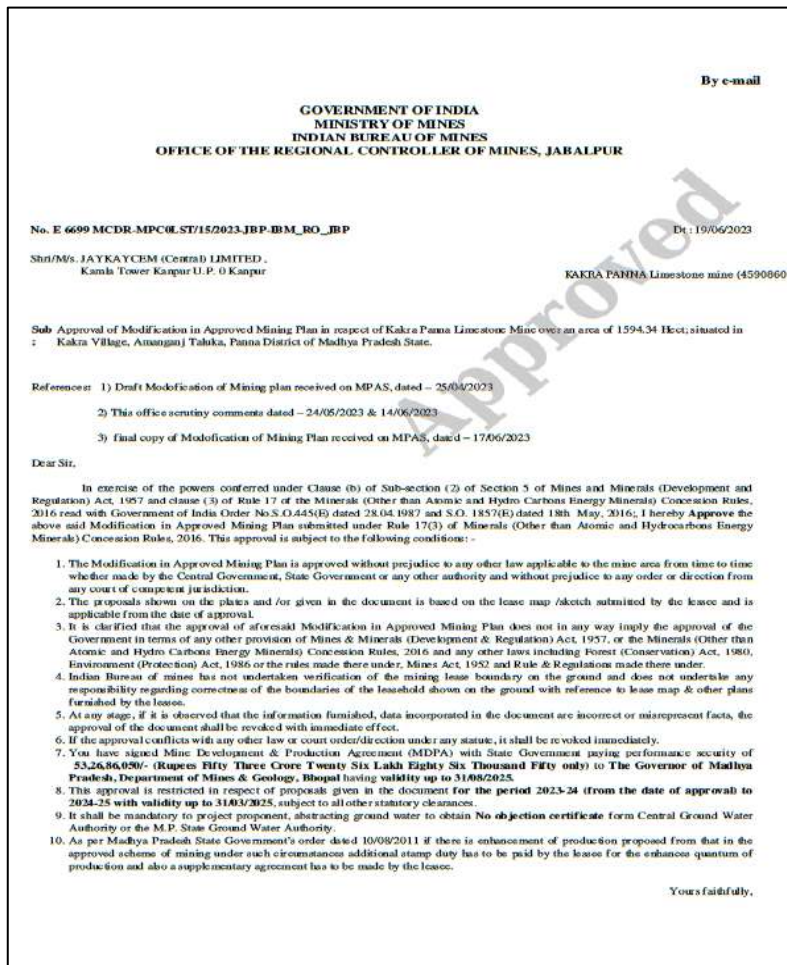
Half Yearly Environment Clearance Compliance Report of M/s J K Cement Limited issued for Kakra-Panna Limestone Mine, Panna for Period from October-2023 to March-2024

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

Specific 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 re-validation or amendment in environmental clearance for permission for the entire area proposed for mining within the ML area.	<p>Complied.</p> <p>This condition has been amended by MoEF&CC vide Amended EC no. F. No. J-11015/190/2016-IA. II (M) dated 18th October 2023, to carry out mining activity in the entire lease area as per the approved mining plan. Approved mining plan copy is given below.</p>
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Approved mining plan copy


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	<p>Agreed.</p> <p>An appropriate safety barrier from village/ Habitation, both side of Nallah, village roads have been left as non-mining</p>
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Half Yearly Environment Clearance Compliance Report of M/s J K Cement Limited issued for Kakra-Panna Limestone Mine, Panna for Period from October-2023 to March-2024

	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.	zone and thick green belt will be developed with native species.															
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.	Agreed. No mining will 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 will be constructed and thick green belt will be developed with native species.															
IV.	The PP shall adopt control basting with necessary permission from the Director General of Mines Safety within 300 m from the village / Habitation boundary and non-conventional mining with ripper dozer or other mechanical means by avoiding the blasting within 100 m from the village / Habitation boundary. Thick plantation with native and broad-leaved species shall be developed in the safety barrier left against the Habitations before commencement of mining operations in the area.	Complied. We have adopted control basting techniques with necessary permission from the Director General of Mines Safety to do blasting within 300 m from the village / Habitation boundary and non-conventional mining with ripper dozer or other mechanical means will be done to avoid blasting within 100 m from the village / Habitation boundary. Thick plantation with native and broad-leaved species shall be developed in the safety barrier left against the Habitations.															
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 maintained below the permissible values prescribed by the DGMS. <table border="1" data-bbox="803 1207 1518 1402"> <thead> <tr> <th colspan="5">Distance from Mine Pit (meter)</th> </tr> <tr> <th>Pit details</th> <th>Dewra Village</th> <th>Kakra Village</th> <th>Judi Village</th> <th>Kamtana Village</th> </tr> </thead> <tbody> <tr> <td>Pit 1</td> <td>750</td> <td>1380</td> <td>3000</td> <td>3600</td> </tr> </tbody> </table> A blasting vibration report attached as Annexure-1 .	Distance from Mine Pit (meter)					Pit details	Dewra Village	Kakra Village	Judi Village	Kamtana Village	Pit 1	750	1380	3000	3600
Distance from Mine Pit (meter)																	
Pit details	Dewra Village	Kakra Village	Judi Village	Kamtana Village													
Pit 1	750	1380	3000	3600													
VI.	No external dumping of overburden and/or sub-grade material shall be made outside the mining lease area.	Complied. No external dumping of overburden and/or sub-grade 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.	Compliance in progress. 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															

Half Yearly Environment Clearance Compliance Report of M/s J K Cement Limited issued for Kakra-Panna Limestone Mine, Panna for Period from October-2023 to March-2024

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. Copy is given below.



JK Cement Works, Panna
Formerly known as Jaykaycem (Central) Ltd now amalgamated
A Unit of JK Cement Ltd.
CIN: L17229UP1994PLC017199
Village - Handwaha, Tehsil - Amanganj
District - Panna, State - Madhya Pradesh, India - 488 441
☎ 0299141501 | ✉ jk.panna@jkcement.com
www.jkcement.com

पत्र क्र- दिनांक-21/08/2023

प्रति
उपसंचालक
पन्ना टाईगर रिजर्व पन्ना

विषय: To comply with wild life conservation plan approval letter form Jaykaycem (Central) Ltd. Integrated Cement plant Project, tehsil Amanganj District Panna (M.P.) implementation of wild life conservation plan and specific conditions of Environment clearance - regarding

संदर्भ: आपका कार्यालयीन पत्र क्रमांक/मा.वि/2023/2908/पन्ना, दिनांक-18/8/2023।

महोदय


विषयान्वर्तित संदर्भित पत्र द्वारा जेकेसेम (सेंट्रल) लिमिटेड को 289.90 लाख रु मध्यप्रदेश टाइगर फाउंडेशन सोसाईटी के भारतीय स्टेट बैंक मुख्य शाखा टी.टी. नगर भोपाल के बचत खाता क्रमांक 10571048460 आई.एफ.एस.सी SBIN0001308 में जमा करने हेतु निर्देशित किया गया था, उक्त तारख्य में जेके सीमेंट लिमिटेड द्वारा 289.90 लाख रु का भुगतान ई बैंक के माध्यम से मध्यप्रदेश टाइगर फाउंडेशन सोसाईटी के खाते में कर दिया गया है जिसका विवरण निम्नानुसार है-

E Cheque No	CTY3061751
Dated	19/08/2023
Amount	289.90 Lakh
Name	MP Tiger Foundation
A/c No	10571048460

अतः अग्रिम कार्यवाही हेतु महोदय की ओर प्रेषित।

वास्ते जेकेसेम (सेंट्रल) लिमिटेड

Ka-At
कृषि असावाल
युनिट हेड
जेके सीमेंट लिमिटेड



Corporate Office
Pillar Tower, 2nd Floor, Niharika Estate,
Goyal Palleri, Gurgaon - 122102, Haryana
☎ +91-24-6919000
✉ admin.panna@jkcement.com
www.jkcement.com

Registered Office: Khamta Tower, Kanpur-208001, U.P., India. ☎ +91-512-2371478 to 82 ☎ +91-512-239584 ✉ www.jkcement.com

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JK Cement Works, Panna
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☎ 0299141501 | ✉ jk.panna@jkcement.com
www.jkcement.com

Ref. No.: JKCEMENT/PCP/EMD/2024-25/F 04/11
Dated: 18.04.2024

To:
The Field Director,
Panna Tiger Reserve,
Panna- 488001 (MP)

Subject: To comply with Wild Life Conservation Plan Approval Letter for JK Cement Limited Integrated Cement Plant Project, Tehsil-Amanganj, District-Panna (M.P.), implementation of Wild Life Conservation Plan and specific condition of Environment Clearance- regarding

Ref.: 1. Life Conservation Plan Approval Letter no. V.Pra/Ma.Chi./8847 dated 13.12.2019
2. Environment Clearance vide no J-11015/190/2016-IA, II (M) dated 31.08.2020.

Dear Sir,

In continuation of our letter no. JKCEMENT/PCP/EMD/2023-24/F 04/10 dated 06.03.2024 and with reference to above subject matter, we would like to again inform you that 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 enclosed as Annexure no. 1).

Further, we would like to inform you that it is mentioned in specific condition no. VII of environment clearance letter no. J-11015/190/2016-IA, II (M) dated 31.08.2020 that "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".

Ministry of Environment, Forest and Climate Change (MoEF&CC) is continuously asking us the implementation status of WLCP. Therefore, for complying the above EC condition and implementation of approved Wild Life Conservation Plan, please guide us for further action so that we may do all needful and wild life conservation plan could be implemented or if WLCP is already implementing by you then we humbly request to please share the status to submit the MoEF&CC, please.

Thanking you,

Yours Faithfully
For: JK Cement Limited
Kapil Agrawal
Kapil Agrawal
(Unit Head)



CC to: 1- PCCF (Wildlife) and Chief Wildlife Warden, Shopal, M.P.
2- Chief Conservator of Forest, Chhatrapur-471001

Corporate Office
Pillar Tower, 2nd Floor, Niharika Estate,
Goyal Palleri, Gurgaon - 122102, Haryana
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Kabra, Panna (M.P.) | Aligarh, Meerutpur (U.P.) | Basantpur (Gujarat) | Fajalpur

Acknowledgement copy of amount deposition in WLCP

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

Complied.
Total excavation has not exceeded the given quantity:
Total excavation details for FY: 2023-24 is given below:

Sr. No	Production	Permission (MTPA)	FY:2023-24 (MTPA)
1	Limestone	4.08	0.83
2	Sub-grade Limestone	0.58	0.00
3	Inter burden	1.51	0.00
4	Soil/ Alluvium	1.26	0.27
5	Mine waste	0.18	0.05

Half Yearly Environment Clearance Compliance Report of M/s J K Cement Limited issued for Kakra-Panna Limestone Mine, Panna for Period from October-2023 to March-2024

IX.	<p>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</p>	<p>Compliance in progress. Plantation is being done as per the EC conditions and the 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 4522 no. of sapling have been planted in 1.91 Ha of area during FY:2023-24. Photos attached.</p>
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Plantation photo

X.	<p>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</p>	<p>Compliance in Progress. The commitments made on the issues raised in PH and activities proposed under CER is being executed. Present status is given below.</p>
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Corporate Environment Responsibility (CER) Expenditure Report of Kakra-Panna Limestone Mine:

S.No	Activities	Expenditure till Oct., 2023 (in Lakhs)	Expenditure from November 23 to March, 2024 (in Lakhs)
1	Health (Health, Check-up, Camp, Sports etc.)	211.73	7.75
2	Education (Books, Bags, Stationary etc.)	54.80	154.31
3	Sanitation (Domestic water, Toilets etc.)	40.99	2.55
4	Skill Development (Training centre etc.)	8.21	4.80
5	Infrastructure (Road, Community Centre etc.)	132.0	22.65
6	Other Local Social Need	45.33	5.74
7	Greenery Development Nearby Area	251.66	0
Total		744.72	197.8

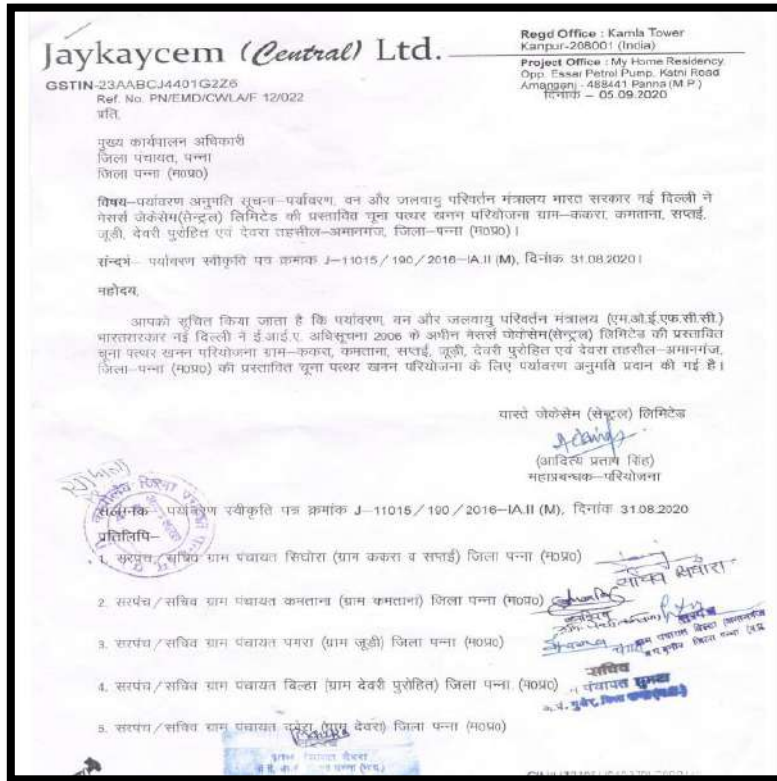
XI.	<p>All the mitigation measures committed / envisaged in the EIA/EMP report and subsequent submission shall be implemented.</p>	<p>Agreed and being complied.</p>
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Half Yearly Environment Clearance Compliance Report of M/s J K Cement Limited issued for Kakra-Panna Limestone Mine, Panna for Period from October-2023 to March-2024

XII.	In pursuant to Ministry's O.M No 22-34/2018-IA.III dated 16.01.2020 to 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. The mining lease after ceasing mining operations will be re-grassed and any other area which may have been disturbed due to other mining activities and will be restore the land to a condition which is fit for growth of fodder, flora, fauna etc.
B. Standard EC Conditions:		
I. Statutory compliance		
1)	The EC granted to the project/ activity is strictly under the provisions of the EIA Notification, 2006 and its amendments issued from time to time. It does not tantamount/ construe to approvals/ consent/ permissions etc. required to be obtained or standards / conditions to be followed under any other Acts/ Rules/ Subordinate legislations, etc., as may be applicable to the project.	Complied. EC amendments are obtained under the provisions of the EIA Notification, 2006 and its amendments issued from time to time.
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.	Noted & will be complied.
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.	Complied. The subject proposal is green field project. The mining activity will be 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".	Being 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 29 th 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".

Half Yearly Environment Clearance Compliance Report of M/s J K Cement Limited issued for Kakra-Panna Limestone Mine, Panna for Period from October-2023 to March-2024

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 is enclosed in given below.
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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.
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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
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Half Yearly Environment Clearance Compliance Report of M/s J K Cement Limited issued for Kakra-Panna Limestone Mine, Panna for Period from October-2023 to March-2024

उत्तरप्रदेश जागरण

जनसूचना

सर्वसाधारण को सूचित किया जाता है कि जे.के. सेम (सेन्दूल) लिमिटेड को लाइमस्टोन माइन्स जो कि ग्राम ककरा, कमताना, सपाई, जुड़ी, देवरीपुरोहित एवं देवरा, तहसील अमानगंज, जिला पन्ना में अवस्थित है, को 1594.34 हेक्टेयर क्षेत्रफल (विभिन्न खसरा नं.) के लिए पर्यावरणीय स्वीकृति, पर्यावरण एवं वन, जलवायु परिवर्तन मंत्रालय, भारत सरकार के पत्रांक F.No. J-11015/190/2016-IA(M) के द्वारा दिनांक 31.08.2020 को मिल गयी है। पर्यावरणीय स्वीकृति की कॉपी राजकीय प्रदूषण बोर्ड के कार्यालय में भी उपलब्ध है तथा इसे www.parivesh.nic.in पर भी देखा जा सकता है।

प्रोजेक्ट अधाटी
जे.के. सेम (सेन्दूल) लिमिटेड
अमानगंज, पन्ना (म.प्र.)

राज एक्सप्रेस पन्ना एक्सप्रेस 12

:- जन सूचना:-

सर्व साधारण को सूचित किया जाता है कि जे.के.सेम(सेन्दूल) लिमिटेड को लाइमस्टोन माइन्स जो कि ग्राम ककरा, कमताना, सपाई, जुड़ी, देवरी पुरोहित एवं देवरा तहसील अमानगंज जिला पन्ना में अवस्थित है, को 1594.34 हेक्टेयर क्षेत्रफल (विभिन्न खसरा नं.) के लिए पर्यावरणीय स्वीकृति, पर्यावरणीय एवं वन, जलवायु परिवर्तन मंत्रालय, भारत सरकार के पत्रांक F-NO.J.11015/190/2016-IA(M) के द्वारा दिनांक 31.08.2020 को मिल गई है। पर्यावरणीय स्वीकृति की कॉपी राजकीय प्रदूषण बोर्ड के कार्यालय में भी उपलब्ध है तथा इसे www.parivesh.nic.in पर भी देखा जा सकता है।

प्रोजेक्ट अधाटी
जे.के.सेम(सेन्दूल) लिमिटेड अमानगंज जिला पन्ना (म.प्र.)

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. Copy enclosed in given below.

File No.: J-11015/190/2016-IA.II(M)
Government of India
Ministry of Environment, Forest and Climate Change
IA Division

Date: 23/01/2024

To,
M/s J K Cement Limited
Kansha Tower, Kanpur-208001 (U.P.) India, Kanpur, KANPUR NAGAR, UTTAR PRADESH, 208001
ankjain@jkcement.com

Subject: Kakra-Panna Limestone mine at Tehsil Aranganj, District Panna (Madhya Pradesh) - Transfer of environmental clearance from M/s Jaykayess (Central) Limited to M/s J K Cement Limited- reg.

Sir/Madam,

This is in reference to your application submitted to MoEF&CC vide proposal number IA/MB/ME/N/44911/2023 dated 21/10/2023 for transfer of EC from M/s Jaykayess (Central) Limited to M/s J K Cement Limited in the project under the provision of para 11 of the EIA Notification 2006 and as amended thereof.

2. The particulars of the proposal are as below:

(i) EC Identification No.	EC23A0001MPS2115241
(ii) File No.	J-11015/190/2016-IA.II(M)
(iii) Clearance Type	Transfer of EC
(iv) Category	A
(v) Schedule No./ Project Activity	1(a) Mining of minerals
(vi) Sector	Non-Coal Mining
(vii) Name of Project	Transfer of EC vide letter no. J4 1015/1902016-IA.II (M) dtd 31.08.2020 and corrigendum dtd 08.03.2021 from M/s. Jaykayess Central Limited to M/s J K Cement Limited issued for Kakra Panna Limestone Mine for production of 4.08 MTPA Limestone, 1.51 MTPA IB, Soft Alluvium 1.26 MTPA, Mine Waste 0.18 MTPA and 0.38 MTPA sub grade mineral (Total excavation 7.61 MTPA) in the ML area 1594.34 Ha at Villages Kakra, Kamana, Saptai, Juki, Devri Purohit &

Name changes in EC copy

II. Air quality monitoring and preservation

9) 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

Complied.
We have installed 03 Nos. Continuous Ambient Air Quality Monitoring Station (CAAQMS) close to boundary of the mine lease.

Half Yearly Environment Clearance Compliance Report of M/s J K Cement Limited issued for Kakra-Panna Limestone Mine, Panna for Period from October-2023 to March-2024

	<p>based on long term climatological data about wind direction such that an angle of 120° is made between the monitoring locations to monitor critical parameters, relevant for mining operations, of air pollution viz. PM10, PM2.5, NO2, CO and SO2 etc. as per the methodology mentioned in NAAQS Notification No. B-29016/20/90/PCI/I dated 18.11.2009 covering the aspects of transportation and use of heavy machinery in the impact zone.</p> <p>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.</p>	<p>The ambient air quality in core zone and buffer zone are also being monitored by NABL approved lab. Monitoring reports are attached as Annexure 2.</p>
10)	<p>Effective safeguard measures for prevention of dust generation and subsequent suppression (like regular water sprinkling, metaled road construction etc.) shall be carried out in areas prone to air pollution wherein high levels of PM10 and PM2.5 are evident such as haul road, loading and unloading point and transfer points. The Fugitive dust emissions from all sources shall be regularly controlled by installation of required equipments/ machineries and preventive maintenance. Use of suitable water-soluble chemical dust suppressing agents 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</p>	<p>Complied. Water sprinkling is being carried out for controlling the fugitive dust emission (Photo given below) and bag filter has been installed at material transfer point in crusher. Fugitive Emission reports are attached as Annexure-3.</p> <div data-bbox="776 1039 1544 1409" data-label="Image"> </div> <p align="center"><u>Water sprinkling photo</u></p>
<p><u>III. Water quality monitoring and preservation</u></p>		
11	<p>In case, immediate mining scheme envisages intersection of ground water table, then Environmental Clearance shall become operational only after receiving formal clearance from CGWA. In case, mining operation involves intersection of ground water table at a later stage, then PP shall ensure that prior approval from CGWA and MoEFCC is in place before such mining operations. The permission for intersection of ground water table shall essentially be based on detailed hydro-geological study of the area</p>	<p>Complied. The NOC form CGWA had already been obtained vide no. CGWA/NOC/ MIN/ORIG/2020/7359 dated 05.02.2020, valid up to 02.02.2024 for use of ground water as well as for intersection of water table during the course of mining operation. Further we have applied for its renewal via application no. 21-4/864/MP/MIN/2019 dated 24.01.2024 application copy is enclosed as given below.</p>

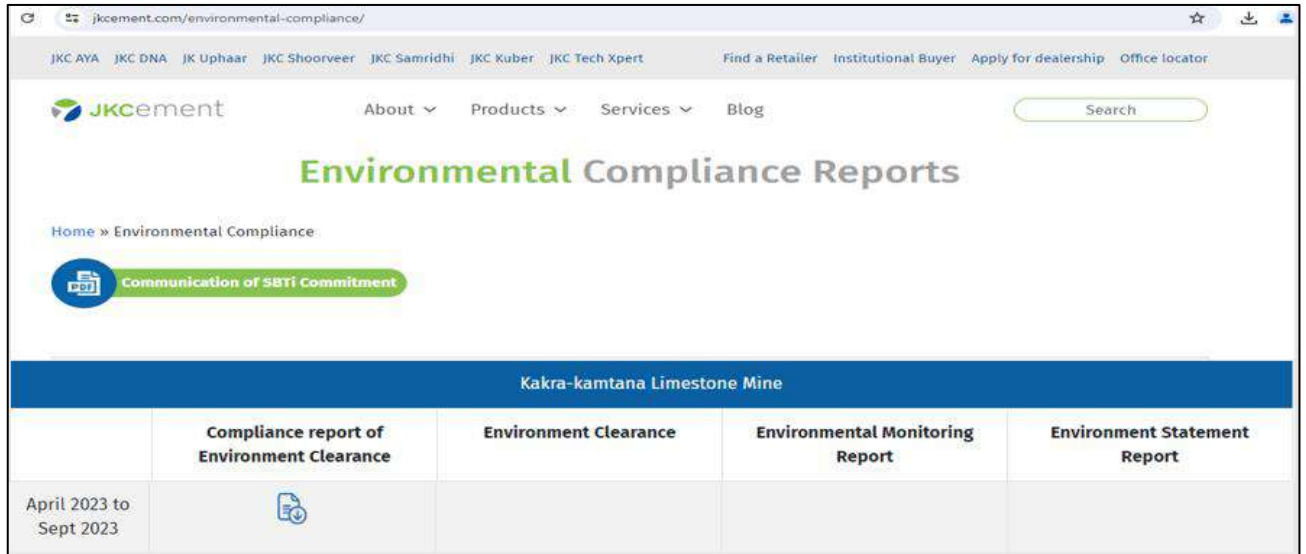
Half Yearly Environment Clearance Compliance Report of M/s J K Cement Limited issued for Kakra-Panna Limestone Mine, Panna for Period from October-2023 to March-2024

		<div style="text-align: center;"> <p>Government of India Ministry of Jal Shakti Department of Water Resources, River Development and Ganga Rejuvenation Central Ground Water Authority (CGWA) Application for Issue of NOC to Abstract Ground Water (NOCAP) Application for Renewal of NOC to De-water Ground Water for Mining Industry (Application for Renewal of NOC)</p> <p>Application Number : 21-4/864/MP/MIN/2019</p> <p>Applied For Renewal : 1st</p> </div> <table border="1"> <tr> <td colspan="2">1. General Information:</td> </tr> <tr> <td>Water Quality:</td> <td>Fresh Water</td> </tr> <tr> <td>Purpose of Renewal Application:</td> <td>Existing Ground Water</td> </tr> <tr> <td>Application Type Category/ Type of Application</td> <td>Limestone</td> </tr> <tr> <td>2. Name of Mine/Project:</td> <td>KAKRA-PANNA LIMESTONE MINE</td> </tr> <tr> <td colspan="2">3. Location Details of the Mining Unit- (Attach Site, Approved Mining Plan, Toposketch of Surrounding 10km Radius Outside) (S) :</td> </tr> <tr> <td>Address Line 1 :</td> <td>J K CEMENT LIMITED</td> </tr> <tr> <td>Address Line 2 :</td> <td>VILLAGE KAKRA, KAMTANA, SAPTAJ, JUDI, DEVRI PUROHIT, DEVRA,</td> </tr> <tr> <td>Address Line 3 :</td> <td></td> </tr> <tr> <td>State:</td> <td>MADHYA PRADESH</td> </tr> <tr> <td>District:</td> <td>PANNA</td> </tr> <tr> <td>Sub-District:</td> <td>GUJOUR</td> </tr> <tr> <td>Village/Town:</td> <td>Kakra</td> </tr> <tr> <td>Latitude:</td> <td>24.333000</td> </tr> <tr> <td>Longitude:</td> <td>79.880400</td> </tr> <tr> <td>Area Type :</td> <td>Non-Notified</td> </tr> <tr> <td>Area Type Category :</td> <td>Safe</td> </tr> <tr> <td>Whether Industry is MSME:</td> <td>No</td> </tr> <tr> <td colspan="2">4. Communication Address</td> </tr> <tr> <td>Address Line 1:</td> <td>JAYKAYGEM (CENTRAL) LIMITED</td> </tr> <tr> <td>Address Line 2:</td> <td>MY HOME RESIDENCY</td> </tr> <tr> <td>Address Line 3:</td> <td>OPPOSITE ESSAR PETROL PUMP, KATNI ROAD, AMANGANJ</td> </tr> <tr> <td>State:</td> <td>MADHYA PRADESH</td> </tr> <tr> <td>District:</td> <td>PANNA</td> </tr> <tr> <td>Sub-District:</td> <td></td> </tr> <tr> <td>Pincode:</td> <td>488441</td> </tr> <tr> <td>Phone Number with Area Code:</td> <td></td> </tr> <tr> <td>Mobile Number:</td> <td>91 9886502172</td> </tr> <tr> <td colspan="2">5. Details of Existing NOC issued by CGWA (enclose copy)</td> </tr> <tr> <td>Register No:</td> <td>24/01/2024</td> </tr> <tr> <td>Date of issuance:</td> <td>03/02/2022</td> </tr> <tr> <td>Validity (Start):</td> <td>02/02/2024</td> </tr> <tr> <td>Validity (End):</td> <td></td> </tr> </table> <p align="right">26/03/2024 01:17:PM Page 1 of 8</p> <p align="center">Renewal NOC Application copy</p>	1. General Information:		Water Quality:	Fresh Water	Purpose of Renewal Application:	Existing Ground Water	Application Type Category/ Type of Application	Limestone	2. Name of Mine/Project:	KAKRA-PANNA LIMESTONE MINE	3. Location Details of the Mining Unit- (Attach Site, Approved Mining Plan, Toposketch of Surrounding 10km Radius Outside) (S) :		Address Line 1 :	J K CEMENT LIMITED	Address Line 2 :	VILLAGE KAKRA, KAMTANA, SAPTAJ, JUDI, DEVRI PUROHIT, DEVRA,	Address Line 3 :		State:	MADHYA PRADESH	District:	PANNA	Sub-District:	GUJOUR	Village/Town:	Kakra	Latitude:	24.333000	Longitude:	79.880400	Area Type :	Non-Notified	Area Type Category :	Safe	Whether Industry is MSME:	No	4. Communication Address		Address Line 1:	JAYKAYGEM (CENTRAL) LIMITED	Address Line 2:	MY HOME RESIDENCY	Address Line 3:	OPPOSITE ESSAR PETROL PUMP, KATNI ROAD, AMANGANJ	State:	MADHYA PRADESH	District:	PANNA	Sub-District:		Pincode:	488441	Phone Number with Area Code:		Mobile Number:	91 9886502172	5. Details of Existing NOC issued by CGWA (enclose copy)		Register No:	24/01/2024	Date of issuance:	03/02/2022	Validity (Start):	02/02/2024	Validity (End):	
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12)	<p>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.</p>	<p>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 have been submitted in, CGWA and State Groundwater Department / State Pollution Control Board by e-mail dated 27.02.2024 (Ground water level) & 04.03.2024 (Surface water & quality test report) . However, Ground water level and Quality reports are enclosed as Annexure-4 and Annexure 4A.</p>																																																																		

Half Yearly Environment Clearance Compliance Report of M/s J K Cement Limited issued for Kakra-Panna Limestone Mine, Panna for Period from October-2023 to March-2024

13)	<p>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 six-monthly basis.</p>	<p>Complied.</p> <p>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 being 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-5</p>
14)	<p>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).</p> <p>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.</p>	<p>Complied.</p> <p>Monitoring of mines run-off is being carried out on regular basis. Report is enclosed as Annexure-5A</p> <p>The monitored data has been uploaded on the website of the company under six monthly EC compliance report as well as displayed at main gate in public domain. The circular No. "J-20012/1/2006-IA.II(M) dated 27.05.2009 issued by the Ministry of Environment, Forest and Climate Change will be referred in this regard after commencement of mining operations.</p>




Half Yearly Environment Clearance Compliance Report of M/s J K Cement Limited issued for Kakra-Panna Limestone Mine, Panna for Period from October-2023 to March-2024



Compliance report uploaded in Company website

15)	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.	<p>Complied. The rainwater harvesting structure will be developed as per the approved hydrogeological study report and consultation with Central Ground Water Board.</p>
16)	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.	<p>Agreed. Construction of workshop and Oil and grease trapping system are under progress. We assure that we will maintain the standards as prescribed in Consent to Operate (CTO) issued by the concerned State Pollution Control Board (SPCB). Valid CTO copy is enclosed below.</p>

Half Yearly Environment Clearance Compliance Report of M/s J K Cement Limited issued for Kakra-Panna Limestone Mine, Panna for Period from October-2023 to March-2024

	Consent Order	M.P. Pollution Control Board E-5, Arera Colony Faryavaran Farisar, Bhopal - 16 MP Tele : 0755-2466191, Fax-0755-2463742														
RED-LARGE	CCA-Fresh Valid up to 31.01.2026 & Renewal Valid up to 31.01.2026	CONSENT NO: ***														
		PCB ID: 134435														
Outward No:17561.03/03/2023		Consent No:AW11-5726														
<p>To, The Occupier, M/s. Jyokayem (Central) Limited - Panna, Latitude : 24.3294 Longitude : 79.9677 Area-1594.34 hectares, Various khasra at Village - Kakra, Kamtana, Saptai, Judi, Dev, Village - Kakra, Kamtana, Saptai, Judi, Devpurahit, Devra,, Tehsil: Amanganj Distt-Panna (MP)</p> <p>Subject: Grant of Consent to Operate under section 25 of the Water (Prevention & Control of Pollution) Act,1974 under section 21 of the Air (Prevention & Control of Pollution) Act,1981 and Authorization under Hazardous and other Waste (Management & Transboundary movement) Rules, 2016 .</p> <p>Ref: Consent to Operate Application R. No. 1258798 DL 05/02/2023 and last communication received on DL13/02/2023</p> <p>With reference to your above application for consent to operate has been considered under the aforesaid Acts and existing rules therein. The M. P. Pollution Control Board has agreed to grant consent up to 31/01/2026 & authorisation up to 31/01/2028, subject to the fulfillment of the terms & conditions, enclosed with this letter and-</p> <p><u>SUBJECT TO THE FOLLOWING CONDITIONS :-</u></p> <p>a. Location: Village-Kakra,Kamtana, Saptai, Judi, Devpurahit,& Devra, Tehsil - Amanganj Distt-Panna (MP)</p> <p>b. Mining Lease area: 1594.34 ha</p> <p>c. Product & Production Capacity:</p> <table border="1"> <thead> <tr> <th>Activity / Product</th> <th>Qty / year</th> </tr> </thead> <tbody> <tr> <td>Mining of Lime Stone</td> <td>4.08 Million Ton Per year.</td> </tr> <tr> <td>Mine Waste</td> <td>0.18 Million Ton Per year.</td> </tr> <tr> <td>Mining of Sub-grade Lime stone</td> <td>0.58 Million Ton Per year.</td> </tr> <tr> <td>Mining of Inter burden</td> <td>1.51 Million Ton Per year.</td> </tr> <tr> <td>Mining of Soil / Alluvium</td> <td>1.26 Million Ton Per year.</td> </tr> <tr> <td>Lime Stone Crusher</td> <td>1800 TPH</td> </tr> </tbody> </table> <p>(1) For any change in above industry shall obtain fresh consent from the Board. (2) As per EC, Mine management has acquired 238 haec land out of 2594.34 haec, further acquisition of land shall be informed accordingly. No mining shall be carried up to 250 meter distance from the bank of Kea River and embankment of not less than 3 m height above the HFL, shall be constructed along river bank. (3) PP shall ensure that mining is done in sanctioned lease area as per valid mining plan approved by Regional Controller of Mines IBM, Jabalpur for 5 year period from the lease acquisition date of 29.09.2020 to 28.2.09.2025; vide letter No. MP/NG-16/24-11 dated 03.09.2015 & in compliance of the conditions laid in EC granted by MOEF&CC, GOI, N. Delhi vide L.No. J-1105/19/02/16-1A.H(N) dated 09.03.2021. (4) PP shall ensure that solid waste generated during mining process shall be stacked at earmarked site which shall be properly surrounded by garrand drains & setting pit of adequate size so that no Solid waste rock is discharged outside the mine lease area nearby water body blocking the natural flow of any natural river/pond. Top Soil / OB dump shall be biologically reclaimed. (5) Evacuation of mineral shall not be through any village or forest area. PP shall provide pucca (Concrete/Asphalted) approach road from main road to the mine site & ensure thick plantation on both side of this road to prevent dust/noise pollution. (6) The dust generated during transportation of mineral & deposited on Approach/Haul roads shall be regularly removed by the road-sweeping machines & suppressed by intermittent sprinkling of water on roads using pressurized water tanks of adequate capacity. PP shall practice regular compaction of loose material of haulage road & regular water sprinkling shall be done for control of generated fugitive emissions.</p> <p>The Validity of the consent is up to 31/01/2026 and has to be renewed before expiry of consent validity. Online application through XGN with annual license fees in this regard shall be submitted to this office 6 months before expiry of the consent/Authorization. Board reserves the right to amend/cancel / revoke the above condition in part or whole as and when required.</p> <p>Enclosures:- * Conditions under Water Act * Conditions under Air Act * Conditions under Hazardous Rules * General conditions</p> <p>CC to :- 1. District Mining Officer, (Mining Section), Collector office, Panna Dist. Panna M.P. for information. 2. M. P. State Mining Corporation, Arera Hills, Jail Road, Bhopal (M.P.) for necessary action. 3. Regional officer, Regional office, MPPCB, Sagar (M.P.)</p> <p align="right">  CHANDRA MOHAN THAKUR Member Secretary </p> <p align="center">  (Organic Authentication on AADHAR from UIDAI Server) TPAV # WU2T57TC7 </p> <p align="right"> <small>This Certificate generated from sign up site, more valid and does not require physical signature, the certificate can be validated online from sign up site, in using "TPA" Number. Page:</small> </p>			Activity / Product	Qty / year	Mining of Lime Stone	4.08 Million Ton Per year.	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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 for period from Apr-2023 to Mar-2024 is given below.
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Sr.No	Water Code	Permission of Water Consumption (KL/Day)	Permission of Waste water generation (KL/Day)	During April-2023 to Mar-2024		
				Water Consumption (KL/Day)	Waste water generation (KL/Day)	Reuse/recycle
1	Domestic water	20	9.0	1.1	0.0	Nil
2	Dust Suppression	70	0.0	31.7	N/A	N

Half Yearly Environment Clearance Compliance Report of M/s J K Cement Limited issued for Kakra-Panna Limestone Mine, Panna for Period from October-2023 to March-2024

3	Manufacturing Process	100	0.0	5	N/A	N/A
4	Plantation/ Horticulture	40	0.0	20	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	<p>Complied Peak Particle velocity is being monitored as per the DGMS guidelines. Report is enclosed as Annexure-1.</p> <table border="1" data-bbox="803 531 1518 726"> <thead> <tr> <th colspan="5">Distance from Mine Pit (meter)</th> </tr> <tr> <th>Pit details</th> <th>Dewra Village</th> <th>Kakra Village</th> <th>Judi Village</th> <th>Kamtana Village</th> </tr> </thead> <tbody> <tr> <td>Pit 1</td> <td>750</td> <td>1380</td> <td>3000</td> <td>3600</td> </tr> </tbody> </table>	Distance from Mine Pit (meter)					Pit details	Dewra Village	Kakra Village	Judi Village	Kamtana Village	Pit 1	750	1380	3000	3600
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Pit details	Dewra Village	Kakra Village	Judi Village	Kamtana Village													
Pit 1	750	1380	3000	3600													
19)	The illumination and sound at night at project sites disturb the villages in respect of both human and animal population. Consequent sleeping disorders and stress may affect the health in the villages located close to mining operations. Habitations have a right for darkness and minimal noise levels at night. PPs must ensure that the biological clock of the villages is not disturbed; by orienting the floodlights/ masks away from the villagers and keeping the noise levels well within the prescribed limits for day /night hours	<p>Being Complied. The illumination and Noise levels are being monitored and maintained within the prescribed limits. Reports is enclosed as Annexure-6.</p>															
20)	The Project Proponent shall take measures for control of noise levels below 85 dBA in the work environment. The workers engaged in operations of HEMM, etc. should be provided with ear plugs /muffs. All personnel including laborers working in dusty areas shall be provided with protective respiratory devices along with adequate training, awareness and information on safety and health aspects. The PP shall be held responsible in case it has been found that workers/ personals/ laborers are working without personal protective equipment.	<p>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.</p>															

Half Yearly Environment Clearance Compliance Report of M/s J K Cement Limited issued for Kakra-Panna Limestone Mine, Panna for Period from October-2023 to March-2024

Training on Transportation at Mines, Imparting Training to our Operators & together we are one Team



V) Mining Plan

21)	<p>The Project Proponent shall adhere to approved mining plan, inter alia, including, total excavation (quantum of mineral, waste, over burden, inter burden and top soil etc.); mining technology; lease area; scope of working (method of mining, overburden & dump management, O.B. & dump mining, mineral transportation mode, ultimate depth of mining, concurrent reclamation and reclamation at mine closure; land-use of the mine lease area at various stages of mining scheme as well as at the end-of-life; etc.).</p>	<p>Complied. Mining activities are being carried out as per the approved mining plan. Approved mining plan copy is enclosed above.</p>
22)	<p>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.</p>	<p>Complied. Mining activities and land use planning being done as per the approved mining plan. 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.</p>

VI. Land reclamation

Half Yearly Environment Clearance Compliance Report of M/s J K Cement Limited issued for Kakra-Panna Limestone Mine, Panna for Period from October-2023 to March-2024

23)	<p>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.</p>	<p>Complied. OB and topsoil generated during the mining operations is being stacked at earmarked OB dump site only. Physical parameters of the OB/waste dumps /topsoil dump height, width and angle of the slope is being maintained as per the approved mining plan and also as per the guidelines/circulars issues by the DGMS. The top soil is being used for plantation and stored in the designated areas.</p>
-----	---	---



Top Soil



OB dump

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

25)	<p>Catch drains, settling tanks and siltation ponds of appropriate size shall be constructed around the mine working, mineral yards and Top Soil/OB/Waste dumps to prevent run off of water and flow of sediments directly into the water bodies (Nallah/ River/ Pond etc.). The collected water should be utilized for watering the mine area, roads, green belt development, plantation etc. The drains/ sedimentation sumps etc. shall be de-</p>	<p>Agreed and will be 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</p>
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Half Yearly Environment Clearance Compliance Report of M/s J K Cement Limited issued for Kakra-Panna Limestone Mine, Panna for Period from October-2023 to March-2024

silted regularly, particularly after monsoon season, and maintained properly	maintained properly. Garland drain & sedimentation pit photo enclosed as below.
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Garland drains



Siltation pond photo

<p>26) 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</p>	<p>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.</p>
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Half Yearly Environment Clearance Compliance Report of M/s J K Cement Limited issued for Kakra-Panna Limestone Mine, Panna for Period from October-2023 to March-2024

constructed at the corners of the garland drains.

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. The pollution due to 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. [If 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. A PUC sample copy as enclosed in given below.

Form 59
[See rules 115 (2)]

Pollution Under Control Certificate
 Authorised By : Government of Ghatnagaram

Date : 11/05/2024
 Time : 13:21:59 PM
 Validity upto : 10/05/2025

Certificate St. No. : CG00700840001080
 Registration No. : MP35HA0511
 Date of Registration : 20/01/2022
 Month & Year of Manufacturing : April-2022
 Valid Motor Number : 1111111111
 Emission Norms : BHARAT STAGE VI
 Fuel : DIESEL
 PUC Code : CG0070084
 GSTIN :
 Fees : Rs.150.00
 MIL observation : No

Vehicle Photo with Registration plate
 60 mm x 30 mm

Sr. No.	Pollutant (as applicable)	Units (as applicable)	Emission limits	Measured Value (upto 2 decimal places)
1	Carbon Monoxide (CO)	percentage (%)		
	Hydrocarbon, (THC/HC)	ppm		
High Idling emissions	CO	percentage (%)		
	RPM	RPM	2500 ± 200	
	Lambda	-	1 ± 0.03	
Smoke Density	Light absorption coefficient	l/metre	0.7	0.6

This PUC certificate is system generated through the national register of motor vehicles and does not require any signature.

Note : 1. Vehicle owners to link their mobile numbers to registered vehicle by logging to <https://puc.parivahan.gov.in>

Authorised Signature with stamp of PUC operator
 60mm x 20 mm

Valid vehicle PUC Certificate copy



Water sprinkling in Mines haulage road

Half Yearly Environment Clearance Compliance Report of M/s J K Cement Limited issued for Kakra-Panna Limestone Mine, Panna for Period from October-2023 to March-2024

<p>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.</p>	<p>Complied. As the main haulage road is under construction therefore Permanent water sprinkling arrangement will be done after completion of haulage road (water sprinkling photo as enclosed on above). Roads within the mine lease is being wetted regularly with tanker-mounted water sprinkling system. Dust suppression arrangements have 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.</p>
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Water Sprinkling photo



Bag Filter photo



covered belt-conveyors

Half Yearly Environment Clearance Compliance Report of M/s J K Cement Limited issued for Kakra-Panna Limestone Mine, Panna for Period from October-2023 to March-2024

VIII. Green Belt

29)	<p>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.</p>	<p>Compliance in progress. Plantation is being done as per the EC condition and approved mining plan. We have started plantation all along the boundary of mining lease area. Plantation is being carried out in 7.5 m ML boundary and nearby Crusher area. A total of 4522 no. of sapling have been planted in 1.91 Ha of area during FY:2023-2024.</p>
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Plantation at Kakra mines area.

30)	<p>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</p>	<p>Agreed & will be complied when the backfilled area is available.</p>
31)	<p>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</p>	<p>Agreed & Noted. There is no grazing land in the mine lease area.</p>

Half Yearly Environment Clearance Compliance Report of M/s J K Cement Limited issued for Kakra-Panna Limestone Mine, Panna for Period from October-2023 to March-2024

	<p>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.</p>	
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IX. Public hearing and human health issues

32)	<p>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.</p>	<p>Complied. Mine is adjacent to the cement plant and labour camps has been provided with all amenities within the cement plant premises. STP has been installed for treatment of Sewage water.</p>  <p align="center">STP With Capacity 300KLD</p>
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X. Corporate Environment Responsibility (CER)

33)	<p>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.</p>	<p>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.</p>
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XI. Miscellaneous

34)	<p>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.</p>	<p>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.</p>
35)	<p>The Project Authorities should inform to the Regional Office regarding date of</p>	<p>Noted and complied</p>

Half Yearly Environment Clearance Compliance Report of M/s J K Cement Limited issued for Kakra-Panna Limestone Mine, Panna for Period from October-2023 to March-2024

	financial closures and final approval of the project by the concerned authorities and the date of start of land development work.	
36)	The Project Proponent shall submit six monthly compliance reports on the status of the implementation of the stipulated environmental safeguards to the MOEFCC & its concerned Regional Office, Central Pollution Control Board and State Pollution Control Board.	Complied. Six monthly compliance reports on the status of the implementation of the stipulated environmental safeguards to the MOEFCC & its concerned Regional Office, Central Pollution Control Board and State Pollution Control Board is being submitted regularly. Last EC compliance report submission during April-2023 to September-2023, Letter no- JKCEMENT/ENV/EC/KAKRA/03/12 dated 28.11.2023 copy as enclosed in given below.



JK Cement Ltd.
CIN: L17229UP1994PLC017199
Registered Office
Kankaria Tower, Kanpur - 208001, U.P., India
☎ +91-512-2371479 to 85 ☎ +91-512-2399854
🌐 www.jkcement.com

Ref. No.: JKCEMENT/ENV/EC/KAKRA/03/12 Dated: 28.11.2023

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

Subject: Submission of Half Yearly Environmental Clearance Compliance Status Report for period from April 2023 to September 2023 of Kakra Panna Limestone Mine for 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 J-11015/190/2016-IA.II (M) dated 31.08.2020
2- Corrigendum in EC letter no. J-11015/190/2016-IA.II (M) dated 08.03.2021
3- Amendment EC letter no. -11015/190/2016-IA.II (M) dated 18.10.2023

Dear Sir,

With reference to above stated Environment Clearance (EC) and MoEF & CC notification no. S.O. 5845 (E) 26.11.2018, we are submitting Half Yearly Environmental Clearance Compliance Status Report for period from April 2023 to September 2023 of Kakra Panna Limestone Mine for J K Cement Ltd. located at Villages Kakra, Kamtana, Saptai, Judi, Devri Purohit & Devra, Tehsil: Amanganj, Dist. Panna, Madhya Pradesh through email, this for your kind information and record please.

Thanking you,

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


Kapil Agrawal
(Unit Head)

Encl.: Copy of EC Compliance Status Report. Soft copy sent by mail to:
1. Member Secretary, MP Pollution Control Board, Paryavaran Parisar,
2. Regional Officer, Regional Office, MP Pollution Control Board, Makronia, Sagar (MP)
3. Regional Director- CPCB, Paryavaran 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
📍 Padam Tower, 19 DDA Community Centre
Okhla, Phase - 1, New Delhi - 110020, India
☎ +011-49220000
✉ admin.padm@tower@jkcement.com
🌐 www.jkcement.com

JK SUPER
CEMENT
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WaiMax
White Cement Waf. Pcty.

Manufacturing Units at :
Nimbahera, Mangrol, Golan (Rajasthan) | Maddur (Karnataka)
Jhars (Uttaranchal) | Rafal (M.P.) | Aligarh (U.P.) | Balachnor (Gujarat)



Submission of half yearly EC compliance report copy

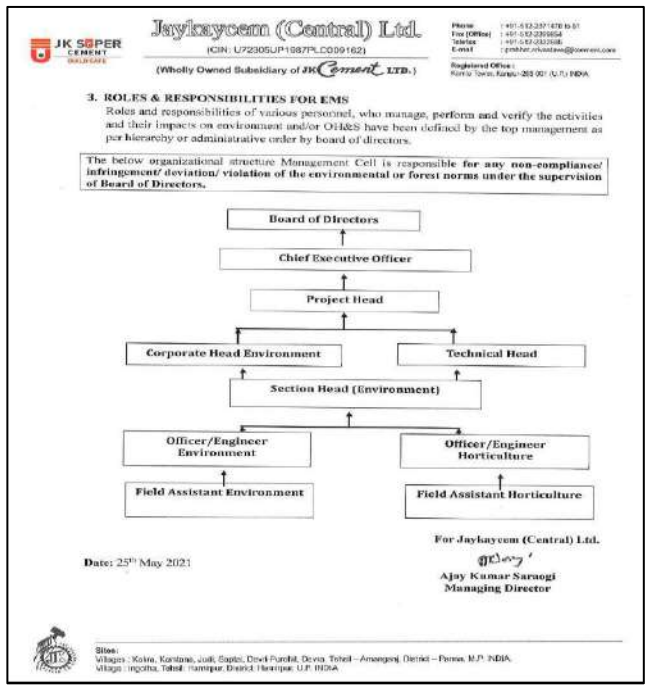
Half Yearly Environment Clearance Compliance Report of M/s J K Cement Limited issued for Kakra-Panna Limestone Mine, Panna for Period from October-2023 to March-2024

St.No.	Proposal No. / Name of Project	Compliance No./ EC Letter Number	State and District	Year of Compliance	Period of Compliance	Remarks	Uploaded Date	Status	View
1	EC23A0000MP5720689A Kakra-Panna Limestone Mine of Jaykaycem Central Limited 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], located at Villages Kakra, Kamtana, Saptai, Judi, Devri Purohit and Devra, Tehsil Amanganj, District Panna, Madhya Pradesh (ML Area- 1594.34 Ha)	EC/M/COMPLIANCE/28144100/2023 J-11015/190/2016-IA.II(M)	MADHYA PRADESH PANNA	2023	01 Dec(01 Apr - 30 Sep)		30-11-2023	Submitted Successfully	View Report View Document

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.

Complied.
A separate 'Environmental Management Cell' has been established under the Senior Executive who directly report to Head of the organization.



Head of the Organization

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.

Agreed and noted.

Half Yearly Environment Clearance Compliance Report of M/s J K Cement Limited issued for Kakra-Panna Limestone Mine, Panna for Period from October-2023 to March-2024

39	In pursuant to Ministry's O.M No 22-34/2018-IA.III dated 16.01.2020 to 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 action under the provisions of Environment (Protection) Act, 1986.	Agreed and Noted.
27.	The above conditions will be enforced inter-alia, 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.	Agreed and Noted.
28.	Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	Agreed and Noted.
Amendment in EC vide F. No. J-11015/190/2016-IA. II (M) dated 18th October 2023		
1	DUST SUPPRESSION	
1.1	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 at least 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	Complied. Permanent water sprinklers will be provided on the Mine Haulage road after construction. Fogging systems are installed at unloading point. Regular water sprinkling has been carried out on mine haulage road to control the fugitive dust emission. Bag filter has been installed and belt conveyors with covered corrugated sheets are installed to control the fugitive dust emission.

Half Yearly Environment Clearance Compliance Report of M/s J K Cement Limited issued for Kakra-Panna Limestone Mine, Panna for Period from October-2023 to March-2024

	should be installed near crusher and haul roads to control dust generation during mining.	3 nos. of Online air monitoring system (CAAQMS) have been installed at boundary of the ML.
2	SINGLE USE PLASTIC	
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.	Complied. Awareness program among the local people working within the project area as well as its surrounding area on the ban of Single Use Plastic (SUP) has been carried out and report with photographs are attached as Annexure -7 .
3	CLEAN ENERGY	
3.1	The Project Proponent shall explore the possibility of using at least 20% of electric vehicles/CNG/Solar instead of diesel operation within three years.	Noted and Will be complied.
4	GREATER PANNA LANDSCAPE	
4.1	The Project Proponent shall not transport the mineral through tiger dispersal route and it should be routed through other side without causing traffic, pollution and roadkill in the tiger reserve area.	As the mining lease area is not falling under tiger dispersal route hence causing traffic, pollution and road kill in tiger reserve area is not anticipated.
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.	Agreed and will be complied.
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.	Agreed and will be complied.
4.4	Biodiversity management plan, including restoration and carbon offset scheme shall be included in the mine plan and operation.	Will be complied during preparation and approval of Mining plan and in mining 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.	Agreed

Half Yearly Environment Clearance Compliance Report of M/s J K Cement Limited issued for Kakra-Panna Limestone Mine, Panna for Period from October-2023 to March-2024

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.	Agreed and Being Complied. Employment based apprenticeship / internship training program through ITI has been provided to 27 Nos. local residents. During FY:2023-24.
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 JK Cement Limited, Panna



(Kapil Agrawal)

Unit Head

JK Cement Limited.

For: Kakra Panna Limestone Mine

Ground vibration Report



Event Report

Date/Time Tran at 15:42:17 January 19, 2024
 Trigger Source Geo: 0.300 mm/s, Mic: 100.00 dB(L)
 Range Geo: 254.0 mm/s
 Record Time 3.0 sec at 2048 sps
 Operator/Setup: Operator/MINES.MMB

Serial Number UM20052 V 10-90GC Micromate ISEE
 Battery Level 3.5 Volts
 Unit Calibration October 20, 2022 by UES New Delhi
 File Name __TEMP.EVT

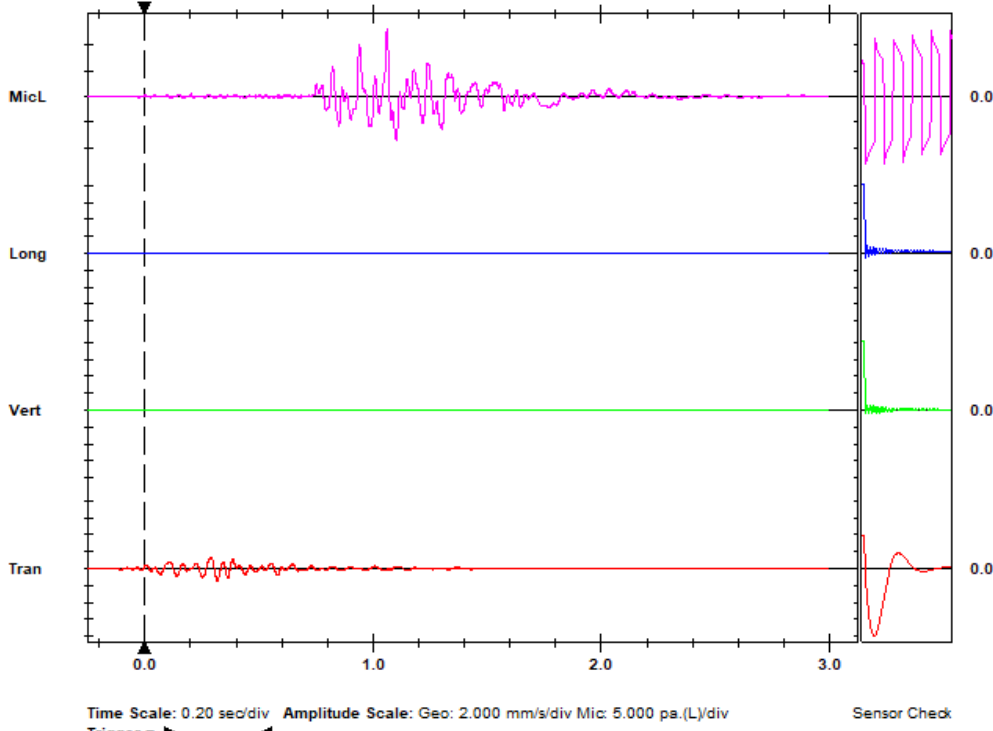
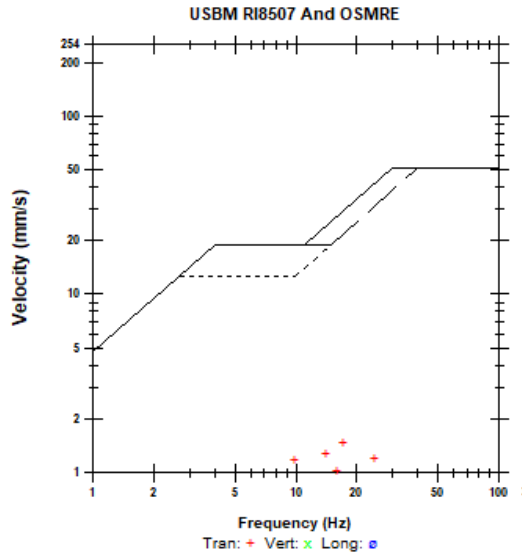
Notes

Location:
 Client:
 User Name: KAKRA PANNA LIMESTONE MINES
 General:

Microphone Linear Weighting
 PSPL 116.3 dB(L) at 1.060 sec
 ZC Freq 15.1 Hz
 Channel Test Passed (Freq = 20.5 Hz Amp = 1458 mv)

	Tran	Vert	Long	
PPV	1.466	0.055	0.063	mm/s
ZC Freq	17.1	60	114	Hz
Time (Rel. to Trig)	0.317	0.344	0.302	sec
Peak Acceleration	0.025	0.008	0.008	g
Peak Displacement	0.015	0.000	0.000	mm
Sensor Check	Passed	Check	Check	
Frequency	7.7	1024.0	1024.0	Hz
Overswing Ratio	4.7	0.0	0.0	

Peak Vector Sum 1.466 mm/s at 0.317 sec





Event Report

Date/Time Tran at 13:26:08 March 10, 2024
Trigger Source Geo: 0.300 mm/s, Mic: 100.00 dB(L)
Range Geo: 254.0 mm/s
Record Time 3.0 sec at 2048 sps
Operator/Setup: Operator/MINES.MMB

Serial Number UM20052 V 10-90FB Micromate ISEE
Battery Level 3.6 Volts
Unit Calibration February 19, 2024 by UES New Delhi
File Name __TEMP.EVT

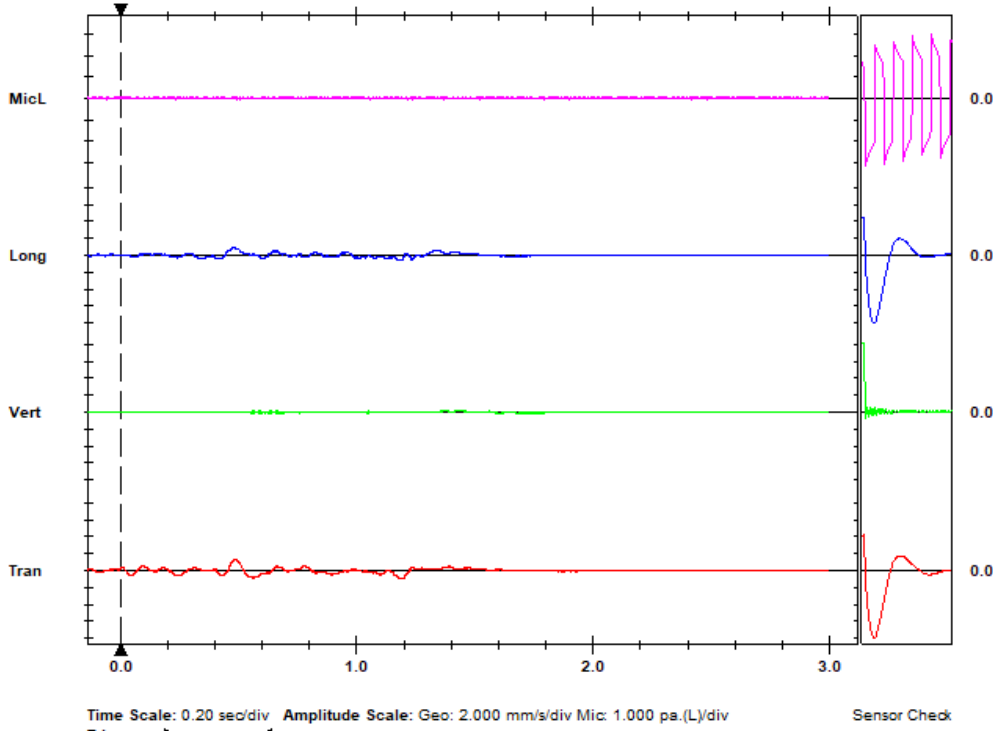
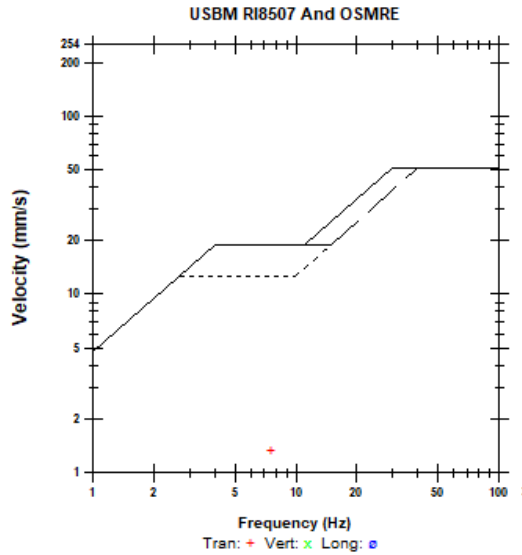
Notes

Location:
Client:
User Name: KAKRA PANNA LIMESTONE MINES
General:

Microphone Linear Weighting
PSPL <88 dB(L)
ZC Freq >200 Hz
Channel Test Passed (Freq = 19.7 Hz Amp = 1231 mv)

	Tran	Vert	Long	
PPV	1.316	0.276	0.954	mm/s
ZC Freq	7.6	8.8	4.5	Hz
Time (Rel. to Trig)	0.488	1.439	0.480	sec
Peak Acceleration	0.015	0.051	0.012	g
Peak Displacement	0.040	0.007	0.035	mm
Sensor Check	Passed	Check	Passed	
Frequency	7.3	25.0	7.5	Hz
Overswing Ratio	4.9	1.0	4.3	

Peak Vector Sum 1.581 mm/s at 0.483 sec
N/A: Not Applicable



TEST REPORT CODE: VGL/A/23/11/30/002

TEST REPORT ISSUE DATE: 07.12.2023

TEST REPORT (AMBIENT AIR)

Name and Address of Customer : M/s. J K CEMENT WORKS, PANNA
(A UNIT OF JK CEMENT LIMITED.)
VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ,
DISTT. - PANNA, 488441 (M.P)

Sampling Location : KAKRA MINE (NEAR MINE OFFICE)

Duration of Sampling : 27.11.2023 TO 28.11.2023

Time of Sampling : 12:10 PM TO 11:10 AM

Sampling Done by : ASHISH KUMAR & RAHUL

Packing Condition : SEALED

Sample Id No. : 002

Environmental Condition Temp.(°C) & RH (%) : 32.5 & 55.0

Method of Sampling : IS:5182

Sample Receiving Date : 30.11.2023

Sample Processing Date : 30.11.2023 TO 07.12.2023

Equipment Used : RESPIRABLE DUST SAMPLER (PM 10)
FINE PARTICULATE SAMPLER (PM 2.5)

TEST RESULTS

Sr. No.	Parameters	Test Method	Result	Unit	Specification / Limits (As per CPCB)
1.	Particulate Matter (PM2.5)	IS 5182 (Part-24)	36.4	µg/m ³	60.0
2.	Particulate Matter (PM10)	IS 5182 (Part-23)	73.8	µg/m ³	100.0
3.	Sulphur Dioxide (SO ₂)	IS 5182 (Part-2)	13.9	µg/m ³	80.0
4.	Nitrogen Dioxides (NO ₂)	IS 5182 (Part-6)	22.6	µg/m ³	80.0
5.	Corban Monoxide (CO)	IS 5182 (Part-10)	0.71	mg/m ³	4.0

Page 1 of 1

Note:

1. This report is not to be reproduced wholly or in part and cannot be used as evidence in the court of law and should not be used in any advertising media without our special permission in writing.
2. The sample will be destroyed after 15days from the date of issue of test certificate unless otherwise specified.
3. Any discrepancy in test result should be reported within 15Days.
4. The above results are related to the tested sample only.

Dr. Ashok Kumar
Technical ManagerVirat Global Lab
Authorized Signatory

Authorized Signatory

D. K. Yadav
Lab In-charge

TEST REPORT CODE: VGL/A/23/11/30/003

TEST REPORT ISSUE DATE: 07.12.2023

TEST REPORT (AMBIENT AIR)

Name and Address of Customer : M/s. J K CEMENT WORKS, PANNA
(A UNIT OF JK CEMENT LIMITED.)
VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ,
DISTT. - PANNA, 488441 (M.P)

Sampling Location : KAKRA MINE (NEAR SECURITY OFFICE)

Duration of Sampling : 25.11.2023 TO 26.11.2023

Time of Sampling : 11:55 AM TO 10:55 AM

Sampling Done by : ASHISH KUMAR & RAHUL

Packing Condition : SEALED

Sample Id No. : 003

Environmental Condition Temp.(°C) & RH (%) : 27.5 & 60.0

Method of Sampling : IS:5182

Sample Receiving Date : 30.11.2023

Sample Processing Date : 30.11.2023 TO 07.12.2023

Equipment Used : RESPIRABLE DUST SAMPLER (PM 10)
FINE PARTICULATE SAMPLER (PM 2.5)

TEST RESULTS

Sr. No.	Parameters	Test Method	Result	Unit	Specification / Limits (As per CPCB)
1.	Particulate Matter (PM2.5)	IS 5182 (Part-24)	31.6	µg/m ³	60.0
2.	Particulate Matter (PM10)	IS 5182 (Part-23)	67.8	µg/m ³	100.0
3.	Sulphur Dioxide (SO ₂)	IS 5182 (Part-2)	15.8	µg/m ³	80.0
4.	Nitrogen Dioxides (NO ₂)	IS 5182 (Part-6)	25.3	µg/m ³	80.0
5.	Corban Monoxide (CO)	IS 5182 (Part-10)	0.62	mg/m ³	4.0

Page 1 of 1

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Dr. Ashok Kumar
Technical ManagerVirat Global Lab
Authorized Signatory

Authorized Signatory

D. K. Yadav
Lab In-charge

TEST REPORT CODE: VGL/A/23/11/30/004

TEST REPORT ISSUE DATE: 07.12.2023

TEST REPORT (AMBIENT AIR)

Name and Address of Customer : M/s. J K CEMENT WORKS, PANNA
(A UNIT OF JK CEMENT LIMITED.)
VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ,
DISTT. - PANNA, 488441 (M.P)

Sampling Location : KAKRA VILLAGE

Duration of Sampling : 27.11.2023 TO 28.11.2023

Time of Sampling : 10:50 AM TO 09:50 AM

Sampling Done by : VGL STAFF

Packing Condition : SEALED

Sample Id No. : 004

Environmental Condition Temp.(°C) & RH (%) : 27.5 & 60.0

Method of Sampling : IS:5182

Sample Receiving Date : 30.11.2023

Sample Processing Date : 30.11.2023 TO 07.12.2023

Equipment Used : RESPIRABLE DUST SAMPLER (PM 10)
FINE PARTICULATE SAMPLER (PM 2.5)

TEST RESULTS

Sr. No.	Parameters	Test Method	Result	Unit	Specification / Limits (As per CPCB)
1.	Particulate Matter (PM2.5)	IS 5182 (Part-24)	34.5	µg/m ³	60.0
2.	Particulate Matter (PM10)	IS 5182 (Part-23)	67.6	µg/m ³	100.0
3.	Sulphur Dioxide (SO ₂)	IS 5182 (Part-2)	14.2	µg/m ³	80.0
4.	Nitrogen Dioxides (NO ₂)	IS 5182 (Part-6)	24.3	µg/m ³	80.0
5.	Corban Monoxide (CO)	IS 5182 (Part-10)	0.60	mg/m ³	4.0

Page 1 of 1

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Dr. Ashok Kumar
Technical ManagerVirat Global Lab
Authorized Signatory

Authorized Signatory

D. K. Yadav
Lab In-charge

TEST REPORT CODE: VGL/A/23/12/02/001

TEST REPORT ISSUE DATE: 07.12.2023

TEST REPORT (AMBIENT AIR)

Name and Address of Customer : M/s. J K CEMENT WORKS, PANNA
(A UNIT OF JK CEMENT LIMITED.)
VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ,
DISTT. - PANNA, 488441 (M.P)

Sampling Location : PURAINA VILLAGE

Duration of Sampling : 29.11.2023 TO 30.11.2023

Time of Sampling : 11:55 AM TO 10:55 AM

Sampling Done by : VIRENDRA KUMAR & RAHUL

Packing Condition : SEALED

Sample Id No. : 001

Environmental Condition Temp.(°C) & RH (%) : 27.5 & 60.0

Method of Sampling : IS:5182

Sample Receiving Date : 02.12.2023

Sample Processing Date : 02.12.2023 TO 07.12.2023

Equipment Used : RESPIRABLE DUST SAMPLER (PM 10)
FINE PARTICULATE SAMPLER (PM 2.5)

TEST RESULTS

Sr. No.	Parameters	Test Method	Result	Unit	Specification / Limits (As per CPCB)
1.	Particulate Matter (PM2.5)	IS 5182 (Part-24)	30.5	µg/m ³	60.0
2.	Particulate Matter (PM10)	IS 5182 (Part-23)	62.3	µg/m ³	100.0
3.	Sulphur Dioxide (SO ₂)	IS 5182 (Part-2)	12.2	µg/m ³	80.0
4.	Nitrogen Dioxides (NO ₂)	IS 5182 (Part-6)	21.5	µg/m ³	80.0
5.	Corban Monoxide (CO)	IS 5182 (Part-10)	0.52	mg/m ³	4.0

Page 1 of 1

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Dr. Ashok Kumar
Technical ManagerVirat Global Lab
Authorized Signatory

Authorized Signatory

D. K. Yadav
Lab In-charge

TEST REPORT (AMBIENT AIR)

Name and Address of Customer : M/s. J K CEMENT WORKS, PANNA
(A UNIT OF JK CEMENT LIMITED.)
VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ,
DISTT. - PANNA, 488441 (M.P)

Sampling Location : PAGRA VILLAGE

Duration of Sampling : 29.11.2023 TO 30.11.2023

Time of Sampling : 12:15 PM TO 11:15 AM

Sampling Done by : VIRENDRA KUMAR & RAHUL

Packing Condition : SEALED

Sample Id No. : 002

Environmental Condition Temp.(°C) & RH (%) : 27.5 & 60.0

Method of Sampling : IS:5182

Sample Receiving Date : 02.12.2023

Sample Processing Date : 02.12.2023 TO 07.12.2023

Equipment Used : RESPIRABLE DUST SAMPLER (PM 10)
FINE PARTICULATE SAMPLER (PM 2.5)

TEST RESULTS

Sr. No.	Parameters	Test Method	Result	Unit	Specification / Limits (As per CPCB)
1.	Particulate Matter (PM2.5)	IS 5182 (Part-24)	32.6	µg/m ³	60.0
2.	Particulate Matter (PM10)	IS 5182 (Part-23)	62.8	µg/m ³	100.0
3.	Sulphur Dioxide (SO ₂)	IS 5182 (Part-2)	12.4	µg/m ³	80.0
4.	Nitrogen Dioxides (NO ₂)	IS 5182 (Part-6)	20.3	µg/m ³	80.0
5.	Corban Monoxide (CO)	IS 5182 (Part-10)	0.53	mg/m ³	4.0

Page 1 of 1

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Dr. Ashok Kumar
Technical ManagerVirat Global Lab
Authorized Signatory

Authorized Signatory

D. K. Yadav
Lab In-charge

TEST REPORT (AMBIENT AIR)

Name and Address of Customer	: M/s. J K CEMENT WORKS, PANNA (A UNIT OF JK CEMENT LIMITED.) VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ, DISTT. - PANNA, 488441 (M.P)
Sampling Location	: AMANGANJ VILLAGE
Duration of Sampling	: 29.11.2023 TO 30.11.2023
Time of Sampling	: 12:35 PM TO 11:35 AM
Sampling Done by	: VIRENDRA KUMAR & RAHUL
Packing Condition	: SEALED
Sample Id No.	: 003
Environmental Condition Temp.(°C) & RH (%)	: 27.5 & 60.0
Method of Sampling	: IS:5182
Sample Receiving Date	: 02.12.2023
Sample Processing Date	: 02.12.2023 TO 07.12.2023
Equipment Used	: RESPIRABLE DUST SAMPLER (PM 10) FINE PARTICULATE SAMPLER (PM 2.5)

TEST RESULTS

Sr. No.	Parameters	Test Method	Result	Unit	Specification / Limits (As per CPCB)
1.	Particulate Matter (PM2.5)	IS 5182 (Part-24)	33.5	µg/m ³	60.0
2.	Particulate Matter (PM10)	IS 5182 (Part-23)	65.2	µg/m ³	100.0
3.	Sulphur Dioxide (SO ₂)	IS 5182 (Part-2)	13.2	µg/m ³	80.0
4.	Nitrogen Dioxides (NO ₂)	IS 5182 (Part-6)	19.7	µg/m ³	80.0
5.	Corban Monoxide (CO)	IS 5182 (Part-10)	0.55	mg/m ³	4.0

Page 1 of 1

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Dr. Ashok Kumar
Technical ManagerVirat Global Lab
Authorized Signatory

Authorized Signatory

D. K. Yadav
Lab In-charge

TEST REPORT (AMBIENT AIR)

Name and Address of Customer	: M/s. J K CEMENT WORKS, PANNA (A UNIT OF JK CEMENT LIMITED.) VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ, DISTT. - PANNA, 488441 (M.P)
Sampling Location	: SAPTAI VILLAGE
Duration of Sampling	: 26.11.2023 TO 27.11.2023
Time of Sampling	: 12:45 PM TO 11:45 PM
Sampling Done by	: VIRENDRA KUMAR & RAHUL
Packing Condition	: SEALED
Sample Id No.	: 004
Environmental Condition Temp.(°C) & RH (%)	: 27.5 & 60.0
Method of Sampling	: IS:5182
Sample Receiving Date	: 02.12.2023
Sample Processing Date	: 02.12.2023 TO 07.12.2023
Equipment Used	: RESPIRABLE DUST SAMPLER (PM 10) FINE PARTICULATE SAMPLER (PM 2.5)

TEST RESULTS

Sr. No.	Parameters	Test Method	Result	Unit	Specification / Limits (As per CPCB)
1.	Particulate Matter (PM2.5)	IS 5182 (Part-24)	30.2	µg/m ³	60.0
2.	Particulate Matter (PM10)	IS 5182 (Part-23)	60.8	µg/m ³	100.0
3.	Sulphur Dioxide (SO ₂)	IS 5182 (Part-2)	11.8	µg/m ³	80.0
4.	Nitrogen Dioxides (NO ₂)	IS 5182 (Part-6)	21.4	µg/m ³	80.0
5.	Corban Monoxide (CO)	IS 5182 (Part-10)	0.58	mg/m ³	4.0

Page 1 of 1

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Dr. Ashok Kumar
Technical ManagerVirat Global Lab
Authorized Signatory

Authorized Signatory

D. K. Yadav
Lab In-charge

TEST REPORT (AMBIENT AIR)

Name and Address of Customer	: M/s. J K CEMENT WORKS, PANNA (A UNIT OF JK CEMENT LIMITED.) VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ, DISTT. - PANNA, 488441 (M.P)
Sampling Location	: KAMTANA VILLAGE
Duration of Sampling	: 29.11.2023 TO 30.11.2023
Time of Sampling	: 12:55 PM TO 11:55 AM
Sampling Done by	: VIRENDRA KUMAR & RAHUL
Packing Condition	: SEALED
Sample Id No.	: 005
Environmental Condition Temp.(°C) & RH (%)	: 27.5 & 60.0
Method of Sampling	: IS:5182
Sample Receiving Date	: 02.12.2023
Sample Processing Date	: 02.12.2023 TO 07.12.2023
Equipment Used	: RESPIRABLE DUST SAMPLER (PM 10) FINE PARTICULATE SAMPLER (PM 2.5)

TEST RESULTS

Sr. No.	Parameters	Test Method	Result	Unit	Specification / Limits (As per CPCB)
1.	Particulate Matter (PM2.5)	IS 5182 (Part-24)	33.1	µg/m ³	60.0
2.	Particulate Matter (PM10)	IS 5182 (Part-23)	34.2	µg/m ³	100.0
3.	Sulphur Dioxide (SO ₂)	IS 5182 (Part-2)	13.2	µg/m ³	80.0
4.	Nitrogen Dioxides (NO ₂)	IS 5182 (Part-6)	23.6	µg/m ³	80.0
5.	Corban Monoxide (CO)	IS 5182 (Part-10)	0.62	mg/m ³	4.0

Page 1 of 1

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Dr. Ashok Kumar
Technical ManagerVirat Global Lab
Authorized Signatory

Authorised Signatory

D. K. Yadav
Lab In-charge

TEST REPORT (AMBIENT AIR)

Name and Address of Customer : M/s. J K CEMENT WORKS, PANNA
(A UNIT OF JK CEMENT LIMITED.)
VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ,
DISTT. - PANNA, 488441 (M.P)

Sampling Location : UDLA VILLAGE

Duration of Sampling : 29.11.2023 TO 30.11.2023

Time of Sampling : 01:15 PM TO 12:15 PM

Sampling Done by : VIRENDRA KUMAR & RAHUL

Packing Condition : SEALED

Sample Id No. : 006

Environmental Condition Temp.(°C) & RH (%) : 27.5 & 60.0

Method of Sampling : IS:5182

Sample Receiving Date : 02.12.2023

Sample Processing Date : 02.12.2023 TO 07.12.2023

Equipment Used : RESPIRABLE DUST SAMPLER (PM 10)
FINE PARTICULATE SAMPLER (PM 2.5)

TEST RESULTS

Sr. No.	Parameters	Test Method	Result	Unit	Specification / Limits (As per CPCB)
1.	Particulate Matter (PM2.5)	IS 5182 (Part-24)	30.2	µg/m ³	60.0
2.	Particulate Matter (PM10)	IS 5182 (Part-23)	63.6	µg/m ³	100.0
3.	Sulphur Dioxide (SO ₂)	IS 5182 (Part-2)	13.2	µg/m ³	80.0
4.	Nitrogen Dioxides (NO ₂)	IS 5182 (Part-6)	22.6	µg/m ³	80.0
5.	Corban Monoxide (CO)	IS 5182 (Part-10)	0.58	mg/m ³	4.0

Page 1 of 1

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Dr. Ashok Kumar
Technical ManagerVirat Global Lab
Authorized Signatory

Authorised Signatory

D. K. Yadav
Lab In-charge

TEST REPORT (AMBIENT AIR)

Name and Address of Customer	: M/s. J K CEMENT WORKS, PANNA (A UNIT OF JK CEMENT LIMITED.) VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ, DISTT. - PANNA, 488441 (M.P)
Sampling Location	: SOTIPURA VILLAGE
Duration of Sampling	: 30.11.2023 TO 01.12.2023
Time of Sampling	: 11:20 AM TO 10:20 AM
Sampling Done by	: VIRENDRA KUMAR & RAHUL
Packing Condition	: SEALED
Sample Id No.	: 007
Environmental Condition Temp.(°C) & RH (%)	: 27.5 & 60.0
Method of Sampling	: IS:5182
Sample Receiving Date	: 02.12.2023
Sample Processing Date	: 02.12.2023 TO 07.12.2023
Equipment Used	: RESPIRABLE DUST SAMPLER (PM 10) FINE PARTICULATE SAMPLER (PM 2.5)

TEST RESULTS

Sr. No.	Parameters	Test Method	Result	Unit	Specification / Limits (As per CPCB)
1.	Particulate Matter (PM2.5)	IS 5182 (Part-24)	30.7	µg/m ³	60.0
2.	Particulate Matter (PM10)	IS 5182 (Part-23)	61.8	µg/m ³	100.0
3.	Sulphur Dioxide (SO ₂)	IS 5182 (Part-2)	13.2	µg/m ³	80.0
4.	Nitrogen Dioxides (NO ₂)	IS 5182 (Part-6)	22.6	µg/m ³	80.0
5.	Corban Monoxide (CO)	IS 5182 (Part-10)	0.48	mg/m ³	4.0

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Dr. Ashok Kumar
Technical ManagerVirat Global Lab
Authorized Signatory

Authorized Signatory

D. K. Yadav
Lab In-charge

TEST REPORT (AMBIENT AIR)

Name and Address of Customer	: M/s. J K CEMENT WORKS, PANNA (A UNIT OF JK CEMENT LIMITED.) VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ, DISTT. - PANNA, 488441 (M.P)
Sampling Location	: HINAUTA VILLAGE
Duration of Sampling	: 30.11.2023 TO 01.12.2023
Time of Sampling	: 11:40 AM TO 10:40 AM
Sampling Done by	: VIRENDRA KUMAR & RAHUL
Packing Condition	: SEALED
Sample Id No.	: 008
Environmental Condition Temp.(°C) & RH (%)	: 27.5 & 60.0
Method of Sampling	: IS:5182
Sample Receiving Date	: 02.12.2023
Sample Processing Date	: 02.12.2023 TO 07.12.2023
Equipment Used	: RESPIRABLE DUST SAMPLER (PM 10) FINE PARTICULATE SAMPLER (PM 2.5)

TEST RESULTS

Sr. No.	Parameters	Test Method	Result	Unit	Specification / Limits (As per CPCB)
1.	Particulate Matter (PM2.5)	IS 5182 (Part-24)	33.5	µg/m ³	60.0
2.	Particulate Matter (PM10)	IS 5182 (Part-23)	58.2	µg/m ³	100.0
3.	Sulphur Dioxide (SO ₂)	IS 5182 (Part-2)	12.5	µg/m ³	80.0
4.	Nitrogen Dioxides (NO ₂)	IS 5182 (Part-6)	23.3	µg/m ³	80.0
5.	Corban Monoxide (CO)	IS 5182 (Part-10)	0.62	mg/m ³	4.0

Page 1 of 1

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Review By:

Dr. Ashok Kumar
Technical ManagerVirat Global Lab
Authorized Signatory

Authorized Signatory

D. K. Yadav
Lab In-charge

TEST REPORT (AMBIENT AIR)

Name and Address of Customer	: M/s. J K CEMENT WORKS, PANNA (A UNIT OF JK CEMENT LIMITED.) VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ, DISTT. - PANNA, 488441 (M.P)
Sampling Location	: PURWA VILLAGE
Duration of Sampling	: 30.11.2023 TO 01.12.2023
Time of Sampling	: 11:55 AM TO 10:55 AM
Sampling Done by	: VIRENDRA KUMAR & RAHUL
Packing Condition	: SEALED
Sample Id No.	: 009
Environmental Condition Temp.(°C) & RH (%)	: 27.5 & 60.0
Method of Sampling	: IS:5182
Sample Receiving Date	: 02.12.2023
Sample Processing Date	: 02.12.2023 TO 07.12.2023
Equipment Used	: RESPIRABLE DUST SAMPLER (PM 10) FINE PARTICULATE SAMPLER (PM 2.5)

TEST RESULTS

Sr. No.	Parameters	Test Method	Result	Unit	Specification / Limits (As per CPCB)
1.	Particulate Matter (PM2.5)	IS 5182 (Part-24)	30.2	µg/m ³	60.0
2.	Particulate Matter (PM10)	IS 5182 (Part-23)	60.7	µg/m ³	100.0
3.	Sulphur Dioxide (SO ₂)	IS 5182 (Part-2)	10.2	µg/m ³	80.0
4.	Nitrogen Dioxides (NO ₂)	IS 5182 (Part-6)	18.4	µg/m ³	80.0
5.	Corban Monoxide (CO)	IS 5182 (Part-10)	0.45	mg/m ³	4.0

Page 1 of 1

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Dr. Ashok Kumar
Technical ManagerVirat Global Lab
Authorized Signatory

Authorized Signatory

D. K. Yadav
Lab In-charge

TEST REPORT (AMBIENT AIR)

Name and Address of Customer : M/s. J K CEMENT WORKS, PANNA
(A UNIT OF JK CEMENT LIMITED.)
VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ,
DISTT. - PANNA, 488441 (M.P)

Sampling Location : BHUPATPURA VILLAGE

Duration of Sampling : 30.11.2023 TO 02.12.2023

Time of Sampling : 12:10 PM TO 11:10 AM

Sampling Done by : VIRENDRA KUMAR & RAHUL

Packing Condition : SEALED

Sample Id No. : 010

Environmental Condition Temp.(°C) & RH (%) : 27.4 & 60.0

Method of Sampling : IS:5182

Sample Receiving Date : 02.12.2023

Sample Processing Date : 02.12.2023 TO 07.12.2023

Equipment Used : RESPIRABLE DUST SAMPLER (PM 10)
FINE PARTICULATE SAMPLER (PM 2.5)

TEST RESULTS

Sr. No.	Parameters	Test Method	Result	Unit	Specification / Limits (As per CPCB)
1.	Particulate Matter (PM2.5)	IS 5182 (Part-24)	32.5	µg/m ³	60.0
2.	Particulate Matter (PM10)	IS 5182 (Part-23)	62.6	µg/m ³	100.0
3.	Sulphur Dioxide (SO ₂)	IS 5182 (Part-2)	12.8	µg/m ³	80.0
4.	Nitrogen Dioxides (NO ₂)	IS 5182 (Part-6)	21.5	µg/m ³	80.0
5.	Corban Monoxide (CO)	IS 5182 (Part-10)	0.44	mg/m ³	4.0

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Dr. Ashok Kumar
Technical ManagerVirat Global Lab
Authorized Signatory

Authorized Signatory

D. K. Yadav
Lab In-charge

TEST REPORT (AMBIENT AIR)

Name and Address of Customer	: M/s. J K CEMENT WORKS, PANNA (A UNIT OF JK CEMENT LIMITED.) VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ, DISTT. - PANNA, 488441 (M.P)
Sampling Location	: MOHADKH VILLAGE
Duration of Sampling	: 30.11.2023 TO 01.12.2023
Time of Sampling	: 12:25 PM TO 11:25 AM
Sampling Done by	: VIRENDRA KUMAR & RAHUL
Packing Condition	: SEALED
Sample Id No.	: 011
Environmental Condition Temp.(°C) & RH (%)	: 27.6 & 60.0
Method of Sampling	: IS:5182
Sample Receiving Date	: 02.12.2023
Sample Processing Date	: 02.12.2023 TO 07.12.2023
Equipment Used	: RESPIRABLE DUST SAMPLER (PM 10) FINE PARTICULATE SAMPLER (PM 2.5)

TEST RESULTS

Sr. No.	Parameters	Test Method	Result	Unit	Specification / Limits (As per CPCB)
1.	Particulate Matter (PM2.5)	IS 5182 (Part-24)	30.8	µg/m ³	60.0
2.	Particulate Matter (PM10)	IS 5182 (Part-23)	56.9	µg/m ³	100.0
3.	Sulphur Dioxide (SO ₂)	IS 5182 (Part-2)	12.4	µg/m ³	80.0
4.	Nitrogen Dioxides (NO ₂)	IS 5182 (Part-6)	20.3	µg/m ³	80.0
5.	Corban Monoxide (CO)	IS 5182 (Part-10)	0.49	mg/m ³	4.0

Page 1 of 1

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

Dr. Ashok Kumar
Technical ManagerVirat Global Lab
Authorized Signatory

Authorized Signatory

D. K. Yadav
Lab In-charge

TEST REPORT (AMBIENT AIR)

Name and Address of Customer	: M/s. J K CEMENT WORKS, PANNA (A UNIT OF JK CEMENT LIMITED.) VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ, DISTT. - PANNA, 488441 (M.P)
Sampling Location	: UMERI VILLAGE
Duration of Sampling	: 30.11.2023 TO 01.12.2023
Time of Sampling	: 12:35 PM TO 11:35 AM
Sampling Done by	: VIRENDRA KUMAR & RAHUL
Packing Condition	: SEALED
Sample Id No.	: 012
Environmental Condition Temp.(°C) & RH (%)	: 27.4 & 60.0
Method of Sampling	: IS:5182
Sample Receiving Date	: 02.12.2023
Sample Processing Date	: 02.12.2023 TO 07.12.2023
Equipment Used	: RESPIRABLE DUST SAMPLER (PM 10) FINE PARTICULATE SAMPLER (PM 2.5)

TEST RESULTS

Sr. No.	Parameters	Test Method	Result	Unit	Specification / Limits (As per CPCB)
1.	Particulate Matter (PM2.5)	IS 5182 (Part-24)	32.3	µg/m ³	60.0
2.	Particulate Matter (PM10)	IS 5182 (Part-23)	58.7	µg/m ³	100.0
3.	Sulphur Dioxide (SO ₂)	IS 5182 (Part-2)	11.3	µg/m ³	80.0
4.	Nitrogen Dioxides (NO ₂)	IS 5182 (Part-6)	20.4	µg/m ³	80.0
5.	Corban Monoxide (CO)	IS 5182 (Part-10)	0.55	mg/m ³	4.0

Page 1 of 1

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4. The above results are related to the tested sample only.

Review By:

Dr. Ashok Kumar
Technical ManagerVirat Global Lab
Authorized Signatory

Authorized Signatory

D. K. Yadav
Lab In-charge

TEST REPORT (AMBIENT AIR)

Name and Address of Customer	: M/s. J K CEMENT WORKS, PANNA (A UNIT OF JK CEMENT LIMITED.) VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ, DISTT. - PANNA, 488441 (M.P)
Sampling Location	: HARDUA VILLAGE
Duration of Sampling	: 30.11.2023 TO 01.12.2023
Time of Sampling	: 12:45 PM TO 11:45 AM
Sampling Done by	: VIRENDRA KUMAR & RAHUL
Packing Condition	: SEALED
Sample Id No.	: 013
Environmental Condition Temp.(°C) & RH (%)	: 27.6 & 60.0
Method of Sampling	: IS:5182
Sample Receiving Date	: 02.12.2023
Sample Processing Date	: 02.12.2023 TO 07.12.2023
Equipment Used	: RESPIRABLE DUST SAMPLER (PM 10) FINE PARTICULATE SAMPLER (PM 2.5)

TEST RESULTS

Sr. No.	Parameters	Test Method	Result	Unit	Specification / Limits (As per CPCB)
1.	Particulate Matter (PM2.5)	IS 5182 (Part-24)	34.2	µg/m ³	60.0
2.	Particulate Matter (PM10)	IS 5182 (Part-23)	60.9	µg/m ³	100.0
3.	Sulphur Dioxide (SO ₂)	IS 5182 (Part-2)	13.2	µg/m ³	80.0
4.	Nitrogen Dioxides (NO ₂)	IS 5182 (Part-6)	22.5	µg/m ³	80.0
5.	Corban Monoxide (CO)	IS 5182 (Part-10)	0.57	mg/m ³	4.0

Page 1 of 1

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4. The above results are related to the tested sample only.

Dr. Ashok Kumar
Technical ManagerVirat Global Lab
Authorized Signatory

Authorized Signatory

D. K. Yadav
Lab In-charge

TEST REPORT CODE: VGL/A/24/01/15/007

TEST REPORT ISSUE DATE: 22.01.2024

TEST REPORT (AMBIENT AIR)

Name and Address of Customer : M/s. J K CEMENT WORKS, PANNA
(A UNIT OF JK CEMENT LIMITED.)
VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ,
DISTT. - PANNA, 488441 (M.P.)

Sampling Location : KAKRA MINE (NEAR MINE OFFICE)

Duration of Sampling : 10.01.2024 TO 11.01.2024

Time of Sampling : 10:15 AM TO 09:15 AM

Sampling Done by : ASHISH KUMAR & RAHUL

Packing Condition : SEALED

Sample Id No. : 007

Environmental Condition Temp.(°C) & RH (%) : 21.5 & 62.0

Method of Sampling : IS:5182

Sample Receiving Date : 15.01.2024

Sample Processing Date : 15.01.2024 TO 22.01.2024

Equipment Used : RESPIRABLE DUST SAMPLER (PM 10)
FINE PARTICULATE SAMPLER (PM 2.5)

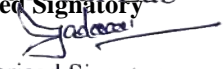
TEST RESULTS

Sr. No.	Parameters	Test Method	Result	Unit	Specification / Limits (As per CPCB)
1.	Particulate Matter (PM2.5)	IS 5182 (Part-24)	32.8	µg/m ³	60.0
2.	Particulate Matter (PM10)	IS 5182 (Part-23)	75.6	µg/m ³	100.0
3.	Sulphur Dioxide (SO ₂)	IS 5182 (Part-2)	16.4	µg/m ³	80.0
4.	Nitrogen Dioxides (NO ₂)	IS 5182 (Part-6)	26.8	µg/m ³	80.0
5.	Corban Monoxide (CO)	IS 5182 (Part-10)	0.69	mg/m ³	4.0

Page 1 of 1

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Dr. Ashok Kumar
Technical ManagerVirat Global Lab
Authorized Signatory
Authorised SignatoryD. K. Yadav
Lab In-charge

TEST REPORT CODE: VGL/A/24/01/15/008

TEST REPORT ISSUE DATE: 22.01.2024

TEST REPORT (AMBIENT AIR)

Name and Address of Customer : M/s. J K CEMENT WORKS, PANNA
(A UNIT OF JK CEMENT LIMITED.)
VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ,
DISTT. - PANNA, 488441 (M.P)

Sampling Location : KAKRA MINE (NEAR SECURITY OFFICE)

Duration of Sampling : 10.01.2024 TO 11.01.2024

Time of Sampling : 10:35 AM TO 09:35 AM

Sampling Done by : ASHISH KUMAR & RAHUL

Packing Condition : SEALED

Sample Id No. : 008

Environmental Condition Temp.(°C) & RH (%) : 21.5 & 62.0

Method of Sampling : IS:5182

Sample Receiving Date : 15.01.2024

Sample Processing Date : 15.01.2024 TO 22.01.2024

Equipment Used : RESPIRABLE DUST SAMPLER (PM 10)
FINE PARTICULATE SAMPLER (PM 2.5)

TEST RESULTS

Sr. No.	Parameters	Test Method	Result	Unit	Specification / Limits (As per CPCB)
1.	Particulate Matter (PM2.5)	IS 5182 (Part-24)	33.9	µg/m ³	60.0
2.	Particulate Matter (PM10)	IS 5182 (Part-23)	70.2	µg/m ³	100.0
3.	Sulphur Dioxide (SO ₂)	IS 5182 (Part-2)	18.4	µg/m ³	80.0
4.	Nitrogen Dioxides (NO ₂)	IS 5182 (Part-6)	28.5	µg/m ³	80.0
5.	Corban Monoxide (CO)	IS 5182 (Part-10)	0.67	mg/m ³	4.0

Page 1 of 1

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Dr. Ashok Kumar
Technical ManagerVirat Global Lab
Authorized Signatory
Authorised SignatoryD. K. Yadav
Lab In-charge

TEST REPORT CODE: VGL/A/24/01/15/009

TEST REPORT ISSUE DATE: 22.01.2024

TEST REPORT (AMBIENT AIR)

Name and Address of Customer : M/s. J K CEMENT WORKS, PANNA
(A UNIT OF JK CEMENT LIMITED.)
VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ,
DISTT. - PANNA, 488441 (M.P)

Sampling Location : **KAKRA VILLAGE**

Duration of Sampling : 10.01.2024 TO 11.01.2024

Time of Sampling : 10:55 AM TO 09:55 AM

Sampling Done by : ASHISH KUMAR & RAHUL

Packing Condition : SEALED

Sample Id No. : 009

Environmental Condition Temp.(°C) & RH (%) : 21.5 & 62.0

Method of Sampling : IS:5182

Sample Receiving Date : 15.01.2024

Sample Processing Date : 15.01.2024 TO 22.01.2024

Equipment Used : RESPIRABLE DUST SAMPLER (PM 10)
FINE PARTICULATE SAMPLER (PM 2.5)

TEST RESULTS

Sr. No.	Parameters	Test Method	Result	Unit	Specification / Limits (As per CPCB)
1.	Particulate Matter (PM2.5)	IS 5182 (Part-24)	37.8	µg/m ³	60.0
2.	Particulate Matter (PM10)	IS 5182 (Part-23)	72.4	µg/m ³	100.0
3.	Sulphur Dioxide (SO ₂)	IS 5182 (Part-2)	15.8	µg/m ³	80.0
4.	Nitrogen Dioxides (NO ₂)	IS 5182 (Part-6)	27.2	µg/m ³	80.0
5.	Corban Monoxide (CO)	IS 5182 (Part-10)	0.65	mg/m ³	4.0

Page 1 of 1

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Dr. Ashok Kumar
Technical ManagerVirat Global Lab
Authorized Signatory

Authorised Signatory

D. K. Yadav
Lab In-charge

TEST REPORT CODE: VGL/A/24/01/15/015

TEST REPORT ISSUE DATE: 22.01.2024

TEST REPORT (AMBIENT AIR)

Name and Address of Customer : M/s. J K CEMENT WORKS, PANNA
(A UNIT OF JK CEMENT LIMITED.)
VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ,
DISTT. - PANNA, 488441 (M.P)

Sampling Location : PURAINA VILLAGE

Duration of Sampling : 11.01.2024 TO 12.01.2024

Time of Sampling : 09:45 AM TO 08:45 AM

Sampling Done by : VIRENDRA KUMAR & RAHUL

Packing Condition : SEALED

Sample Id No. : 015

Environmental Condition Temp.(°C) & RH (%) : 21.5 & 62.0

Method of Sampling : IS:5182

Sample Receiving Date : 15.01.2024

Sample Processing Date : 15.01.2024 TO 22.01.2024

Equipment Used : RESPIRABLE DUST SAMPLER (PM 10)
FINE PARTICULATE SAMPLER (PM 2.5)

TEST RESULTS

Sr. No.	Parameters	Test Method	Result	Unit	Specification / Limits (As per CPCB)
1.	Particulate Matter (PM2.5)	IS 5182 (Part-24)	31.2	µg/m ³	60.0
2.	Particulate Matter (PM10)	IS 5182 (Part-23)	65.8	µg/m ³	100.0
3.	Sulphur Dioxide (SO ₂)	IS 5182 (Part-2)	14.2	µg/m ³	80.0
4.	Nitrogen Dioxides (NO ₂)	IS 5182 (Part-6)	23.4	µg/m ³	80.0
5.	Corban Monoxide (CO)	IS 5182 (Part-10)	0.58	mg/m ³	4.0

Page 1 of 1

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Dr. Ashok Kumar
Technical ManagerVirat Global Lab
Authorized Signatory

Authorised Signatory

D. K. Yadav
Lab In-charge

TEST REPORT CODE: VGL/A/24/01/15/016

TEST REPORT ISSUE DATE: 22.01.2024

TEST REPORT (AMBIENT AIR)

Name and Address of Customer : M/s. J K CEMENT WORKS, PANNA
(A UNIT OF JK CEMENT LIMITED.)
VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ,
DISTT. - PANNA, 488441 (M.P)

Sampling Location : PAGRA VILLAGE

Duration of Sampling : 11.01.2024 TO 12.01.2024

Time of Sampling : 09:55 AM TO 08:55 AM

Sampling Done by : VIRENDRA KUMAR & RAHUL

Packing Condition : SEALED

Sample Id No. : 016

Environmental Condition Temp.(°C) & RH (%) : 21.5 & 62.0

Method of Sampling : IS:5182

Sample Receiving Date : 15.01.2024

Sample Processing Date : 15.01.2024 TO 22.01.2024

Equipment Used : RESPIRABLE DUST SAMPLER (PM 10)
FINE PARTICULATE SAMPLER (PM 2.5)

TEST RESULTS

Sr. No.	Parameters	Test Method	Result	Unit	Specification / Limits (As per CPCB)
1.	Particulate Matter (PM2.5)	IS 5182 (Part-24)	30.6	µg/m ³	60.0
2.	Particulate Matter (PM10)	IS 5182 (Part-23)	64.8	µg/m ³	100.0
3.	Sulphur Dioxide (SO ₂)	IS 5182 (Part-2)	15.2	µg/m ³	80.0
4.	Nitrogen Dioxides (NO ₂)	IS 5182 (Part-6)	21.3	µg/m ³	80.0
5.	Corban Monoxide (CO)	IS 5182 (Part-10)	0.56	mg/m ³	4.0

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Dr. Ashok Kumar
Technical ManagerVirat Global Lab
Authorized Signatory

Authorised Signatory

D. K. Yadav
Lab In-charge

TEST REPORT (AMBIENT AIR)

Name and Address of Customer	:	M/s. J K CEMENT WORKS, PANNA (A UNIT OF JK CEMENT LIMITED.) VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ, DISTT. - PANNA, 488441 (M.P)
Sampling Location	:	AMANGANJ VILLAGE
Duration of Sampling	:	11.01.2024 TO 12.01.2024
Time of Sampling	:	10:10 AM TO 09:10 AM
Sampling Done by	:	VIRENDRA KUMAR & RAHUL
Packing Condition	:	SEALED
Sample Id No.	:	017
Environmental Condition Temp.(°C) & RH (%)	:	21.5 & 62.0
Method of Sampling	:	IS:5182
Sample Receiving Date	:	15.01.2024
Sample Processing Date	:	15.01.2024 TO 22.01.2024
Equipment Used	:	RESPIRABLE DUST SAMPLER (PM 10) FINE PARTICULATE SAMPLER (PM 2.5)

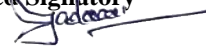
TEST RESULTS

Sr. No.	Parameters	Test Method	Result	Unit	Specification / Limits (As per CPCB)
1.	Particulate Matter (PM2.5)	IS 5182 (Part-24)	31.2	µg/m ³	60.0
2.	Particulate Matter (PM10)	IS 5182 (Part-23)	68.3	µg/m ³	100.0
3.	Sulphur Dioxide (SO ₂)	IS 5182 (Part-2)	14.8	µg/m ³	80.0
4.	Nitrogen Dioxides (NO ₂)	IS 5182 (Part-6)	21.3	µg/m ³	80.0
5.	Corban Monoxide (CO)	IS 5182 (Part-10)	0.58	mg/m ³	4.0

Page 1 of 1

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Dr. Ashok Kumar
Technical ManagerVirat Global Lab
Authorized Signatory
Authorised SignatoryD. K. Yadav
Lab In-charge

TEST REPORT CODE: VGL/A/24/01/15/018

TEST REPORT ISSUE DATE: 22.01.2024

TEST REPORT (AMBIENT AIR)

Name and Address of Customer : M/s. J K CEMENT WORKS, PANNA
(A UNIT OF JK CEMENT LIMITED.)
VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ,
DISTT. - PANNA, 488441 (M.P)

Sampling Location : SAPTAI VILLAGE

Duration of Sampling : 11.01.2024 TO 12.01.2024

Time of Sampling : 10:50 AM TO 09:50 AM

Sampling Done by : VIRENDRA KUMAR & RAHUL

Packing Condition : SEALED

Sample Id No. : 018

Environmental Condition Temp.(°C) & RH (%) : 21.5 & 62.0

Method of Sampling : IS:5182

Sample Receiving Date : 15.01.2024

Sample Processing Date : 15.01.2024 TO 22.01.2024

Equipment Used : RESPIRABLE DUST SAMPLER (PM 10)
FINE PARTICULATE SAMPLER (PM 2.5)

TEST RESULTS

Sr. No.	Parameters	Test Method	Result	Unit	Specification / Limits (As per CPCB)
1.	Particulate Matter (PM2.5)	IS 5182 (Part-24)	32.8	µg/m ³	60.0
2.	Particulate Matter (PM10)	IS 5182 (Part-23)	62.8	µg/m ³	100.0
3.	Sulphur Dioxide (SO ₂)	IS 5182 (Part-2)	13.8	µg/m ³	80.0
4.	Nitrogen Dioxides (NO ₂)	IS 5182 (Part-6)	25.6	µg/m ³	80.0
5.	Corban Monoxide (CO)	IS 5182 (Part-10)	0.62	mg/m ³	4.0

Page 1 of 1

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Dr. Ashok Kumar
Technical ManagerVirat Global Lab
Authorized Signatory

Authorised Signatory

D. K. Yadav
Lab In-charge

TEST REPORT (AMBIENT AIR)

Name and Address of Customer	: M/s. J K CEMENT WORKS, PANNA (A UNIT OF JK CEMENT LIMITED.) VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ, DISTT. - PANNA, 488441 (M.P)
Sampling Location	: KAMTANA VILLAGE
Duration of Sampling	: 11.01.2024 TO 12.01.2024
Time of Sampling	: 11:20 AM TO 10:20 AM
Sampling Done by	: VIRENDRA KUMAR & RAHUL
Packing Condition	: SEALED
Sample Id No.	: 019
Environmental Condition Temp.(°C) & RH (%)	: 21.5 & 62.0
Method of Sampling	: IS:5182
Sample Receiving Date	: 15.01.2024
Sample Processing Date	: 15.01.2024 TO 22.01.2024
Equipment Used	: RESPIRABLE DUST SAMPLER (PM 10) FINE PARTICULATE SAMPLER (PM 2.5)

TEST RESULTS

Sr. No.	Parameters	Test Method	Result	Unit	Specification / Limits (As per CPCB)
1.	Particulate Matter (PM2.5)	IS 5182 (Part-24)	35.6	µg/m ³	60.0
2.	Particulate Matter (PM10)	IS 5182 (Part-23)	74.5	µg/m ³	100.0
3.	Sulphur Dioxide (SO ₂)	IS 5182 (Part-2)	15.8	µg/m ³	80.0
4.	Nitrogen Dioxides (NO ₂)	IS 5182 (Part-6)	28.3	µg/m ³	80.0
5.	Corban Monoxide (CO)	IS 5182 (Part-10)	0.68	mg/m ³	4.0

Page 1 of 1

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Dr. Ashok Kumar
Technical ManagerVirat Global Lab
Authorized Signatory

Authorised SignatoryD. K. Yadav
Lab In-charge

TEST REPORT CODE: VGL/A/24/01/15/020

TEST REPORT ISSUE DATE: 22.01.2024

TEST REPORT (AMBIENT AIR)

Name and Address of Customer : M/s. J K CEMENT WORKS, PANNA
(A UNIT OF JK CEMENT LIMITED.)
VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ,
DISTT. - PANNA, 488441 (M.P)

Sampling Location : UDLA VILLAGE

Duration of Sampling : 11.01.2024 TO 12.01.2024

Time of Sampling : 11:45 AM TO 10:45 AM

Sampling Done by : VIRENDRA KUMAR & RAHUL

Packing Condition : SEALED

Sample Id No. : 020

Environmental Condition Temp.(°C) & RH (%) : 21.5 & 62.0

Method of Sampling : IS:5182

Sample Receiving Date : 15.01.2024

Sample Processing Date : 15.01.2024 TO 22.01.2024

Equipment Used : RESPIRABLE DUST SAMPLER (PM 10)
FINE PARTICULATE SAMPLER (PM 2.5)

TEST RESULTS

Sr. No.	Parameters	Test Method	Result	Unit	Specification / Limits (As per CPCB)
1.	Particulate Matter (PM2.5)	IS 5182 (Part-24)	31.9	µg/m ³	60.0
2.	Particulate Matter (PM10)	IS 5182 (Part-23)	67.8	µg/m ³	100.0
3.	Sulphur Dioxide (SO ₂)	IS 5182 (Part-2)	15.2	µg/m ³	80.0
4.	Nitrogen Dioxides (NO ₂)	IS 5182 (Part-6)	25.6	µg/m ³	80.0
5.	Corban Monoxide (CO)	IS 5182 (Part-10)	0.62	mg/m ³	4.0

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- The above results are related to the tested sample only.

Dr. Ashok Kumar
Technical ManagerVirat Global Lab
Authorized Signatory

Authorised Signatory

D. K. Yadav
Lab In-charge

TEST REPORT (AMBIENT AIR)

Name and Address of Customer	: M/s. J K CEMENT WORKS, PANNA (A UNIT OF JK CEMENT LIMITED.) VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ, DISTT. - PANNA, 488441 (M.P)
Sampling Location	: SOTIPURA VILLAGE
Duration of Sampling	: 11.01.2024 TO 12.01.2024
Time of Sampling	: 10:10 AM TO 09:10 AM
Sampling Done by	: VIRENDRA KUMAR & RAHUL
Packing Condition	: SEALED
Sample Id No.	: 021
Environmental Condition Temp.(°C) & RH (%)	: 21.5 & 62.0
Method of Sampling	: IS:5182
Sample Receiving Date	: 15.01.2024
Sample Processing Date	: 15.01.2024 TO 22.01.2024
Equipment Used	: RESPIRABLE DUST SAMPLER (PM 10) FINE PARTICULATE SAMPLER (PM 2.5)

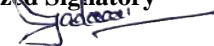
TEST RESULTS

Sr. No.	Parameters	Test Method	Result	Unit	Specification / Limits (As per CPCB)
1.	Particulate Matter (PM2.5)	IS 5182 (Part-24)	28.6	µg/m ³	60.0
2.	Particulate Matter (PM10)	IS 5182 (Part-23)	62.8	µg/m ³	100.0
3.	Sulphur Dioxide (SO ₂)	IS 5182 (Part-2)	14.8	µg/m ³	80.0
4.	Nitrogen Dioxides (NO ₂)	IS 5182 (Part-6)	24.7	µg/m ³	80.0
5.	Corban Monoxide (CO)	IS 5182 (Part-10)	0.52	mg/m ³	4.0

Page 1 of 1

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

Dr. Ashok Kumar
Technical ManagerVirat Global Lab
Authorized Signatory
Authorised SignatoryD. K. Yadav
Lab In-charge

TEST REPORT CODE: VGL/A/24/01/15/022

TEST REPORT ISSUE DATE: 22.01.2024

TEST REPORT (AMBIENT AIR)

Name and Address of Customer : M/s. J K CEMENT WORKS, PANNA
(A UNIT OF JK CEMENT LIMITED.)
VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ,
DISTT. - PANNA, 488441 (M.P)

Sampling Location : HINAUTA VILLAGE

Duration of Sampling : 11.01.2024 TO 12.01.2024

Time of Sampling : 10:10 AM TO 09:10 AM

Sampling Done by : VIRENDRA KUMAR & RAHUL

Packing Condition : SEALED

Sample Id No. : 022

Environmental Condition Temp.(°C) & RH (%) : 21.5 & 62.0

Method of Sampling : IS:5182

Sample Receiving Date : 15.01.2024

Sample Processing Date : 15.01.2024 TO 22.01.2024

Equipment Used : RESPIRABLE DUST SAMPLER (PM 10)
FINE PARTICULATE SAMPLER (PM 2.5)

TEST RESULTS

Sr. No.	Parameters	Test Method	Result	Unit	Specification / Limits (As per CPCB)
1.	Particulate Matter (PM2.5)	IS 5182 (Part-24)	34.5	µg/m ³	60.0
2.	Particulate Matter (PM10)	IS 5182 (Part-23)	62.8	µg/m ³	100.0
3.	Sulphur Dioxide (SO ₂)	IS 5182 (Part-2)	16.3	µg/m ³	80.0
4.	Nitrogen Dioxides (NO ₂)	IS 5182 (Part-6)	28.6	µg/m ³	80.0
5.	Corban Monoxide (CO)	IS 5182 (Part-10)	0.68	mg/m ³	4.0

Page 1 of 1

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Dr. Ashok Kumar
Technical ManagerVirat Global Lab
Authorized Signatory

Authorized Signatory

D. K. Yadav
Lab In-charge

TEST REPORT (AMBIENT AIR)

Name and Address of Customer	: M/s. J K CEMENT WORKS, PANNA (A UNIT OF JK CEMENT LIMITED.) VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ, DISTT. - PANNA, 488441 (M.P)
Sampling Location	: PURWA VILLAGE
Duration of Sampling	: 12.01.2024 TO 13.01.2024
Time of Sampling	: 9:20 AM TO 08:20 AM
Sampling Done by	: VIRENDRA KUMAR & RAHUL
Packing Condition	: SEALED
Sample Id No.	: 023
Environmental Condition Temp.(°C) & RH (%)	: 21.5 & 62.0
Method of Sampling	: IS:5182
Sample Receiving Date	: 15.01.2024
Sample Processing Date	: 15.01.2024 TO 22.01.2024
Equipment Used	: RESPIRABLE DUST SAMPLER (PM 10) FINE PARTICULATE SAMPLER (PM 2.5)

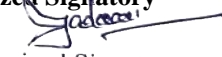
TEST RESULTS

Sr. No.	Parameters	Test Method	Result	Unit	Specification / Limits (As per CPCB)
1.	Particulate Matter (PM2.5)	IS 5182 (Part-24)	30.2	µg/m ³	60.0
2.	Particulate Matter (PM10)	IS 5182 (Part-23)	60.7	µg/m ³	100.0
3.	Sulphur Dioxide (SO ₂)	IS 5182 (Part-2)	10.2	µg/m ³	80.0
4.	Nitrogen Dioxides (NO ₂)	IS 5182 (Part-6)	18.4	µg/m ³	80.0
5.	Corban Monoxide (CO)	IS 5182 (Part-10)	0.45	mg/m ³	4.0

Page 1 of 1

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4. The above results are related to the tested sample only.

Dr. Ashok Kumar
Technical ManagerVirat Global Lab
Authorized Signatory
Authorised SignatoryD. K. Yadav
Lab In-charge

TEST REPORT CODE: VGL/A/24/01/15/024

TEST REPORT ISSUE DATE: 22.01.2024

TEST REPORT (AMBIENT AIR)

Name and Address of Customer : M/s. J K CEMENT WORKS, PANNA
(A UNIT OF JK CEMENT LIMITED.)
VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ,
DISTT. - PANNA, 488441 (M.P)

Sampling Location : BHUPATPURA VILLAGE

Duration of Sampling : 12.01.2024 TO 13.01.2024

Time of Sampling : 9:40 AM TO 08:40 AM

Sampling Done by : VIRENDRA KUMAR & RAHUL

Packing Condition : SEALED

Sample Id No. : 024

Environmental Condition Temp.(°C) & RH (%) : 21.5 & 62.0

Method of Sampling : IS:5182

Sample Receiving Date : 15.01.2024

Sample Processing Date : 15.01.2024 TO 22.01.2024

Equipment Used : RESPIRABLE DUST SAMPLER (PM 10)
FINE PARTICULATE SAMPLER (PM 2.5)

TEST RESULTS

Sr. No.	Parameters	Test Method	Result	Unit	Specification / Limits (As per CPCB)
1.	Particulate Matter (PM2.5)	IS 5182 (Part-24)	35.2	µg/m ³	60.0
2.	Particulate Matter (PM10)	IS 5182 (Part-23)	68.5	µg/m ³	100.0
3.	Sulphur Dioxide (SO ₂)	IS 5182 (Part-2)	16.3	µg/m ³	80.0
4.	Nitrogen Dioxides (NO ₂)	IS 5182 (Part-6)	24.8	µg/m ³	80.0
5.	Corban Monoxide (CO)	IS 5182 (Part-10)	0.54	mg/m ³	4.0

Page 1 of 1

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

Dr. Ashok Kumar
Technical ManagerVirat Global Lab
Authorized Signatory

Authorized SignatoryD. K. Yadav
Lab In-charge

TEST REPORT CODE: VGL/A/24/01/15/025

TEST REPORT ISSUE DATE: 22.01.2024

TEST REPORT (AMBIENT AIR)

Name and Address of Customer : M/s. J K CEMENT WORKS, PANNA
(A UNIT OF JK CEMENT LIMITED.)
VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ,
DISTT. - PANNA, 488441 (M.P)

Sampling Location : MOHADKH VILLAGE

Duration of Sampling : 12.01.2024 TO 13.01.2024

Time of Sampling : 9:55 AM TO 08:55 AM

Sampling Done by : VIRENDRA KUMAR & RAHUL

Packing Condition : SEALED

Sample Id No. : 025

Environmental Condition Temp.(°C) & RH (%) : 21.5 & 62.0

Method of Sampling : IS:5182

Sample Receiving Date : 15.01.2024

Sample Processing Date : 15.01.2024 TO 22.01.2024

Equipment Used : RESPIRABLE DUST SAMPLER (PM 10)
FINE PARTICULATE SAMPLER (PM 2.5)

TEST RESULTS

Sr. No.	Parameters	Test Method	Result	Unit	Specification / Limits (As per CPCB)
1.	Particulate Matter (PM2.5)	IS 5182 (Part-24)	32.5	µg/m ³	60.0
2.	Particulate Matter (PM10)	IS 5182 (Part-23)	63.8	µg/m ³	100.0
3.	Sulphur Dioxide (SO ₂)	IS 5182 (Part-2)	13.8	µg/m ³	80.0
4.	Nitrogen Dioxides (NO ₂)	IS 5182 (Part-6)	22.1	µg/m ³	80.0
5.	Corban Monoxide (CO)	IS 5182 (Part-10)	0.52	mg/m ³	4.0

Page 1 of 1

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4. The above results are related to the tested sample only.

Dr. Ashok Kumar
Technical ManagerVirat Global Lab
Authorized Signatory

Authorised Signatory

D. K. Yadav
Lab In-charge

TEST REPORT (AMBIENT AIR)

Name and Address of Customer	: M/s. J K CEMENT WORKS, PANNA (A UNIT OF JK CEMENT LIMITED.) VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ, DISTT. - PANNA, 488441 (M.P)
Sampling Location	: UMERI VILLAGE
Duration of Sampling	: 12.01.2024 TO 13.01.2024
Time of Sampling	: 10:20 AM TO 09:20 AM
Sampling Done by	: VIRENDRA KUMAR & RAHUL
Packing Condition	: SEALED
Sample Id No.	: 026
Environmental Condition Temp.(°C) & RH (%)	: 21.5 & 62.0
Method of Sampling	: IS:5182
Sample Receiving Date	: 15.01.2024
Sample Processing Date	: 15.01.2024 TO 22.01.2024
Equipment Used	: RESPIRABLE DUST SAMPLER (PM 10) FINE PARTICULATE SAMPLER (PM 2.5)

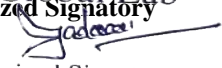
TEST RESULTS

Sr. No.	Parameters	Test Method	Result	Unit	Specification / Limits (As per CPCB)
1.	Particulate Matter (PM2.5)	IS 5182 (Part-24)	30.8	µg/m ³	60.0
2.	Particulate Matter (PM10)	IS 5182 (Part-23)	62.7	µg/m ³	100.0
3.	Sulphur Dioxide (SO ₂)	IS 5182 (Part-2)	15.4	µg/m ³	80.0
4.	Nitrogen Dioxides (NO ₂)	IS 5182 (Part-6)	22.6	µg/m ³	80.0
5.	Corban Monoxide (CO)	IS 5182 (Part-10)	0.62	mg/m ³	4.0

Page 1 of 1

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Dr. Ashok Kumar
Technical ManagerVirat Global Lab
Authorized Signatory
Authorised SignatoryD. K. Yadav
Lab In-charge

TEST REPORT CODE: VGL/A/24/01/15/027

TEST REPORT ISSUE DATE: 22.01.2024

TEST REPORT (AMBIENT AIR)

Name and Address of Customer : M/s. J K CEMENT WORKS, PANNA
(A UNIT OF JK CEMENT LIMITED.)
VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ,
DISTT. - PANNA, 488441 (M.P)

Sampling Location : **HARDUA VILLAGE**

Duration of Sampling : 12.01.2024 TO 13.01.2024

Time of Sampling : 10:35 AM TO 09:35 AM

Sampling Done by : VIRENDRA KUMAR & RAHUL

Packing Condition : SEALED

Sample Id No. : 027

Environmental Condition Temp.(°C) & RH (%) : 21.5 & 62.0

Method of Sampling : IS:5182

Sample Receiving Date : 15.01.2024

Sample Processing Date : 15.01.2024 TO 22.01.2024

Equipment Used : RESPIRABLE DUST SAMPLER (PM 10)
FINE PARTICULATE SAMPLER (PM 2.5)

TEST RESULTS

Sr. No.	Parameters	Test Method	Result	Unit	Specification / Limits (As per CPCB)
1.	Particulate Matter (PM2.5)	IS 5182 (Part-24)	28.6	µg/m ³	60.0
2.	Particulate Matter (PM10)	IS 5182 (Part-23)	61.8	µg/m ³	100.0
3.	Sulphur Dioxide (SO ₂)	IS 5182 (Part-2)	14.2	µg/m ³	80.0
4.	Nitrogen Dioxides (NO ₂)	IS 5182 (Part-6)	25.3	µg/m ³	80.0
5.	Corban Monoxide (CO)	IS 5182 (Part-10)	0.61	mg/m ³	4.0

Page 1 of 1

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Dr. Ashok Kumar
Technical ManagerVirat Global Lab
Authorized Signatory

Authorized Signatory

D. K. Yadav
Lab In-charge

TEST REPORT CODE: VGL/FE/23/11/30/009

TEST REPORT ISSUE DATE: 07.12.2023

TEST REPORT (FUGITIVE EMISSION)

Name & Address of Customer : M/s. J K CEMENT WORKS, PANNA,
(A UNIT OF JK CEMENT LIMITED.)
VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ,
DISTT. - PANNA, (M.P)

Sampling Location : NEAR PIT KAKRA MINE

Duration of Sampling : 28.11.2023 TO 28.11.2023

Time of Sampling : 9:35 AM TO 5:55 PM

Sample Done By : ASHISH KUMAR & RAHUL

Packing Condition : SEALED

Environmental Condition : TEMP.(⁰C)- 27.5 & RH (%) - 60.0

Method of Sampling : IS:5182

Sample Receiving Date : 30.11.2023

Sample Processing Date : 30.11.2023 TO 07.12.2023

Equipment Used : HIGH VALUME SAMPLER

TEST RESULTS

SL. NO.	PARAMETERS	TEST METHOD	RESULTS	UNIT	SPECIFICATION / LIMIT (AS PER CPCB)
1	Suspended Particulate Matter (SPM)	IS 5182 (Part-4)	208.4	µg/m ³	600

Page 1 of 1

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- The above results are related to the tested sample only.

Review By:

Dr. Ashok Kumar
Technical ManagerVirat Global Lab
Authorized Signatory

Authorised Signatory

D. K. Yadav
Lab In-charge

TEST REPORT (FUGITIVE EMISSION)

Name & Address of Customer : **M/s. J K CEMENT WORKS, PANNA,**
(A UNIT OF JK CEMENT LIMITED.)
VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ,
DISTT. - PANNA, (M.P)

Sampling Location : **NEAR KAKRA MINE CRUSHER**

Duration of Sampling : 28.11.2023 TO 28.11.2023

Time of Sampling : 09:50 AM TO 5:50 PM

Sample Done By : ASHISH KUMAR & RAHUL

Packing Condition : SEALED

Environmental Condition : TEMP.(⁰C)- 27.5 & RH (%) - 60.0

Method of Sampling : IS:5182

Sample Receiving Date : 30.11.2023

Sample Processing Date : 30.11.2023 TO 07.12.2023

Equipment Used : RESPIRABLE DUST SAMPLER

TEST RESULTS

SL. NO.	PARAMETERS	TEST METHOD	RESULTS	UNIT	SPECIFICATION / LIMIT (AS PER CPCB)
1	Suspended Particulate Matter (SPM)	IS 5182 (Part-4)	265.2	µg/m ³	600

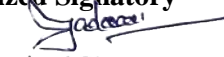
Page 1 of 1

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Review By:

Dr. Ashok Kumar
Technical Manager

Virat Global Lab
Authorized Signatory
Authorised Signatory

D. K. Yadav
Lab In-charge

TEST REPORT (FUGITIVE EMISSION)

Name & Address of Customer : **M/s. J K CEMENT WORKS, PANNA,
(A UNIT OF JK CEMENT LIMITED.)
VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ,
DISTT. - PANNA, (M.P)**

Sampling Location : **KAKRA MINE NEAR SECURITY CABIN**

Duration of Sampling : **28.11.2023 TO 29.11.2023**

Time of Sampling : **6:35 PM TO 2:35 AM**

Sample Done By : **ASHISH KUMAR & RAHUL**

Packing Condition : **SEALED**

Environmental Condition : **TEMP.(°C)- 26.5 & RH (%) - 60.0**

Method of Sampling : **IS:5182**

Sample Receiving Date : **30.11.2023**

Sample Processing Date : **30.11.2023 TO 07.12.2023**

Equipment Used : **HIGH VALUME SAMPLER**

TEST RESULTS

SL. NO.	PARAMETERS	TEST METHOD	RESULTS	UNIT	SPECIFICATION / LIMIT (AS PER CPCB)
1	Suspended Particulate Matter (SPM)	IS 5182 (Part-4)	208.6	µg/m ³	600

Page 1 of 1

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Review By:Dr. Ashok Kumar
Technical Manager**Virat Global Lab
Authorized Signatory**

Authorised Signatory

D. K. Yadav
Lab In-charge

TEST REPORT (FUGITIVE EMISSION)

Name & Address of Customer : **M/s. J K CEMENT WORKS, PANNA,**
(A UNIT OF JK CEMENT LIMITED.)
VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ,
DISTT. - PANNA, (M.P)

Sampling Location : **NEAR KAKRA MINE BACK SIDE**

Duration of Sampling : 28.11.2023 TO 29.11.2023

Time of Sampling : 06:50 PM TO 2:50 AM

Sample Done By : ASHISH KUMAR & RAHUL

Packing Condition : SEALED

Environmental Condition : TEMP.(°C)- 26.5 & RH (%) - 60.0

Method of Sampling : IS:5182

Sample Receiving Date : 30.11.2023

Sample Processing Date : 30.11.2023 TO 07.12.2023

Equipment Used : RESPIRABLE DUST SAMPLER

TEST RESULTS

SL. NO.	PARAMETERS	TEST METHOD	RESULTS	UNIT	SPECIFICATION / LIMIT (AS PER CPCB)
1	Suspended Particulate Matter (SPM)	IS 5182 (Part-4)	238.8	µg/m ³	600

Page 1 of 1

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4. The above results are related to the tested sample only.

Review By:

Dr. Ashok Kumar
Technical ManagerVirat Global Lab
Authorized Signatory

Authorized Signatory

D. K. Yadav
Lab In-charge

TEST REPORT (FUGITIVE EMISSION)

Name & Address of Customer : **M/s. J K CEMENT WORKS, PANNA,
(A UNIT OF JK CEMENT LIMITED.)
VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ,
DISTT. - PANNA, (M.P)**

Sampling Location : **NEAR OFFINE KAKRA MINE**

Duration of Sampling : 29.11.2023 TO 29.11.2023

Time of Sampling : 09:20 AM TO 5:20 PM

Sample Done By : ASHISH KUMAR & RAHUL

Packing Condition : SEALED

Environmental Condition : TEMP.(°C)- 27.7 & RH (%) - 60.0

Method of Sampling : IS:5182

Sample Receiving Date : 30.11.2023

Sample Processing Date : 30.11.2023 TO 07.12.2023

Equipment Used : RESPIRABLE DUST SAMPLER

TEST RESULTS

SL. NO.	PARAMETERS	TEST METHOD	RESULTS	UNIT	SPECIFICATION / LIMIT (AS PER CPCB)
1	Suspended Particulate Matter (SPM)	IS 5182 (Part-4)	254.8	µg/m ³	600

Page 1 of 1

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4. The above results are related to the tested sample only.

Review By:Dr. Ashok Kumar
Technical Manager**Virat Global Lab
Authorized Signatory**

Authorized Signatory

D. K. Yadav
Lab In-charge

TEST REPORT (FUGITIVE EMISSION)

Name & Address of Customer : M/s. J K CEMENT WORKS, PANNA,
(A UNIT OF JK CEMENT LIMITED.)
VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ,
DISTT. - PANNA, (M.P)

Sampling Location : NEAR PIT KAKRA MINE

Duration of Sampling : 10.01.2024 TO 10.01.2024

Time of Sampling : 9:20 AM TO 5:20 PM

Sample Done By : ASHISH KUMAR & RAHUL

Packing Condition : SEALED

Environmental Condition : TEMP.(°C)- 21.5 & RH (%) - 62.0

Method of Sampling : IS:5182

Sample Receiving Date : 15.01.2024

Sample Processing Date : 15.01.2024 TO 22.01.2024

Equipment Used : HIGH VALUME SAMPLER

TEST RESULTS

SL. NO.	PARAMETERS	TEST METHOD	RESULTS	UNIT	SPECIFICATION / LIMIT (AS PER CPCB)
1	Suspended Particulate Matter (SPM)	IS 5182 (Part-4)	254.8	µg/m ³	600

Page 1 of 1

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Dr. Ashok Kumar
Technical ManagerVirat Global Lab
Authorized Signatory

Authorized Signatory

D. K. Yadav
Lab In-charge

TEST REPORT (FUGITIVE EMISSION)

Name & Address of Customer : M/s. J K CEMENT WORKS, PANNA,
(A UNIT OF JK CEMENT LIMITED.)
VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ,
DISTT. - PANNA, (M.P)

Sampling Location : NEAR KAKRA MINE CRUSHER

Duration of Sampling : 10.01.2024 TO 10.01.2024

Time of Sampling : 9:40 AM TO 5:40 PM

Sample Done By : ASHISH KUMAR & RAHUL

Packing Condition : SEALED

Environmental Condition : TEMP.(°C)- 21.5 & RH (%) - 62.0

Method of Sampling : IS:5182

Sample Receiving Date : 15.01.2024

Sample Processing Date : 15.01.2024 TO 22.01.2024

Equipment Used : HIGH VALUME SAMPLER


TEST RESULTS

SL. NO.	PARAMETERS	TEST METHOD	RESULTS	UNIT	SPECIFICATION / LIMIT (AS PER CPCB)
1	Suspended Particulate Matter (SPM)	IS 5182 (Part-4)	275.8	µg/m3	600

Page 1 of 1

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Dr. Ashok Kumar
Technical ManagerVirat Global Lab
Authorized Signatory
Authorised SignatoryD. K. Yadav
Lab In-charge

TEST REPORT (FUGITIVE EMISSION)

Name & Address of Customer : **M/s. J K CEMENT WORKS, PANNA,
(A UNIT OF JK CEMENT LIMITED.)
VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ,
DISTT. - PANNA, (M.P)**

Sampling Location : **KAKRA MINE NEAR SECURITY CABIN**

Duration of Sampling : 10.01.2024 TO 11.01.2024

Time of Sampling : 6:30 PM TO 2:30 AM

Sample Done By : ASHISH KUMAR & RAHUL

Packing Condition : SEALED

Environmental Condition : TEMP.(°C)- 21.5 & RH (%) - 62.0

Method of Sampling : IS:5182

Sample Receiving Date : 15.01.2024

Sample Processing Date : 15.01.2024 TO 22.01.2024

Equipment Used : HIGH VALUME SAMPLER

TEST RESULTS

SL. NO.	PARAMETERS	TEST METHOD	RESULTS	UNIT	SPECIFICATION / LIMIT (AS PER CPCB)
1	Suspended Particulate Matter (SPM)	IS 5182 (Part-4)	252.8	µg/m ³	600

Page 1 of 1

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- The above results are related to the tested sample only.

Dr. Ashok Kumar
Technical ManagerVirat Global Lab
Authorized Signatory

Authorised SignatoryD. K. Yadav
Lab In-charge

TEST REPORT (FUGITIVE EMISSION)

Name & Address of Customer : M/s. J K CEMENT WORKS, PANNA,
(A UNIT OF JK CEMENT LIMITED.)
VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ,
DISTT. - PANNA, (M.P)

Sampling Location : NEAR KAKRA MINE BACK SIDE

Duration of Sampling : 10.01.2024 TO 11.01.2024

Time of Sampling : 6:55 PM TO 2:55 AM

Sample Done By : ASHISH KUMAR & RAHUL

Packing Condition : SEALED

Environmental Condition : TEMP.(°C)- 21.5 & RH (%) - 62.0

Method of Sampling : IS:5182

Sample Receiving Date : 15.01.2024

Sample Processing Date : 15.01.2024 TO 22.01.2024

Equipment Used : HIGH VALUME SAMPLER

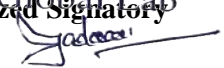
TEST RESULTS

SL. NO.	PARAMETERS	TEST METHOD	RESULTS	UNIT	SPECIFICATION / LIMIT (AS PER CPCB)
1	Suspended Particulate Matter (SPM)	IS 5182 (Part-4)	285.6	µg/m ³	600

Page 1 of 1

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Dr. Ashok Kumar
Technical ManagerVirat Global Lab
Authorized Signatory
Authorised SignatoryD. K. Yadav
Lab In-charge

TEST REPORT (FUGITIVE EMISSION)

Name & Address of Customer : **M/s. J K CEMENT WORKS, PANNA,
(A UNIT OF JK CEMENT LIMITED.)
VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ,
DISTT. - PANNA, (M.P)**

Sampling Location : **NEAR OFFINE KAKRA MINE**

Duration of Sampling : 11.01.2024 TO 12.01.2024

Time of Sampling : 9:30 AM TO 5:30 PM

Sample Done By : ASHISH KUMAR & RAHUL

Packing Condition : SEALED

Environmental Condition : TEMP.(°C)- 21.5 & RH (%) - 62.0

Method of Sampling : IS:5182

Sample Receiving Date : 15.01.2024

Sample Processing Date : 15.01.2024 TO 22.01.2024

Equipment Used : HIGH VALUME SAMPLER

TEST RESULTS

SL. NO.	PARAMETERS	TEST METHOD	RESULTS	UNIT	SPECIFICATION / LIMIT (AS PER CPCB)
1	Suspended Particulate Matter (SPM)	IS 5182 (Part-4)	268.9	µg/m ³	600

Page 1 of 1

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Dr. Ashok Kumar
Technical ManagerVirat Global Lab
Authorized Signatory
Authorised SignatoryD. K. Yadav
Lab In-charge

TEST REPORT CODE: VGL/WL/24/01/15/01-36

TEST REPORT ISSUE DATE: 22.01.2024

WATER LEVEL MONITORING REPORT

Name And Address of Customer : **M/s. J K CEMENT WORKS, PANNA,**
(A UNIT OF JK CEMENT LIMITED.)
VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ,
DISTT. - PANNA, (M.P)

Date of Monitoring : 10.01.2024 TO 12.01.2024
Monitoring Done By : VGL STAFF

RESULT

Sl.N	Location	Person Name	Location(dd°mm'ss")		Water Level (Below Ground Level)- Meter
			Latitude (N)	Longitude (E)	
1	Puraina Village Borewell	Vishwa Nath Sahu	24.314232	79.975905	10.30
2	Tighara Village Borewell	Brij Mohan Singh	24.294028	79.963214	9.50
3	Tighara Village Borewell	Sandeep	24.294027	79.963213	9.50
4	Sanaura Village Dugwell	Siyaram Patel	24.418861	79.97881	6.10
5	Kamtana Village Dugwell	Govt.	24.384879	79.958523	21.30
6	Kamtana Village Dugwell	Govt.	24.383922	79.958833	18.50
7	Kamtana Village Dugwell	Govt.	24.386512	79.958723	16.30
8	Kamtana Village Borewell	Rajrendra Singh	24.383429	79.959408	12.30
9	Kamtana Village Borewell	Pawan Kumar Khare	24.383367	79.959541	19.90
10	Kamtana Village Borewell	Monoj Khampariya	24.383362	79.958243	21.10
11	Kamtana Village Borewell	Ramfal Dubey	24.383732	79.958729	22.30
12	Kamtana Village Borewell	ChandraBhansen	24.384587	79.958502	24.80
13	Singhaura Village Borewell	Govt. School	24.404519	79.935819	46.20
14	Sirshi patna Village Borewell	Govt.	24.388487	79.906193	25.10
15	Sirshi patna Village Dugwell	Govt.	24.387825	79.906517	10.00
16	Sunwani Kalan Borewell	Kanchhedi Lal Pathak	24.358643	79.888548	18.30
17	Sunwani Khurd Borewell	Govt.	24.361943	79.920049	17.50
18	Simra Khurd Borewell	Dhani Ram Dhai	24.351478	79.912537	36.10
19	Banbhai Borewell	Arvind	24.329875	79.899603	12.50
20	Maharajganj Borewell	Govt.	24.305336	79.894123	12.40

21	Karia Borewell	Govt.	24.263893	79.981769	10.50
22	Karia Dugwell	Ramchandra Tiwari	24.3636552	79.982056	5.50
23	Umri Village Borewell	Bijju Chaoudhari	24.26652	79.936928	8.20
24	Umri Village Dugwell	Govt.	24.266701	79.936928	4.0
25	Palohi village Borewell	Govt. School	24.265933	79.960298	9.20
26	Palohi village Dugwell	Darbari Rajak	24.265717	79.96011	5.20
27	Mahod Kalan Village Dugwell	Govt.	24.279306	80.017584	8.90
28	Mahod Kalan Village Borewell	Jitentra Singh	24.279386	80.017659	10.20
29	Bhupat Pura Borewell	Near Main Road	24.42591346	80.01900857	6.80
30	Simariya Village Borewell	Dangal Prasad Balmiki	24.28162146	79.89725613	8.90
31	Boda Village Dugwell	Govt. Near Temple	24.1741964	79.572004	2.70
32	Guda Village Borewell	Govt.	24.30541246	79.89403365	11.20
33	Guda Village Borewell	Charan Das Ray	24.32400349	79.88198007	12.40
34	Koni Village Borewell	Kallu Bhai	24.33056234	79.90068975	10.10
35	Koni village Borewell	Naresh patel	24.33057235	79.90068783	10.80
36	Maharajganj Borewell	Govt.	24.305336	79.894123	11.20

Page 1 of 2

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Review By:



D. Ashok Kumar
Technical Manager

Authorized Signatory
Virat Global Lab



Authorised Signatory
D. K. Yadav
Lab In-charge

TEST REPORT CODE: VGL/WL/24/01/15/37-86

TEST REPORT ISSUE DATE: 22.01.2024

WATER LEVEL MONITORING REPORT

Name And Address of Customer : **M/s. J K CEMENT WORKS, PANNA,
(A UNIT OF JK CEMENT LIMITED.)**
VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ,
DISTT. - PANNA, (M.P)

Date of Monitoring : 10.01.2024 TO 12.01.2024
Monitoring Done By : VGL STAFF

RESULT

Sl.N	Location	Person Name	Location(dd ⁰ mm'ss'')		Water Level (Below Ground Level)- Meter
			Latitude (N)	Longitude (E)	
37	Bamhori Village Borewell	Ram Saran	24.33664463	80.0380059	19.90
38	Bamhori Village Dugwell	Govt.	24.31678	80.104644	4.90
39	Bamhori Village Borewell	Pyare Lal Vish karma	24.33536802	80.03276469	20.80
40	Bamhori Village borewell	Raj Kumar	24.33725971	80.03266198	9.90
41	Bamhori Village borewell	Raj Kumar	24.33684576	80.03796254	13.60
42	Jharkuwa Village Dugwell	Govt.	24.35447818	80.04507126	16.20
43	Jharkuwa Village Borewell	Durjna Prasad	24.35393729	80.04480821	16.80
44	Itauri Village Borewell	Ramshay	24.36419376	80.04177377	7.40
45	Itauri Village Borewell	Daj Narayan	24.36641386	80.04199907	8.30
46	Itauri Village Borewell	Govt.	24.39039877	80.03923784	7.80
47	Itauri Village Dug well	Ghanshyam Pandey	24.39055834	80.04011205	9.15
48	Amanganj Borewell	Kalpna Palace	24.4241417	80.0342961	10.50
49	Amanganj Borewell	Govt. Near Tigadda	24.41839209	80.0331857	10.20
50	Amanganj Borewell	Saduwa Chaoudhari	24.42437250	80.0332154	16.50
51	Hinauta Borewell	Govt. School	24.388563	80.01382649	20.00
52	Hinauta Dugwell	Govt.	24.38684007	80.01410258	6.00
53	Hinauta Dugwell	Brij Lal Kushwaha	24.3869625	80.01445089	7.20
54	Madaiyan Borewell	Amit Goswami	24.3870598	80.01344178	7.30
55	Madaiyan Dugwell	Govt.	24.37842479	80.01052868	6.10
56	Deora Village Dugwell	Govt.	24.33662268	79.96825672	6.20
57	Deora Village Dugwell	Govt.	24.33851758	79.97188548	6.10
58	Deora Village Dugwell	Govt.	24.34473355	79.97200211	4.20
59	Deora Village Dugwell	Govt.	24.3466679	79.9949703	4.40
60	Deora Village Dugwell	Govt.	24.34655777	79.97239277	3.80
61	Deora Village Borewell	Near Road	24.33232328	79.98093834	8.10
62	Deora Village Borewell	Govt. Near Panchayat	24.33838338	79.97177768	8.80

63	Deora Village Borewell	Brindavan Tiwari	24.33876411	79.97214955	9.90
64	Deora Village Borewell	Salikram Tiwari	24.34175291	79.97189798	9.30
65	Deora Village Borewell	Govt. Near Tample	24.34152108	79.97203621	8.85
66	Deora Village Borewell	Kishun Dash	24.34478814	79.97198335	6.30
67	Deora Village Borewell	Ramcharan pyashi	24.34486148	79.97133575	7.10
68	Deora Village Borewell	Balram singh	24.34566888	79.97181327	8.20
69	Deora Village Borewell	Harnam singh	24.3322903	98.124707	6.90
70	Deora Village Borewell	Govt. Near Hanuman Tample	24.34567758	79.97174564	6.50
71	Deora Village Borewell	Ashish Pathak	24.3403033	79.9876304	7.40
72	Purwa Village Borewell	Khet	24.33599338	79.9635235	9.00
73	Purwa Village Borewell	Khet	24.33780336	79.95513308	16.00
74	Purwa Village Borewell	Shiv Kumar	24.3469887	79.9610619	4.70
75	Kakra Village Borewell	Govt.	24.35772144	79.94992569	7.80
76	Kakra Village Borewell	Vijay Lodhi	24.35553216	79.95064759	8.50
77	Kakra Village Borewell	Kali Charan Sen	24.35570297	79.94977787	6.80
78	Kakra Village Borewell	Ganga Ram	24.3821511	79.9099998	9.15
79	Kakra Village Borewell	Shiv Kishor Tiwari	24.35030255	79.95552624	8.40
80	Kakra Village Dugwell	Ashok Kumar Tiwari	24.33904669	79.97119546	4.30
81	Kakra Village Borewell	Neeraj Lodhi	24.352488	79.950509	8.40
82	Kakra Village Borewell	Rajendra Tiwari	24.355165	79.950488	4.30
83	Kakra Village Borewell	Vishnu Kant Sen	24.356175	79.951568	8.40
84	Kakra Village Borewell	Prem Das Kushwaha	24.355189	79.951453	4.30
85	Kakra Village Borewell	Battu lal	24.3524422	79.9095892	8.40
86	Kakra Village Dugwell	Govt.	24.356529	79.952143	6.80

Page 1 of 2

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Dr. Ashok Kumar
Technical Manager

Virat Global Lab
Authorised Signatory



Authorised Signatory

D. K. Yadav
Lab In-charge

TEST REPORT CODE: VGL/ WL/24/01/15/87-103

TEST REPORT ISSUE DATE: 22.01.2024

WATER LEVEL MONITORING REPORT

Name And Address of Customer : M/s. J K CEMENT WORKS, PANNA,
(A UNIT OF JK CEMENT LIMITED.)
VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ,
DISTT. - PANNA, (M.P)

Date of Monitoring : 10.01.2024 TO 12.01.2024
Monitoring Done By : VGL STAFF

RESULT

Sl.N	Location	Person Name	Location(dd°mm'ss")		Water Level (Below Ground Level)- Meter
			Latitude (N)	Longitude (E)	
87	Bilha Village borewell	Rohit Tiwari	24.383448	79.999435	5.30
88	Jhagra Village Borewell	Dwarika Patel	24.39795765	79.98435206	9.30
89	Dharampura Village Dug well	Govt.	24.39406932	79.98249481	7.80
90	Ramanpura Village Borewell	Cheta Chaoudhari	24.37941909	79.98398717	8.40
91	Saptaiya Village Borewell	Govt.	24.35658	80.053129	7.40
92	Saptaiya Village Borewell	Tunra Prasad Harwar	24.35787906	80.0650542	6.30
93	Judi Village Borewell	Bajrang Dairy	24.35797237	79.98952222	9.80
94	Judi Village Dug well	Keshav Pratap Singh	24.35762556	79.9909353	6.90
95	Judi Village Borewell	Prem Narayan Singh Tomer	24.35843427	79.99083729	8.95
96	Judi Village Borewell	Kripal Singh Chandel	24.35882056	79.99086533	9.10
97	Judi Village Borewell	Sahab Singh Chandel	24.35866387	79.99125347	8.40
98	Judi Village Borewell	Hiralal Kushwaha	24.3582755	79.99140577	10.30
99	Judi Village Borewell	Ram Dayal Kushwaha	24.35854074	79.99219464	5.53
100	Pgara village Borewell	Govt. Near School	24.35196983	79.99827417	5.20
101	Pgara village Dugwell	Govt.	24.35235402	79.99988624	8.00
102	Pgara village Dugwell	Sukhdev Dubey	24.35248791	80.00010214	5.80
103	Pgara village Borewell	Mohammad Khan	24.35103883	80.00003505	18.70

Page 1 of 2

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Dr. Ashok Kumar
Technical Manager

Authorized Signatory
Virat Global Lab

Authorised Signatory
D. K. Yadav
Lab In-charge

Address: Ground Floor, Khasra No.973, BDS Hostel Campus, Opp. Gate No.2 CRPF Camp, Bijnaur, Sarojini Nagar, Lucknow (U.P.) – 226008, Mob. - +91-9990366186, 9628147141, 9415135012

E-mail: viratgloballab@gmail.com, ceo.viratlab@gmail.com, Web: www.viratlab.com

TEST REPORT CODE: VGL/W/24/01/15/027

TEST REPORT ISSUE DATE: 22.01.2024

TEST REPORT (WATER)
PART – A (CHEMICAL)

Name and Address of Customer : M/s. J K CEMENT WORKS, PANNA,
(A UNIT OF JK CEMENT LIMITED.)
VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ,
DISTT. - PANNA, (M.P)

Location of Sample : KAKRA MINE (BOREWELL - 01)

Sample Description : GROUND WATER

Date & Time of Sampling : 13.01.2024 12:40 PM

Sample Collected by : MR. VIRENDRA KUMAR

Environmental Condition (Temp. & RH) : 21.6 °C & 65%

Sample Packing : SEALED

Sample Id No. : 027

Laboratory Sample Receiving Date : 15.01.2024

Duration of Sample Analysis : 15.01.2024 TO 22.01.2024

Method of Sampling : APHA 1060B & 9060A

TEST RESULTS

Sr. No.	Parameters	Test Method	Result	Unit	Limit as per IS 10500:1991 (Reaff:2012)	
					Desirable	Permissible
1.	pH at 25 °C	APHA 4500H+A+B	7.28	-	6.5-8.5	No relaxation
2.	Temperature	APHA 2550-A+B	24.5	°C	Not Specified	Not Specified
3.	Colour	APHA 2120-B	<5.0	Hazen	5	15
4.	Turbidity	APHA 2130-A+B	<1.0	NTU	1	5
5.	Odour	APHA 2150-B	Agreeable	-	Agreeable	Agreeable
6.	Alkalinity	APHA 2320-A+B	152.0	mg/L	200	600
7.	Total Dissolved Solids	APHA2540-C	395.0	mg/L	500	2000
8.	Total Hardness	APHA 2340 A+C	144.0	mg/L	200	600
9.	Calcium	APHA 3500 Ca- A+B	30.5	mg/L	75	200
10.	Magnesium	APHA 3500 Mg A+B	16.5	mg/L	30	100
11.	Sodium	APHA 3500 Na, A+B	17.0	mg/L	-	-
12.	Phosphate	APHA 4500-PD	BDL	mg/L	-	-
13.	Sulfate	APHA 4500-SO42- E	26.4	mg/L	200	400
14.	Potassium	APHA 3500 K, A+B	8.0	mg/L	-	-


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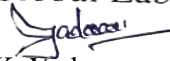
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- The above Results are related to the tested sample only.

Review By:

Dr. Anil Kumar
Technical Manager

**Authorized Signatory**
Virat Global Lab


D. K. Yadav
Authorized Signatory
Lab In-charge

TEST REPORT CODE: VGL/W/24/01/15/027

TEST REPORT ISSUE DATE: 22.01.2024

**TEST REPORT (WATER)
PART – A (CHEMICAL)**

TEST RESULTS

15.	Nitrate	APHA 4500-NO3- B	7.5	mg/L	45.0	-
16.	Free Residual Chlorine	APHA 4500-Cl B	<0.2	mg/L	0.2	1.0
17.	Chloride	APHA 4500 Cl A+B	39.5	mg/L	250	1000
18.	Boron	APHA 4500 B A+C	BDL	mg/L	0.5	1.0
19.	Copper	APHA 3111 A+B	BDL	mg/L	0.05	1.5
20.	Cadmium	APHA 3111 A+B	BDL	mg/L	0.003	No relaxation
21.	Iron	APHA 3500 Fe B	0.25	mg/L	0.3	No relaxation
22.	Lead	APHA 3111 A+B	BDL	mg/L	0.01	No relaxation
23.	Nickel	APHA 3111 A+B	BDL	mg/L	0.02	No relaxation
24.	Zinc	APHA 3111 A+B	BDL	mg/L	5	15
25.	Fluoride	APHA 4500-C	0.64	mg/L	1.0	1.5
26.	Hexavalent Chromium	APHA 3500 B	<0.05	mg/L	0.001	No relaxation
27.	Electrical Conductivity	APHA 2510 B	623	µS/cm	No relaxation	No relaxation

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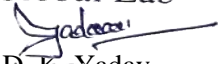
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Dr. Ashok Kumar
Technical Manager

Authorized Signatory
Virat Global Lab



D. K. Yadav
Authorized Signatory
Lab In-charge

TEST REPORT CODE: VGL/W/24/01/15/027

TEST REPORT ISSUE DATE: 22.01.2024


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

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

Page 3 of 3

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

Review By:Dr. Ashok Kumar
Technical Manager**Authorized Signatory****Virat Global Lab**
Authorized Signatory
Sayeed Ahmad
Quality Manager

TEST REPORT CODE: VGL/W/24/01/15/028

TEST REPORT ISSUE DATE: 22.01.2024

TEST REPORT (WATER)
PART – A (CHEMICAL)

Name and Address of Customer : M/s. J K CEMENT WORKS, PANNA,
(A UNIT OF JK CEMENT LIMITED.)
VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ,
DISTT. - PANNA, (M.P)

Location of Sample : KAKRA VILLAGE (HAND PUMP – 01)

Sample Description : GROUND WATER

Date & Time of Sampling : 13.01.2024 01:20 PM

Sample Collected by : MR. VIRENDRA KUMAR

Environmental Condition (Temp. & RH) : 21.4 °C & 65%

Sample Packing : SEALED

Sample Id No. : 028

Laboratory Sample Receiving Date : 15.01.2024

Duration of Sample Analysis : 15.01.2024 TO 22.01.2024

Method of Sampling : APHA 1060B & 9060A

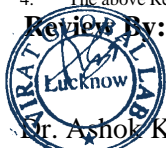
TEST RESULTS

Sr. No.	Parameters	Test Method	Result	Unit	Limit as per IS 10500:1991 (Reaff:2012)	
					Desirable	Permissible
1.	pH at 25 °C	APHA 4500H+A+B	7.51	-	6.5-8.5	No relaxation
2.	Temperature	APHA 2550-A+B	23.9	°C	Not Specified	Not Specified
3.	Colour	APHA 2120-B	<5.0	Hazen	5	15
4.	Turbidity	APHA 2130-A+B	<1.0	NTU	1	5
5.	Odour	APHA 2150-B	Agreeable	-	Agreeable	Agreeable
6.	Alkalinity	APHA 2320-A+ B	166.0	mg/L	200	600
7.	Total Dissolved Solids	APHA2540-C	458.0	mg/L	500	2000
8.	Total Hardness	APHA 2340 A+C	174.0	mg/L	200	600
9.	Calcium	APHA 3500 Ca- A+B	38.5	mg/L	75	200
10.	Magnesium	APHA 3500 Mg A+B	18.9	mg/L	30	100
11.	Sodium	APHA 3500 Na, A+B	24.0	mg/L	-	-
12.	Phosphate	APHA 4500-PD	BDL	mg/L	-	-
13.	Sulfate	APHA 4500-SO42- E	35.4	mg/L	200	400
14.	Potassium	APHA 3500 K, A+B	12.0	mg/L	-	-

Page 1 of 3

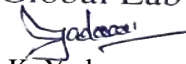
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- Any discrepancy in test result should be reported within 15Days.
- The above Results are related to the tested sample only.



Mr. Ashok Kumar
Technical Manager

Authorized Signatory
Virat Global Lab


D. K. Yadav
Authorized Signatory
Lab In-charge

TEST REPORT CODE: VGL/W/24/01/15/028

TEST REPORT ISSUE DATE: 22.01.2024

**TEST REPORT (WATER)
PART – A (CHEMICAL)**

TEST RESULTS

15.	Nitrate	APHA 4500-NO3- B	9.1	mg/L	45.0	-
16.	Free Residual Chlorine	APHA 4500-Cl B	<0.2	mg/L	0.2	1.0
17.	Chloride	APHA 4500 Cl A+B	46.0	mg/L	250	1000
18.	Boron	APHA 4500 B A+C	BDL	mg/L	0.5	1.0
19.	Copper	APHA 3111 A+B	BDL	mg/L	0.05	1.5
20.	Cadmium	APHA 3111 A+B	BDL	mg/L	0.003	No relaxation
21.	Iron	APHA 3500 Fe B	0.23	mg/L	0.3	No relaxation
22.	Lead	APHA 3111 A+B	BDL	mg/L	0.01	No relaxation
23.	Nickel	APHA 3111 A+B	BDL	mg/L	0.02	No relaxation
24.	Zinc	APHA 3111 A+B	BDL	mg/L	5	15
25.	Fluoride	APHA 4500-C	0.85	mg/L	1.0	1.5
26.	Hexavalent Chromium	APHA 3500 B	<0.05	mg/L	0.001	No relaxation
27.	Electrical Conductivity	APHA 2510 B	765	µS/cm	No relaxation	No relaxation

Page 2 of 3


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4. The above Results are related to the tested sample only.

Review By:


Dr. Ashok Kumar
Technical Manager

Authorized Signatory


Authorized Signatory
D. K. Yadav
Lab In-charge

TEST REPORT CODE: VGL/W/24/01/15/028

TEST REPORT ISSUE DATE: 22.01.2024


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

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

Page 3 of 3

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

Review By:Dr. Ashok Kumar
Technical Manager**Authorized Signatory
Virat Global Lab**
Authorized Signatory
Sayeed Ahmad
Quality Manager

TEST REPORT CODE: VGL/W/24/01/15/014

TEST REPORT ISSUE DATE: 22.01.2024

TEST REPORT (WATER)
PART – A (CHEMICAL)

Name and Address of Customer : M/s. J K CEMENT WORKS, PANNA,
(A UNIT OF JK CEMENT LIMITED.)
VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ,
DISTT. - PANNA, (M.P)

Location of Sample : SAPTAI VILLAGE

Sample Description : GROUND WATER

Date & Time of Sampling : 12.01.2024 01:10 PM

Sample Collected by : MR. VIRENDRA KUMAR

Environmental Condition (Temp. & RH) : 21.5 °C & 65%

Sample Packing : SEALED

Sample Id No. : 014

Laboratory Sample Receiving Date : 15.01.2024

Duration of Sample Analysis : 15.01.2024 TO 22.01.2024

Method of Sampling : APHA 1060B & 9060A


TEST RESULTS

Sr. No.	Parameters	Test Method	Result	Unit	Limit as per IS 10500:1991 (Reaff:2012)	
					Desirable	Permissible
1.	pH at 25 °C	APHA 4500H+A+B	7.22	-	6.5-8.5	No relaxation
2.	Temperature	APHA 2550-A+B	24.5	°C	Not Specified	Not Specified
3.	Colour	APHA 2120-B	<5.0	Hazen	5	15
4.	Turbidity	APHA 2130-A+B	<1.0	NTU	1	5
5.	Odour	APHA 2150-B	Agreeable	-	Agreeable	Agreeable
6.	Alkalinity	APHA 2320-A+B	152	mg/L	200	600
7.	Total Dissolved Solids	APHA2540-C	445	mg/L	500	2000
8.	Total Hardness	APHA 2340 A+C	178	mg/L	200	600
9.	Calcium	APHA 3500 Ca- A+B	34.7	mg/L	75	200
10.	Magnesium	APHA 3500 Mg A+B	22.2	mg/L	30	100
11.	Sodium	APHA 3500 Na, A+B	22.0	mg/L	-	-
12.	Phosphate	APHA 4500-PD	BDL	mg/L	-	-
13.	Sulfate	APHA 4500-SO42- E	34.5	mg/L	200	400
14.	Potassium	APHA 3500 K, A+B	10.0	mg/L	-	-

Page 1 of 3

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Review By
Dr. Anshok Kumar
Technical Manager**Authorized Signatory**
Virat Global Lab
D. K. Yadav
Authorised Signatory
Lab In-charge

TEST REPORT CODE: VGL/W/24/01/15/014

TEST REPORT ISSUE DATE: 22.01.2024

**TEST REPORT (WATER)
PART – A (CHEMICAL)**

TEST RESULTS

15.	Nitrate	APHA 4500-NO3- B	8.2	mg/L	45.0	-
16.	Free Residual Chlorine	APHA 4500-Cl B	<0.2	mg/L	0.2	1.0
17.	Chloride	APHA 4500 Cl A+B	36.0	mg/L	250	1000
18.	Boron	APHA 4500 B A+C	BDL	mg/L	0.5	1.0
19.	Copper	APHA 3111 A+B	BDL	mg/L	0.05	1.5
20.	Cadmium	APHA 3111 A+B	BDL	mg/L	0.003	No relaxation
21.	Iron	APHA 3500 Fe B	0.19	mg/L	0.3	No relaxation
22.	Lead	APHA 3111 A+B	BDL	mg/L	0.01	No relaxation
23.	Nickel	APHA 3111 A+B	BDL	mg/L	0.02	No relaxation
24.	Zinc	APHA 3111 A+B	BDL	mg/L	5	15
25.	Fluoride	APHA 4500-C	0.62	mg/L	1.0	1.5
26.	Hexavalent Chromium	APHA 3500 B	<0.05	mg/L	0.001	No relaxation
27.	Electrical Conductivity	APHA 2510 B	745	μS/cm	No relaxation	No relaxation

Page 2 of 3


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Review By:
Dr. Ashok Kumar
Technical Manager

Authorized Signatory
Virat Global Lab


Authorized Signatory
Lab In-charge

TEST REPORT CODE: VGL/W/24/01/15/014

TEST REPORT ISSUE DATE: 22.01.2024


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

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

Page 3 of 3

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

Review By:Dr. Ashok Kumar
Technical Manager**Authorized Signatory
Virat Global Lab**
Authorized Signatory
Sayeed Ahmad
Quality Manager

TEST REPORT CODE: VGL/W/24/01/15/015

TEST REPORT ISSUE DATE: 22.01.2024

TEST REPORT (WATER)
PART – A (CHEMICAL)

Name and Address of Customer : M/s. J K CEMENT WORKS, PANNA,
(A UNIT OF JK CEMENT LIMITED.)
VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ,
DISTT. - PANNA, (M.P)

Location of Sample : DNY WELL KAMTANA VILLAGE

Sample Description : GROUND WATER

Date & Time of Sampling : 12.01.2024 01:50 PM

Sample Collected by : MR. VIRENDRA KUMAR

Environmental Condition (Temp. & RH) : 21.8 °C & 68%

Sample Packing : SEALED

Sample Id No. : 015

Laboratory Sample Receiving Date : 15.01.2024

Duration of Sample Analysis : 15.01.2024 TO 22.01.2024

Method of Sampling : APHA 1060B & 9060A


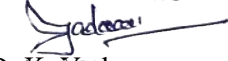
TEST RESULTS

Sr. No.	Parameters	Test Method	Result	Unit	Limit as per IS 10500:1991 (Reaff:2012)	
					Desirable	Permissible
1.	pH at 25 °C	APHA 4500H+A+B	7.74	-	6.5-8.5	No relaxation
2.	Temperature	APHA 2550-A+B	24.2	°C	Not Specified	Not Specified
3.	Colour	APHA 2120-B	<5.0	Hazen	5	15
4.	Turbidity	APHA 2130-A+B	<1.0	NTU	1	5
5.	Odour	APHA 2150-B	Agreeable	-	Agreeable	Agreeable
6.	Alkalinity	APHA 2320-A+B	168.0	mg/L	200	600
7.	Total Dissolved Solids	APHA2540-C	475.0	mg/L	500	2000
8.	Total Hardness	APHA 2340 A+C	182.0	mg/L	200	600
9.	Calcium	APHA 3500 Ca- A+B	42.4	mg/L	75	200
10.	Magnesium	APHA 3500 Mg A+B	18.5	mg/L	30	100
11.	Sodium	APHA 3500 Na, A+B	19.0	mg/L	-	-
12.	Phosphate	APHA 4500-PD	BDL	mg/L	-	-
13.	Sulfate	APHA 4500-SO42- E	30.5	mg/L	200	400
14.	Potassium	APHA 3500 K, A+B	10.0	mg/L	-	-

Page 1 of 3

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- The above Results are related to the tested sample only.

Review By:
Ashok Kumar
Technical Manager**Authorized Signatory**
Virat Global Lab
D. K. Yadav
Authorized Signatory
Lab In-charge

TEST REPORT CODE: VGL/W/24/01/15/015

TEST REPORT ISSUE DATE: 22.01.2024

**TEST REPORT (WATER)
PART – A (CHEMICAL)**

TEST RESULTS

15.	Nitrate	APHA 4500-NO3- B	8.5	mg/L	45.0	-
16.	Free Residual Chlorine	APHA 4500-Cl B	<0.2	mg/L	0.2	1.0
17.	Chloride	APHA 4500 Cl A+B	42.0	mg/L	250	1000
18.	Boron	APHA 4500 B A+C	BDL	mg/L	0.5	1.0
19.	Copper	APHA 3111 A+B	BDL	mg/L	0.05	1.5
20.	Cadmium	APHA 3111 A+B	BDL	mg/L	0.003	No relaxation
21.	Iron	APHA 3500 Fe B	0.26	mg/L	0.3	No relaxation
22.	Lead	APHA 3111 A+B	BDL	mg/L	0.01	No relaxation
23.	Nickel	APHA 3111 A+B	BDL	mg/L	0.02	No relaxation
24.	Zinc	APHA 3111 A+B	BDL	mg/L	5	15
25.	Fluoride	APHA 4500-C	0.75	mg/L	1.0	1.5
26.	Hexavalent Chromium	APHA 3500 B	<0.05	mg/L	0.001	No relaxation
27.	Electrical Conductivity	APHA 2510 B	785	µS/cm	No relaxation	No relaxation

Page 2 of 3


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Reviewed By:
Dr. Ashok Kumar
Technical Manager

Authorized Signatory


Authorised Signatory
D. K. Yadav
Lab In-charge

TEST REPORT CODE: VGL/W/24/01/15/015

TEST REPORT ISSUE DATE: 22.01.2024


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

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

Page 3 of 3

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

Review By:Dr. Ashok Kumar
Technical Manager**Authorized Signatory
Virat Global Lab**
Authorized Signatory
Sayeed Ahmad
Quality Manager

TEST REPORT CODE: VGL/W/24/01/15/016

TEST REPORT ISSUE DATE: 22.01.2024

TEST REPORT (WATER)
PART – A (CHEMICAL)

Name and Address of Customer : M/s. J K CEMENT WORKS, PANNA,
(A UNIT OF JK CEMENT LIMITED.)
VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ,
DISTT. - PANNA, (M.P)

Location of Sample : PURAINA VILLAGE

Sample Description : GROUND WATER

Date & Time of Sampling : 12.01.2024 02:30 PM

Sample Collected by : MR. VIRENDRA KUMAR

Environmental Condition (Temp. & RH) : 22.8 °C & 68%

Sample Packing : SEALED

Sample Id No. : 016

Laboratory Sample Receiving Date : 15.01.2024

Duration of Sample Analysis : 15.01.2024 TO 22.01.2024

Method of Sampling : APHA 1060B & 9060A

TEST RESULTS

Sr. No.	Parameters	Test Method	Result	Unit	Limit as per IS 10500:1991 (Reaff:2012)	
					Desirable	Permissible
1.	pH at 25 °C	APHA 4500H+A+B	7.66	-	6.5-8.5	No relaxation
2.	Temperature	APHA 2550-A+B	23.5	°C	Not Specified	Not Specified
3.	Colour	APHA 2120-B	<5.0	Hazen	5	15
4.	Turbidity	APHA 2130-A+B	<1.0	NTU	1	5
5.	Odour	APHA 2150-B	Agreeable	-	Agreeable	Agreeable
6.	Alkalinity	APHA 2320-A+B	174	mg/L	200	600
7.	Total Dissolved Solids	APHA2540-C	485	mg/L	500	2000
8.	Total Hardness	APHA 2340 A+C	192	mg/L	200	600
9.	Calcium	APHA 3500 Ca- A+B	45.6	mg/L	75	200
10.	Magnesium	APHA 3500 Mg A+B	19.0	mg/L	30	100
11.	Sodium	APHA 3500 Na, A+B	24.0	mg/L	-	-
12.	Phosphate	APHA 4500-PD	BDL	mg/L	-	-
13.	Sulfate	APHA 4500-SO42- E	40.1	mg/L	200	400
14.	Potassium	APHA 3500 K, A+B	11.0	mg/L	-	-

Page 1 of 3

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- The above Results are related to the tested sample only.

Review By:Dr. Ashok Kumar
Technical Manager**Authorized Signatory**D. K. Yadav
Lab In-charge

TEST REPORT CODE: VGL/W/24/01/15/016

TEST REPORT ISSUE DATE: 22.01.2024

**TEST REPORT (WATER)
PART – A (CHEMICAL)**

TEST RESULTS

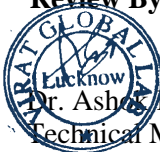
15.	Nitrate	APHA 4500-NO3- B	10.5	mg/L	45.0	-
16.	Free Residual Chlorine	APHA 4500-Cl B	<0.2	mg/L	0.2	1.0
17.	Chloride	APHA 4500 Cl A+B	45.4	mg/L	250	1000
18.	Boron	APHA 4500 B A+C	BDL	mg/L	0.5	1.0
19.	Copper	APHA 3111 A+B	BDL	mg/L	0.05	1.5
20.	Cadmium	APHA 3111 A+B	BDL	mg/L	0.003	No relaxation
21.	Iron	APHA 3500 Fe B	0.28	mg/L	0.3	No relaxation
22.	Lead	APHA 3111 A+B	BDL	mg/L	0.01	No relaxation
23.	Nickel	APHA 3111 A+B	BDL	mg/L	0.02	No relaxation
24.	Zinc	APHA 3111 A+B	BDL	mg/L	5	15
25.	Fluoride	APHA 4500-C	0.65	mg/L	1.0	1.5
26.	Hexavalent Chromium	APHA 3500 B	<0.05	mg/L	0.001	No relaxation
27.	Electrical Conductivity	APHA 2510 B	744	µS/cm	No relaxation	No relaxation

Page 2 of 3

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4. The above Results are related to the tested sample only.

Review By:



Dr. Ashish Kumar
Technical Manager

Virat Global Lab
Authorized Signatory



Authorised Signatory
D. K. Yadav
Lab In-charge

TEST REPORT CODE: VGL/W/24/01/15/016

TEST REPORT ISSUE DATE: 22.01.2024


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

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

Page 3 of 3

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

Review By:Dr. Ashok Kumar
Technical Manager**Authorized Signatory
Virat Global Lab**
Authorized Signatory
Sayeed Ahmad
Quality Manager

TEST REPORT CODE: VGL/W/24/01/15/017

TEST REPORT ISSUE DATE: 22.01.2024

TEST REPORT (WATER)
PART – A (CHEMICAL)

Name and Address of Customer : M/s. J K CEMENT WORKS, PANNA,
(A UNIT OF JK CEMENT LIMITED.)
VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ,
DISTT. - PANNA, (M.P.)

Location of Sample : PAGRA VILLAGE

Sample Description : GROUND WATER

Date & Time of Sampling : 12.01.2024 03:00 PM

Sample Collected by : MR. VIRENDRA KUMAR

Environmental Condition (Temp. & RH) : 22.5 °C & 68%

Sample Packing : SEALED

Sample Id No. : 017

Laboratory Sample Receiving Date : 15.01.2024

Duration of Sample Analysis : 15.01.2024 TO 22.01.2024

Method of Sampling : APHA 1060B & 9060A

TEST RESULTS

Sr. No.	Parameters	Test Method	Result	Unit	Limit as per IS 10500:1991 (Reaff:2012)	
					Desirable	Permissible
1.	pH at 25 °C	APHA 4500H+A+B	7.63	-	6.5-8.5	No relaxation
2.	Temperature	APHA 2550-A+B	25.4	°C	Not Specified	Not Specified
3.	Colour	APHA 2120-B	<5.0	Hazen	5	15
4.	Turbidity	APHA 2130-A+B	<1.0	NTU	1	5
5.	Odour	APHA 2150-B	Agreeable	-	Agreeable	Agreeable
6.	Alkalinity	APHA 2320-A+B	162.0	mg/L	200	600
7.	Total Dissolved Solids	APHA2540-C	455.0	mg/L	500	2000
8.	Total Hardness	APHA 2340 A+C	148.0	mg/L	200	600
9.	Calcium	APHA 3500 Ca- A+B	32.8	mg/L	75	200
10.	Magnesium	APHA 3500 Mg A+B	16.1	mg/L	30	100
11.	Sodium	APHA 3500 Na, A+B	22.0	mg/L	-	-
12.	Phosphate	APHA 4500-PD	BDL	mg/L	-	-
13.	Sulfate	APHA 4500-SO42- E	30.4	mg/L	200	400
14.	Potassium	APHA 3500 K, A+B	10.0	mg/L	-	-

Page 1 of 3

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- The above Results are related to the tested sample only.

Review By:



Dr. Ashok Kumar
Technical Manager

Authorized Signatory
Virat Global Lab



Authorized Signatory
D. K. Yadav
Lab In-charge

TEST REPORT CODE: VGL/W/24/01/15/017

TEST REPORT ISSUE DATE: 22.01.2024

**TEST REPORT (WATER)
PART – A (CHEMICAL)**

TEST RESULTS


15.	Nitrate	APHA 4500-NO3- B	9.5	mg/L	45.0	-
16.	Free Residual Chlorine	APHA 4500-Cl B	<0.2	mg/L	0.2	1.0
17.	Chloride	APHA 4500 Cl A+B	42.1	mg/L	250	1000
18.	Boron	APHA 4500 B A+C	BDL	mg/L	0.5	1.0
19.	Copper	APHA 3111 A+B	BDL	mg/L	0.05	1.5
20.	Cadmium	APHA 3111 A+B	BDL	mg/L	0.003	No relaxation
21.	Iron	APHA 3500 Fe B	0.14	mg/L	0.3	No relaxation
22.	Lead	APHA 3111 A+B	BDL	mg/L	0.01	No relaxation
23.	Nickel	APHA 3111 A+B	BDL	mg/L	0.02	No relaxation
24.	Zinc	APHA 3111 A+B	BDL	mg/L	5	15
25.	Fluoride	APHA 4500-C	0.74	mg/L	1.0	1.5
26.	Hexavalent Chromium	APHA 3500 B	<0.05	mg/L	0.001	No relaxation
27.	Electrical Conductivity	APHA 2510 B	765	µS/cm	No relaxation	No relaxation

Page 2 of 3


Note:

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

Review By:


Lucknow
Dr. Ashok Kumar
Technical Manager

Authorized Signatory
Virat Global Lab


D. K. Yadav
Authorized Signatory
Lab In-charge

TEST REPORT CODE: VGL/W/24/01/15/017

TEST REPORT ISSUE DATE: 22.01.2024


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

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

Page 3 of 3

Note:

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

Review By:Dr. Ashok Kumar
Technical Manager**Authorized Signatory
Virat Global Lab**
Authorized Signatory
Sayeed Ahmad
Quality Manager

TEST REPORT CODE: VGL/W/24/01/15/018

TEST REPORT ISSUE DATE: 22.01.2024

TEST REPORT (WATER)
PART – A (CHEMICAL)

Name and Address of Customer : M/s. J K CEMENT WORKS, PANNA,
(A UNIT OF JK CEMENT LIMITED.)
VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ,
DISTT. - PANNA, (M.P)

Location of Sample : **UDLA VILLAGE**

Sample Description : GROUND WATER

Date & Time of Sampling : 12.01.2024 03:30 PM

Sample Collected by : MR. VIRENDRA KUMAR

Environmental Condition (Temp. & RH) : 21.4 °C & 68%

Sample Packing : SEALED

Sample Id No. : 018

Laboratory Sample Receiving Date : 15.01.2024

Duration of Sample Analysis : 15.01.2024 TO 22.01.2024

Method of Sampling : APHA 1060B & 9060A

TEST RESULTS

Sr. No.	Parameters	Test Method	Result	Unit	Limit as per IS 10500:1991 (Reaff:2012)	
					Desirable	Permissible
1.	pH at 25 °C	APHA 4500H+A+B	7.24	-	6.5-8.5	No relaxation
2.	Temperature	APHA 2550-A+B	23.8	°C	Not Specified	Not Specified
3.	Colour	APHA 2120-B	<5.0	Hazen	5	15
4.	Turbidity	APHA 2130-A+B	<1.0	NTU	1	5
5.	Odour	APHA 2150-B	Agreeable	-	Agreeable	Agreeable
6.	Alkalinity	APHA 2320-A+B	136.0	mg/L	200	600
7.	Total Dissolved Solids	APHA2540-C	418.0	mg/L	500	2000
8.	Total Hardness	APHA 2340 A+C	142.0	mg/L	200	600
9.	Calcium	APHA 3500 Ca- A+B	30.1	mg/L	75	200
10.	Magnesium	APHA 3500 Mg A+B	16.3	mg/L	30	100
11.	Sodium	APHA 3500 Na, A+B	18.0	mg/L	-	-
12.	Phosphate	APHA 4500-PD	BDL	mg/L	-	-
13.	Sulfate	APHA 4500-SO42- E	24.5	mg/L	200	400
14.	Potassium	APHA 3500 K, A+B	8.0	mg/L	-	-

Page 1 of 3

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- The above Results are related to the tested sample only.

Review By:

D. Ashok Kumar
Technical Manager

Authorized Signatory
Virat Global Lab

D. K. Yadav
Authorized Signatory
Lab In-charge

TEST REPORT CODE: VGL/W/24/01/15/018

TEST REPORT ISSUE DATE: 22.01.2024

**TEST REPORT (WATER)
PART – A (CHEMICAL)**

TEST RESULTS


15.	Nitrate	APHA 4500-NO3- B	8.5	mg/L	45.0	-
16.	Free Residual Chlorine	APHA 4500-Cl B	<0.2	mg/L	0.2	1.0
17.	Chloride	APHA 4500 Cl A+B	32.4	mg/L	250	1000
18.	Boron	APHA 4500 B A+C	BDL	mg/L	0.5	1.0
19.	Copper	APHA 3111 A+B	BDL	mg/L	0.05	1.5
20.	Cadmium	APHA 3111 A+B	BDL	mg/L	0.003	No relaxation
21.	Iron	APHA 3500 Fe B	0.25	mg/L	0.3	No relaxation
22.	Lead	APHA 3111 A+B	BDL	mg/L	0.01	No relaxation
23.	Nickel	APHA 3111 A+B	BDL	mg/L	0.02	No relaxation
24.	Zinc	APHA 3111 A+B	BDL	mg/L	5	15
25.	Fluoride	APHA 4500-C	0.59	mg/L	1.0	1.5
26.	Hexavalent Chromium	APHA 3500 B	<0.05	mg/L	0.001	No relaxation
27.	Electrical Conductivity	APHA 2510 B	653	µS/cm	No relaxation	No relaxation

Page 2 of 3


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Review By:


Dr. Ashok Kumar
Technical Manager

Authorized Signatory
Virat Global Lab


Authorized Signatory
Lab In-charge

TEST REPORT CODE: VGL/W/24/01/15/018

TEST REPORT ISSUE DATE: 22.01.2024


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

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

Page 3 of 3

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

Review By:Dr. Ashok Kumar
Technical Manager**Authorized Signatory
Virat Global Lab**
Authorized Signatory
Sayeed Ahmad
Quality Manager

TEST REPORT CODE: VGL/W/24/01/15/019

TEST REPORT ISSUE DATE: 22.01.2024

TEST REPORT (WATER)
PART – A (CHEMICAL)

Name and Address of Customer : M/s. J K CEMENT WORKS, PANNA,
(A UNIT OF JK CEMENT LIMITED.)
VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ,
DISTT. - PANNA, (M.P)

Location of Sample : SOTIPURA VILLAGE

Sample Description : GROUND WATER

Date & Time of Sampling : 12.01.2024 03:50 PM

Sample Collected by : MR. VIRENDRA KUMAR

Environmental Condition (Temp. & RH) : 21.2 °C & 69%

Sample Packing : SEALED

Sample Id No. : 019

Laboratory Sample Receiving Date : 15.01.2024

Duration of Sample Analysis : 15.01.2024 TO 22.01.2024

Method of Sampling : APHA 1060B & 9060A

TEST RESULTS

Sr. No.	Parameters	Test Method	Result	Unit	Limit as per IS 10500:1991 (Reaff:2012)	
					Desirable	Permissible
1.	pH at 25 °C	APHA 4500H+A+B	7.36	-	6.5-8.5	No relaxation
2.	Temperature	APHA 2550-A+B	23.5	°C	Not Specified	Not Specified
3.	Colour	APHA 2120-B	<5.0	Hazen	5	15
4.	Turbidity	APHA 2130-A+B	<1.0	NTU	1	5
5.	Odour	APHA 2150-B	Agreeable	-	Agreeable	Agreeable
6.	Alkalinity	APHA 2320-A+B	148.0	mg/L	200	600
7.	Total Dissolved Solids	APHA2540-C	426.0	mg/L	500	2000
8.	Total Hardness	APHA 2340 A+C	132.0	mg/L	200	600
9.	Calcium	APHA 3500 Ca- A+B	30.1	mg/L	75	200
10.	Magnesium	APHA 3500 Mg A+B	13.8	mg/L	30	100
11.	Sodium	APHA 3500 Na, A+B	17.0	mg/L	-	-
12.	Phosphate	APHA 4500-PD	BDL	mg/L	-	-
13.	Sulfate	APHA 4500-SO42- E	32.4	mg/L	200	400
14.	Potassium	APHA 3500 K, A+B	9.0	mg/L	-	-


Page 1 of 3

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Review By:

Dr. Anil Kumar
Technical Manager

Virat Global Lab
Authorized Signatory

Authorised Signatory
D. K. Yadav
Lab In-charge

TEST REPORT CODE: VGL/W/24/01/15/019

TEST REPORT ISSUE DATE: 22.01.2024

**TEST REPORT (WATER)
PART – A (CHEMICAL)**

TEST RESULTS

15.	Nitrate	APHA 4500-NO3- B	9.5	mg/L	45.0	-
16.	Free Residual Chlorine	APHA 4500-Cl B	<0.2	mg/L	0.2	1.0
17.	Chloride	APHA 4500 Cl A+B	36.0	mg/L	250	1000
18.	Boron	APHA 4500 B A+C	BDL	mg/L	0.5	1.0
19.	Copper	APHA 3111 A+B	BDL	mg/L	0.05	1.5
20.	Cadmium	APHA 3111 A+B	BDL	mg/L	0.003	No relaxation
21.	Iron	APHA 3500 Fe B	0.28	mg/L	0.3	No relaxation
22.	Lead	APHA 3111 A+B	BDL	mg/L	0.01	No relaxation
23.	Nickel	APHA 3111 A+B	BDL	mg/L	0.02	No relaxation
24.	Zinc	APHA 3111 A+B	BDL	mg/L	5	15
25.	Fluoride	APHA 4500-C	0.75	mg/L	1.0	1.5
26.	Hexavalent Chromium	APHA 3500 B	<0.05	mg/L	0.001	No relaxation
27.	Electrical Conductivity	APHA 2510 B	714	μS/cm	No relaxation	No relaxation

Page 2 of 3


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4. The above Results are related to the tested sample only.

Review By:


Dr. Ashok Kumar
Technical Manager

Authorized Signatory
Virat Global Lab


Authorized Signatory
Lab In-charge

TEST REPORT CODE: VGL/W/24/01/15/019

TEST REPORT ISSUE DATE: 22.01.2024


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

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

Page 3 of 3

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

Review By:Dr. Ashok Kumar
Technical Manager**Authorized Signatory
Virat Global Lab**
Authorized Signatory
Sayeed Ahmad
Quality Manager

TEST REPORT CODE: VGL/W/24/01/15/020

TEST REPORT ISSUE DATE: 22.01.2024

TEST REPORT (WATER)
PART – A (CHEMICAL)

Name and Address of Customer : M/s. J K CEMENT WORKS, PANNA,
(A UNIT OF JK CEMENT LIMITED.)
VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ,
DISTT. - PANNA, (M.P)

Location of Sample : HINAUTA VILLAGE

Sample Description : GROUND WATER

Date & Time of Sampling : 12.01.2024 04:10 PM

Sample Collected by : MR. VIRENDRA KUMAR

Environmental Condition (Temp. & RH) : 20.7 °C & 70%

Sample Packing : SEALED

Sample Id No. : 020

Laboratory Sample Receiving Date : 15.01.2024

Duration of Sample Analysis : 15.01.2024 TO 22.01.2024

Method of Sampling : APHA 1060B & 9060A

TEST RESULTS

Sr. No.	Parameters	Test Method	Result	Unit	Limit as per IS 10500:1991 (Reaff:2012)	
					Desirable	Permissible
1.	pH at 25 °C	APHA 4500H+A+B	7.26	-	6.5-8.5	No relaxation
2.	Temperature	APHA 2550-A+B	23.9	°C	Not Specified	Not Specified
3.	Colour	APHA 2120-B	<5.0	Hazen	5	15
4.	Turbidity	APHA 2130-A+B	<1.0	NTU	1	5
5.	Odour	APHA 2150-B	Agreeable	-	Agreeable	Agreeable
6.	Alkalinity	APHA 2320-A+B	128.0	mg/L	200	600
7.	Total Dissolved Solids	APHA2540-C	374.0	mg/L	500	2000
8.	Total Hardness	APHA 2340 A+C	134.0	mg/L	200	600
9.	Calcium	APHA 3500 Ca- A+B	28.4	mg/L	75	200
10.	Magnesium	APHA 3500 Mg A+B	15.3	mg/L	30	100
11.	Sodium	APHA 3500 Na, A+B	19.0	mg/L	-	-
12.	Phosphate	APHA 4500-PD	BDL	mg/L	-	-
13.	Sulfate	APHA 4500-SO42- E	25.4	mg/L	200	400
14.	Potassium	APHA 3500 K, A+B	8.0	mg/L	-	-

Page 1 of 3

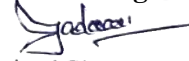
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- The above Results are related to the tested sample only.

Review By:

Dr. Ashok Kumar
Technical Manager

Virat Global Lab Authorized Signatory



Authorised Signatory
D. K. Yadav
Lab In-charge

TEST REPORT CODE: VGL/W/24/01/15/020

TEST REPORT ISSUE DATE: 22.01.2024

**TEST REPORT (WATER)
PART – A (CHEMICAL)**

TEST RESULTS

15.	Nitrate	APHA 4500-NO3- B	8.1	mg/L	45.0	-
16.	Free Residual Chlorine	APHA 4500-Cl B	<0.2	mg/L	0.2	1.0
17.	Chloride	APHA 4500 Cl A+B	28.4	mg/L	250	1000
18.	Boron	APHA 4500 B A+C	BDL	mg/L	0.5	1.0
19.	Copper	APHA 3111 A+B	BDL	mg/L	0.05	1.5
20.	Cadmium	APHA 3111 A+B	BDL	mg/L	0.003	No relaxation
21.	Iron	APHA 3500 Fe B	0.20	mg/L	0.3	No relaxation
22.	Lead	APHA 3111 A+B	BDL	mg/L	0.01	No relaxation
23.	Nickel	APHA 3111 A+B	BDL	mg/L	0.02	No relaxation
24.	Zinc	APHA 3111 A+B	BDL	mg/L	5	15
25.	Fluoride	APHA 4500-C	ND	mg/L	1.0	1.5
26.	Hexavalent Chromium	APHA 3500 B	ND	mg/L	0.001	No relaxation
27.	Electrical Conductivity	APHA 2510 B	575	μS/cm	No relaxation	No relaxation

Page 2 of 3

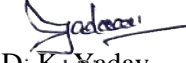
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4. The above Results are related to the tested sample only.

Reviewed by:


Dr. Ashok Kumar
Technical Manager

Authorized Signatory
Virat Global Lab


Dr. K. Yadav
Authorized Signatory
Lab In-charge

TEST REPORT CODE: VGL/W/24/01/15/020

TEST REPORT ISSUE DATE: 22.01.2024


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

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

Page 3 of 3

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

Review By:
Dr. Ashok Kumar
Technical Manager**Authorized Signatory
Virat Global Lab**
Authorized Signatory
Sayeed Ahmad
Quality Manager

TEST REPORT CODE: VGL/W/24/01/15/021

TEST REPORT ISSUE DATE: 22.01.2024

TEST REPORT (WATER)
PART – A (CHEMICAL)

Name and Address of Customer : M/s. J K CEMENT WORKS, PANNA,
(A UNIT OF JK CEMENT LIMITED.)
VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ,
DISTT. - PANNA, (M.P)

Location of Sample : PURWA VILLAGE

Sample Description : GROUND WATER

Date & Time of Sampling : 12.01.2024 04:50 PM

Sample Collected by : MR. VIRENDRA KUMAR

Environmental Condition (Temp. & RH) : 20.1 °C & 70%

Sample Packing : SEALED

Sample Id No. : 021

Laboratory Sample Receiving Date : 15.01.2024

Duration of Sample Analysis : 15.01.2024 TO 22.01.2024

Method of Sampling : APHA 1060B & 9060A

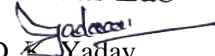
TEST RESULTS

Sr. No.	Parameters	Test Method	Result	Unit	Limit as per IS 10500:1991 (Reaff:2012)	
					Desirable	Permissible
1.	pH at 25 °C	APHA 4500H+A+B	7.52	-	6.5-8.5	No relaxation
2.	Temperature	APHA 2550-A+B	23.4	°C	Not Specified	Not Specified
3.	Colour	APHA 2120-B	<5.0	Hazen	5	15
4.	Turbidity	APHA 2130-A+B	<1.0	NTU	1	5
5.	Odour	APHA 2150-B	Agreeable	-	Agreeable	Agreeable
6.	Alkalinity	APHA 2320-A+B	112.0	mg/L	200	600
7.	Total Dissolved Solids	APHA2540-C	289.0	mg/L	500	2000
8.	Total Hardness	APHA 2340 A+C	122.0	mg/L	200	600
9.	Calcium	APHA 3500 Ca- A+B	28.4	mg/L	75	200
10.	Magnesium	APHA 3500 Mg A+B	12.4	mg/L	30	100
11.	Sodium	APHA 3500 Na, A+B	20.0	mg/L	-	-
12.	Phosphate	APHA 4500-PD	BDL	mg/L	-	-
13.	Sulfate	APHA 4500-SO42- E	24.6	mg/L	200	400
14.	Potassium	APHA 3500 K, A+B	08.0	mg/L	-	-

Page 1 of 3

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- The above Results are related to the tested sample only.

Review By
Dr. Ashok Kumar
Technical Manager**Authorized Signatory**
Virat Global Lab
D. K. Yadav
Authorized Signatory
Lab in-charge

TEST REPORT CODE: VGL/W/24/01/15/021

TEST REPORT ISSUE DATE: 22.01.2024

**TEST REPORT (WATER)
PART – A (CHEMICAL)**

TEST RESULTS

15.	Nitrate	APHA 4500-NO3- B	7.5	mg/L	45.0	-
16.	Free Residual Chlorine	APHA 4500-Cl B	<0.2	mg/L	0.2	1.0
17.	Chloride	APHA 4500 Cl A+B	28.0	mg/L	250	1000
18.	Boron	APHA 4500 B A+C	BDL	mg/L	0.5	1.0
19.	Copper	APHA 3111 A+B	BDL	mg/L	0.05	1.5
20.	Cadmium	APHA 3111 A+B	BDL	mg/L	0.003	No relaxation
21.	Iron	APHA 3500 Fe B	0.18	mg/L	0.3	No relaxation
22.	Lead	APHA 3111 A+B	BDL	mg/L	0.01	No relaxation
23.	Nickel	APHA 3111 A+B	BDL	mg/L	0.02	No relaxation
24.	Zinc	APHA 3111 A+B	BDL	mg/L	5	15
25.	Fluoride	APHA 4500-C	0.71	mg/L	1.0	1.5
26.	Hexavalent Chromium	APHA 3500 B	ND	mg/L	0.001	No relaxation
27.	Electrical Conductivity	APHA 2510 B	542	µS/cm	No relaxation	No relaxation

Page 2 of 3

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Review By:



Dr. Ashok Kumar
Technical Manager

Authorized Signatory
Virat Global Lab



Authorized Signatory
Lab In-charge

TEST REPORT CODE: VGL/W/24/01/15/021

TEST REPORT ISSUE DATE: 22.01.2024


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

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

Page 3 of 3

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4. The above Results are related to the tested sample only.

Dr. Ashok Kumar
Technical Manager**Authorized Signatory
Virat Global Lab**
Authorized Signatory
Sayeed Ahmad
Quality Manager

TEST REPORT CODE: VGL/W/24/01/15/022

TEST REPORT ISSUE DATE: 22.01.2024

TEST REPORT (WATER)
PART – A (CHEMICAL)

Name and Address of Customer : M/s. J K CEMENT WORKS, PANNA,
(A UNIT OF JK CEMENT LIMITED.)
VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ,
DISTT. - PANNA, (M.P)

Location of Sample : AMANGANJ

Sample Description : GROUND WATER

Date & Time of Sampling : 12.01.2024 05:10 PM

Sample Collected by : MR. VIRENDRA KUMAR

Environmental Condition (Temp. & RH) : 20.5 °C & 68%

Sample Packing : SEALED

Sample Id No. : 022

Laboratory Sample Receiving Date : 15.01.2024

Duration of Sample Analysis : 15.01.2024 TO 22.01.2024

Method of Sampling : APHA 1060B & 9060A

TEST RESULTS

Sr. No.	Parameters	Test Method	Result	Unit	Limit as per IS 10500:1991 (Reaff:2012)	
					Desirable	Permissible
1.	pH at 25 °C	APHA 4500H+A+B	7.32	-	6.5-8.5	No relaxation
2.	Temperature	APHA 2550-A+B	24.0	°C	Not Specified	Not Specified
3.	Colour	APHA 2120-B	<5.0	Hazen	5	15
4.	Turbidity	APHA 2130-A+B	<1.0	NTU	1	5
5.	Odour	APHA 2150-B	Agreeable	-	Agreeable	Agreeable
6.	Alkalinity	APHA 2320-A+B	158.0	mg/L	200	600
7.	Total Dissolved Solids	APHA2540-C	460.0	mg/L	500	2000
8.	Total Hardness	APHA 2340 A+C	152.0	mg/L	200	600
9.	Calcium	APHA 3500 Ca- A+B	32.5	mg/L	75	200
10.	Magnesium	APHA 3500 Mg A+B	17.2	mg/L	30	100
11.	Sodium	APHA 3500 Na, A+B	25.0	mg/L	-	-
12.	Phosphate	APHA 4500-PD	BDL	mg/L	-	-
13.	Sulfate	APHA 4500-SO42- E	22.4	mg/L	200	400
14.	Potassium	APHA 3500 K, A+B	10.0	mg/L	-	-

Page 1 of 3

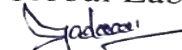
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- The above RESULTS are related to the tested sample only.

Reviewed By

Dr. Ashok Kumar
Technical Manager

Authorized Signatory
Virat Global Lab


Dr. K. Yadav
Authorized Signatory
Lab In-charge

TEST REPORT CODE: VGL/W/24/01/15/022

TEST REPORT ISSUE DATE: 22.01.2024

**TEST REPORT (WATER)
PART – A (CHEMICAL)**

TEST RESULTS

15.	Nitrate	APHA 4500-NO3- B	8.1	mg/L	45.0	-
16.	Free Residual Chlorine	APHA 4500-Cl B	<0.2	mg/L	0.2	1.0
17.	Chloride	APHA 4500 Cl A+B	42.0	mg/L	250	1000
18.	Boron	APHA 4500 B A+C	BDL	mg/L	0.5	1.0
19.	Copper	APHA 3111 A+B	BDL	mg/L	0.05	1.5
20.	Cadmium	APHA 3111 A+B	BDL	mg/L	0.003	No relaxation
21.	Iron	APHA 3500 Fe B	0.25	mg/L	0.3	No relaxation
22.	Lead	APHA 3111 A+B	BDL	mg/L	0.01	No relaxation
23.	Nickel	APHA 3111 A+B	BDL	mg/L	0.02	No relaxation
24.	Zinc	APHA 3111 A+B	BDL	mg/L	5	15
25.	Fluoride	APHA 4500-C	0.72	mg/L	1.0	1.5
26.	Hexavalent Chromium	APHA 3500 B	ND	mg/L	0.001	No relaxation
27.	Electrical Conductivity	APHA 2510 B	785	µS/cm	No relaxation	No relaxation

Page 2 of 3

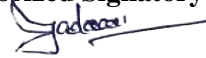
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4. The above Results are related to the tested sample only.

Review By:


Ashok Kumar
Technical Manager

Virat Global Lab
Authorized Signatory


Authorized Signatory
D. K. Yadav
Lab In-charge

TEST REPORT CODE: VGL/W/24/01/15/022

TEST REPORT ISSUE DATE: 22.01.2024


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

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

Page 3 of 3

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4. The above Results are related to the tested sample only.

Review By:Dr. Ashok Kumar
Technical Manager**Authorized Signatory
Virat Global Lab**
Authorized Signatory
Sayeed Ahmad
Quality Manager

TEST REPORT CODE: VGL/W/24/01/15/023

TEST REPORT ISSUE DATE: 22.01.2024

TEST REPORT (WATER)
PART – A (CHEMICAL)

Name and Address of Customer : M/s. J K CEMENT WORKS, PANNA,
(A UNIT OF JK CEMENT LIMITED.)
VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ,
DISTT. - PANNA, (M.P)

Location of Sample : BHUPAT PURA VILLAGE

Sample Description : GROUND WATER

Date & Time of Sampling : 12.01.2024 05:30 PM

Sample Collected by : MR. VIRENDRA KUMAR

Environmental Condition (Temp. & RH) : 20.0 °C & 70%

Sample Packing : SEALED

Sample Id No. : 023

Laboratory Sample Receiving Date : 15.01.2024

Duration of Sample Analysis : 15.01.2024 TO 22.01.2024

Method of Sampling : APHA 1060B & 9060A

TEST RESULTS

Sr. No.	Parameters	Test Method	Result	Unit	Limit as per IS 10500:1991 (Reaff:2012)	
					Desirable	Permissible
1.	pH at 25 °C	APHA 4500H+A+B	7.26	-	6.5-8.5	No relaxation
2.	Temperature	APHA 2550-A+B	24.0	°C	Not Specified	Not Specified
3.	Colour	APHA 2120-B	<5.0	Hazen	5	15
4.	Turbidity	APHA 2130-A+B	<1.0	NTU	1	5
5.	Odour	APHA 2150-B	Agreeable	-	Agreeable	Agreeable
6.	Alkalinity	APHA 2320-A+ B	180.0	mg/L	200	600
7.	Total Dissolved Solids	APHA2540-C	512.0	mg/L	500	2000
8.	Total Hardness	APHA 2340 A+C	174.0	mg/L	200	600
9.	Calcium	APHA 3500 Ca- A+B	42.8	mg/L	75	200
10.	Magnesium	APHA 3500 Mg A+B	16.3	mg/L	30	100
11.	Sodium	APHA 3500 Na, A+B	18.0	mg/L	-	-
12.	Phosphate	APHA 4500-PD	BDL	mg/L	-	-
13.	Sulfate	APHA 4500-SO42- E	26.4	mg/L	200	400
14.	Potassium	APHA 3500 K, A+B	10.0	mg/L	-	-

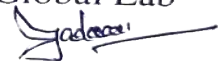
Page 1 of 3

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- The above Results are related to the tested sample only.

Review By: 
Dr. Ashok Kumar
Technical Manager

Authorized Signatory
Virat Global Lab


Dr. Kishan Singh
Lab In-charge

TEST REPORT CODE: VGL/W/24/01/15/023

TEST REPORT ISSUE DATE: 22.01.2024

**TEST REPORT (WATER)
PART – A (CHEMICAL)**


TEST RESULTS

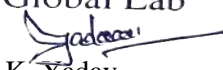
15.	Nitrate	APHA 4500-NO3- B	8.5	mg/L	45.0	-
16.	Free Residual Chlorine	APHA 4500-Cl B	<0.2	mg/L	0.2	1.0
17.	Chloride	APHA 4500 Cl A+B	40.0	mg/L	250	1000
18.	Boron	APHA 4500 B A+C	BDL	mg/L	0.5	1.0
19.	Copper	APHA 3111 A+B	BDL	mg/L	0.05	1.5
20.	Cadmium	APHA 3111 A+B	BDL	mg/L	0.003	No relaxation
21.	Iron	APHA 3500 Fe B	0.22	mg/L	0.3	No relaxation
22.	Lead	APHA 3111 A+B	BDL	mg/L	0.01	No relaxation
23.	Nickel	APHA 3111 A+B	BDL	mg/L	0.02	No relaxation
24.	Zinc	APHA 3111 A+B	BDL	mg/L	5	15
25.	Fluoride	APHA 4500-C	0.81	mg/L	1.0	1.5
26.	Hexavalent Chromium	APHA 3500 B	ND	mg/L	0.001	No relaxation
27.	Electrical Conductivity	APHA 2510 B	805	µS/cm	No relaxation	No relaxation

Page 2 of 3

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4. The above Results are related to the tested sample only.

Review By

 Dr. Anshok Kumar
 Technical Manager

Authorized Signatory
 Virat Global Lab

 D. K. Yadav
 Authorized Signatory
 Lab In-charge

TEST REPORT CODE: VGL/W/24/01/15/023

TEST REPORT ISSUE DATE: 22.01.2024


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

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

Page 3 of 3

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Review By:Ashok Kumar
Technical Manager**Authorized Signatory
Virat Global Lab**
Authorized Signatory
Sayeed Ahmad
Quality Manager

TEST REPORT CODE: VGL/W/24/01/15/024

TEST REPORT ISSUE DATE: 22.01.2024

TEST REPORT (WATER)
PART – A (CHEMICAL)

Name and Address of Customer : M/s. J K CEMENT WORKS, PANNA,
(A UNIT OF JK CEMENT LIMITED.)
VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ,
DISTT. - PANNA, (M.P)

Location of Sample : MAHODKH VILLAGE

Sample Description : GROUND WATER

Date & Time of Sampling : 12.01.2024 05:55 PM

Sample Collected by : MR. VIRENDRA KUMAR

Environmental Condition (Temp. & RH) : 18.5 °C & 72%

Sample Packing : SEALED

Sample Id No. : 024

Laboratory Sample Receiving Date : 15.01.2024

Duration of Sample Analysis : 15.01.2024 TO 22.01.2024

Method of Sampling : APHA 1060B & 9060A

TEST RESULTS

Sr. No.	Parameters	Test Method	Result	Unit	Limit as per IS 10500:1991 (Reaff:2012)	
					Desirable	Permissible
1.	pH at 25 °C	APHA 4500H+A+B	7.42	-	6.5-8.5	No relaxation
2.	Temperature	APHA 2550-A+B	23.5	°C	Not Specified	Not Specified
3.	Colour	APHA 2120-B	<5.0	Hazen	5	15
4.	Turbidity	APHA 2130-A+B	<1.0	NTU	1	5
5.	Odour	APHA 2150-B	Agreeable	-	Agreeable	Agreeable
6.	Alkalinity	APHA 2320-A+B	168.0	mg/L	200	600
7.	Total Dissolved Solids	APHA2540-C	455.0	mg/L	500	2000
8.	Total Hardness	APHA 2340 A+C	176.0	mg/L	200	600
9.	Calcium	APHA 3500 Ca- A+B	42.8	mg/L	75	200
10.	Magnesium	APHA 3500 Mg A+B	16.8	mg/L	30	100
11.	Sodium	APHA 3500 Na, A+B	22.0	mg/L	-	-
12.	Phosphate	APHA 4500-PD	BDL	mg/L	-	-
13.	Sulfate	APHA 4500-SO42- E	35.4	mg/L	200	400
14.	Potassium	APHA 3500 K, A+B	10.0	mg/L	-	-

Page 1 of 3

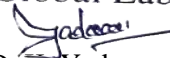
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Reviewed By:

Dr. Ashok Kumar
Technical Manager

Authorized Signatory
Virat Global Lab


D. K. Yadav
Authorized Signatory
Lab In-charge

TEST REPORT CODE: VGL/W/24/01/15/024

TEST REPORT ISSUE DATE: 22.01.2024

**TEST REPORT (WATER)
PART – A (CHEMICAL)**

TEST RESULTS

15.	Nitrate	APHA 4500-NO3- B	8.9	mg/L	45.0	-
16.	Free Residual Chlorine	APHA 4500-Cl B	<0.2	mg/L	0.2	1.0
17.	Chloride	APHA 4500 Cl A+B	45.0	mg/L	250	1000
18.	Boron	APHA 4500 B A+C	BDL	mg/L	0.5	1.0
19.	Copper	APHA 3111 A+B	BDL	mg/L	0.05	1.5
20.	Cadmium	APHA 3111 A+B	BDL	mg/L	0.003	No relaxation
21.	Iron	APHA 3500 Fe B	0.25	mg/L	0.3	No relaxation
22.	Lead	APHA 3111 A+B	BDL	mg/L	0.01	No relaxation
23.	Nickel	APHA 3111 A+B	BDL	mg/L	0.02	No relaxation
24.	Zinc	APHA 3111 A+B	BDL	mg/L	5	15
25.	Fluoride	APHA 4500-C	0.65	mg/L	1.0	1.5
26.	Hexavalent Chromium	APHA 3500 B	ND	mg/L	0.001	No relaxation
27.	Electrical Conductivity	APHA 2510 B	784	μS/cm	No relaxation	No relaxation

Page 2 of 3

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Dr. Ashok Kumar
Technical Manager

Authorized Signatory
Virat Global Lab



Authorized Signatory
Lab In-charge

TEST REPORT CODE: VGL/W/24/01/15/024

TEST REPORT ISSUE DATE: 22.01.2024


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

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

Page 3 of 3

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Review By:Dr. Ashok Kumar
Technical Manager**Authorized Signatory
Virat Global Lab**
Authorized Signatory
Sayeed Ahmad
Quality Manager

TEST REPORT CODE: VGL/W/24/01/15/025

TEST REPORT ISSUE DATE: 22.01.2024

TEST REPORT (WATER)
PART – A (CHEMICAL)

Name and Address of Customer : M/s. J K CEMENT WORKS, PANNA,
(A UNIT OF JK CEMENT LIMITED.)
VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ,
DISTT. - PANNA, (M.P)

Location of Sample : **UMRI VILLAGE**

Sample Description : GROUND WATER

Date & Time of Sampling : 12.01.2024 06:15 PM

Sample Collected by : MR. VIRENDRA KUMAR

Environmental Condition (Temp. & RH) : 18.5 °C & 72%

Sample Packing : SEALED

Sample Id No. : 025

Laboratory Sample Receiving Date : 15.01.2024

Duration of Sample Analysis : 15.01.2024 TO 22.01.2024

Method of Sampling : APHA 1060B & 9060A

TEST RESULTS

Sr. No.	Parameters	Test Method	Result	Unit	Limit as per IS 10500:1991 (Reaff:2012)	
					Desirable	Permissible
1.	pH at 25 °C	APHA 4500H+A+B	7.39	-	6.5-8.5	No relaxation
2.	Temperature	APHA 2550-A+B	23.5	°C	Not Specified	Not Specified
3.	Colour	APHA 2120-B	<5.0	Hazen	5	15
4.	Turbidity	APHA 2130-A+B	<1.0	NTU	1	5
5.	Odour	APHA 2150-B	Agreeable	-	Agreeable	Agreeable
6.	Alkalinity	APHA 2320-A+B	124.0	mg/L	200	600
7.	Total Dissolved Solids	APHA2540-C	395.0	mg/L	500	2000
8.	Total Hardness	APHA 2340 A+C	144.0	mg/L	200	600
9.	Calcium	APHA 3500 Ca- A+B	29.5	mg/L	75	200
10.	Magnesium	APHA 3500 Mg A+B	17.1	mg/L	30	100
11.	Sodium	APHA 3500 Na, A+B	18.0	mg/L	-	-
12.	Phosphate	APHA 4500-PD	BDL	mg/L	-	-
13.	Sulfate	APHA 4500-SO42- E	26.4	mg/L	200	400
14.	Potassium	APHA 3500 K, A+B	9.0	mg/L	-	-

Page 1 of 3

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Review By:Dr. Anil Kumar
Technical ManagerVirat Global Lab
Authorized SignatoryD. K. Yadav
Lab In-charge

TEST REPORT CODE: VGL/W/24/01/15/025

TEST REPORT ISSUE DATE: 22.01.2024

**TEST REPORT (WATER)
PART – A (CHEMICAL)**

TEST RESULTS

15.	Nitrate	APHA 4500-NO3- B	9.1	mg/L	45.0	-
16.	Free Residual Chlorine	APHA 4500-Cl B	<0.2	mg/L	0.2	1.0
17.	Chloride	APHA 4500 Cl A+B	36.4	mg/L	250	1000
18.	Boron	APHA 4500 B A+C	BDL	mg/L	0.5	1.0
19.	Copper	APHA 3111 A+B	BDL	mg/L	0.05	1.5
20.	Cadmium	APHA 3111 A+B	BDL	mg/L	0.003	No relaxation
21.	Iron	APHA 3500 Fe B	0.19	mg/L	0.3	No relaxation
22.	Lead	APHA 3111 A+B	BDL	mg/L	0.01	No relaxation
23.	Nickel	APHA 3111 A+B	BDL	mg/L	0.02	No relaxation
24.	Zinc	APHA 3111 A+B	BDL	mg/L	5	15
25.	Fluoride	APHA 4500-C	0.72	mg/L	1.0	1.5
26.	Hexavalent Chromium	APHA 3500 B	ND	mg/L	0.001	No relaxation
27.	Electrical Conductivity	APHA 2510 B	598	µS/cm	No relaxation	No relaxation

Page 2 of 3

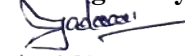
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Review By:


Dr. Ashok Kumar
Technical Manager

Virat Global Lab
Authorized Signatory


Authorised Signatory
D. K. Yadav
Lab In-charge

TEST REPORT CODE: VGL/W/24/01/15/025

TEST REPORT ISSUE DATE: 22.01.2024


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

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

Page 3 of 3

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4. The above Results are related to the tested sample only.

Review By:Dr. Ashok Kumar
Technical Manager**Authorized Signatory
Virat Global Lab**
Authorized Signatory
Sayeed Ahmad
Quality Manager

TEST REPORT CODE: VGL/W/24/01/15/026

TEST REPORT ISSUE DATE: 22.01.2024

TEST REPORT (WATER)
PART – A (CHEMICAL)

Name and Address of Customer : M/s. J K CEMENT WORKS, PANNA,
(A UNIT OF JK CEMENT LIMITED.)
VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ,
DISTT. - PANNA, (M.P)

Location of Sample : **HARDUA VILLAGE**

Sample Description : GROUND WATER

Date & Time of Sampling : 12.01.2024 06:28 PM

Sample Collected by : MR. VIRENDRA KUMAR

Environmental Condition (Temp. & RH) : 18.0 °C & 72%

Sample Packing : SEALED

Sample Id No. : 026

Laboratory Sample Receiving Date : 15.01.2024

Duration of Sample Analysis : 15.01.2024 TO 22.01.2024

Method of Sampling : APHA 1060B & 9060A

TEST RESULTS

Sr. No.	Parameters	Test Method	Result	Unit	Limit as per IS 10500:1991 (Reaff:2012)	
					Desirable	Permissible
1.	pH at 25 °C	APHA 4500H+A+B	7.35	-	6.5-8.5	No relaxation
2.	Temperature	APHA 2550-A+B	24.5	°C	Not Specified	Not Specified
3.	Colour	APHA 2120-B	<5.0	Hazen	5	15
4.	Turbidity	APHA 2130-A+B	<1.0	NTU	1	5
5.	Odour	APHA 2150-B	Agreeable	-	Agreeable	Agreeable
6.	Alkalinity	APHA 2320-A+B	160.0	mg/L	200	600
7.	Total Dissolved Solids	APHA2540-C	445.0	mg/L	500	2000
8.	Total Hardness	APHA 2340 A+C	168.0	mg/L	200	600
9.	Calcium	APHA 3500 Ca- A+B	40.5	mg/L	75	200
10.	Magnesium	APHA 3500 Mg A+B	16.3	mg/L	30	100
11.	Sodium	APHA 3500 Na, A+B	22.0	mg/L	-	-
12.	Phosphate	APHA 4500-PD	BDL	mg/L	-	-
13.	Sulfate	APHA 4500-SO42- E	24.6	mg/L	200	400
14.	Potassium	APHA 3500 K, A+B	10.0	mg/L	-	-

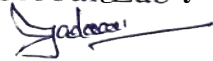
Page 1 of 3

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- The above Results are related to the tested sample only.

Review By:

Dr. Ashok Kumar
Technical Manager

Authorized Signatory

Authorised Signatory
D. K. Yadav
Lab In-charge

TEST REPORT CODE: VGL/W/24/01/15/026

TEST REPORT ISSUE DATE: 22.01.2024

**TEST REPORT (WATER)
PART – A (CHEMICAL)**

TEST RESULTS

15.	Nitrate	APHA 4500-NO3- B	8.8	mg/L	45.0	-
16.	Free Residual Chlorine	APHA 4500-Cl B	<0.2	mg/L	0.2	1.0
17.	Chloride	APHA 4500 Cl A+B	26.0	mg/L	250	1000
18.	Boron	APHA 4500 B A+C	BDL	mg/L	0.5	1.0
19.	Copper	APHA 3111 A+B	BDL	mg/L	0.05	1.5
20.	Cadmium	APHA 3111 A+B	BDL	mg/L	0.003	No relaxation
21.	Iron	APHA 3500 Fe B	0.20	mg/L	0.3	No relaxation
22.	Lead	APHA 3111 A+B	BDL	mg/L	0.01	No relaxation
23.	Nickel	APHA 3111 A+B	BDL	mg/L	0.02	No relaxation
24.	Zinc	APHA 3111 A+B	BDL	mg/L	5	15
25.	Fluoride	APHA 4500-C	0.79	mg/L	1.0	1.5
26.	Hexavalent Chromium	APHA 3500 B	ND	mg/L	0.001	No relaxation
27.	Electrical Conductivity	APHA 2510 B	735	µS/cm	No relaxation	No relaxation

Page 2 of 3


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Review By:


Ashok Kumar
Technical Manager

Virat Global Lab
Authorized Signatory


D. K. Yadav
Lab In-charge

TEST REPORT CODE: VGL/W/24/01/15/026

TEST REPORT ISSUE DATE: 22.01.2024


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

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

Page 3 of 3

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Review By:Dr. Ashok Kumar
Technical Manager**Authorized Signatory
Virat Global Lab**
Authorized Signatory
Sayeed Ahmad
Quality Manager

**TEST REPORT (SURFACE WATER)
(PART A – CHEMICAL)**

Name and Address of Customer	: M/s. J K CEMENT WORKS, PANNA, (A UNIT OF JK CEMENT LIMITED.) VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ, DISTT. - PANNA, 488441 (M.P)
Location of Sample	: KEN RIVER NEAR TIGHRA VILLAGE
Sample Description	: SURFACE WATER
Date & Time of Sampling	: 11.01.2024 10:12 AM
Sample Collected by	: VGL STAFF
Weather Condition	: CLEAR
Laboratory Sample Receiving Date	: 15.01.2024
Duration of Sample Analysis	: 15.01.2024 TO 22.01.2024
Method of Sampling	: APHA 1060B & 9060A

TEST RESULTS

Sr. No.	Parameters	Test Method	Result	Unit	Specification/Limit (As per IS:2296, Class C)
1.	pH	APHA 4500-H+	7.25	-	6.5 - 8.5
2.	Colour	APHA 2120-B	55.0	Hazen	300
3.	Turbidity	APHA 2130-A+B	1.5	NTU	-
4.	Total Dissolved Solids, (TDS)	APHA 2540-C	512	mg/L	1500
5.	Total Suspended Solid as TSS	APHA (2540-D)	26.0	mg/L	100
6.	Alkalinity	APHA 2320-A+B	192.0	mg/L	-
7.	Total Hardness	APHA 2340A+C	178.0	mg/L	-
8.	Dissolved Oxygen (DO)	APHA 4500:(O)-C	6.2	mg/L	4 (MIN)
9.	Biological Oxygen Demand (BOD 3days 27°C))	IS: 3025 (Part-44)	2.4	mg/L	3
10.	Chemical Oxygen Demand as COD	APHA (5220-B)	24.0	mg/L	250
11.	Chloride, (Cl)	APHA 4500:(Cl-)-B	52.0	mg/L	600
12.	Fluoride, (F)	APHA 4500:(F-)-D	0.65	mg/L	1.5
13.	Sulphate, (SO ₄)	APHA 4500:(SO ₄)-E	42.4	mg/L	400
14.	Phenolic Compound, (C ₆ H ₅ OH)	APHA 5530-C	<0.01	mg/L	Not Specified
15.	Oil & Grease, (O & G)	APHA 5520-D	< 2.0	mg/L	Not Specified
16.	Nitrate, (NO ₃)	APHA 4500:(NO ₃ -)-B	9.2	mg/L	50
17.	Arsenic, (As)	APHA 3120B	<0.01	mg/L	0.2
18.	Copper, (Cu)	APHA 3120B	<0.01	mg/L	Not Specified
19.	Iron, (Fe)	APHA-3120B	0.32	mg/L	Not Specified
20.	Zinc, (Zn)	APHA-3120B	<0.05	mg/L	Not Specified
21.	Cadmium, (Cd)	APHA 3120B	<0.01	mg/L	Not Specified
22.	Chromium, (Cr ⁺⁶)	APHA 3500:(Cr)-B	<0.01	mg/L	Not Specified
23.	Lead, (Pb)	APHA-3120B	<0.01	mg/L	0.1
24.	Mercury (Hg)	APHA-3112A+B	<0.01	mg/L	-

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Reviewed By:
Dr. Ashok Kumar
Technical Manager

Virat Global Lab
Authorized Signatory
Authorized Signatory
Lab In-charge

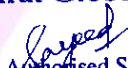
TEST REPORT (SURFACE WATER)
(PART A – BIOLOGICAL)**TEST RESULTS**

Sr. No.	Parameters	Test Method	Result	Unit	Specification/Limit (As per IS:2296, Class C)
25.	Total Coliform Count	APHA 9221 B	440.0	MPN/100 ml	500
26.	Faecal Coliform	APHA 9221 E	120.0	MPN/100 ml	-

Page 2 of 2

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Dr. Ashok Kumar
Technical Manager**Authorized Signatory**
Virat Global Lab
Authorized Signatory
Sayeed Ahmad
Quality Manager

TEST REPORT (SURFACE WATER) (PART A – CHEMICAL)

Name and Address of Customer	: M/s. J K CEMENT WORKS, PANNA, (A UNIT OF JK CEMENT LIMITED.) VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ, DISTT. - PANNA, 488441 (M.P)
Location of Sample	: KEN RIVER NEAR SINGAURA VILLAGE
Sample Description	: SURFACE WATER
Date & Time of Sampling	: 11.01.2024 10:30 AM
Sample Collected by	: VGL STAFF
Weather Condition	: CLEAR
Laboratory Sample Receiving Date	: 15.01.2024
Duration of Sample Analysis	: 15.01.2024 TO 22.01.2024
Method of Sampling	: APHA 1060B & 9060A

TEST RESULTS

Sr. No.	Parameters	Test Method	Result	Unit	Specification/Limit (As per IS:2296, Class C)
1.	pH	APHA 4500-H+	7.72	-	6.5 - 8.5
2.	Colour	APHA 2120-B	25.0	Hazen	300
3.	Turbidity	APHA 2130-A+B	1.8	NTU	-
4.	Total Dissolved Solids, (TDS)	APHA 2540-C	423.0	mg/L	1500
5.	Total Suspended Solid as TSS	APHA (2540-D)	15.0	mg/L	100
6.	Alkalinity	APHA 2320-A+B	170.0	mg/L	-
7.	Total Hardness	APHA 2340A+C	188.0	mg/L	-
8.	Dissolved Oxygen (DO)	APHA 4500:(O)-C	5.8	mg/L	4 (MIN)
9.	Biological Oxygen Demand (BOD 3days 27°C))	IS: 3025 (Part-44)	2.4	mg/L	3
10.	Chemical Oxygen Demand as COD	APHA (5220-B)	20.0	mg/L	250
11.	Chloride, (Cl)	APHA 4500:(Cl-)-B	58.0	mg/L	600
12.	Fluoride, (F)	APHA 4500:(F-)-D	0.59	mg/L	1.5
13.	Sulphate, (SO ₄)	APHA 4500:(SO ₄)-E	48.1	mg/L	400
14.	Phenolic Compound, (C ₆ H ₅ OH)	APHA 5530-C	<0.01	mg/L	Not Specified
15.	Oil & Grease, (O & G)	APHA 5520-D	< 2.0	mg/L	Not Specified
16.	Nitrate, (NO ₃)	APHA 4500:(NO ₃ -)-B	8.2	mg/L	50
17.	Arsenic, (As)	APHA 3120B	<0.01	mg/L	0.2
18.	Copper, (Cu)	APHA 3120B	<0.01	mg/L	Not Specified
19.	Iron, (Fe)	APHA-3120B	0.25	mg/L	Not Specified
20.	Zinc, (Zn)	APHA-3120B	<0.05	mg/L	Not Specified
21.	Cadmium, (Cd)	APHA 3120B	<0.01	mg/L	Not Specified
22.	Chromium, (Cr ⁺⁶)	APHA 3500:(Cr)-B	<0.01	mg/L	Not Specified
23.	Lead, (Pb)	APHA-3120B	<0.01	mg/L	0.1
24.	Mercury (Hg)	APHA-3112A+B	<0.01	mg/L	-

Page 1 of 2

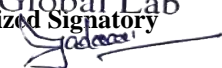
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Reviewed By

D. Ashok Kumar
Technical Manager

Virat Global Lab
Authorized Signatory


D. Ashok Kumar
Lab In-charge


TEST REPORT (SURFACE WATER)
(PART A – BIOLOGICAL)**TEST RESULTS**

Sr. No.	Parameters	Test Method	Result	Unit	Specification/Limit (As per IS:2296, Class C)
25.	Total Coliform Count	APHA 9221 B	220	MPN/100 ml	500
26.	Faecal Coliform	APHA 9221 E	79.0	MPN/100 ml	-

Page 2 of 2

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Dr. Ashok Kumar
Technical Manager**Authorized Signatory**
Virat Global Lab
Authorized Signatory
Sayeed Ahmad
Quality Manager

TEST REPORT (SURFACE WATER) (PART A – CHEMICAL)

Name and Address of Customer : M/s. J K CEMENT WORKS, PANNA,
(A UNIT OF JK CEMENT LIMITED.)
VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ,
DISTT. - PANNA, 488441 (M.P.)

Location of Sample : SONAR RIVER NEAR VILLAGE SANTA

Sample Description : SURFACE WATER

Date & Time of Sampling : 11.01.2024 12:02 PM

Sample Collected by : VGL STAFF

Weather Condition : CLEAR

Laboratory Sample Receiving Date : 15.01.2024

Duration of Sample Analysis : 15.01.2024 TO 22.01.2024

Method of Sampling : APHA 1060B & 9060A

TEST RESULTS

Sr. No.	Parameters	Test Method	Result	Unit	Specification/Limit (As per IS:2296, Class C)
1.	pH	APHA 4500-H+	7.35	-	6.5 - 8.5
2.	Colour	APHA 2120-B	15.0	Hazen	300
3.	Turbidity	APHA 2130-A+B	1.5	NTU	-
4.	Total Dissolved Solids, (TDS)	APHA 2540-C	356	mg/L	1500
5.	Total Suspended Solid as TSS	APHA (2540-D)	18.0	mg/L	100
6.	Alkalinity	APHA 2320-A+B	168.0	mg/L	-
7.	Total Hardness	APHA 2340A+C	142.0	mg/L	-
8.	Dissolved Oxygen (DO)	APHA 4500:(O)-C	6.8	mg/L	4 (MIN)
9.	Biological Oxygen Demand (BOD 3days 27°C)	IS: 3025 (Part-44)	2.5	mg/L	3
10.	Chemical Oxygen Demand as COD	APHA (5220-B)	16.0	mg/L	250
11.	Chloride, (Cl)	APHA 4500:(Cl-)-B	51.0	mg/L	600
12.	Fluoride, (F)	APHA 4500:(F-)-D	0.56	mg/L	1.5
13.	Sulphate, (SO ₄)	APHA 4500:(SO ₄)-E	36.5	mg/L	400
14.	Phenolic Compound, (C ₆ H ₅ OH)	APHA 5530-C	<0.01	mg/L	Not Specified
15.	Oil & Grease, (O & G)	APHA 5520-D	< 2.0	mg/L	Not Specified
16.	Nitrate, (NO ₃)	APHA 4500:(NO ₃ -)-B	8.9	mg/L	50
17.	Arsenic, (As)	APHA 3120B	<0.01	mg/L	0.2
18.	Copper, (Cu)	APHA 3120B	<0.01	mg/L	Not Specified
19.	Iron, (Fe)	APHA-3120B	0.23	mg/L	Not Specified
20.	Zinc, (Zn)	APHA-3120B	<0.05	mg/L	Not Specified
21.	Cadmium, (Cd)	APHA 3120B	<0.01	mg/L	Not Specified
22.	Chromium, (Cr ⁺⁶)	APHA 3500:(Cr)-B	<0.01	mg/L	Not Specified
23.	Lead, (Pb)	APHA-3120B	<0.01	mg/L	0.1
24.	Mercury (Hg)	APHA-3112A+B	<0.01	mg/L	-

Page 1 of 2

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Review By:
Ashok Kumar
Technical Manager

Virat Global Lab
Authorized Signatory

Ashok Kumar
Lab In-charge

Address: Ground Floor, Khasra No.973, BDS Hostel Campus, Opp. Gate No.2 CRPF Camp, Bijnaur, Sarojini Nagar, Lucknow (U.P.) – 226008, Mob. - +91-9990366186, 9415135012, 0522-7118739

E-mail: viratgloballab@gmail.com, ceo.viratlab@gmail.com, Web: www.viratlab.com

TEST REPORT CODE: VGL/W/24/01/15/036

TEST REPORT ISSUE DATE: 22.01.2024


TEST REPORT (SURFACE WATER)
(PART A – BIOLOGICAL)**TEST RESULTS**

Sr. No.	Parameters	Test Method	Result	Unit	Specification/Limit (As per IS:2296, Class C)
25.	Total Coliform Count	APHA 9221 B	280	MPN/100 ml	500
26.	Faecal Coliform	APHA 9221 E	110.0	MPN/100 ml	-

Page 2 of 2

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Dr. Ashok Kumar
Technical Manager**Authorized Signatory**
Virat Global Lab
Authorized Signatory
Sayeed Ahmad
Quality Manager

**TEST REPORT (SURFACE WATER)
(PART A – CHEMICAL)**

Name and Address of Customer	: M/s. J K CEMENT WORKS, PANNA, (A UNIT OF JK CEMENT LIMITED.) VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ, DISTT. - PANNA, 488441 (M.P)
Location of Sample	: NALA NEAR DEORA VILLAGE
Sample Description	: SURFACE WATER
Date & Time of Sampling	: 11.01.2024 12:55 PM
Sample Collected by	: VGL STAFF
Weather Condition	: CLEAR
Laboratory Sample Receiving Date	: 15.01.2024
Duration of Sample Analysis	: 15.01.2024 TO 22.01.2024
Method of Sampling	: APHA 1060B & 9060A

TEST RESULTS

Sr. No.	Parameters	Test Method	Result	Unit	Specification/Limit (As per IS:2296, Class C)
1.	pH	APHA 4500-H+	7.30	-	6.5 - 8.5
2.	Colour	APHA 2120-B	55.0	Hazen	300
3.	Turbidity	APHA 2130-A+B	1.2	NTU	-
4.	Total Dissolved Solids, (TDS)	APHA 2540-C	525	mg/L	1500
5.	Total Suspended Solid as TSS	APHA (2540-D)	48.0	mg/L	100
6.	Alkalinity	APHA 2320-A+B	252.0	mg/L	-
7.	Total Hardness	APHA 2340A+C	198.0	mg/L	-
8.	Dissolved Oxygen (DO)	APHA 4500:(O)-C	5.4	mg/L	4 (MIN)
9.	Biological Oxygen Demand (BOD 3days 27°C)	IS: 3025 (Part-44)	2.8	mg/L	3
10.	Chemical Oxygen Demand as COD	APHA (5220-B)	40.0	mg/L	250
11.	Chloride, (Cl)	APHA 4500:(Cl-)-B	68.0	mg/L	600
12.	Fluoride, (F)	APHA 4500:(F-)-D	0.69	mg/L	1.5
13.	Sulphate, (SO ₄)	APHA 4500:(SO ₄)-E	40.5	mg/L	400
14.	Phenolic Compound, (C ₆ H ₅ OH)	APHA 5530-C	<0.01	mg/L	Not Specified
15.	Oil & Grease, (O & G)	APHA 5520-D	< 2.0	mg/L	Not Specified
16.	Nitrate, (NO ₃)	APHA 4500:(NO ₃ -)-B	9.8	mg/L	50
17.	Arsenic, (As)	APHA 3120B	<0.01	mg/L	0.2
18.	Copper, (Cu)	APHA 3120B	<0.01	mg/L	Not Specified
19.	Iron, (Fe)	APHA-3120B	0.25	mg/L	Not Specified
20.	Zinc, (Zn)	APHA-3120B	<0.05	mg/L	Not Specified
21.	Cadmium, (Cd)	APHA 3120B	<0.01	mg/L	Not Specified
22.	Chromium, (Cr ⁺⁶)	APHA 3500:(Cr)-B	<0.01	mg/L	Not Specified
23.	Lead, (Pb)	APHA-3120B	<0.01	mg/L	0.1
24.	Mercury (Hg)	APHA-3112A+B	<0.01	mg/L	-

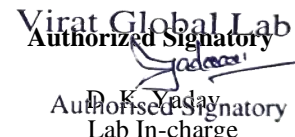
Page 1 of 2

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- Our test results are related to the tested sample only.



Ashok Kumar
Technical Manager



Virat Global Lab
Authorized Signatory
D.K. Yadav
Authorised Signatory
Lab In-charge


TEST REPORT (SURFACE WATER)
(PART A – BIOLOGICAL)**TEST RESULTS**

Sr. No.	Parameters	Test Method	Result	Unit	Specification/Limit (As per IS:2296, Class C)
25.	Total Coliform Count	APHA 9221 B	430	MPN/100 ml	500
26.	Faecal Coliform	APHA 9221 E	240.0	MPN/100 ml	-

Page 2 of 2

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**Dr. Ashok Kumar**
Technical Manager**Authorized Signatory**
Virat Global Lab
Authorized Signatory
Sayeed Ahmad
Quality Manager

TEST REPORT (SURFACE WATER) (PART A – CHEMICAL)

Name and Address of Customer	: M/s. J K CEMENT WORKS, PANNA, (A UNIT OF JK CEMENT LIMITED.) VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ, DISTT. - PANNA, 488441 (M.P)
Location of Sample	: POND NEAR CHIKHLA VILLAGE
Sample Description	: SURFACE WATER
Date & Time of Sampling	: 11.01.2024 01:30 PM
Sample Collected by	: VGL STAFF
Weather Condition	: CLEAR
Laboratory Sample Receiving Date	: 15.01.2024
Duration of Sample Analysis	: 15.01.2024 TO 22.01.2024
Method of Sampling	: APHA 1060B & 9060A

TEST RESULTS

Sr. No.	Parameters	Test Method	Result	Unit	Specification/Limit (As per IS:2296, Class C)
1.	pH	APHA 4500-H+	7.72	-	6.5 - 8.5
2.	Colour	APHA 2120-B	50.0	Hazen	300
3.	Turbidity	APHA 2130-A+B	1.8	NTU	-
4.	Total Dissolved Solids, (TDS)	APHA 2540-C	490	mg/L	1500
5.	Total Suspended Solid as TSS	APHA (2540-D)	45.0	mg/L	100
6.	Alkalinity	APHA 2320-A+ B	192.0	mg/L	-
7.	Total Hardness	APHA 2340 A+C	208.0	mg/L	-
8.	Dissolved Oxygen (DO)	APHA 4500:(O)-C	4.7	mg/L	4 (MIN)
9.	Biological Oxygen Demand (BOD 3days 27°C))	IS: 3025 (Part-44)	2.8	mg/L	3
10.	Chemical Oxygen Demand as COD	APHA (5220-B)	40.0	mg/L	250
11.	Chloride, (Cl)	APHA 4500:(Cl)-B	68.0	mg/L	600
12.	Fluoride, (F)	APHA 4500:(F)-D	0.68	mg/L	1.5
13.	Sulphate, (SO ₄)	APHA 4500:(SO ₄)-E	44.8	mg/L	400
14.	Phenolic Compound, (C ₆ H ₅ OH)	APHA 5530-C	<0.01	mg/L	Not Specified
15.	Oil & Grease, (O & G)	APHA 5520-D	< 2.0	mg/L	Not Specified
16.	Nitrate, (NO ₃)	APHA 4500:(NO ₃)-B	10.5	mg/L	50
17.	Arsenic, (As)	APHA 3120B	<0.01	mg/L	0.2
18.	Copper, (Cu)	APHA 3120B	<0.01	mg/L	Not Specified
19.	Iron, (Fe)	APHA-3120B	0.23	mg/L	Not Specified
20.	Zinc, (Zn)	APHA-3120B	<0.05	mg/L	Not Specified
21.	Cadmium, (Cd)	APHA 3120B	<0.01	mg/L	Not Specified
22.	Chromium, (Cr ⁺⁶)	APHA 3500:(Cr)-B	<0.01	mg/L	Not Specified
23.	Lead, (Pb)	APHA-3120B	<0.01	mg/L	0.1
24.	Mercury (Hg)	APHA-3112A+B	<0.01	mg/L	-

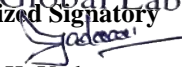
Page 1 of 2

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4. All laboratory Results are related to the tested sample only.

Review By:

 D. Ashok Kumar
 Technical Manager

Virat Global Lab
 Authorized Signatory

 D. K. Yadav
 Lab In-charge

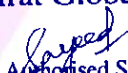
TEST REPORT (SURFACE WATER)
(PART A – BIOLOGICAL)**TEST RESULTS**

Sr. No.	Parameters	Test Method	Result	Unit	Specification/Limit (As per IS:2296, Class C)
25.	Total Coliform Count	APHA 9221 B	310	MPN/100 ml	500
26.	Faecal Coliform	APHA 9221 E	94.0	MPN/100 ml	-

Page 2 of 2

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Dr. Ashok Kumar
Technical Manager**Authorized Signatory**
Virat Global Lab
Authorized Signatory
Sayeed Ahmad
Quality Manager

TEST REPORT (SURFACE WATER) (PART A – CHEMICAL)

Name and Address of Customer	: M/s. J K CEMENT WORKS, PANNA, (A UNIT OF JK CEMENT LIMITED.) VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ, DISTT. - PANNA, 488441 (M.P)
Location of Sample	: POND NEAR UMRI VILLAGE
Sample Description	: SURFACE WATER
Date & Time of Sampling	: 11.01.2024 01:55 PM
Sample Collected by	: VGL STAFF
Weather Condition	: CLEAR
Laboratory Sample Receiving Date	: 15.01.2024
Duration of Sample Analysis	: 15.01.2024 TO 22.01.2024
Method of Sampling	: APHA 1060B & 9060A

TEST RESULTS

Sr. No.	Parameters	Test Method	Result	Unit	Specification/Limit (As per IS:2296, Class C)
1.	pH	APHA 4500-H+	7.13	-	6.5 - 8.5
2.	Colour	APHA 2120-B	40.0	Hazen	300
3.	Turbidity	APHA 2130-A+B	1.2	NTU	-
4.	Total Dissolved Solids, (TDS)	APHA 2540-C	440	mg/L	1500
5.	Total Suspended Solid as TSS	APHA (2540-D)	39.0	mg/L	100
6.	Alkalinity	APHA 2320-A+B	168.0	mg/L	-
7.	Total Hardness	APHA 2340 A+C	188.0	mg/L	-
8.	Dissolved Oxygen (DO)	APHA 4500:(O)-C	5.0	mg/L	4 (MIN)
9.	Biological Oxygen Demand (BOD 3days 27°C)	IS: 3025 (Part-44)	2.7	mg/L	3
10.	Chemical Oxygen Demand as COD	APHA (5220-B)	24.0	mg/L	250
11.	Chloride, (Cl)	APHA 4500:(Cl-)-B	54.0	mg/L	600
12.	Fluoride, (F)	APHA 4500:(F-)-D	0.62	mg/L	1.5
13.	Sulphate, (SO ₄)	APHA 4500:(SO ₄)-E	42.0	mg/L	400
14.	Phenolic Compound, (C ₆ H ₅ OH)	APHA 5530-C	<0.01	mg/L	Not Specified
15.	Oil & Grease, (O & G)	APHA 5520-D	< 2.0	mg/L	Not Specified
16.	Nitrate, (NO ₃)	APHA 4500:(NO ₃ -)-B	11.5	mg/L	50
17.	Arsenic, (As)	APHA 3120B	<0.01	mg/L	0.2
18.	Copper, (Cu)	APHA 3120B	<0.01	mg/L	Not Specified
19.	Iron, (Fe)	APHA-3120B	0.39	mg/L	Not Specified
20.	Zinc, (Zn)	APHA-3120B	<0.05	mg/L	Not Specified
21.	Cadmium, (Cd)	APHA 3120B	<0.01	mg/L	Not Specified
22.	Chromium, (Cr ⁺⁶)	APHA 3500:(Cr)-B	<0.01	mg/L	Not Specified
23.	Lead, (Pb)	APHA-3120B	<0.01	mg/L	0.1
24.	Mercury (Hg)	APHA-3112A+B	<0.01	mg/L	-

Page 1 of 2

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Review By:
Dr. Ashok Kumar
Technical Manager

Virat Global Lab
Authorized Signatory

Dr. Kishor Singh
Lab In-charge


TEST REPORT (SURFACE WATER)
(PART A – BIOLOGICAL)**TEST RESULTS**

Sr. No.	Parameters	Test Method	Result	Unit	Specification/Limit (As per IS:2296, Class C)
25.	Total Coliform Count	APHA 9221 B	430	MPN/100 ml	500
26.	Faecal Coliform	APHA 9221 E	170.0	MPN/100 ml	-

Page 2 of 2

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Dr. Ashok Kumar
Technical ManagerAuthorized Signatory,
Virat Global Lab
Authorized Signatory
Sayeed Ahmad
Quality Manager

TEST REPORT (SURFACE WATER) (PART A – CHEMICAL)

Name and Address of Customer : M/s. J K CEMENT WORKS, PANNA,
(A UNIT OF JK CEMENT LIMITED.)
VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ,
DISTT. - PANNA, 488441 (M.P.)

Location of Sample : BETEHA NALLA NEAR SURAJPUR

Sample Description : SURFACE WATER

Date & Time of Sampling : 11.01.2024 02:30 PM

Sample Collected by : VGL STAFF

Weather Condition : CLEAR

Laboratory Sample Receiving Date : 15.01.2024

Duration of Sample Analysis : 15.01.2024 TO 22.01.2024

Method of Sampling : APHA 1060B & 9060A

TEST RESULTS

Sr. No.	Parameters	Test Method	Result	Unit	Specification/Limit (As per IS:2296, Class C)
1.	pH	APHA 4500-H+	7.28	-	6.5 - 8.5
2.	Colour	APHA 2120-B	80.0	Hazen	300
3.	Turbidity	APHA 2130-A+B	2.1	NTU	-
4.	Total Dissolved Solids, (TDS)	APHA 2540-C	526	mg/L	1500
5.	Total Suspended Solid as TSS	APHA (2540-D)	60.0	mg/L	100
6.	Alkalinity	APHA 2320-A+B	210.0	mg/L	-
7.	Total Hardness	APHA 2340A+C	238.0	mg/L	-
8.	Dissolved Oxygen (DO)	APHA 4500:(O)-C	5.4	mg/L	4 (MIN)
9.	Biological Oxygen Demand (BOD 3days 27°C))	IS: 3025 (Part-44)	2.9	mg/L	3
10.	Chemical Oxygen Demand as COD	APHA (5220-B)	52.0	mg/L	250
11.	Chloride, (Cl)	APHA 4500:(Cl-)-B	68.0	mg/L	600
12.	Fluoride, (F)	APHA 4500:(F-)-D	0.56	mg/L	1.5
13.	Sulphate, (SO ₄)	APHA 4500:(SO ₄)-E	51.0	mg/L	400
14.	Phenolic Compound, (C ₆ H ₅ OH)	APHA 5530-C	<0.01	mg/L	Not Specified
15.	Oil & Grease, (O & G)	APHA 5520-D	< 2.0	mg/L	Not Specified
16.	Nitrate, (NO ₃)	APHA 4500:(NO ₃ -)-B	10.4	mg/L	50
17.	Arsenic, (As)	APHA 3120B	<0.01	mg/L	0.2
18.	Copper, (Cu)	APHA 3120B	<0.01	mg/L	Not Specified
19.	Iron, (Fe)	APHA-3120B	0.24	mg/L	Not Specified
20.	Zinc, (Zn)	APHA-3120B	<0.05	mg/L	Not Specified
21.	Cadmium, (Cd)	APHA 3120B	<0.01	mg/L	Not Specified
22.	Chromium, (Cr ⁺⁶)	APHA 3500:(Cr)-B	<0.01	mg/L	Not Specified
23.	Lead, (Pb)	APHA-3120B	<0.01	mg/L	0.1
24.	Mercury (Hg)	APHA-3112A+B	<0.01	mg/L	-

Page 1 of 2

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Review By
Lucknow
Dr. Ashok Kumar
Technical Manager

Virat Global Lab
Authorized Signatory
Auditor & Signatory
Lab In-charge

TEST REPORT CODE: VGL/W/24/01/15/040

TEST REPORT ISSUE DATE: 22.01.2024


TEST REPORT (SURFACE WATER)
(PART A – BIOLOGICAL)**TEST RESULTS**

Sr. No.	Parameters	Test Method	Result	Unit	Specification/Limit (As per IS:2296, Class C)
25.	Total Coliform Count	APHA 9221 B	470	MPN/100 ml	500
26.	Faecal Coliform	APHA 9221 E	170.0	MPN/100 ml	-

Page 2 of 2

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Dr. Ashok Kumar
Technical Manager**Authorized Signatory**
Virat Global Lab
Authorized Signatory
Sayeed Ahmad
Quality Manager

TEST REPORT (SURFACE WATER) (PART A – CHEMICAL)

Name and Address of Customer	: M/s. J K CEMENT WORKS, PANNA, (A UNIT OF JK CEMENT LIMITED.) VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ, DISTT. - PANNA, 488441 (M.P)
Location of Sample	: POND NEAR AMANGANJ
Sample Description	: SURFACE WATER
Date & Time of Sampling	: 11.01.2024 02:50 PM
Sample Collected by	: VGL STAFF
Weather Condition	: CLEAR
Laboratory Sample Receiving Date	: 15.01.2024
Duration of Sample Analysis	: 15.01.2024 TO 22.01.2024
Method of Sampling	: APHA 1060B & 9060A

TEST RESULTS

Sr. No.	Parameters	Test Method	Result	Unit	Specification/Limit (As per IS:2296, Class C)
1.	pH	APHA 4500-H+	7.32	-	6.5 - 8.5
2.	Colour	APHA 2120-B	30.0	Hazen	300
3.	Turbidity	APHA 2130-A+B	1.1	NTU	-
4.	Total Dissolved Solids, (TDS)	APHA 2540-C	410	mg/L	1500
5.	Total Suspended Solid as TSS	APHA (2540-D)	30.0	mg/L	100
6.	Alkalinity	APHA 2320-A+B	175.0	mg/L	-
7.	Total Hardness	APHA 2340A+C	160.0	mg/L	-
8.	Dissolved Oxygen (DO)	APHA 4500:(O)-C	5.2	mg/L	4 (MIN)
9.	Biological Oxygen Demand (BOD 3days 27°C)	IS: 3025 (Part-44)	2.5	mg/L	3
10.	Chemical Oxygen Demand as COD	APHA (5220-B)	40.0	mg/L	250
11.	Chloride, (Cl)	APHA 4500:(Cl-)-B	52.0	mg/L	600
12.	Fluoride, (F)	APHA 4500:(F-)-D	0.67	mg/L	1.5
13.	Sulphate, (SO ₄)	APHA 4500:(SO ₄)-E	47.5	mg/L	400
14.	Phenolic Compound, (C ₆ H ₅ OH)	APHA 5530-C	<0.01	mg/L	Not Specified
15.	Oil & Grease, (O & G)	APHA 5520-D	< 2.0	mg/L	Not Specified
16.	Nitrate, (NO ₃)	APHA 4500:(NO ₃ -)-B	9.2	mg/L	50
17.	Arsenic, (As)	APHA 3120B	<0.01	mg/L	0.2
18.	Copper, (Cu)	APHA 3120B	<0.01	mg/L	Not Specified
19.	Iron, (Fe)	APHA-3120B	0.21	mg/L	Not Specified
20.	Zinc, (Zn)	APHA-3120B	<0.05	mg/L	Not Specified
21.	Cadmium, (Cd)	APHA 3120B	<0.01	mg/L	Not Specified
22.	Chromium, (Cr ⁺⁶)	APHA 3500:(Cr)-B	<0.01	mg/L	Not Specified
23.	Lead, (Pb)	APHA-3120B	<0.01	mg/L	0.1
24.	Mercury (Hg)	APHA-3112A+B	<0.01	mg/L	-

Page 1 of 2

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Review By
Dr. Ashok Kumar
Technical Manager

Virat Global Lab
Authorized Signatory

Dr. Anil Kumar
Lab In-charge


TEST REPORT (SURFACE WATER)
(PART A – BIOLOGICAL)**TEST RESULTS**

Sr. No.	Parameters	Test Method	Result	Unit	Specification/Limit (As per IS:2296, Class C)
25.	Total Coliform Count	APHA 9221 B	350	MPN/100 ml	500
26.	Faecal Coliform	APHA 9221 E	170.0	MPN/100 ml	-

Page 2 of 2

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Dr. Ashok Kumar
Technical Manager**Authorized Signatory**
Virat Global Lab
Authorized Signatory
Sayeed Ahmad
Quality Manager

TEST REPORT (SURFACE WATER) (PART A – CHEMICAL)

Name and Address of Customer	: M/s. J K CEMENT WORKS, PANNA, (A UNIT OF JK CEMENT LIMITED.) VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ, DISTT. - PANNA, 488441 (M.P)
Location of Sample	: MIRHASAN RIVER NEAR AMANGANJ
Sample Description	: SURFACE WATER
Date & Time of Sampling	: 11.01.2024 03:10 PM
Sample Collected by	: VGL STAFF
Weather Condition	: CLEAR
Laboratory Sample Receiving Date	: 15.01.2024
Duration of Sample Analysis	: 15.01.2024 TO 22.01.2024
Method of Sampling	: APHA 1060B & 9060A

TEST RESULTS

Sr. No.	Parameters	Test Method	Result	Unit	Specification/Limit (As per IS:2296, Class C)
1.	pH	APHA 4500-H+	7.36	-	6.5 - 8.5
2.	Colour	APHA 2120-B	25.0	Hazen	300
3.	Turbidity	APHA 2130-A+B	1.2	NTU	-
4.	Total Dissolved Solids, (TDS)	APHA 2540-C	428	mg/L	1500
5.	Total Suspended Solid as TSS	APHA (2540-D)	22.0	mg/L	100
6.	Alkalinity	APHA 2320-A+B	140.0	mg/L	-
7.	Total Hardness	APHA 2340 A+C	168.0	mg/L	-
8.	Dissolved Oxygen (DO)	APHA 4500:(O)-C	5.9	mg/L	4 (MIN)
9.	Biological Oxygen Demand (BOD 3days 27°C)	IS: 3025 (Part-44)	2.6	mg/L	3
10.	Chemical Oxygen Demand as COD	APHA (5220-B)	28.0	mg/L	250
11.	Chloride, (Cl)	APHA 4500:(Cl-)-B	48.0	mg/L	600
12.	Fluoride, (F)	APHA 4500:(F-)-D	0.56	mg/L	1.5
13.	Sulphate, (SO ₄)	APHA 4500:(SO ₄)-E	47.2	mg/L	400
14.	Phenolic Compound, (C ₆ H ₅ OH)	APHA 5530-C	<0.01	mg/L	Not Specified
15.	Oil & Grease, (O & G)	APHA 5520-D	< 2.0	mg/L	Not Specified
16.	Nitrate, (NO ₃)	APHA 4500:(NO ₃ -)-B	8.2	mg/L	50
17.	Arsenic, (As)	APHA 3120B	<0.01	mg/L	0.2
18.	Copper, (Cu)	APHA 3120B	<0.01	mg/L	Not Specified
19.	Iron, (Fe)	APHA-3120B	0.23	mg/L	Not Specified
20.	Zinc, (Zn)	APHA-3120B	<0.05	mg/L	Not Specified
21.	Cadmium, (Cd)	APHA 3120B	<0.01	mg/L	Not Specified
22.	Chromium, (Cr ⁺⁶)	APHA 3500:(Cr)-B	<0.01	mg/L	Not Specified
23.	Lead, (Pb)	APHA-3120B	<0.01	mg/L	0.1
24.	Mercury (Hg)	APHA-3112A+B	<0.01	mg/L	-

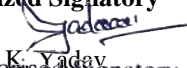
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Review By:

 Dr. Ashok Kumar
 Technical Manager

Virat Global Lab
 Authorized Signatory

 D. K. Yadav
 Authorised Signatory
 Lab In-charge


TEST REPORT (SURFACE WATER)
(PART A – BIOLOGICAL)**TEST RESULTS**

Sr. No.	Parameters	Test Method	Result	Unit	Specification/Limit (As per IS:2296, Class C)
25.	Total Coliform Count	APHA 9221 B	210	MPN/100 ml	500
26.	Faecal Coliform	APHA 9221 E	94.0	MPN/100 ml	-

Page 2 of 2

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Dr. Ashok Kumar
Technical Manager**Authorized Signatory**
Virat Global Lab
Authorized Signatory
Sayeed Ahmad
Quality Manager

TEST REPORT (SURFACE WATER)
(PART A – CHEMICAL)

Name and Address of Customer	: M/s. J K CEMENT WORKS, PANNA, (A UNIT OF JK CEMENT LIMITED.) VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ, DISTT. - PANNA, 488441 (M.P)
Location of Sample	: BERMA RIVER NEAR GAISABAD VILLAGE
Sample Description	: SURFACE WATER
Date & Time of Sampling	: 11.01.2024 03:30 PM
Sample Collected by	: VGL STAFF
Weather Condition	: CLEAR
Laboratory Sample Receiving Date	: 15.01.2024
Duration of Sample Analysis	: 15.01.2024 TO 22.01.2024
Method of Sampling	: APHA 1060B & 9060A

TEST RESULTS

Sr. No.	Parameters	Test Method	Result	Unit	Specification/Limit (As per IS:2296, Class C)
1.	pH	APHA 4500-H+	7.32	-	6.5 - 8.5
2.	Colour	APHA 2120-B	20.0	Hazen	300
3.	Turbidity	APHA 2130-A+B	1.5	NTU	-
4.	Total Dissolved Solids, (TDS)	APHA 2540-C	458	mg/L	1500
5.	Total Suspended Solid as TSS	APHA (2540-D)	40.0	mg/L	100
6.	Alkalinity	APHA 2320-A+B	180.0	mg/L	-
7.	Total Hardness	APHA 2340 A+C	192.0	mg/L	-
8.	Dissolved Oxygen (DO)	APHA 4500:(O)-C	5.5	mg/L	4 (MIN)
9.	Biological Oxygen Demand (BOD 3days 27°C)	IS: 3025 (Part-44)	2.6	mg/L	3
10.	Chemical Oxygen Demand as COD	APHA (5220-B)	24.0	mg/L	250
11.	Chloride, (Cl)	APHA 4500:(Cl-)-B	44.5	mg/L	600
12.	Fluoride, (F)	APHA 4500:(F-)-D	0.59	mg/L	1.5
13.	Sulphate, (SO ₄)	APHA 4500:(SO ₄)-E	48.4	mg/L	400
14.	Phenolic Compound, (C ₆ H ₅ OH)	APHA 5530-C	<0.01	mg/L	Not Specified
15.	Oil & Grease, (O & G)	APHA 5520-D	< 2.0	mg/L	Not Specified
16.	Nitrate, (NO ₃)	APHA 4500:(NO ₃ -)-B	9.5	mg/L	50
17.	Arsenic, (As)	APHA 3120B	<0.01	mg/L	0.2
18.	Copper, (Cu)	APHA 3120B	<0.01	mg/L	Not Specified
19.	Iron, (Fe)	APHA-3120B	0.25	mg/L	Not Specified
20.	Zinc, (Zn)	APHA-3120B	<0.05	mg/L	Not Specified
21.	Cadmium, (Cd)	APHA 3120B	<0.01	mg/L	Not Specified
22.	Chromium, (Cr ⁺⁶)	APHA 3500:(Cr)-B	<0.01	mg/L	Not Specified
23.	Lead, (Pb)	APHA-3120B	<0.01	mg/L	0.1
24.	Mercury (Hg)	APHA-3112A+B	<0.01	mg/L	-

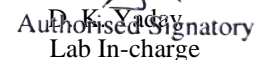
Page 1 of 2

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


D. Ashok Kumar

Technical Manager

Virat Global Lab
Authorized Signatory
D. K. Yadav
Authorized Signatory
Lab In-charge**Address: Ground Floor, Khasra No.973, BDS Hostel Campus, Opp. Gate No.2 CRPF Camp, Bijnaur,
Sarojini Nagar, Lucknow (U.P.) – 226008, Mob. - +91-9990366186, 9415135012, 0522-7118739****E-mail: viratgloballab@gmail.com, ceo.viratlab@gmail.com, Web: www.viratlab.com**


TEST REPORT (SURFACE WATER)
(PART A – BIOLOGICAL)**TEST RESULTS**

Sr. No.	Parameters	Test Method	Result	Unit	Specification/Limit (As per IS:2296, Class C)
25.	Total Coliform Count	APHA 9221 B	390	MPN/100 ml	500
26.	Faecal Coliform	APHA 9221 E	120.0	MPN/100 ml	-

Page 2 of 2

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

Dr. Ashok Kumar
Technical Manager**Authorized Signatory**
Virat Global Lab
Authorized Signatory
Sayeed Ahmad
Quality Manager

TEST REPORT (SURFACE WATER) (PART A – CHEMICAL)

Name and Address of Customer	: M/s. J K CEMENT WORKS, PANNA, (A UNIT OF JK CEMENT LIMITED.) VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ, DISTT. - PANNA, 488441 (M.P)
Location of Sample	: POND NEAR PAGRA VILLAGE
Sample Description	: SURFACE WATER
Date & Time of Sampling	: 11.01.2024 04:00 PM
Sample Collected by	: VGL STAFF
Weather Condition	: CLEAR
Laboratory Sample Receiving Date	: 15.01.2024
Duration of Sample Analysis	: 15.01.2024 TO 22.01.2024
Method of Sampling	: APHA 1060B & 9060A

TEST RESULTS

Sr. No.	Parameters	Test Method	Result	Unit	Specification/Limit (As per IS:2296, Class C)
1.	pH	APHA 4500-H+	7.59	-	6.5 - 8.5
2.	Colour	APHA 2120-B	60.0	Hazen	300
3.	Turbidity	APHA 2130-A+B	1.5	NTU	-
4.	Total Dissolved Solids, (TDS)	APHA 2540-C	454	mg/L	1500
5.	Total Suspended Solid as TSS	APHA (2540-D)	25.0	mg/L	100
6.	Alkalinity	APHA 2320-A+B	185.0	mg/L	-
7.	Total Hardness	APHA 2340A+C	210.0	mg/L	-
8.	Dissolved Oxygen (DO)	APHA 4500:(O)-C	6.5	mg/L	4 (MIN)
9.	Biological Oxygen Demand (BOD 3days 27°C)	IS: 3025 (Part-44)	2.9	mg/L	3
10.	Chemical Oxygen Demand as COD	APHA (5220-B)	40.0	mg/L	250
11.	Chloride, (Cl)	APHA 4500:(Cl-)-B	54.5	mg/L	600
12.	Fluoride, (F)	APHA 4500:(F-)-D	0.49	mg/L	1.5
13.	Sulphate, (SO ₄)	APHA 4500:(SO ₄)-E	60.4	mg/L	400
14.	Phenolic Compound, (C ₆ H ₅ OH)	APHA 5530-C	<0.01	mg/L	Not Specified
15.	Oil & Grease, (O & G)	APHA 5520-D	< 2.0	mg/L	Not Specified
16.	Nitrate, (NO ₃)	APHA 4500:(NO ₃ -)-B	9.52	mg/L	50
17.	Arsenic, (As)	APHA 3120B	<0.01	mg/L	0.2
18.	Copper, (Cu)	APHA 3120B	<0.01	mg/L	Not Specified
19.	Iron, (Fe)	APHA-3120B	0.25	mg/L	Not Specified
20.	Zinc, (Zn)	APHA-3120B	<0.05	mg/L	Not Specified
21.	Cadmium, (Cd)	APHA 3120B	<0.01	mg/L	Not Specified
22.	Chromium, (Cr ⁺⁶)	APHA 3500:(Cr)-B	<0.01	mg/L	Not Specified
23.	Lead, (Pb)	APHA-3120B	<0.01	mg/L	0.1
24.	Mercury (Hg)	APHA-3112A+B	<0.01	mg/L	-

Page 1 of 2

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

Review By
Lacknow
D. Ashok Kumar
Technical Manager

Virat Global Lab
Authorized Signatory
A. K. S. S. S.
Lab In-charge

TEST REPORT CODE: VGL/W/24/01/15/044

TEST REPORT ISSUE DATE: 22.01.2024

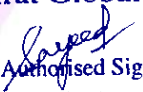
TEST REPORT (SURFACE WATER)
(PART A – BIOLOGICAL)**TEST RESULTS**

Sr. No.	Parameters	Test Method	Result	Unit	Specification/Limit (As per IS:2296, Class C)
25.	Total Coliform Count	APHA 9221 B	430	MPN/100 ml	500
26.	Faecal Coliform	APHA 9221 E	150.0	MPN/100 ml	-

Page 2 of 2

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

Dr. Ashok Kumar
Technical Manager**Authorized Signatory**
Virat Global Lab
Authorized Signatory
Sayeed Ahmad
Quality Manager

TEST REPORT (SURFACE WATER) (PART A – CHEMICAL)

Name and Address of Customer	: M/s. J K CEMENT WORKS, PANNA, (A UNIT OF JK CEMENT LIMITED.) VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ, DISTT. - PANNA, 488441 (M.P)
Location of Sample	: POND PURAINA VILLAGE
Sample Description	: SURFACE WATER
Date & Time of Sampling	: 11.01.2024 04:20 PM
Sample Collected by	: VGL STAFF
Weather Condition	: CLEAR
Laboratory Sample Receiving Date	: 15.01.2024
Duration of Sample Analysis	: 15.01.2024 TO 22.01.2024
Method of Sampling	: APHA 1060B & 9060A

TEST RESULTS

Sr. No.	Parameters	Test Method	Result	Unit	Specification/Limit (As per IS:2296, Class C)
1.	pH	APHA 4500-H+	7.85	-	6.5 - 8.5
2.	Colour	APHA 2120-B	55.0	Hazen	300
3.	Turbidity	APHA 2130-A+B	1.5	NTU	-
4.	Total Dissolved Solids, (TDS)	APHA 2540-C	412	mg/L	1500
5.	Total Suspended Solid as TSS	APHA (2540-D)	48.0	mg/L	100
6.	Alkalinity	APHA 2320-A+B	180.0	mg/L	-
7.	Total Hardness	APHA 2340 A+C	196.0	mg/L	-
8.	Dissolved Oxygen (DO)	APHA 4500:(O)-C	5.5	mg/L	4 (MIN)
9.	Biological Oxygen Demand (BOD 3days 27°C)	IS: 3025 (Part-44)	2.8	mg/L	3
10.	Chemical Oxygen Demand as COD	APHA (5220-B)	44.0	mg/L	250
11.	Chloride, (Cl)	APHA 4500:(Cl-)-B	48.0	mg/L	600
12.	Fluoride, (F)	APHA 4500:(F-)-D	0.86	mg/L	1.5
13.	Sulphate, (SO ₄)	APHA 4500:(SO ₄)-E	55.8	mg/L	400
14.	Phenolic Compound, (C ₆ H ₅ OH)	APHA 5530-C	<0.01	mg/L	Not Specified
15.	Oil & Grease, (O & G)	APHA 5520-D	< 2.0	mg/L	Not Specified
16.	Nitrate, (NO ₃)	APHA 4500:(NO ₃ -)-B	9.5	mg/L	50
17.	Arsenic, (As)	APHA 3120B	<0.01	mg/L	0.2
18.	Copper, (Cu)	APHA 3120B	<0.01	mg/L	Not Specified
19.	Iron, (Fe)	APHA-3120B	0.24	mg/L	Not Specified
20.	Zinc, (Zn)	APHA-3120B	<0.05	mg/L	Not Specified
21.	Cadmium, (Cd)	APHA 3120B	<0.01	mg/L	Not Specified
22.	Chromium, (Cr ⁺⁶)	APHA 3500:(Cr)-B	<0.01	mg/L	Not Specified
23.	Lead, (Pb)	APHA-3120B	<0.01	mg/L	0.1
24.	Mercury (Hg)	APHA-3112A+B	<0.01	mg/L	-

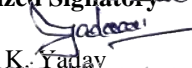
Page 1 of 2

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4. The above results are related to the tested sample only.

Review By:

Dr. Ashok Kumar
Technical Manager

Virat Global Lab
Authorized Signatory

Dr. K. Yadav
Authorized Signatory
Lab In-charge

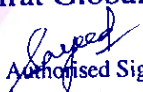
TEST REPORT (SURFACE WATER)
(PART A – BIOLOGICAL)**TEST RESULTS**

Sr. No.	Parameters	Test Method	Result	Unit	Specification/Limit (As per IS:2296, Class C)
25.	Total Coliform Count	APHA 9221 B	280	MPN/100 ml	500
26.	Faecal Coliform	APHA 9221 E	94.0	MPN/100 ml	-

Page 2 of 2

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

Dr. Ashok Kumar
Technical ManagerAuthorized Signatory
Virat Global Lab
Authorized Signatory
Sayeed Ahmad
Quality Manager

TEST REPORT (SURFACE WATER) (PART A – CHEMICAL)

Name and Address of Customer	: M/s J K CEMENT WORKS, PANN, (A UNIT OF JK CEMENT LIMITED, VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ, DISTT. - PANNA, (M.P)
Location of Sample	: RUNOFF WATER IN KONI MINES
Sample Description	: SURFACE WATER
Date & Time of Sampling	: 12.01.2024 5:00 PM
Sample Collected by	: VGL STAFF
Weather Condition	: CLEAR
Laboratory Sample Receiving Date	: 15.01.2024
Duration of Sample Analysis	: 15.01.2024 TO 22.01.2024
Method of Sampling	: APHA 1060B & 9060A

TEST RESULTS

Sr. No.	Parameters	Test Method	Result	Unit	Specification/Limit (As per IS:2296, Class C)
1.	pH	APHA 4500-H+	7.61	-	6.5 - 8.5
2.	Colour	APHA 2120-B	45.0	Hazen	300
3.	Turbidity	APHA 2130-A+B	1.8	NTU	-
4.	Total Dissolved Solids, (TDS)	APHA 2540-C	462	mg/L	1500
5.	Total Suspended Solid as TSS	APHA (2540-D)	25.1	mg/L	100
6.	Alkalinity	APHA 2320-A+B	195	mg/L	-
7.	Total Hardness	APHA 2340 A+C	161	mg/L	-
8.	Dissolved Oxygen (DO)	APHA 4500:(O)-C	5.0	mg/L	4
9.	Biological Oxygen Demand (BOD _{3d27°C})	IS: 3025 (Part-44)	2.4	mg/L	3
10.	Chemical Oxygen Demand as COD	APHA (5220-B)	22.8	mg/L	250
11.	Chloride, (Cl)	APHA 4500:(Cl)-B	46.0	mg/L	600
12.	Fluoride, (F)	APHA 4500:(F)-D	0.80	mg/L	1.5
13.	Sulphate, (SO ₄)	APHA 4500:(SO ₄)-E	41.5	mg/L	400
14.	Phenolic Compound, (C ₆ H ₅ OH)	APHA 5530-C	<0.01	mg/L	Not Specified
15.	Oil & Grease, (O & G)	APHA 5520-D	< 2.0	mg/L	Not Specified
16.	Nitrate, (NO ₃)	APHA 4500:(NO ₃)-B	9.8	mg/L	50
17.	Arsenic, (As)	APHA 3120B	<0.01	mg/L	0.2
18.	Copper, (Cu)	APHA 3120B	<0.01	mg/L	Not Specified
19.	Iron, (Fe)	APHA-3120B	0.25	mg/L	Not Specified
20.	Zinc, (Zn)	APHA-3120B	<0.05	mg/L	Not Specified
21.	Cadmium, (Cd)	APHA 3120B	<0.01	mg/L	Not Specified
22.	Chromium, (Cr ⁺⁶)	APHA 3500:(Cr)-B	<0.01	mg/L	Not Specified
23.	Lead, (Pb)	APHA-3120B	<0.01	mg/L	0.1
24.	Mercury (Hg)	APHA-3112A+B	<0.01	mg/L	-

Page 1 of 2

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4. The above Results are related to the tested sample only.

Reviewed By

Dr. Ashok Kumar
Technical Manager

Authorized Signatory

(Signature)
D. K. Yadav
Authorised Signatory
Lab In-charge


**TEST REPORT (SURFACE WATER)
(PART A – BIOLOGICAL)****TEST RESULTS**

Sr. No.	Parameters	Test Method	Result	Unit	Specification/Limit (As per IS:2296, Class C)
25.	Total Coliform Count	APHA 9221 B	540	MPN/100 ml	500
26.	Faecal Coliform	APHA 9221 E	220.0	MPN/100 ml	-

Page 2 of 2

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

Dr. Ashok Kumar
Technical Manager**Authorized Signatory
Virat Global Lab**
Authorized Signatory
Sayeed Ahmad
Quality Manager

Test Report Code : VGL/N/24/01/15/028

Report Issue Date : 22.01.2024

TEST REPORT (NOISE)

Name and Address of Customer : M/s. J K CEMENT WORKS, PANNA
(A UNIT OF JK CEMENT LIMITED.)
VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ,
DISTT. - PANNA, 488441 (M.P)

Sampling Location : NEAR OFFICE AREA (KAKRA MINE)

Date & Duration of Sampling : 11.01.2024 & 24 Hrs.

Sampling Done by : ASHISH KUMAR

Method of Sampling : IS:9989

Sample Receiving Date : 15.01.2024

Sample processing Date : 15.01.2024

AMBIENT NOISE RESULT

Sl. No.	Locations	Day Time		Night Time	
		Time	Leq Value in dB(A)	Time	Leq Value in dB(A)
1.	KAKRA MINE	6:00 AM TO 10:00 PM	51.3	10.00 PM TO 6:00 AM	46.3

NOISE (AMBIENT STANDARDS AS PER CPCB)

Area Code	Category of Area	Limit in dB (A) Leq	
		Day Time	Night Time
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

Page 1 of 1

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4. The above results are related to the tested sample only.

Dr. Ashok Kumar
Technical ManagerVirat Global Lab
Authorized Signatory

Authorized Signatory

D. K. Yadav
Lab In-charge

Test Report Code : VGL/N/24/01/15/029

Report Issue Date : 22.01.2024

TEST REPORT (NOISE)

Name and Address of Customer : M/s. J K CEMENT WORKS, PANNA
(A UNIT OF JK CEMENT LIMITED.)
VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ,
DISTT. - PANNA, 488441 (M.P)

Sampling Location : NEAR CRUSHER PLANT (KAKRA MINE)

Date & Duration of Sampling : 11.01.2024 & 24 Hrs.

Sampling Done by : ASHISH KUMAR

Method of Sampling : IS:9989

Sample Receiving Date : 15.01.2024

Sample processing Date : 15.01.2024

AMBIENT NOISE RESULT

Sl. No.	Locations	Day Time		Night Time	
		Time	Leq Value in dB(A)	Time	Leq Value in dB(A)
1.	KAKRA CRUSHER	6:00 AM TO 10:00 PM	61.2	10.00 PM TO 6:00 AM	50.7

NOISE (AMBIENT STANDARDS AS PER CPCB)

Area Code	Category of Area	Limit in dB (A) Leq	
		Day Time	Night Time
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

Page 1 of 1

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Dr. Ashok Kumar
Technical ManagerVirat Global Lab
Authorized Signatory

Authorised Signatory

D. K. Yadav
Lab In-charge

Test Report Code : VGL/N/24/01/15/030

Report Issue Date : 22.01.2024

TEST REPORT (NOISE)

Name and Address of Customer : M/s. J K CEMENT WORKS, PANNA
(A UNIT OF JK CEMENT LIMITED.)
VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ,
DISTT. - PANNA, 488441 (M.P)

Sampling Location : MINES PIT AREA (KAKRA MINE)

Date & Duration of Sampling : 11.01.2024 & 24 Hrs.

Sampling Done by : ASHISH KUMAR

Method of Sampling : IS:9989

Sample Receiving Date : 15.01.2024

Sample processing Date : 15.01.2024

AMBIENT NOISE RESULT

Sl. No.	Locations	Day Time		Night Time	
		Time	Leq Value in dB(A)	Time	Leq Value in dB(A)
1.	KAKRA CRUSHER BACK SIDE	6:00 AM TO 10:00 PM	55.6	10.00 PM TO 6:00 AM	48.6

NOISE (AMBIENT STANDARDS AS PER CPCB)

Area Code	Category of Area	Limit in dB (A) Leq	
		Day Time	Night Time
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

Page 1 of 1

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Dr. Ashok Kumar
Technical ManagerVirat Global Lab
Authorized Signatory

Authorized Signatory

D. K. Yadav
Lab In-charge

Test Report Code : VGL/N/24/01/15/031

Report Issue Date : 22.01.2024

TEST REPORT (NOISE)

Name and Address of Customer : M/s. J K CEMENT WORKS, PANNA
(A UNIT OF JK CEMENT LIMITED.)
VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ,
DISTT. - PANNA, 488441 (M.P)

Sampling Location : NEAR SECURTY CABIN (KAKRA MINE)

Date & Duration of Sampling : 11.01.2024 & 24 Hrs.

Sampling Done by : ASHISH KUMAR

Method of Sampling : IS:9989

Sample Receiving Date : 15.01.2024

Sample processing Date : 15.01.2024

AMBIENT NOISE RESULT

Sl. No.	Locations	Day Time		Night Time	
		Time	Leq Value in dB(A)	Time	Leq Value in dB(A)
1.	NEAR KAKRA MINE SECURTY CABIN	6:00 AM TO 10:00 PM	57.6	10.00 PM TO 6:00 AM	52.8

NOISE (AMBIENT STANDARDS AS PER CPCB)

Area Code	Category of Area	Limit in dB (A) Leq	
		Day Time	Night Time
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

Page 1 of 1

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Dr. Ashok Kumar
Technical ManagerVirat Global Lab
Authorized Signatory

Authorized Signatory

D. K. Yadav
Lab In-charge

Test Report Code : VGL/N/24/01/15/032

Report Issue Date : 22.01.2024

TEST REPORT (NOISE)

Name and Address of Customer : M/s. J K CEMENT WORKS, PANNA
(A UNIT OF JK CEMENT LIMITED.)
VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ,
DISTT. - PANNA, 488441 (M.P)

Sampling Location : KAKRA VILLAGE

Date & Duration of Sampling : 11.01.2024 & 24 Hrs.

Sampling Done by : ASHISH KUMAR

Method of Sampling : IS:9989

Sample Receiving Date : 15.01.2024

Sample processing Date : 15.01.2024

AMBIENT NOISE RESULT

Sl. No.	Locations	Day Time		Night Time	
		Time	Leq Value in dB(A)	Time	Leq Value in dB(A)
1.	NEAR KAKRA MINE SECURTY CABIN	6:00 AM TO 10:00 PM	51.4	10.00 PM TO 6:00 AM	41.2

NOISE (AMBIENT STANDARDS AS PER CPCB)

Area Code	Category of Area	Limit in dB (A) Leq	
		Day Time	Night Time
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

Page 1 of 1

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Dr. Ashok Kumar
Technical ManagerVirat Global Lab
Authorized Signatory

Authorised Signatory

D. K. Yadav
Lab In-charge

Test Report Code : VGL/N/24/01/15/047

Report Issue Date : 22.01.2024

TEST REPORT (NOISE)

Name and Address of Customer : M/s. J K CEMENT WORKS, PANNA
(A UNIT OF JK CEMENT LIMITED.)
VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ,
DISTT. - PANNA, 488441 (M.P)

Sampling Location : PURAINA VILLAGE

Date & Duration of Sampling : 11.01.2024 & 24 Hrs.

Sampling Done by : VIRENDRA KUMAR

Method of Sampling : IS:9989

Sample Receiving Date : 15.01.2024

Sample processing Date : 15.01.2024

AMBIENT NOISE RESULT

Sl. No.	Locations	Day Time		Night Time	
		Time	Leq Value in dB(A)	Time	Leq Value in dB(A)
1.	PURAINA VILLAGE	6:00 AM TO 10:00 PM	52.2	10.00 PM TO 6:00 AM	41.8

NOISE (AMBIENT STANDARDS AS PER CPCB)

Area Code	Category of Area	Limit in dB (A) Leq	
		Day Time	Night Time
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

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- The above results are related to the tested sample only.

Dr. Ashok Kumar
Technical ManagerVirat Global Lab
Authorized Signatory

Authorised SignatoryD. K. Yadav
Lab In-charge

Test Report Code : VGL/N/24/01/15/048

Report Issue Date : 22.01.2024

TEST REPORT (NOISE)

Name and Address of Customer : M/s. J K CEMENT WORKS, PANNA
(A UNIT OF JK CEMENT LIMITED.)
VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ,
DISTT. - PANNA, 488441 (M.P)

Sampling Location : PAGRA VILLAGE

Date & Duration of Sampling : 11.01.2024 & 24 Hrs.

Sampling Done by : VIRENDRA KUMAR

Method of Sampling : IS:9989

Sample Receiving Date : 15.01.2024

Sample processing Date : 15.01.2024

AMBIENT NOISE RESULT

Sl. No.	Locations	Day Time		Night Time	
		Time	Leq Value in dB(A)	Time	Leq Value in dB(A)
1.	PAGRA VILLAGE	6:00 AM TO 10:00 PM	51.6	10.00 PM TO 6:00 AM	41.5

NOISE (AMBIENT STANDARDS AS PER CPCB)

Area Code	Category of Area	Limit in dB (A) Leq	
		Day Time	Night Time
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

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Dr. Ashok Kumar
Technical Manager

Virat Global Lab
Authorized Signatory

Authorized Signatory

D. K. Yadav
Lab In-charge

Test Report Code : VGL/N/24/01/15/049

Report Issue Date : 22.01.2024

TEST REPORT (NOISE)

Name and Address of Customer : M/s. J K CEMENT WORKS, PANNA
(A UNIT OF JK CEMENT LIMITED.)
VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ,
DISTT. - PANNA, 488441 (M.P)

Sampling Location : AMANGANJ VILLAGE

Date & Duration of Sampling : 11.01.2024 & 24 Hrs.

Sampling Done by : VIRENDRA KUMAR

Method of Sampling : IS:9989

Sample Receiving Date : 15.01.2024

Sample processing Date : 15.01.2024

AMBIENT NOISE RESULT

Sl. No.	Locations	Day Time		Night Time	
		Time	Leq Value in dB(A)	Time	Leq Value in dB(A)
1.	AMANGANJ	6:00 AM TO 10:00 PM	50.8	10.00 PM TO 6:00 AM	39.6

NOISE (AMBIENT STANDARDS AS PER CPCB)

Area Code	Category of Area	Limit in dB (A) Leq	
		Day Time	Night Time
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

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Dr. Ashok Kumar
Technical ManagerVirat Global Lab
Authorized Signatory

Authorized Signatory

D. K. Yadav
Lab In-charge

Test Report Code : VGL/N/24/01/15/050

Report Issue Date : 22.01.2024

TEST REPORT (NOISE)

Name and Address of Customer : M/s. J K CEMENT WORKS, PANNA
(A UNIT OF JK CEMENT LIMITED.)
VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ,
DISTT. - PANNA, 488441 (M.P)

Sampling Location : SAPTAI VILLAGE

Date & Duration of Sampling : 11.01.2024 & 24 Hrs.

Sampling Done by : VIRENDRA KUMAR

Method of Sampling : IS:9989

Sample Receiving Date : 15.01.2024

Sample processing Date : 15.01.2024

AMBIENT NOISE RESULT

Sl. No.	Locations	Day Time		Night Time	
		Time	Leq Value in dB(A)	Time	Leq Value in dB(A)
1.	SAPTAI VILLAGE	6:00 AM TO 10:00 PM	52.1	10.00 PM TO 6:00 AM	40.8

NOISE (AMBIENT STANDARDS AS PER CPCB)

Area Code	Category of Area	Limit in dB (A) Leq	
		Day Time	Night Time
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
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Dr. Ashok Kumar
Technical ManagerVirat Global Lab
Authorized Signatory

Authorised SignatoryD. K. Yadav
Lab In-charge

Test Report Code : VGL/N/24/01/15/051

Report Issue Date : 22.01.2024

TEST REPORT (NOISE)

Name and Address of Customer : M/s. J K CEMENT WORKS, PANNA
(A UNIT OF JK CEMENT LIMITED.)
VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ,
DISTT. - PANNA, 488441 (M.P)

Sampling Location : KAMTANA VILLAGE

Date & Duration of Sampling : 11.01.2024 & 24 Hrs.

Sampling Done by : VIRENDRA KUMAR

Method of Sampling : IS:9989

Sample Receiving Date : 15.01.2024

Sample processing Date : 15.01.2024

AMBIENT NOISE RESULT

Sl. No.	Locations	Day Time		Night Time	
		Time	Leq Value in dB(A)	Time	Leq Value in dB(A)
1.	KAMTANA VILLAGE	6:00 AM TO 10:00 PM	53.4	10.00 PM TO 6:00 AM	41.4

NOISE (AMBIENT STANDARDS AS PER CPCB)

Area Code	Category of Area	Limit in dB (A) Leq	
		Day Time	Night Time
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

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Dr. Ashok Kumar
Technical ManagerVirat Global Lab
Authorized Signatory

Authorized Signatory

D. K. Yadav
Lab In-charge

Test Report Code : VGL/N/24/01/15/052

Report Issue Date : 22.01.2024

TEST REPORT (NOISE)

Name and Address of Customer : M/s. J K CEMENT WORKS, PANNA
(A UNIT OF JK CEMENT LIMITED.)
VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ,
DISTT. - PANNA, 488441 (M.P)

Sampling Location : UDLA VILLAGE

Date & Duration of Sampling : 11.01.2024 & 24 Hrs.

Sampling Done by : VIRENDRA KUMAR

Method of Sampling : IS:9989

Sample Receiving Date : 15.01.2024

Sample processing Date : 15.01.2024

AMBIENT NOISE RESULT

Sl. No.	Locations	Day Time		Night Time	
		Time	Leq Value in dB(A)	Time	Leq Value in dB(A)
1.	UDLA VILLAGE	6:00 AM TO 10:00 PM	48.6	10.00 PM TO 6:00 AM	39.6

NOISE (AMBIENT STANDARDS AS PER CPCB)

Area Code	Category of Area	Limit in dB (A) Leq	
		Day Time	Night Time
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

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Dr. Ashok Kumar
Technical ManagerVirat Global Lab
Authorized Signatory

Authorized Signatory

D. K. Yadav
Lab In-charge

Test Report Code : VGL/N/24/01/15/053

Report Issue Date : 22.01.2024

TEST REPORT (NOISE)

Name and Address of Customer : M/s. J K CEMENT WORKS, PANNA
(A UNIT OF JK CEMENT LIMITED.)
VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ,
DISTT. - PANNA, 488441 (M.P)

Sampling Location : SOTIPURA VILLAGE

Date & Duration of Sampling : 11.01.2024 & 24 Hrs.

Sampling Done by : VIRENDRA KUMAR

Method of Sampling : IS:9989

Sample Receiving Date : 15.01.2024

Sample processing Date : 15.01.2024

AMBIENT NOISE RESULT

Sl. No.	Locations	Day Time		Night Time	
		Time	Leq Value in dB(A)	Time	Leq Value in dB(A)
1.	SOTIPURA VILLAGE	6:00 AM TO 10:00 PM	50.4	10.00 PM TO 6:00 AM	40.2

NOISE (AMBIENT STANDARDS AS PER CPCB)

Area Code	Category of Area	Limit in dB (A) Leq	
		Day Time	Night Time
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

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Dr. Ashok Kumar
Technical ManagerVirat Global Lab
Authorized Signatory

Authorised SignatoryD. K. Yadav
Lab In-charge

Test Report Code : VGL/N/24/01/15/054

Report Issue Date : 22.01.2024

TEST REPORT (NOISE)

Name and Address of Customer : M/s. J K CEMENT WORKS, PANNA
(A UNIT OF JK CEMENT LIMITED.)
VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ,
DISTT. - PANNA, 488441 (M.P)

Sampling Location : HINAUTA VILLAGE

Date & Duration of Sampling : 11.01.2024 & 24 Hrs.

Sampling Done by : VIRENDRA KUMAR

Method of Sampling : IS:9989

Sample Receiving Date : 15.01.2024

Sample processing Date : 15.01.2024

AMBIENT NOISE RESULT

Sl. No.	Locations	Day Time		Night Time	
		Time	Leq Value in dB(A)	Time	Leq Value in dB(A)
1.	HINAUTA VILLAGE	6:00 AM TO 10:00 PM	51.9	10.00 PM TO 6:00 AM	41.2

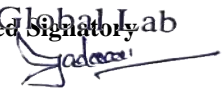
NOISE (AMBIENT STANDARDS AS PER CPCB)

Area Code	Category of Area	Limit in dB (A) Leq	
		Day Time	Night Time
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

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Dr. Ashok Kumar
Technical ManagerVirat Global Lab
Authorized Signatory

Authorised SignatoryD. K. Yadav
Lab In-charge

Test Report Code : VGL/N/24/01/15/055

Report Issue Date : 22.01.2024

TEST REPORT (NOISE)

Name and Address of Customer : M/s. J K CEMENT WORKS, PANNA
(A UNIT OF JK CEMENT LIMITED.)
VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ,
DISTT. - PANNA, 488441 (M.P)

Sampling Location : PURWA VILLAGE

Date & Duration of Sampling : 11.01.2024 & 24 Hrs.

Sampling Done by : VIRENDRA KUMAR

Method of Sampling : IS:9989

Sample Receiving Date : 15.01.2024

Sample processing Date : 15.01.2024

AMBIENT NOISE RESULT

Sl. No.	Locations	Day Time		Night Time	
		Time	Leq Value in dB(A)	Time	Leq Value in dB(A)
1.	PURWA VILLAGE	6:00 AM TO 10:00 PM	51.6	10.00 PM TO 6:00 AM	40.8

NOISE (AMBIENT STANDARDS AS PER CPCB)

Area Code	Category of Area	Limit in dB (A) Leq	
		Day Time	Night Time
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

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Dr. Ashok Kumar
Technical ManagerVirat Global Lab
Authorized Signatory

Authorised SignatoryD. K. Yadav
Lab In-charge

Test Report Code : VGL/N/24/01/15/056

Report Issue Date : 22.01.2024

TEST REPORT (NOISE)

Name and Address of Customer : M/s. J K CEMENT WORKS, PANNA
(A UNIT OF JK CEMENT LIMITED.)
VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ,
DISTT. - PANNA, 488441 (M.P)

Sampling Location : BHUPATPURA VILLAGE

Date & Duration of Sampling : 11.01.2024 & 24 Hrs.

Sampling Done by : VIRENDRA KUMAR

Method of Sampling : IS:9989

Sample Receiving Date : 15.01.2024

Sample processing Date : 15.01.2024

AMBIENT NOISE RESULT

Sl. No.	Locations	Day Time		Night Time	
		Time	Leq Value in dB(A)	Time	Leq Value in dB(A)
1.	BHUPATPURA VILLAGE	6:00 AM TO 10:00 PM	51.4	10.00 PM TO 6:00 AM	41.5

NOISE (AMBIENT STANDARDS AS PER CPCB)

Area Code	Category of Area	Limit in dB (A) Leq	
		Day Time	Night Time
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

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Dr. Ashok Kumar
Technical ManagerVirat Global Lab
Authorized Signatory

Authorised SignatoryD. K. Yadav
Lab In-charge

Test Report Code : VGL/N/24/01/15/057

Report Issue Date : 22.01.2024

TEST REPORT (NOISE)

Name and Address of Customer : M/s. J K CEMENT WORKS, PANNA
(A UNIT OF JK CEMENT LIMITED.)
VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ,
DISTT. - PANNA, 488441 (M.P)

Sampling Location : MAHODKH VILLAGE

Date & Duration of Sampling : 12.01.2024 & 24 Hrs.

Sampling Done by : VIRENDRA KUMAR

Method of Sampling : IS:9989

Sample Receiving Date : 15.01.2024

Sample processing Date : 15.01.2024

AMBIENT NOISE RESULT

Sl. No.	Locations	Day Time		Night Time	
		Time	Leq Value in dB(A)	Time	Leq Value in dB(A)
1.	MOHADKH VILLAGE	6:00 AM TO 10:00 PM	52.3	10.00 PM TO 6:00 AM	38.6

NOISE (AMBIENT STANDARDS AS PER CPCB)

Area Code	Category of Area	Limit in dB (A) Leq	
		Day Time	Night Time
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

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Dr. Ashok Kumar
Technical ManagerVirat Global Lab
Authorized Signatory

Authorized SignatoryD. K. Yadav
Lab In-charge

Test Report Code : VGL/N/24/01/15/058

Report Issue Date : 22.01.2024

TEST REPORT (NOISE)

Name and Address of Customer : M/s. J K CEMENT WORKS, PANNA
(A UNIT OF JK CEMENT LIMITED.)
VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ,
DISTT. - PANNA, 488441 (M.P)

Sampling Location : UMERI VILLAGE

Date & Duration of Sampling : 12.01.2024 & 24 Hrs.

Sampling Done by : VIRENDRA KUMAR

Method of Sampling : IS:9989

Sample Receiving Date : 15.01.2024

Sample processing Date : 15.01.2024

AMBIENT NOISE RESULT

Sl. No.	Locations	Day Time		Night Time	
		Time	Leq Value in dB(A)	Time	Leq Value in dB(A)
1.	UMERI VILLAGE	6:00 AM TO 10:00 PM	50.6	10.00 PM TO 6:00 AM	38.9

NOISE (AMBIENT STANDARDS AS PER CPCB)

Area Code	Category of Area	Limit in dB (A) Leq	
		Day Time	Night Time
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

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Dr. Ashok Kumar
Technical ManagerVirat Global Lab
Authorized Signatory

Authorized SignatoryD. K. Yadav
Lab In-charge

Test Report Code : VGL/N/24/01/15/059

Report Issue Date : 22.01.2024

TEST REPORT (NOISE)

Name and Address of Customer : M/s. J K CEMENT WORKS, PANNA
(A UNIT OF JK CEMENT LIMITED.)
VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ,
DISTT. - PANNA, 488441 (M.P)

Sampling Location : HARDUA VILLAGE

Date & Duration of Sampling : 12.01.2024 & 24 Hrs.

Sampling Done by : VIRENDRA KUMAR

Method of Sampling : IS:9989

Sample Receiving Date : 15.01.2024

Sample processing Date : 15.01.2024

AMBIENT NOISE RESULT

Sl. No.	Locations	Day Time		Night Time	
		Time	Leq Value in dB(A)	Time	Leq Value in dB(A)
1.	UMERI VILLAGE	6:00 AM TO 10:00 PM	51.8	10.00 PM TO 6:00 AM	40.7

NOISE (AMBIENT STANDARDS AS PER CPCB)

Area Code	Category of Area	Limit in dB (A) Leq	
		Day Time	Night Time
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

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Dr. Ashok Kumar
Technical ManagerVirat Global Lab
Authorized Signatory


Authorised Signatory

D. K. Yadav
Lab In-charge

Awareness on Plastic Waste Campaign in nearby villages of Koni Mine dated 28.09.2023		
Sr. No.	Village Name	Photos
1	Boda village	
2	Koni village	

<p>3</p>	<p>Maharajganj village</p>	 <p>Maharajganj, Madhya Pradesh, India Unnamed Road, Maharajganj, Madhya Pradesh 488442, India Lat 24.90822° Long 79.891709° 28/09/23 01:42 PM GMT +05:30</p>
<p>4</p>	<p>Guda village</p>	 <p>Garhi Karahiya, Madhya Pradesh, India Unnamed Road, Garhi Karahiya, Madhya Pradesh 488442, India Lat 24.323154° Long 79.881328° 28/09/23 01:52 PM GMT +05:30</p>

<p>5</p>	<p>Pagra Village</p>	
<p>6</p>	<p>Semariya Tehsil</p>	

7

Tighara village

