

Ref. No.: JKCEMENT/ENV./EC/PLANT/01/10

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.bpl-mef@nic.in

Subject: Submission of Half Yearly Environmental Clearance Compliance Status Report for period from April 2023 to September 2023 of J K CEMENT LTD. located at Villages Devra, Hardua, Puraina, Sotipura & Madaiyan, Tehsil: Amanganj, Dist. Panna, Madhya Pradesh.

Ref.: 1- Environment Clearance vide no IA-J-11011/224/2016-IA. II (I) dated 02.03.2022.
2- MoEF & CC OM F No. IA3-22/8/2021-1A.III [150512] dated 18.07.2022

Dear Sir,

With reference to above stated Environment Clearances (ECs) 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 Greenfield integrated Clinker/ Cement manufacturing unit cement production capacity 6.0 Million TPA, Clinker Production 6.6 Million TPA, Power generation capacity of WHRS 50 MW, DG Set 2500 KVA and Captive Power Plant Capacity 40 MW in phased manner of M/s. J K Cement Ltd. located at Villages Devra, Hardua, Puraina, Sotipura & Madaiyan, Tehsil: Amanganj, Dist. Panna, Madhya Pradesh through email, this is for kind information and record please.

Thanking you,

Yours Sincerely
For: 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,
2. Regional Officer, Regional Office, MP Pollution Control Board, Makronia, Sagar (MP)
3. Regional Director- CPCB, Paryawaran Parisar, E-5, Arera Colony, Bhopal (MP) - E.
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
- +011-49220000
- admin.padamtower@jkcement.com
- www.jkcement.com

JK SUPER
CEMENT
BUILD SAFE

Manufacturing Units at :

Nimbahera, Mangrol, Gotan (Rajasthan) | Muddapur (Karnataka)
Jharia (Haryana) | Katni (M.P.) | Aligarh (U.P.) | Balasinar (Gujarat)

JK CEMENT
WallMax
White Cement Wall Putty



Environment Clearance Compliance Report for Period April 2023 to September 2023
for M/s J K Cement Limited, Panna

Name of the Project- Expansion in Clinker Production Capacity from 5.28 Million TPA to 6.6 Million TPA, Power generation capacity of WHRS from 30 MW to 50 MW, DG Set from 500 KVA to 2500 KVA and reduction in Captive Power Plant Capacity from 80 MW to 40 MW in Phased manner without change in Cement Production capacity of 6.0 Million TPA at Villages: Devra, Hardua, Puraina, Sotipura & Madaiyan, Tehsil: Amanganj, District: Panna (Madhya Pradesh) by M/s. J K Cement Limited.			
Environment Clearance vide no IA-J-11011/224/2016-IA. II (I) dated 02.03.2022			
A. Specific Condition			
S. No.	EC Conditions	EC Compliances	
i.	Particulate matter emission from cement mill stacks shall be less than 20 mg/Nm ³ and for CPP less than 30 mg/Nm ³ .	Agreed. Air Pollution Control Equipment for Particulate matter emission from cement mill stack is designed for less than 20 mg/Nm ³ and for CPP less than 30 mg/Nm ³ . We are complying with prescribed standard. Table is given below and reports are enclosed as Annexure-1 .	
	Stack	Standard value (in mg/Nm³)	Observed value (in mg/Nm³)
	Cement mill	20	11.63
	Coal mill	20	9.60
	Cooler	20	10.62
	Raw mill	20	12.67
ii.	Air cooled condenser shall be used in the captive power plant in place of water-cooled system.	Agreed. In first phase, CPP has not been installed. We assure that CPP will be installed with Air cooled condenser in the captive power plant.	
iii.	Project proponent is permitted to abstract up to 2140 KLD ground water, for next 15 months from the date of issue of the Environment Clearance after obtaining requisite permission from the concerned Competent Authority. Thereafter, water from mine pit and Ken River shall be used and ground water abstraction is not permitted.	Complied. We have obtained NOC for ground water abstraction of 2140 KLD for industrial purpose vide NOC No. CGWA/NOC/IND/ORIG/2022/16811 valid from 15.10.2022 to 14.10.2025. Copy is enclosed as Annexure-2 .	
iv.	Total water requirement after expansion shall not exceed 5125 KLD. Water shall be sourced from ground (195 KLD) and 4930 KLD from mine pit and Ken river.	Agreed.	
v.	Dioxins and furans shall be monitored twice a year during co-processing of hazardous waste and report shall be submitted to Regional Office of the MoEF &CC.	Agreed and complying. We have monitored dioxins and furans during co-processing of hazardous and reports are enclosed as Annexure-3	
vi.	Green belt shall be developed in 33% of the total area all along the entire periphery of the area with a density of 2500 trees per ha. This shall include development of green belt with a width of 20 m within the project site towards the mining area and Hardua village located at 0.5 km from the project site.	Agreed to achieve the plantation in 33% of the plant premises with density of 2500 trees/ha of native species within 4 years as presented before the EAC while seeking the EC, till Sept 2023, a total of 54204 No. of saplings have been planted in 21.68 Ha. in and around the periphery of the plant area which is 17.59% of total land area i.e. 123.25 Ha. Layout (Green colour shows plantations area) and some pictures of plantation mentioned below.	

Environment Clearance Compliance Report for Period April 2023 to September 2023
for M/s J K Cement Limited, Panna

vii.	All stockyards shall be having impervious flooring and shall be equipped with water spray system for dust suppression. Stock yards shall also have garland drains to trap the runoff material.	Complied. Raw material yard has paved with covered shed. No rain water will be entered in the shed therefore no material will be runoff. However, garland drainage system is developed for rain water through paved road and connected with a reservoir for collection and ground water recharge. Some pictures are mentioned below:
------	--	--

Cover Shed for Gypsum



Impervious flooring in stock yards



Cover Shed for Pet-Coke



Garland drains









Rain water harvesting pond (30000m3 capacity)



River reservoir (40000m3 capacity)



Environment Clearance Compliance Report for Period April 2023 to September 2023
for M/s J K Cement Limited, Panna

Viii.	Slip roads shall be provided at the gates and along crossing on main roads.	Complied. Slip roads have been provided at the gates and along crossing on main roads. Some pictures are mentioned below.
		
ix.	All internal and connecting roads to the Highway shall be black topped/concreted with suitable load in term of Million Standard Axle (MSA) as per IRC guidelines.	Complied. All internal roads have been concreted. Connecting roads to the highway has been completed. Some pictures are mentioned below.
<p align="center">Connecting roads to the Highway</p> 		<p align="center">Internal roads</p> 
 <p>Sotipura, Madhya Pradesh, India 8XGF+HX, Sotipura, Madhya Pradesh 488441, India Lat 24.326152° Long 79.974564° 30/09/23 01:24 PM GMT +05:30</p>		 <p>Sotipura, Madhya Pradesh, India 8XGF+HX, Sotipura, Madhya Pradesh 488441, India Lat 24.326152° Long 79.974564° 30/09/23 01:27 PM GMT +05:30</p>

Environment Clearance Compliance Report for Period April 2023 to September 2023
for M/s J K Cement Limited, Panna

x.	Performance monitoring of pollution control equipment shall be taken up yearly and compliance status in this regard shall be reported to the concerned Regional Office of the MoEF &CC.	Agreed. Plant has been commissioned on 02 November 2022. We assure that Performance monitoring of pollution control equipment shall be taken up yearly and report to be submitted.
xi.	The recommendation of the approved Site-Specific Conservation Plan / Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report to the concerned Regional Office of the MoEF & CC.	Agreed and complying. WLCP approved on date 13.12.2019 Rs. 289.90 lakhs for the period of 10 year which has been deposited via E Cheque No.- CTY3061751 on dated 19/08/2023 in account no. 10571048460 to MP Tiger Foundation. Copy acknowledgement and E Cheque are enclosed as Annexure-4
xii.	Limestone from the mines to the cement plant shall be transported through overhead conveyor belt within a period of two years from date of issue of the Environment Clearance.	Agreed and complying. We are transporting Limestone from our Kakra mine to cement plant through Overhead Conveyor Belt.
xiii.	Hot air dryer shall not be installed. Flue gases of preheater shall be used to dry the slag/bottom ash.	Agreed. However, we are applying for amendment in EC for this condition.

B. General EC Conditions:

I. Statutory compliance

i.	The Environment Clearance (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.	Agreed and noted for compliance of all applicable legislation.
----	--	--

II. Air quality monitoring and preservation

i.	The project proponent shall install 24x7 Continuous Emission Monitoring System (CEMS) at process stacks to monitor stack emission as well as Continuous Ambient Air Quality Station (CAAQS) for monitoring AAQ parameters with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time. The CEMS and CAAQMS shall be connected to SPCB and CPCB online servers and calibrate these systems from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.	<p>Complied.</p> <p>1. CEMS have been installed at major stacks viz. Raw mill kiln, Coal mill, Cement mill and Cooler exit stacks and online data connectivity is done at CPCB & MPPCB portal. Picture and table are mentioned below.</p> <p>CAAQMS have been installed at 04 Nos. of locations of plant and online data connectivity is done at CPCB & MPPCB portal. Picture and table are mentioned below and reports are enclosed as Annexure-5.</p> <p>We assure that these instruments will be calibrated time to time through recognized lab.</p>
----	--	--

Environment Clearance Compliance Report for Period April 2023 to September 2023
for M/s J K Cement Limited, Panna

1-CEMS:

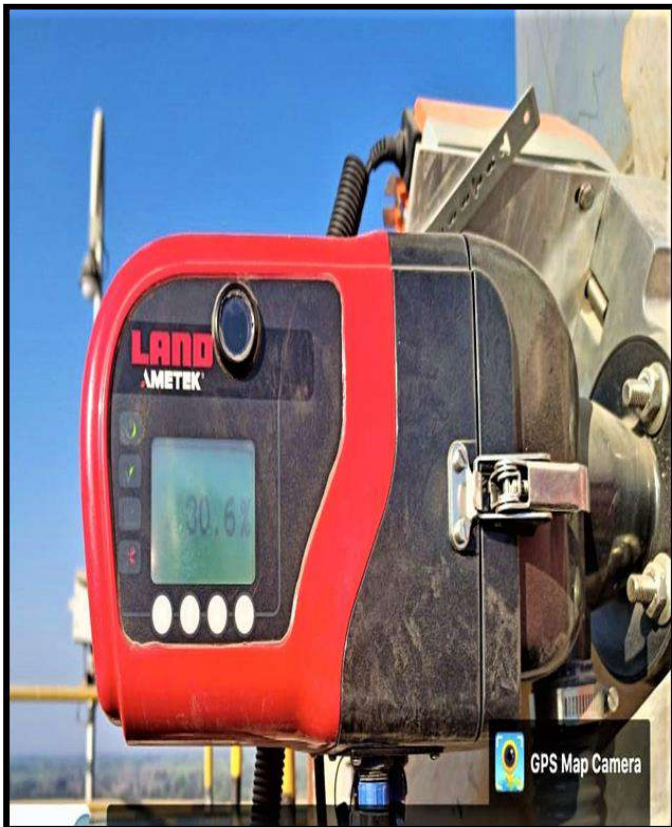
Cement _ Mill Stack Analyser



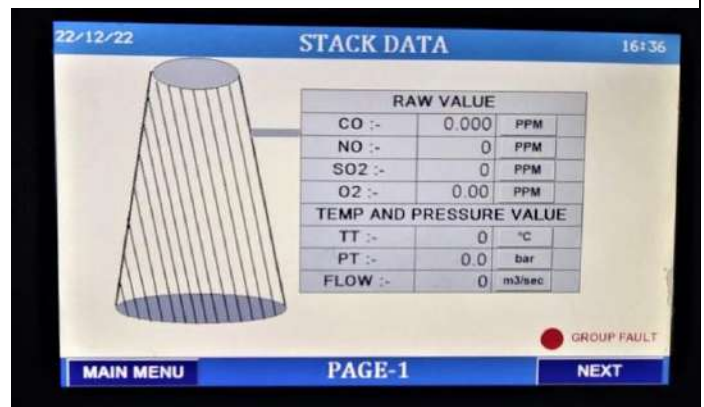
Coal _ Mill Stack Analyser



Cooler _ Mill Stack Analyser



Raw _ Mill Stack Analyser



Environment Clearance Compliance Report for Period April 2023 to September 2023
for M/s J K Cement Limited, Panna

2-CAAQMS: -

CAAQMS near Reservoir



CAAQMS near Zero Point



CAAQMS behind Store



CAAQMS near Guest house



Environment Clearance Compliance Report for Period April 2023 to September 2023
for M/s J K Cement Limited, Panna

CAAQMs	Parameters	Std. Value	Avg. Value
CAAQMS 1 (Near Reservoir)	PM10	100 µg/m ³	29.29
	PM2.5	60 µg/m ³	14.66
	CO	4(mg/m ³)	1.82
	NO	µg/m ³	7.91
	NO ₂	80 µg/m ³	4.33
	NO _x	80 µg/m ³	11.63
	SO ₂	80 µg/m ³	10.34
CAAQMS 2 (Near Zero Point)	PM10	100 µg/m ³	13.67
	PM2.5	60 µg/m ³	6.64
	CO	4(mg/m ³)	1.54
	NO	µg/m ³	11.64
	NO ₂	80 µg/m ³	14.84
	NO _x	80 µg/m ³	22.37
	SO ₂	80 µg/m ³	15.19
CAAQMS 3 (Near Store)	PM10	100 µg/m ³	29.42
	PM2.5	60 µg/m ³	17.08
	CO	4(mg/m ³)	1.70
	NO	µg/m ³	5.04
	NO ₂	80 µg/m ³	8.76
	NO _x	80 µg/m ³	13.43
	SO ₂	80 µg/m ³	14.64
CAAQMS 4 (Near Guest House)	PM10	100 µg/m ³	24.21
	PM2.5	60 µg/m ³	6.39
	CO	4(mg/m ³)	1.90
	NO	µg/m ³	3.95
	NO ₂	80 µg/m ³	2.84
	NO _x	80 µg/m ³	6.79
	SO ₂	80 µg/m ³	9.71
ii.	The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through labs recognized under Environment (Protection) Act, 1986.	Complying. Fugitive emission is being monitored by approved lab in every quarter in the plant premises. Latest quarterly monitoring reports of fugitive emission are enclosed as Annexure-6	
iii.	The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.	Complied. It is provided with APCDs.	
iv.	The project proponent shall ensure covered transportation and conveying of ore, coal and other raw material to prevent spillage and dust generation; Use closed bulkers for carrying fly ash.	Agreed. Raw materials are transporting through covered belt conveyor, vehicles and fly ash in closed bulker. Some pictures are mentioned below.	

Environment Clearance Compliance Report for Period April 2023 to September 2023
for M/s J K Cement Limited, Panna

<div><div>Covered Petcoke Truck</div><div><div><div>GPS Map Camera</div><div>Panna, Madhya Pradesh, India Unnamed Road, Madhya Pradesh 488441, India Lat 24.326481° Long 79.976592° 30/09/23 11:30 AM GMT +05:30</div></div></div></div>		<div><div>Closed bulker for transport of Flyash</div><div><div><div>GPS Map Camera</div><div>Panna, Madhya Pradesh, India Unnamed Road, Madhya Pradesh 488441, India Lat 24.326481° Long 79.976592° 30/09/23 11:32 AM GMT +05:30</div></div></div></div>	
<div><div>Covered belt conveyors</div><div><div><div>GPS Map Camera</div><div>Harduwaken, Madhya Pradesh, India 8XH8+6G4, Harduwaken, Madhya Pradesh 488441, India Lat 24.32658° Long 79.968068° 01/08/23 10:47 AM GMT +05:30</div></div></div></div>			
v.	The project proponent shall provide wind shelter fence and chemical spraying on the raw material stock piles.	Agreed. However, we would like to share that covered sheds are being provided for all the raw materials.	
vi.	Ventilation system shall be designed for adequate air changes as per the prevailing norms for all tunnels, motor houses, cement bagging plants.	Complied. Ventilation system with sufficient no. of bag filters for all tunnels, motor houses, cement bagging plant have been provided.	
III. Water quality monitoring and preservation			
i.	The project proponent shall install 24x7 continuous effluent monitoring system with respect to standard prescribed in Environment (Protection) Rules 1986 vide G.S.R. No. 612 (E) dated 25th August 2014 (Cement) and subsequent amendment dated 9th May, 2016 (Cement) and 10th May, 2016 (in case of Co-processing Cement) as amended from time to time; S.O. 3305 (E) dated 7th December 2015 (Thermal Power Plants) as amended from time to time) and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.	<p>Agreed. Waste water generated from WHRS plant only which is used in cement mill spray after treatment in neutralization pit. Hence ZERO liquid discharge system has been adopted.</p> <p>However, Flow meter and camera have been installed at outlet of neutralization pit (Picture are mentioned below.</p>	

Environment Clearance Compliance Report for Period April 2023 to September 2023
for M/s J K Cement Limited, Panna

WHRS Flow meter and Camera have been installed:



ii.	The project proponent shall regularly monitor ground water quality at least twice a year (pre and post monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognized under Environment (Protection) Act, 1986 and NABL accredited laboratories.	Complying. Ground water quality is being monitored twice a year (pre and post monsoon) of plant and adjacent areas through recognized/NABL accredited Lab. Latest ground water quality monitoring reports are enclosed as Annexure-7
iii.	Sewage Treatment Plant shall be provided for treatment of domestic waste water to meet the prescribed standards.	Complied. Total 07 Nos. STPs (Capacity- 02 Nos. 10 KLD, 04 Nos. 5 KLD and 01 Nos. 300 KLD) have been installed to treat the sewage water to the prescribed standards (Picture are mentioned below.) and Latest reports are enclosed as Annexure-8




STP with Capacity 300KLD



STP with Capacity 10KLD



Environment Clearance Compliance Report for Period April 2023 to September 2023
for M/s J K Cement Limited, Panna

iv.	Garland drains and collection pits shall be provided for each stock pile to arrest the run- off in the event of heavy rains and to check the water pollution due to surface runoff	Complied. Concreted drains have been provided in sounding the covered raw material sheds. This water will be recharged with rain water harvesting structures (Picture are mentioned below.)
<p align="center">Storm Water Drain</p>  <p>GPS Map Camera Harduaken, Madhya Pradesh, India 8XG7+HXQ, Harduaken, Madhya Pradesh 488441, India Lat 24.326641° Long 79.963872° 17/08/23 05:17 PM GMT +05:30</p>		<p align="center">Storm Water Drain</p>  <p>GPS Map Camera Sotipura, Madhya Pradesh, India 8XGF+HX, Sotipura, Madhya Pradesh 488441, India Lat 24.325468° Long 79.974966° 01/08/23 04:11 PM GMT +05:30</p>
<p align="center">Reservoir (40000m3)</p>  <p>GPS Map Camera Panna, Madhya Pradesh, India Unnamed Road, Madhya Pradesh 488441, India Lat 24.318423° Long 79.956866° 03/08/23 04:41 PM GMT +05:30</p>		
v.	Water meters shall be provided at the inlet to all unit processes in the cement plant	Complied. Water meters have been installed at the inlet to all unit processes.
vi.	The project proponent shall make efforts to minimize water consumption in the cement plant complex by segregation of used water, practicing cascade use and by recycling treated water.	Agreed. ➤ Dual Flush Toilets have been installed. ➤ Aerator Faucets are provided in taps. ➤ Sewage treatment plant is installed and treated water of sewage is being used in plant activities.
<p><u>IV. Noise and vibration monitoring and prevention</u></p>		

Environment Clearance Compliance Report for Period April 2023 to September 2023
for M/s J K Cement Limited, Panna

i.	Noise quality shall be monitored as per the prescribed Noise Pollution (Regulation and Control) Rules, 2000 and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.	Complying. Noise quality is being monitored and report is enclosed as Annexure-9
V. Energy Conservation measures		
i.	Waste heat recovery system shall be provided for kiln and cooler.	Complied. A Waste heat recovery system (WHRS) of 25 MW has been installed in first phase.
ii.	The project proponent makes efforts to achieve power consumption less than 65 units/ton for Portland Pozzolona Cement (PPC) and 85 units/ton for Ordinary Portland Cement (OPC) production and thermal energy consumption of 670 Kcal/Kg of clinker.	Agreed and Complying.
iii.	Provide solar power generation on roof tops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly.	Complied. Solar Power generation system installed on roof top of Admin Building with capacity 75.60 KW based on grid system and solar lights have also been provided in streets (Some picture are mentioned below)





Solar Panel on Admin Building roof top:



Solar lights have provided in streets



Environment Clearance Compliance Report for Period April 2023 to September 2023
for M/s J K Cement Limited, Panna

iv.	Provide the project proponent for LED lights in their offices and residential areas.	Complied. LED lights have been provided in offices and residential areas (Some picture are mentioned below.)
<p align="center">LED Lights in Admin building</p> 		<p align="center">LED Lights in Project building</p> 
<p align="center">LED Lights in CCR building</p> 		<p align="center">LED Lights in Guest house</p> 
VI. Waste management		
i.	Used refractories shall be recycled as far as possible.	Agreed and Complying.
VII. Green Belt		
i.	The project proponent shall prepare GHG emissions inventory for the plant and shall submit the program for reduction of the same including carbon sequestration including plantation.	Agreed and we will comply.
VIII. Public hearing and human health issues		
i.	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	Complied. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan is prepared and implemented. Approval of onsite emergency plan is enclosed as Annexure-10
ii.	The Project Proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms of Factory Act.	Agreed and Complied. The reports are enclosed as Annexure-11

Environment Clearance Compliance Report for Period April 2023 to September 2023
for M/s J K Cement Limited, Panna

iii.	Occupational health surveillance of the workers shall be done on a regular basis and records maintained.	Complying. Occupational health surveillance of the employees & workers are carrying out on a regular basis. Since April 2023 to September 2023, total PME has been carried out for employees and contract workers, 199 and 82 respectively. A sample copy of PME is enclosed as Annexure-12
------	--	--

IX. Environment Management

i.	The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017- IA.III dated 30/09/2020.	Complying. CER proposal is being implemented as per Ministry's OM vide F. No. 22-65/2017-IA.III dated 1 st May 2018. Present status is mentioned below.
----	--	--

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

S.No.	Activities	CER Expenditure (In Lakh)
1	Health (Infrastructure for Primary Health Center, Mobile Health Clinic, Veterinary Hospitals/ Dispensaries)	181.7
2	Actions for COVID-19 (Supply of Hospital beds, Ventilator, Sanitation equipment, PPE Kits, Body Temperature Scanner, etc.)	
3	Education (Construction/ Extension/ additional facilities e.g. Laboratory, Library, Computer class, Toilets, Drinking Water Facilities etc. for village schools)	51.06
4	Sanitation (Construct Community Toilets, Construct Drainage System, Solid Waste Management etc.) and Drinking Water Facilities (Hand Pumps, Wells, Tap Water, Water Storage Tanks, Deepening & Cleaning of Ponds, Roof Top Rain Water Harvesting Structure etc.)	32.51
5	Activity Centre for SHGs. SHGs planned for tailoring, production of daily need items, etc. Same facility shall be used for Skill Development Training for women as well. eg. Beautician course, handicraft etc.	1.21
6	Infrastructure (Concrete Roads, Electrification including Solar Power, Panchayat Bhawan, Community Centers, etc.)	35
7	Others Local Social Needs	45.03
8	Greenery Development Nearby Area - Free distribution of Saplings or seedlings for fruit or non-fruit bearing trees. Community Plantation drive in surrounding villages. Expert guidance to local farmers for adoption of improved agriculture practices to increase of yield of crops & Fodders, Cattle Farming etc.	192
	Total	538.51

ii.	The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/ deviation/ violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the	Complying. Company has Corporate Environmental Policy duly approved by the Board (Policy copy enclosed as Annexure-13)
-----	--	--

**Environment Clearance Compliance Report for Period April 2023 to September 2023
for M/s J K Cement Limited, Panna**

	environmental / forest / wildlife norms / conditions and/ or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.	
iii.	A Separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.	Complied. A Separate Environmental Cell both at the project and company head quarter level, with qualified personnel has been set up under the control of senior Executive, who is directly reporting to the head of the organization. Details are enclosed as Annexure-13

X. Miscellaneous

i.	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.	Complied. Published in two local newspapers namely Nav Swadesh and Raj Express dated 15.10.2020 and copy has been submitted to the Ministry and its regional office on 15.10.2020 (Advertisement copy are mentioned below.)
----	---	---

ii.	The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.	Complied. Copy of the EC has been sent by speed post to the Heads of local bodies, Panchayats & govt. bodies has been submitted vide letter No. PN/EMD/MoEF/F01/024, dated 15.10.2020 by speed post (Acknowledgement & speed post copy are enclosed as Annexure-14)
iii.	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the	Complying. Six monthly compliance status report along with monitoring data is uploaded at company's website (Screenshot of company website is mentioned as below.)

Environment Clearance Compliance Report for Period April 2023 to September 2023
for M/s J K Cement Limited, Panna

same on half-yearly basis.

Jaykeycem (Central) Limited			
Integrated Cement Plant			
	Compliance report of Environment Clearance	Environment Clearance	Environmental Monitoring Report
Apr 2020 - Sept 2020			
Oct 2020 - Mar 2021			
Apr 2021 to Sep 2021			
Jan 2022 to Mar 2022			

Period	Compliance Status	Report Link
Sept 2020	Compliant	
Oct 2020 - Mar 2021	Compliant	
Apr 2021 to Sep 2021	Compliant	
Jan 2022 to Mar 2022	Compliant	
Oct 2022 to Mar 2023	Compliant	

- | | | |
|-----|---|---|
| iv. | The project proponent shall monitor the criteria pollutants level namely; PM10, SO2, NOx (ambient levels as well as stack emissions) or critical sectorial parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company. | Complying. Ambient air quality and stack emission are being monitored and displayed at main gate through a LED system and reports are uploaded at company website (LED picture is mentioned below.) |
|-----|---|---|



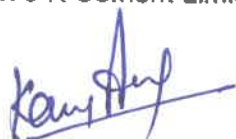
- | | | |
|-----|---|---|
| v. | The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal. | Complying. Six monthly compliance status is being reported to the MoEF&CC website and Climate Change at environment clearance portal. |
| vi. | The project proponent shall submit the | Complying. Environmental statement report for |

Environment Clearance Compliance Report for Period April 2023 to September 2023
for M/s J K Cement Limited, Panna

	environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.	F.Y. 2022-2023 has been submitted to the MPPCB via. letter no JK/CTO-(Plant)/2023-24/19/02 (enclosed as Annexure-15)
vii.	The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.	Complied. Intimation regarding the date of financial closure, final approval of concerned authority, commencing the land development work and start of production have been submitted to the Ministry via. letter no. Jaykaycem/Env./Corres./2023-24/07/02 dated 19.07.2023 (Email copy and letter copy are enclosed as Annexure-16).
viii.	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.	Agreed and complying.
ix.	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).	Agreed
x.	Concealing factual data or submission of false / fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.	Agreed
xi.	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Agreed
xii.	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	Agreed
xiii.	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.	Agreed
xiv.	Any appeal against this EC 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.	Noted.

Yours Sincerely

For: J K Cement Limited, Panna



Kapil Agrawal

(Authorized Signatory & Unit Head)

J K Cement Limited, PANNA (M.P.)**STACK MONITORING DATA FOR 6 MONTHS**

Sr No.	Month	Stack locations					
		Cement Mill	Coal Mill	Cooler Esp	Raw Mill Kiln		
		PM in mg/Nm3	PM in mg/Nm3	PM in mg/Nm3	PM in mg/Nm3	SO2 in mg /Nm3	NOx in mg/Nm3
1	Apr-23	15.49	3.54	14.72	5.21	88.92	111.32
2	May-23	13.9	9.9	8.3	17.4	34.52	419.6
3	Jun-23	14.38	13.42	13.98	17.65	30.86	404.5
4	Jul-23	9.6	16.7	3.1	17.32	86.46	348
5	Aug-23	6.63	4.89	15.7	8.36	85.25	386.16
6	Sep-23	9.78	9.16	7.9	10.1	78.2	296
Avg		11.63	9.60	10.62	12.67	67.37	327.60
Min		6.63	3.54	3.1	5.21	30.86	111.32
Max		15.49	16.7	15.7	17.65	88.92	419.6



भारत सरकार
जल शक्ति मंत्रालय
जल संसाधन, नदी विकास
और गंगा संरक्षण विभाग
केन्द्रीय भूमि जल प्राधिकरण
Government of India
Ministry of Jal Shakti
Department of Water Resources,
River Development & Ganga Rejuvenation
Central Ground Water Authority

(भूजल निकासी हेतु अनापत्ति प्रमाण पत्र)

NO OBJECTION CERTIFICATE (NOC) FOR GROUND WATER ABSTRACTION

Project Name:	Jaykaycem (central) Limited		
Project Address:	Harduaken, Puraina, Sotipura And Madaiyan		
Village:	Harduwaken	Block:	Pawai
District:	Panna	State:	Madhya Pradesh
Pin Code:			
Communication Address:	Harduaken, Puraina, Sotipura And Madaiyan, Pawai, Panna, Madhya Pradesh - 488441		
Address of CGWB Regional Office :	Central Ground Water Board North Central Region, Block-1, 4th Floor, Paryawas Bhawan, Area Hills, Jail Road, Bhopal, Madhya Pradesh - 462011		

1.	NOC No.:	CGWA/NOC/IND/ORIG/2022/16811													
2.	Application No.:	21-4/1412/MP/IND/2022					3.	Category: (GWRE 2020)			Safe				
4.	Project Status:	New Project					5.	NOC Type:			New				
6.	Valid from:	15/10/2022					7.	Valid up to:			14/10/2025				
8.	Ground Water Abstraction Permitted:														
Fresh Water		Saline Water				Dewatering				Total					
m³/day		m³/year		m³/day		m³/year		m³/day		m³/year		m³/day		m³/year	
2140.00		706200.00													
9.	Details of ground water abstraction /Dewatering structures														
Total Existing No.:0							Total Proposed No.:11								
		DW	DCB	BW	TW	MP	MPu	DW	DCB	BW	TW	MP	MPu		
Abstraction Structure*		0	0	0	0	0	0	0	0	0	11	0	0		
*DW- Dug Well; DCB-Dug-cum-Bore Well; BW-Bore Well; TW-Tube Well; MP-Mine Pit;MPu-Mine Pumps															
10.	Ground Water Abstraction/Restoration Charges paid (Rs.):							2118600.00							
11.	Number of Piezometers(Observation wells) to be constructed/ monitored & Monitoring mechanism.					No. of Piezometers		Monitoring Mechanism							
Manual								DWLR**		DWLR With Telemetry					
**DWLR - Digital Water Level Recorder						2		0		1		1			

(Compliance Conditions given overleaf)

This is an auto generated document & need not to be signed.

18/11, जामनगर हाउस, मानसिंह रोड, नई दिल्ली - 110011 / 18/11, Jamnagar House, Mansingh Road, New Delhi-110011

Phone: (011) 23383561 Fax: 23382051, 23386743

Website: cgwa-noc.gov.in

पानी बचाये - जीवन बचाये
SAVE WATER - SAVE LIFE

Validity of this NOC shall be subject to compliance of the following conditions:

Mandatory conditions:

- 1) Installation of tamper proof digital water flow meter with telemetry on all the abstraction structure(s) shall be mandatory for all users seeking No Objection Certificate and intimation regarding their installation shall be communicated to the CGWA within 30 days of grant of No Objection Certificate.
- 2) Proponents shall mandatorily get water flow meter calibrated from an authorized agency once in a year.
- 3) Construction of purpose-built observation wells (piezometers) for ground water level monitoring shall be mandatory as per Section 14 of Guidelines. Water level data shall be made available to CGWA through web portal. Detailed guidelines for construction of piezometers are given in Annexure-II of the guidelines.
- 4) Proponents shall monitor quality of ground water from the abstraction structure(s) once in a year. Water samples from bore wells/ tube wells / dug wells shall be collected during April/May every year and analysed in NABL accredited laboratories for basic parameters (cations and anions), heavy metals, pesticides/ organic compounds etc. Water quality data shall be made available to CGWA through the web portal.
- 5) In case of mining projects, additional key wells shall be established in consultation with the Regional Director, CGWB for ground water level monitoring four (4) times a year (January, May, August and November) in core as well as buffer zones of the mine.
- 6) In case of mining project the firm shall submit water quality report of mine discharge/ seepage from Govt. approved/ NABL accredited lab.
- 7) The firm shall report compliance of the NOC conditions online in the website (www.cgwa-noc.gov.in) within one year from the date of issue of this NOC.
- 8) Industries abstracting ground water in excess of 100 m³/d shall undertake annual water audit through certified auditors and submit audit reports within three months of completion of the same to CGWA. All such industries shall be required to reduce their ground water use by at least 20% over the next three years through appropriate means.
- 9) Application for renewal can be submitted online from 90 days before the expiry of NOC. Ground water withdrawal, if any, after expiry of NOC shall be illegal & liable for legal action as per provisions of Environment (Protection) Act, 1986.
- 10) This NOC is subject to prevailing Central/State Government rules/laws/norms or Court orders related to construction of tube well/ground water abstraction structure / recharge or conservation structure/discharge of effluents or any such matter as applicable.

General conditions:

- 11) No additional ground water abstraction and/or de-watering structures shall be constructed for this purpose without prior approval of the Central Ground Water Authority (CGWA).
- 12) The proponent shall seek prior permission from CGWA for any increase in quantum of groundwater abstraction (more than that permitted in NOC for specific period).
- 13) Proponents shall install roof top rain water harvesting in the premise as per the existing building bye laws in the premise.
- 14) The project proponent shall take all necessary measures to prevent contamination of ground water in the premises failing which the firm shall be responsible for any consequences arising thereupon.
- 15) In case of industries that are likely to contaminate the ground water, no recharge measures shall be taken up by the firm inside the plant premises. The runoff generated from the rooftop shall be stored and put to beneficial use by the firm.
- 16) Wherever feasible, requirement of water for greenbelt (horticulture) shall be met from recycled / treated waste water.
- 17) Wherever the NOC is for abstraction of saline water and the existing wells (s) is /are yielding fresh water, the same shall be sealed and new tubewell(s) tapping saline water zone shall be constructed within 3 months of the issuance of NOC. The firm shall also ensure safe disposal of saline residue, if any.
- 18) Unexpected variations in inflow of ground water into the mine pit, if any, shall be reported to the concerned Regional Director, Central Ground Water Board.
- 19) In case of violation of any NOC conditions, the applicant shall be liable to pay the penalties as per Section 16 of Guidelines.
- 20) This NOC does not absolve the proponents of their obligation / requirement to obtain other statutory and administrative clearances from appropriate authorities.
- 21) The issue of this NOC does not imply that other statutory / administrative clearances shall be granted to the project by the concerned authorities. Such authorities would consider the project on merits and take decisions independently of the NOC.
- 22) In case of change of ownership, new owner of the industry will have to apply for incorporation of necessary changes in the No Objection Certificate with documentary proof within 60 days of taking over possession of the premises.
- 23) This NOC is being issued without any prejudice to the directions of the Hon'ble NGT/court orders in cases related to ground water or any other related matters.
- 24) Proponents, who have installed/constructed artificial recharge structures in compliance of the NOC granted to them previously and have availed rebate of upto 50% (fifty percent) in the ground water abstraction charges/ground water restoration charges, shall continue to regularly maintain artificial recharge structures.
- 25) Industries which are likely to cause ground water pollution e.g. Tanning, Slaughter Houses, Dye, Chemical/ Petrochemical, Coal washeries, pharmaceutical, other hazardous units etc. (as per CPCB list) need to undertake necessary well head protection measures to ensure prevention of ground water pollution as per Annexure III of the guidelines.
- 26) In case of new infrastructure projects having ground water abstraction of more than 20 m³/day, the firm/entity shall ensure implementation of dual water supply system in the projects.
- 27) In case of infrastructure projects, paved/parking area must be covered with interlocking/perforated tiles or other suitable measures to ensure groundwater infiltration/harvesting.
- 28) In case of coal and other base metal mining projects, the project proponent shall use the advance dewatering technology (by construction of series of dewatering abstraction structures) to avoid contamination of surface water.
- 29) The NOC issued is conditional subject to the conditions mentioned in the Public notice dated 27.01.2021 failing which penalty/EC/cancellation of NOC shall be imposed as the case may be.
- 30) This NOC is issued subject to the clearance of Expert Appraisal Committee (EAC) (if applicable).

(Non-compliance of the conditions mentioned above is likely to result in the cancellation of NOC and legal action against the proponent.)

Vimta Labs Limited

Registered Office
142, IDA Phase II, Cherlapally
Hyderabad-500 051, Telangana, India
T : +91 40 2726 4141
F : +91 40 2726 3657



TC-5418

**ISSUED TO:**

M/S. VIRAT GLOBAL LAB
Unit: - J.K. CEMENT WORKS
Village- Harduwaken, tehsil- Amanganj,
Distt.-Panna, (M.P)-48844
INDIA.

Report Number : VLL/VLS/23/14385/001
Issued Date : 17/11/2023
P.O. Number : VGL/EMT/16/2023
P.O. Date : 16/10/2023

Page 1 of 3

SAMPLE PARTICULARS

Source Emission Monitoring for Raw Mill Kiln ESP Stack-1
(Co-Processing with 70%Pet Coke & 30% Indian coal)

(20 Processing with 70% of Coke & 30% Indian Coal)					
Sample Registration Date	:	02.11.2023	Sample Collection Date	:	31.10.2023
Analysis Starting Date	:	02.11.2023	Analysis Completion Date	:	17.11.2023
Test Required	:	PM, SO ₂ , NO _x , HCl, HF, CO, O ₂ and TOC.			
Sample Collected by Vimta Labs Ltd.					

TEST REPORT

Sr. No.	Parameters	UoM	Method of Testing	Results	Limits as per MoE, F&CC Notification GSR 497(E)
1	Diameter of stack	m	-	5.42	--
2	Stack Hight	m	-	183	--
3	Flue gas temperature	°C	-	97	--
4	Oxygen as O ₂	%	Flue Gas Analyzer	07.92	--
5	Velocity	m/sec	USEPA Method -3	11.2	--
6	Volumetric flow rate	Nm ³ /Sec	USEPA Method -3	188.78	--
7	Particulate Matter	mg/Nm ³	USEPA method-5	15.6	<30
8	Sulphur Dioxide	mg/Nm ³	USEPA method -6C	12.8	<100
9	Oxides of Nitrogen, NO _x as NO ₂	mg/Nm ³	USEPA method -7E	393.93	<800
10	Hydrogen Chloride as HCl	mg/Nm ³	USEPA method -26	3.9	<10
11	Hydrogen Fluoride as HF	mg/Nm ³	USEPA method -13	<0.1	<1.0
12	Carbon Monoxide as CO	mg/Nm ³	USEPA method -3A	52.97	<100
13	Total Organic Compounds as TOC	mg/Nm ³	USEPA method -40 & MM5(10)	3.6	<10

All the Values are represented at 10% O₂


Dr. Subba Reddy Mallampati
Manager-Environment

Vimta Labs Limited

Registered Office
142, IDA Phase II, Cherlapally
Hyderabad-500 051, Telangana, India
T : +91 40 2726 4141
F : +91 40 2726 3657



TC-5418

Vimta

Driven by Quality. Inspired by Science.

ISSUED TO:

M/S. VIRAT GLOBAL LAB
Unit: - J.K. CEMENT WORKS
Village- Harduwaken, tehsil- Amanganj,
Distt.-Panna, (M.P)-48844
INDIA.

Report Number : VLL/VLS/23/14385/001
Issued Date : 17/11/2023
P.O. Number : VGL/EMT/16/2023
P.O. Date : 16/10/2023

Page 2 of 3

SAMPLE PARTICULARS : Source Emission Monitoring for Raw Mill Kiln ESP Stack-1
(Co-Processing with 70%Pet Coke & 30% Indian coal)

Sample Registration Date	:	02.11.2023	Sample Collection Date	:	31.10.2023
Analysis Starting Date	:	02.11.2023	Analysis Completion Date	:	17.11.2023
Test Required	:	Hg & its compounds, Cd + Tl its compounds, Sb+ As+ Pb+ Co+ Cr+ Cu+ Mn+ Ni+ V+ Their compounds			
Sample Collected by Vimta Labs Ltd.					

TEST REPORT

Sr.No.	Parameters	UoM	Method of Testing	Results	Limits as per MoE,F&CC Notification GSR 497(E)
1	Mercury as Hg + their Compound	mg/Nm3	USEPA method - 29	<0.007	<0.05
2	Cadmium + Thallium (Cd + Tl) + their Compound			<0.001	<0.05
3	Chromium as Cr + their Compound			0.033	(Sb+ As+ Pb+ Co+ Cr+ Cu+ Mn+ Ni+ V+ Their compounds) < 0.5
	Manganese as Mn + their Compound			0.023	
	Arsenic as As + their Compound			0.015	
	Antimony as Sb + their Compound			0.012	
	Lead as Pb + their Compound			0.027	
	Cobalt as Co + their Compound			0.019	
	Copper as Cu + their Compound			0.008	
	Nickel as Ni + their Compound			0.029	
	Vanadium as V + their Compound			0.031	
	Sb+ As+ Pb+ Co+ Cr+ Cu+ Mn+ Ni+ V+ Their compounds			0.155	

All the values are represented at 10% O₂


Dr. Subba Reddy Mallampati
Manager-Environment

ISSUED TO:

M/S. VIRAT GLOBAL LAB
Unit: - J.K. CEMENT WORKS
Village- Harduwaken, tehsil- Amanganj,
Distt.-Panna, (M.P)-48844
INDIA.

Report Number : VLL/VLS/23/14385/001
Issued Date : 17/11/2023
P.O. Number : VGL/EMT/16/2023
P.O. Date : 16/10/2023

Page 3 of 3

SAMPLE PARTICULARS : Source Emission Monitoring for Raw Mill Kiln ESP Stack-1
(Co-Processing with 70%Pet Coke & 30% Indian coal)

Sample Registration Date	: 02.11.2023	Sample Collection Date	: 31.10.2023
Analysis Starting Date	: 02.11.2023	Analysis Completion Date	: 17.11.2023
Test Required	: PCDD & PCDF		
Sample Collected by Vimta Labs Ltd.			

TEST REPORT

Sr.No	Congeners of Dioxins and Furans	UoM	Results
1	1234678-HpCDD	ng/Nm ³ , TEQ	0.0035
2	1234678-HpCDF		0.0033
3	1234789-HpCDF		0.0000
4	123478-HxCDD		0.0002
5	123478-HxCDF		0.0081
6	123678-HxCDD		0.0138
7	123678-HxCDF		0.0123
8	123789-HxCDD		0.0013
9	123789-HxCDF		0.0001
10	12378-PeCDD		0.0005
11	12378-PeCDF		0.0004
12	234678-HxCDF		0.0008
13	23478-PeCDF		0.0004
14	2378-TCDD		0.0009
15	23478-TCDF		0.0001
16	OCDD		0.0006
17	OCDF		0.0005
Total Furans & Dioxins		ng/Nm³, TEQ	0.0467
Total Furans & Dioxins		ng/Nm³, TEQ Corrected to 10% O₂ Concentration	0.0393
Limits as per MoE,F& CC Notification GSR 497(E)			<0.1

Method of Testing: As per USEPA 23 A & 8290

Instruments used: Auto spec Premier (HRGC/HRMS). Detection Limit: 0.01ng

Dr. Subha Reddy Mallampati
Manager-Environment



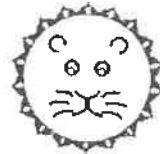
मध्य प्रदेश शासन

Panna Tiger Reserve

Panna, Madhya Pradesh, (India)

Phone No. +917732-252135 (O) Fax, +917732-252120

E-mail: fdptr82@gmail.com Website: www.pannatigerreserve.in



पन्ना टाइगर रिजर्व

क्रमांक / मा.चि. / 2023 / 2908
प्रति,

/ पन्ना, दिनांक - 16/8/2023

वरिष्ठ महाप्रबंधक,
जेकेसेम तहसील अमानगंज
जिला पन्ना (म0प्र0)

विषय :- To comply with Wild Life Conservation Plan Approval Letter for Jaykaycem (central) Ltd. Integrated Cement Plant Project, Tahsil-Amanganj, District-Panna (M.P.), implementation of Wild Life Conservation Plan and specific condition of Environment Clearance-regarding.

संदर्भ :- 1. आपका पत्र क्र. / PCP/EMD/MoEF/F 04/05 Date 20.07.2023
2. प्रधान मुख्य वन संरक्षक (वन्यप्राणी) मध्यप्रदेश भोपाल का पत्र क्रमांक / व. प्रा. / मा.चि. / 8847 दिनांक 13.12.2019

—00—

उपरोक्त विषयांकित प्रधान मुख्य वन संरक्षक (वन्यप्राणी) मध्यप्रदेश भोपाल के पत्र क्रमांक / व. प्रा. / मा.चि. / 8847 दिनांक 13.12.2019 के माध्यम से वन्यप्राणी संरक्षण योजना (Wild Life Conservation Plan) का अनुमोदन किया गया है। छायाप्रति संलग्न है। जिसके संदर्भ में आपके द्वारा प्रस्तुत 10 वर्षीय वन्यप्राणी संरक्षण योजना में होने वाली 289.90 लाख कुल व्यय राशि प्रधान मुख्य वन संरक्षक (वन्यप्राणी) भोपाल के पत्र क्रमांक / 560 दिनांक 24.01.2022 से प्राप्त निर्देशानुसार मध्यप्रदेश टाइगर फाउन्डेशन सोसायटी के भारतीय स्टेट बैंक मुख्य शाखा टी. टी. नगर भोपाल के बचत खाता क्रमांक 10571048460 आई.एफ.एस.सी. कोड SBIN0001308 में जमा कराते हुये इस कार्यालय को पावती प्रति के साथ जानकारी उपलब्ध कराने का कष्ट करें। उपरोक्त राशियों के संबंध में यदि विलंब के कारण अतिरिक्त संशोधित राशि के संबंध में वरिष्ठ से कोई निर्देश प्राप्त होने की स्थिति में आवेदक संस्थान द्वारा अंतर की राशि भी जमा की जावेगी।

संलग्न :- उपरोक्तानुसार।

(क्षेत्र संचालक महोदय द्वारा अनुमोदित)

[Signature]
उप संचालक,

पन्ना टाइगर रिजर्व, पन्ना

पन्ना, दिनांक 16/8/2023

पृ0क्र0 / मा0चि0 / 2023 / 2909
प्रतिलिपि:-

1. प्रधान मुख्य वन संरक्षक (वन्यप्राणी) म.प्र. भोपाल की ओर सूचनार्थ सम्प्रेषित।
2. क्षेत्र संचालक पन्ना टाइगर रिजर्व, पन्ना की ओर सूचनार्थ सम्प्रेषित।
3. मुख्य वन संरक्षक छतरपुर वृत्त छतरपुर की ओर सूचनार्थ सम्प्रेषित।
4. वनमण्डलाधिकारी वनमण्डल *[Signature]* की ओर प्राप्त योजना संलग्न कर सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित।

[Signature]
उप संचालक,

पन्ना टाइगर रिजर्व, पन्ना

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.चि./2023/2908/पन्ना, दिनांक-16/8/2023।

महोदय

विषयान्तर्गत संदर्भित पत्र द्वारा जेकेसेम (सेंट्रल) लिमिटेड को 289.90 लाख रु मध्यप्रदेश टाईगर 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 तारत्व में जेके सीमेंट लिमिटेड द्वारा 289.90 लाख रु० का भुगतान ई बैंक के माध्यम से मध्यप्रदेश टाईगर 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 और प्रेषित।

वास्ते जेकेसेम (सेंट्रल) लिमिटेड




कृषिल अग्रवाल
यूनिट हेड
जेके सीमेंट लि०

Corporate Office

Prism Tower, 5th Floor, Ninaniya Estate,
Gwal Pahari, Gurugram - 122102, Haryana

+0124-6919000

admin.prismt@jkcement.com

www.jkcement.com

**JK SUPER
CEMENT**
BUILD SAFE

**JK SUPER
STRONG**
BUILD SAFE

Manufacturing Units at :

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

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



J K Cement Limited, Panna (M.P.)
AMBIENT AIR QUALITY MONITORING DATA

Month	PM10 (µg/Cum)				PM2.5 (µg/Cum)				SO2 (µg/Cum)				NO2 (µg/Cum)				CO (mg/Cum)			
	Permissible Limit for 24 hours - 100 (µg/Cum)				Permissible Limit for 24 hours - 60 (µg/Cum)				Permissible Limit for 24 hours - 80 (µg/Cum)				Permissible Limit for 24 hours - 80 (µg/Cum)				Permissible Limit for CO for 1 hour weighted Avg-24(mg/Cum)			
	Near Zero Point	Near Reservoir	Near Store	Near Guest House	Near Zero Point	Near Reservoir	Near Store	Near Guest House	Near Zero Point	Near Reservoir	Near Store	Near Guest House	Near Zero Point	Near Reservoir	Near Store	Near Guest House	Near Zero Point	Near Reservoir	Near Store	Near Guest House
Apr-23	48.29	48.16	49.64	50.50	29.53	28.88	26.86	31.26	6.68	6.87	6.72	6.47	11.35	11.41	12.27	13.34	0.5	0.68	0.58	0.62
May-23	46.48	47.51	49.32	51.33	30.31	30.31	27.21	31.34	6.46	6.86	6.80	6.63	11.49	11.50	11.94	12.66	0.68	0.43	0.48	0.58
Jun-23	47.24	47.68	49.90	51.25	29.82	28.36	27.38	31.30	6.58	6.71	6.81	6.53	11.27	11.09	12.39	13.07	0.48	0.59	0.62	0.63
Jul-23	50.55	51.35	56.27	56.73	32.30	32.65	29.20	34.58	6.83	6.79	7.35	6.91	11.40	11.99	13.47	13.31	0.43	0.63	0.58	0.71
Aug-23	52.85	54.46	57.04	57.49	35.49	35.76	31.09	36.72	6.71	7.05	7.45	6.86	11.33	12.64	13.88	13.89	0.55	0.69	0.73	0.59
Sep-23	53.79	53.59	58.56	58.74	33.13	34.28	29.66	35.66	6.80	6.90	7.45	6.91	11.36	12.62	13.91	13.80	0.61	0.63	0.58	0.67
Minimum	53.79	54.46	58.56	58.74	35.49	35.76	31.09	36.72	6.83	7.05	7.45	6.91	11.49	12.64	13.91	13.89	0.68	0.69	0.73	0.71
Maximum	46.48	47.51	49.32	50.50	29.53	28.36	26.86	31.26	6.46	6.71	6.72	6.47	11.27	11.09	11.94	12.66	0.43	0.43	0.48	0.58
Average	49.87	50.46	53.45	54.34	31.76	31.71	28.57	33.48	6.68	6.86	7.10	6.72	11.37	11.87	12.98	13.34	0.54	0.61	0.60	0.63



VIRAT GLOBAL LAB

An Analytical Laboratory

Recognized by MoEF & CC, Accredited by ISO/IEC-17025:2017 (NABL)
(An ISO 9001:2015, 14001:2015 & 45001:2018 Certified Company)

TEST REPORT CODE: VGL/FE/23/08/31/001

TEST REPORT ISSUE DATE: 09.09.2023

TEST REPORT (FUGITIVE EMISSION)

Name & Address of Customer : M/s JAYKAYCEM (CENTRAL) LIMITED,
VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ,
DISTT. - PANNA, (M.P)

Sampling Location : NEAR GYPSUM YARD

Duration of Sampling : 26.08.2023 TO 26.08.2023

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

Sample Done By : VGL STAFF

Packing Condition : SEALED

Environmental Condition : TEMP.(°C)- 32.4 & RH (%) - 55.0

Method of Sampling : IS:5182

Sample Receiving Date : 31.08.2023

Sample Processing Date : 31.08.2023 TO 09.09.2023

Equipment Used : HIGH VOLUME SAMPLER

TEST RESULTS

SL. NO.	PARAMETERS	TEST METHOD	RESULTS	UNIT	SPECIFICATION / LIMIT (AS PER CPCB)
1	Suspended Particulate Matter (SPM)	IS 5182 (Part-4)	284.5	µg/m ³	600

Page 1 of 1

Note:

- 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.
- 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.
- 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/FE/23/08/31/002

TEST REPORT ISSUE DATE: 09.09.2023

TEST REPORT (FUGITIVE EMISSION)

Name & Address of Customer : M/s JAYKAYCEM (CENTRAL) LIMITED,
VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ,
DISTT. - PANNA, (M.P)

Sampling Location : NEAR PACKING PLANT

Duration of Sampling : 26.08.2023 TO 26.08.2023

Time of Sampling : 09:40 AM TO 5:40 PM

Sample Done By : VGL STAFF

Packing Condition : SEALED

Environmental Condition : TEMP.(°C)- 32.4 & RH (%) - 55.0

Method of Sampling : IS:5182

Sample Receiving Date : 31.08.2023

Sample Processing Date : 31.08.2023 TO 09.09.2023

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)	308.5	µg/m ³	600

Page 1 of 1

Note:

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

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

TEST REPORT (FUGITIVE EMISSION)

Name & Address of Customer : M/s JAYKAYCEM (CENTRAL) LIMITED,
VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ,
DISTT. - PANNA, (M.P)

Sampling Location : NEAR RAW MILL

Duration of Sampling : 26.08.2023 TO 27.08.2023

Time of Sampling : 6:00 PM TO 2:00 AM

Sample Done By : VGL STAFF

Packing Condition : SEALED

Environmental Condition : TEMP.(°C)- 30.0 & RH (%) - 55.0

Method of Sampling : IS:5182

Sample Receiving Date : 31.08.2023

Sample Processing Date : 31.08.2023 TO 09.09.2023

Equipment Used : HIGH VOLUME SAMPLER

TEST RESULTS

SL. NO.	PARAMETERS	TEST METHOD	RESULTS	UNIT	SPECIFICATION / LIMIT (AS PER CPCB)
1	Suspended Particulate Matter (SPM)	IS 5182 (Part-4)	292.0	µg/m ³	600

Page 1 of 1

Note:

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

Review By:



Dr. Ashok Kumar
Technical Manager

Authorized Signatory

Virat Global Lab



Authorised Signatory

D. K. Yadav
Lab In-charge

TEST REPORT (FUGITIVE EMISSION)

Name & Address of Customer : M/s JAYKAYCEM (CENTRAL) LIMITED,
VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ,
DISTT. - PANNA, (M.P)

Sampling Location : NEAR COAL MILL

Duration of Sampling : 26.08.2023 TO 27.08.2023

Time of Sampling : 06:30 PM TO 2:30 AM

Sample Done By : VGL STAFF

Packing Condition : SEALED

Environmental Condition : TEMP.(°C)- 30.0 & RH (%) - 55.0

Method of Sampling : IS:5182

Sample Receiving Date : 31.08.2023

Sample Processing Date : 31.08.2023 TO 09.09.2023

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)	288.6	µg/m ³	600

Page 1 of 1

Note:

- 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.
- 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.
- 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
Lab In-charge

TEST REPORT (FUGITIVE EMISSION)

Name & Address of Customer : M/s JAYKAYCEM (CENTRAL) LIMITED,
VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ,
DISTT. - PANNA, (M.P)

Sampling Location : NEAR CEMENT MILL

Duration of Sampling : 27.08.2023 TO 27.08.2023

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

Sample Done By : VGL STAFF

Packing Condition : SEALED

Environmental Condition : TEMP.(°C)- 32.6 & RH (%) - 55.0

Method of Sampling : IS:5182

Sample Receiving Date : 31.08.2023

Sample Processing Date : 31.08.2023 TO 09.09.2023

Equipment Used : HIGH VOLUME SAMPLER

TEST RESULTS

SL. NO.	PARAMETERS	TEST METHOD	RESULTS	UNIT	SPECIFICATION / LIMIT (AS PER CPCB)
1	Suspended Particulate Matter (SPM)	IS 5182 (Part-4)	318.6	µg/m ³	600

Page 1 of 1

Note:

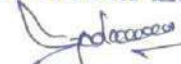
1. This report is not to be reproduced wholly or in part and cannot be used as evidence in the court of law and should not be used in any advertising media without our special permission in writing.
2. The sample will be destroyed after 15days from the date of issue of test certificate unless otherwise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

Review By:

Dr. Ashok Kumar
Technical Manager

Authorized Signatory

Virat Global Lab


Authorized Signatory

D. K. Yadav
Lab In-charge

TEST REPORT CODE: VGL/FE/23/08/31/006

TEST REPORT ISSUE DATE: 09.09.2023

TEST REPORT (FUGITIVE EMISSION)

Name & Address of Customer : M/s JAYKAYCEM (CENTRAL) LIMITED,
VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ,
DISTT. - PANNA, (M.P)

Sampling Location : NEAR COOLER

Duration of Sampling : 27.08.2023 TO 27.08.2023

Time of Sampling : 09:55 AM TO 5:55 PM

Sample Done By : VGL STAFF

Packing Condition : SEALED

Environmental Condition : TEMP.(°C)- 32.6 & RH (%) - 55.0

Method of Sampling : IS:5182

Sample Receiving Date : 31.08.2023

Sample Processing Date : 31.08.2023 TO 09.09.2023

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)	322.0	µg/m3	600

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.

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

Virat Global Lab


Authorized SignatoryD. K. Yadav
Lab In-charge

TEST REPORT CODE: VGL/FE/23/08/31/007

TEST REPORT ISSUE DATE: 09.09.2023

TEST REPORT (FUGITIVE EMISSION)

Name & Address of Customer : M/s JAYKAYCEM (CENTRAL) LIMITED,
VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ,
DISTT. - PANNA, (M.P)

Sampling Location : NEAR COAL SHED

Duration of Sampling : 27.08.2023 TO 28.08.2023

Time of Sampling : 6:15 PM TO 2:15 AM

Sample Done By : VGL STAFF

Packing Condition : SEALED

Environmental Condition : TEMP.(°C)- 29.0 & RH (%) - 55.0

Method of Sampling : IS:5182

Sample Receiving Date : 31.08.2023

Sample Processing Date : 31.08.2023 TO 09.09.2023

Equipment Used : HIGH VOLUME SAMPLER

TEST RESULTS

SL. NO.	PARAMETERS	TEST METHOD	RESULTS	UNIT	SPECIFICATION / LIMIT (AS PER CPCB)
1	Suspended Particulate Matter (SPM)	IS 5182 (Part-4)	276.0	µg/m ³	600


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.

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

Virat Global Lab



Authorised Signatory

D. K. Yadav
Lab In-charge

TEST REPORT (FUGITIVE EMISSION)

Name & Address of Customer : M/s JAYKAYCEM (CENTRAL) LIMITED,
VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ,
DISTT. - PANNA, (M.P)

Sampling Location : NEAR LIME STONE SHED

Duration of Sampling : 27.08.2023 TO 28.08.2023

Time of Sampling : 06:40 PM TO 2:40 AM

Sample Done By : VGL STAFF

Packing Condition : SEALED

Environmental Condition : TEMP.(°C)- 29.0 & RH (%) - 55.0

Method of Sampling : IS:5182

Sample Receiving Date : 31.08.2023

Sample Processing Date : 31.08.2023 TO 09.09.2023

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)	280.2	µg/m ³	600

Page 1 of 1

Note:

- 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.
- 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.
- 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



HDD-272, Phase III - Near JP Chowk
Ring Road No.-2, Kabir Nagar, Raipur (C.G.) - 492099
Ph : 0771 - 4027777 | Email : ultimatenviro@gmail.com

Recognized by Ministry of Environment Forest and Climate Change under EP act 1996

Name & Address Of The Customer		Report No.	UES/TR/23-24/02074	
To, M/s Jaykaycem (Central) Ltd. Village Harduaken, Tehsil - Amanganj, District - Panna (M.P.)		Lab Ref No.	UES/23-24/W/04474	
		Date of Sampling	15/05/2023	
		Date of Receipt	16/05/2023	
		Date of Report	20/05/2023	
		Date of Analysis	Start: 16/05/2023	End: 20/05/2023
SAMPLE DETAILS				
Customer Ref. No. & Date	Verbal Communication, Dated: 15/05/2023.			
Customer Sample Id / Sampling Location	Borewell Zero Point Cement Plant (Core Zone)	Latitude	24°19'27.85"N	
		Longitude	79°57'43.98"E	
Sample Type	Ground Water	Sample Condition At Receipt	Ok	
Packing Of Sample	Jerry can (Approx. 3 Ltr.) Glass Bottle (Approx. 1 Ltr.x2)	Sample Collected By	Laboratory Chemist	
Other Details	Sealed	Quantity Received	Approx 5 Ltr. each	

Rep. No. 02074

TEST REPORT

SR. NO.	PARAMETER	UNIT	METHOD OF TEST	AS PER IS 10500:2012		RESULT
				Acceptable Limit	Permissible limit	
1	pH Value at 25.3°C	-	IS:3025:(Part-11)	6.5-8.5	No Relaxation	7.38
2	Colour	Hazen	IS:3025:(Part-4)	5	15	<1
3	Taste	-	IS 3025(part-8)	Agreeable	Agreeable	Agreeable
4	Odour	-	IS 3025(part-5)	Agreeable	Agreeable	Agreeable
5	Total Dissolved Solids	mg/L	IS:3025:(Part-16)	500	2000	258.0
6	Conductivity	µS/Cm	IS 3025:(Part-14)	-	-	430.3
7	Turbidity	NTU	IS 3025:(Part-10)	1	5	0.82
8	Total Alkalinity (as CaCO ₃)	mg/L	IS 3025:(Part-23)	200	600	160
9	Total Hardness (as CaCO ₃)	mg/L	IS 3025:(Part-21)	200	600	180
10	Calcium (as Ca)	mg/L	IS 3025:(Part-40)	75	200	50.51
11	Magnesium (as Mg)	mg/L	IS 3025:(Part-46)	30	100	13.12
12	Sodium	mg/l	IS 3025:(Part-45)	-	-	7.64
13	Potassium	mg/l	IS 3025:(Part-45)	-	-	1.70
14	Nitrate (as NO ₃)	mg/L	IS 3025(part-34)	45	No Relaxation	16.12
15	Total Phosphate	mg/L	IS:3025:(Part-31)	--	--	N.D.
16	Chloride (as Cl)	mg/L	IS 3025:(Part-32)	250	1000	39.9
17	Sulphate (as SO ₄)	mg/L	IS 3025:(Part-24)	200	400	35.58
18	Fluoride (as F)	mg/L	IS 3025(part-60)	1	1.5	0.15
19	Cyanide (as CN)	mg/L	IS:3025:(part-27)	0.05	No Relaxation	N.D.



HDD-272, Phase III - Near JP Chowk
Ring Road No.-2, Kabir Nagar, Raipur (C.G.) - 492099
Ph : 0771 - 4027777 | Email : ultimatenviro@gmail.com

Recognized by Ministry of Environment Forest and Climate Change under EP act 1996

Rep. No. 02074

TEST REPORT

SR. NO.	PARAMETER	UNIT	METHOD OF TEST	AS PER IS 10500:2012		RESULT
				Acceptable Limit	Permissible limit	
20	Phenolic Compound (as C ₆ H ₅ OH)	mg/L	IS 3025(Part-43)	0.001	0.002	N.D.
21	Arsenic (as As)	mg/L	IS 3025(Part-37)	0.01	0.05	N.D.
22	Mercury (as Hg)	mg/L	IS 3025(Part-48)	0.001	No Relaxation	N.D.
23	Lead (as Pb)	mg/L	IS 3025(Part-47)	0.01	No Relaxation	N.D.
24	Cadmium (as Cd)	mg/L	IS 3025(Part-41)	0.003	No Relaxation	N.D.
25	Free Residual Chlorine	mg/L	IS:3025: (Part-26)	0.2	1	N.D.
26	Chromium (as Cr)	mg/L	Annex J of IS:13428	0.05	No Relaxation	N.D.
27	Copper (as Cu)	mg/L	IS 3025(Part-42)	0.05	1.5	N.D.
28	Zinc (as Zn)	mg/L	IS 3025(Part-49)	5	15	N.D.
29	Selenium (as Se)	mg/L	IS 3025(Part-56)	0.01	No Relaxation	N.D.
30	Iron (as Fe)	mg/L	IS 3025(Part-53)	0.3	No Relaxation	0.10
31	Manganese (as Mn)	mg/L	IS:3025: (Part-59)	0.1	0.3	N.D.
32	Total Coliform	MPN/100ml	IS:1622:1981:RA:2019	Shall not be detectable in any 100 ml sample		Absent

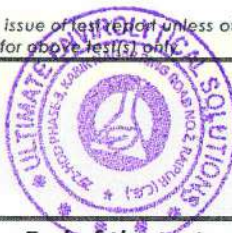
Note: mg/lit.:milligram per liter, N.D.: Not Detected.

REMARKS: RESULTS ARE AS ABOVE

Terms & conditions

- > The above analysis report refers to the particular sample received at our end and the use of the report for publication, arbitration or as legal dispute is forbidden.
- > Test sample will be retained for 15 days after issue of test report unless otherwise agreed with customer.
- > This is for information as the party has asked for above test(s) only.

REVIEWED BY
20/05/23



For ULTIMATE ENVIROLYTICAL SOLUTIONS

Subhajcet

AUTHORIZED SIGNATORY

-----End of the test report-----



HDD-272, Phase III - Near JP Chowk
Ring Road No.-2, Kabir Nagar, Raipur (C.G.) - 492099
Ph : 0771 - 4027777 | Email : ultimatenviro@gmail.com

Recognized by Ministry of Environment Forest and Climate Change under EP act 1996

Name & Address Of The Customer		Report No.	UES/TR/23-24/02075	
To, M/s Jaykaycem (Central) Ltd. Village Harduaken, Tehsil - Amanganj, District - Panna (M.P.)		Lab Ref No.	UES/23-24/W/04475	
		Date of Sampling	15/05/2023	
		Date of Receipt	16/05/2023	
		Date of Report	20/05/2023	
		Date of Analysis	Start: 16/05/2023	End: 20/05/2023
SAMPLE DETAILS				
Customer Ref. No. & Date	Verbal Communication, Dated: 15/01/2023.			
Customer Sample Id / Sampling Location	Borewell Near Main Gate Cement Plant (Core Zone)	Latitude	24°19'49.46"N	
		Longitude	79°58'38.00"E	
Sample Type	Ground Water	Sample Condition At Receipt	Ok	
Packing Of Sample	Jerry can (Approx. 3 Ltr.) Glass Bottle (Approx. 1 Ltr.x2)	Sample Collected By	Laboratory Chemist	
Other Details	Sealed	Quantity Received	Approx 5 Ltr. each	

Rep. No. 02075

TEST REPORT

SR. NO.	PARAMETER	UNIT	METHOD OF TEST	AS PER IS 10500:2012		RESULT
				Acceptable Limit	Permissible limit	
1	pH Value at 25.3°C	-	IS:3025: (Part-11)	6.5-8.5	No Relaxation	7.32
2	Colour	Hazen	IS:3025: (Part-4)	5	15	<1
3	Taste	-	IS 3025(part-8)	Agreeable	Agreeable	Agreeable
4	Odour	-	IS 3025(part-5)	Agreeable	Agreeable	Agreeable
5	Total Dissolved Solids	mg/L	IS:3025: (Part-16)	500	2000	245
6	Conductivity	µS/Cm	IS 3025: (Part-14)	-	-	408.6
7	Turbidity	NTU	IS 3025: (Part-10)	1	5	0.75
8	Total Alkalinity (as CaCO ₃)	mg/L	IS 3025: (Part-23)	200	600	150
9	Total Hardness (as CaCO ₃)	mg/L	IS 3025: (Part-21)	200	600	168
10	Calcium (as Ca)	mg/L	IS 3025: (Part-40)	75	200	47.29
11	Magnesium (as Mg)	mg/L	IS 3025: (Part-46)	30	100	12.15
12	Sodium	mg/l	IS 3025: (Part-45)	-	-	7.29
13	Potassium	mg/l	IS 3025: (Part-45)	-	-	1.50
14	Nitrate (as NO ₃)	mg/L	IS 3025(part-34)	45	No Relaxation	15.31
15	Total Phosphate	mg/L	IS:3025: (Part-31)	--	--	N.D.
16	Chloride (as Cl)	mg/L	IS 3025: (Part-32)	250	1000	38.9
17	Sulphate (as SO ₄)	mg/L	IS 3025: (Part-24)	200	400	33.78
18	Fluoride (as F)	mg/L	IS 3025(part-60)	1	1.5	0.10
19	Cyanide (as CN)	mg/L	IS:3025: (part-27)	0.05	No Relaxation	N.D.



HDD-272, Phase III - Near JP Chowk
Ring Road No.-2, Kabir Nagar, Raipur (C.G.) - 492099
Ph : 0771 - 4027777 | Email : ultimatenviro@gmail.com

Recognized by Ministry of Environment Forest and Climate Change under EP act 1996

Rep. No. 02075

TEST REPORT

SR. NO.	PARAMETER	UNIT	METHOD OF TEST	AS PER IS 10500:2012		RESULT
				Acceptable Limit	Permissible limit	
20	Phenolic Compound (as C ₆ H ₅ OH)	mg/L	IS 3025(Part-43)	0.001	0.002	N.D.
21	Arsenic (as As)	mg/L	IS 3025(Part-37)	0.01	0.05	N.D.
22	Mercury (as Hg)	mg/L	IS 3025(Part-48)	0.001	No Relaxation	N.D.
23	Lead (as Pb)	mg/L	IS 3025(Part-47)	0.01	No Relaxation	N.D.
24	Cadmium (as Cd)	mg/L	IS 3025(Part-41)	0.003	No Relaxation	N.D.
25	Free Residual Chlorine	mg/L	IS:3025: (Part-26)	0.2	1	N.D.
26	Chromium (as Cr)	mg/L	Annex J of IS:13428	0.05	No Relaxation	N.D.
27	Copper (as Cu)	mg/L	IS 3025(Part-42)	0.05	1.5	N.D.
28	Zinc (as Zn)	mg/L	IS 3025(Part-49)	5	15	N.D.
29	Selenium (as Se)	mg/L	IS 3025(Part-56)	0.01	No Relaxation	N.D.
30	Iron (as Fe)	mg/L	IS 3025(Part-53)	0.3	No Relaxation	0.09
31	Manganese (as Mn)	mg/L	IS:3025: (Part-59)	0.1	0.3	N.D.
32	Total Coliform	MPN/100ml	IS:1622:1981:RA:2019	Shall not be detectable in any 100 ml sample		Absent

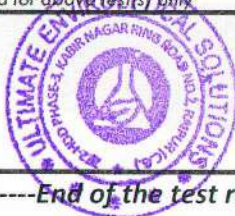
Note: mg/lit.:milligram per liter, N.D.: Not Detected.

REMARKS: RESULTS ARE AS ABOVE

Terms & conditions

- The above analysis report refers to the particular sample received at our end and the use of the report for publication, arbitration or as legal dispute is forbidden.
- Test sample will be retained for 15 days after issue of test report unless otherwise agreed with customer.
- This is for information as the party has asked for above test(s) only.

Reck
20/05/23
REVIEWED BY



For ULTIMATE ENVIROLYTICAL SOLUTIONS

Subhajeet

AUTHORIZED SIGNATORY

-----End of the test report-----



HDD-272, Phase III - Near JP Chowk
Ring Road No.-2, Kabir Nagar, Raipur (C.G.) - 492099
Ph : 0771 - 4027777 | Email : ultimatenviro@gmail.com

Recognized by Ministry of Environment Forest and Climate Change under EP act 1996

Name & Address Of The Customer		Report No.	UES/TR/23-24/02078	
To, M/s Jaykaycem (Central) Ltd. Village Harduaken, Tehsil - Amanganj, District - Panna (M.P.)		Lab Ref No.	UES/23-24/W/04478	
		Date of Sampling	15/05/2023	
		Date of Receipt	16/05/2023	
		Date of Report	20/05/2023	
		Date of Analysis	Start: 16/05/2023	End: 20/05/2023
SAMPLE DETAILS				
Customer Ref. No. & Date	Verbal Communication, Dated: 15/05/2023.			
Customer Sample Id / Sampling Location	Puraina Village Buffer Zone (Bore Well near Hanuman Temple)	Latitude	24°20'22.92"N	
		Longitude	79°58'18.79"E	
Sample Type	Ground Water	Sample Condition At Receipt	Ok	
Packing Of Sample	Jerry can (Approx. 3 Ltr.) Glass Bottle (Approx. 1 Ltr.x2)	Sample Collected By	Laboratory Chemist	
Other Details	Sealed	Quantity Received	Approx 5 Ltr. each	

Rep. No. 02078

TEST REPORT

SR. NO.	PARAMETER	UNIT	METHOD OF TEST	AS PER IS 10500:2012		RESULT
				Acceptable Limit	Permissible limit	
1	pH Value at 25.3°C	-	IS:3025:(Part-11)	6.5-8.5	No Relaxation	7.48
2	Colour	Hazen	IS:3025:(Part-4)	5	15	<1
3	Taste	-	IS 3025(part-8)	Agreeable	Agreeable	Agreeable
4	Odour	-	IS 3025(part-5)	Agreeable	Agreeable	Agreeable
5	Total Dissolved Solids	mg/L	IS:3025:(Part-16)	500	2000	277
6	Conductivity	µS/Cm	IS 3025:(Part-14)	-	-	461.97
7	Turbidity	NTU	IS 3025:(Part-10)	1	5	0.62
8	Total Alkalinity (as CaCO ₃)	mg/L	IS 3025:(Part-23)	200	600	162
9	Total Hardness (as CaCO ₃)	mg/L	IS 3025:(Part-21)	200	600	184
10	Calcium (as Ca)	mg/L	IS 3025:(Part-40)	75	200	51.30
11	Magnesium (as Mg)	mg/L	IS 3025:(Part-46)	30	100	13.61
12	Sodium	mg/l	IS 3025:(Part-45)	-	-	7.74
13	Potassium	mg/l	IS 3025:(Part-45)	-	-	1.80
14	Nitrate (as NO ₃)	mg/L	IS 3025(part-34)	45	No Relaxation	21.48
15	Total Phosphate	mg/L	IS:3025:(Part-31)	--	--	N.D.
16	Chloride (as Cl)	mg/L	IS 3025:(Part-32)	250	1000	40.9
17	Sulphate (as SO ₄)	mg/L	IS 3025:(Part-24)	200	400	47.09
18	Fluoride (as F)	mg/L	IS 3025(part-60)	1	1.5	0.18



HDD-272, Phase III - Near JP Chowk
Ring Road No.-2, Kabir Nagar, Raipur (C.G.) - 492099
Ph : 0771 - 4027777 | Email : ultimatenviro@gmail.com

Recognized by Ministry of Environment Forest and Climate Change under EP act 1996

Rep. No. 02078

TEST REPORT

SR. NO.	PARAMETER	UNIT	METHOD OF TEST	AS PER IS 10500:2012		RESULT
				Acceptable Limit	Permissible limit	
19	Cyanide (as CN)	mg/L	IS:3025:(part-27)	0.05	No Relaxation	N.D.
20	Phenolic Compound (as C ₆ H ₅ OH)	mg/L	IS 3025(Part-43)	0.001	0.002	N.D.
21	Arsenic (as As)	mg/L	IS 3025(Part-37)	0.01	0.05	N.D.
22	Mercury (as Hg)	mg/L	IS 3025(Part-48)	0.001	No Relaxation	N.D.
23	Lead (as Pb)	mg/L	IS 3025(Part-47)	0.01	No Relaxation	N.D.
24	Cadmium (as Cd)	mg/L	IS 3025(Part-41)	0.003	No Relaxation	N.D.
25	Free Residual Chlorine	mg/L	IS:3025:(Part-26)	0.2	1	N.D.
26	Chromium (as Cr)	mg/L	Annex J of IS:13428	0.05	No Relaxation	N.D.
27	Copper (as Cu)	mg/L	IS 3025(Part-42)	0.05	1.5	N.D.
28	Zinc (as Zn)	mg/L	IS 3025(Part-49)	5	15	N.D.
29	Selenium (as Se)	mg/L	IS 3025(Part-56)	0.01	No Relaxation	N.D.
30	Iron (as Fe)	mg/L	IS 3025(Part-53)	0.3	No Relaxation	0.16
31	Manganese (as Mn)	mg/L	IS:3025:(Part-59)	0.1	0.3	N.D.
32	Total Coliform	MPN/100ml	IS:1622:1981:RA:2019	Shall not be detectable in any 100 ml sample		Absent

Note: mg/lit.:milligram per liter, N.D.: Not Detected.

REMARKS: RESULTS ARE AS ABOVE

Terms & conditions

- The above analysis report refers to the particular sample received at our end and the use of the report for publication, arbitration or as legal dispute is forbidden.
- Test sample will be retained for 15 days after issue of test report unless otherwise agreed with customer.
- This is for information as the party has asked for above test(s) only.

[Signature]
20/05/23

REVIEWED BY



For ULTIMATE ENVIROLYTICAL SOLUTIONS

[Signature]

AUTHORIZED SIGNATORY

-----End of the test report-----



HDD-272, Phase III - Near JP Chowk
Ring Road No.-2, Kabir Nagar, Raipur (C.G.) - 492099
Ph : 0771 - 4027777 | Email : ultimatenviro@gmail.com

Recognized by Ministry of Environment Forest and Climate Change under EP act 1996

Name & Address Of The Customer		Report No.	UES/TR/23-24/02079	
To, M/s Jaykaycem (Central) Ltd. Village Harduaken, Tehsil - Amanganj, District - Panna (M.P.)		Lab Ref No.	UES/23-24/W/04479	
		Date of Sampling	15/05/2023	
		Date of Receipt	16/05/2023	
		Date of Report	20/05/2023	
		Date of Analysis	Start: 16/05/2023	End: 20/05/2023
SAMPLE DETAILS				
Customer Ref. No. & Date	Verbal Communication, Dated: 15/05/2023.			
Customer Sample Id / Sampling Location	Pagra Village Buffer Zone (Govt. Hand Pump near Shad Khan House)	Latitude	24°21'09.06"N	
		Longitude	79°58'58.79"E	
Sample Type	Ground Water	Sample Condition At Receipt	Ok	
Packing Of Sample	Jerry can (Approx. 3 Ltr.) Glass Bottle (Approx. 1 Ltr.x2)	Sample Collected By	Laboratory Chemist	
Other Details	Sealed	Quantity Received	Approx 5 Ltr. each	

Rep. No. 02079

TEST REPORT

SR. NO.	PARAMETER	UNIT	METHOD OF TEST	AS PER IS 10500:2012		RESULT
				Acceptable Limit	Permissible Limit	
1	pH Value at 25.3°C	-	IS:3025:(Part-11)	6.5-8.5	No Relaxation	7.45
2	Colour	Hazen	IS:3025:(Part-4)	5	15	<1
3	Taste	-	IS 3025(part-8)	Agreeable	Agreeable	Agreeable
4	Odour	-	IS 3025(part-5)	Agreeable	Agreeable	Agreeable
5	Total Dissolved Solids	mg/L	IS:3025:(Part-16)	500	2000	273
6	Conductivity	µS/Cm	IS 3025:(Part-14)	-	-	455.3
7	Turbidity	NTU	IS 3025:(Part-10)	1	5	0.89
8	Total Alkalinity (as CaCO ₃)	mg/L	IS 3025:(Part-23)	200	600	162
9	Total Hardness (as CaCO ₃)	mg/L	IS 3025:(Part-21)	200	600	178
10	Calcium (as Ca)	mg/L	IS 3025:(Part-40)	75	200	49.70
11	Magnesium (as Mg)	mg/L	IS 3025:(Part-46)	30	100	13.12
12	Sodium	mg/l	IS 3025:(Part-45)	-	-	7.8
13	Potassium	mg/l	IS 3025:(Part-45)	-	-	1.79
14	Nitrate (as NO ₃)	mg/L	IS 3025(part-34)	45	No Relaxation	14.94
15	Total Phosphate	mg/L	IS:3025:(Part-31)	--	--	N.D.
16	Chloride (as Cl)	mg/L	IS 3025:(Part-32)	250	1000	41.9
17	Sulphate (as SO ₄)	mg/L	IS 3025:(Part-24)	200	400	32.87
18	Fluoride (as F)	mg/L	IS 3025(part-60)	1	1.5	0.16



HDD-272, Phase III - Near JP Chowk
Ring Road No.-2, Kabir Nagar, Raipur (C.G.) - 492099
Ph : 0771 - 4027777 | Email : ultimatenviro@gmail.com

Recognized by Ministry of Environment Forest and Climate Change under EP act 1996

Rep. No. 02079

TEST REPORT

SR. NO.	PARAMETER	UNIT	METHOD OF TEST	AS PER IS 10500:2012		RESULT
				Acceptable Limit	Permissible limit	
19	Cyanide (as CN)	mg/L	IS:3025:(part-27)	0.05	No Relaxation	N.D.
20	Phenolic Compound (as C ₆ H ₅ OH)	mg/L	IS 3025 (Part-43)	0.001	0.002	N.D.
21	Arsenic (as As)	mg/L	IS 3025 (Part-37)	0.01	0.05	N.D.
22	Mercury (as Hg)	mg/L	IS 3025 (Part-48)	0.001	No Relaxation	N.D.
23	Lead (as Pb)	mg/L	IS 3025 (Part-47)	0.01	No Relaxation	N.D.
24	Cadmium (as Cd)	mg/L	IS 3025 (Part-41)	0.003	No Relaxation	N.D.
25	Free Residual Chlorine	mg/L	IS:3025:(Part-26)	0.2	1	N.D.
26	Chromium (as Cr)	mg/L	Annex J of IS:13428	0.05	No Relaxation	N.D.
27	Copper (as Cu)	mg/L	IS 3025 (Part-42)	0.05	1.5	N.D.
28	Zinc (as Zn)	mg/L	IS 3025 (Part-49)	5	15	N.D.
29	Selenium (as Se)	mg/L	IS 3025 (Part-56)	0.01	No Relaxation	N.D.
30	Iron (as Fe)	mg/L	IS 3025 (Part-53)	0.3	No Relaxation	0.15
31	Manganese (as Mn)	mg/L	IS:3025:(Part-59)	0.1	0.3	N.D.
32	Total Coliform	MPN/100ml	IS:1622:1981:RA:2019	Shall not be detectable in any 100 ml sample		Absent

Note: mg/lit.:milligram per liter, N.D.: Not Detected.

REMARKS: RESULTS ARE AS ABOVE

Terms & conditions

- The above analysis report refers to the particular sample received at our end and the use of the report for publication, arbitration or as legal dispute is forbidden.
- Test sample will be retained for 15 days after issue of test report unless otherwise agreed with customer.
- This is for information as the party has asked for above test(s) only.

[Signature]
20/05/23

REVIEWED BY



For ULTIMATE ENVIROLYTICAL SOLUTIONS

[Signature]

AUTHORIZED SIGNATORY

-----End of the test report-----



HDD-272, Phase III - Near JP Chowk
Ring Road No.-2, Kabir Nagar, Raipur (C.G.) - 492099
Ph : 0771 - 4027777 | Email : ultimatenviro@gmail.com

Recognized by Ministry of Environment Forest and Climate Change under EP act 1996

Name & Address Of The Customer To, M/s Jaykaycem (Central) Ltd. Village Harduaken, Tehsil - Amanganj, District - Panna (M.P.)		Report No.	UES/TR/23-24/02081	
		Lab Ref No.	UES/23-24/W/04481	
		Date of Sampling	15/05/2023	
		Date of Receipt	16/05/2023	
		Date of Report	20/05/2023	
		Date of Analysis	Start: 16/05/2023	End: 20/05/2023
SAMPLE DETAILS				
Customer Ref. No. & Date	Verbal Communication, Dated: 15/05/2023.			
Customer Sample Id / Sampling Location	Tighara Village Buffer Zone Govt. Hand Pump near Govt. School	Latitude	24°17'36.40"N	
		Longitude	79°57'51.82"E	
Sample Type	Ground Water	Sample Condition At Receipt	Ok	
Packing Of Sample	Jerry can (Approx. 3 Ltr.) Glass Bottle (Approx. 1 Ltr.x2)	Sample Collected By	Laboratory Chemist	
Other Details	Sealed	Quantity Received	Approx 5 Ltr. each	

Rep. No. 02081

TEST REPORT

SR. NO.	PARAMETER	UNIT	METHOD OF TEST	AS PER IS 10500:2012		RESULT
				Acceptable Limit	Permissible limit	
1	pH Value at 25.3°C	-	IS:3025:(Part-11)	6.5-8.5	No Relaxation	7.68
2	Colour	Hazen	IS:3025:(Part-4)	5	15	<1
3	Taste	-	IS 3025(part-8)	Agreeable	Agreeable	Agreeable
4	Odour	-	IS 3025(part-5)	Agreeable	Agreeable	Agreeable
5	Total Dissolved Solids	mg/L	IS:3025:(Part-16)	500	2000	287
6	Conductivity	µS/Cm	IS 3025:(Part-14)	-	-	478.6
7	Turbidity	NTU	IS 3025:(Part-10)	1	5	0.72
8	Total Alkalinity (as CaCO ₃)	mg/L	IS 3025:(Part-23)	200	600	172
9	Total Hardness (as CaCO ₃)	mg/L	IS 3025:(Part-21)	200	600	184
10	Calcium (as Ca)	mg/L	IS 3025:(Part-40)	75	200	60.12
11	Magnesium (as Mg)	mg/L	IS 3025:(Part-46)	30	100	8.26
12	Sodium	mg/l	IS 3025:(Part-45)	-	-	7.28
13	Potassium	mg/l	IS 3025:(Part-45)	-	-	1.41
14	Nitrate (as NO ₃)	mg/L	IS 3025(part-34)	45	No Relaxation	15.61
15	Total Phosphate	mg/L	IS:3025:(Part-31)	--	--	N.D.
16	Chloride (as Cl)	mg/L	IS 3025:(Part-32)	250	1000	34.9
17	Sulphate (as SO ₄)	mg/L	IS 3025:(Part-24)	200	400	36.48
18	Fluoride (as F)	mg/L	IS 3025(part-60)	1	1.5	0.15
19	Cyanide (as CN)	mg/L	IS:3025:(part-27)	0.05	No Relaxation	N.D.



HDD-272, Phase III - Near JP Chowk
Ring Road No.-2, Kabir Nagar, Raipur (C.G.) - 492099
Ph : 0771 - 4027777 | Email : ultimatenviro@gmail.com

Recognized by Ministry of Environment Forest and Climate Change under EP act 1996

Rep. No. 02081

TEST REPORT

SR. NO.	PARAMETER	UNIT	METHOD OF TEST	AS PER IS 10500:2012		RESULT
				Acceptable Limit	Permissible limit	
20	Phenolic Compound (as C ₆ H ₅ OH)	mg/L	IS 3025 (Part-43)	0.001	0.002	N.D.
21	Arsenic (as As)	mg/L	IS 3025 (Part-37)	0.01	0.05	N.D.
22	Mercury (as Hg)	mg/L	IS 3025 (Part-48)	0.001	No Relaxation	N.D.
23	Lead (as Pb)	mg/L	IS 3025 (Part-47)	0.01	No Relaxation	N.D.
24	Cadmium (as Cd)	mg/L	IS 3025 (Part-41)	0.003	No Relaxation	N.D.
25	Free Residual Chlorine	mg/L	IS:3025: (Part-26)	0.2	1	N.D.
26	Chromium (as Cr)	mg/L	Annex J of IS:13428	0.05	No Relaxation	N.D.
27	Copper (as Cu)	mg/L	IS 3025 (Part-42)	0.05	1.5	N.D.
28	Zinc (as Zn)	mg/L	IS 3025 (Part-49)	5	15	N.D.
29	Selenium (as Se)	mg/L	IS 3025 (Part-56)	0.01	No Relaxation	N.D.
30	Iron (as Fe)	mg/L	IS 3025 (Part-53)	0.3	No Relaxation	0.11
31	Manganese (as Mn)	mg/L	IS:3025: (Part-59)	0.1	0.3	N.D.
32	Total Coliform	MPN/100ml	IS:1622:1981:RA:2019	Shall not be detectable in any 100 ml sample		Absent

Note: mg/lit.:milligram per liter, N.D.: Not Detected.

REMARKS: RESULTS ARE AS ABOVE

Terms & conditions

- The above analysis report refers to the particular sample received at our end and the use of the report for publication, arbitration or as legal dispute is forbidden.
- Test sample will be retained for 15 days after issue of test report unless otherwise agreed with customer.
- This is for information as the party has asked for above test(s) only.

 20/05/23 REVIEWED BY	 For ULTIMATE ENVIROLYTICAL SOLUTIONS AUTHORIZED SIGNATORY
-----------------------------	--

-----End of the test report-----



HDD-272, Phase III - Near JP Chowk
Ring Road No.-2, Kabir Nagar, Raipur (C.G.) - 492099
Ph : 0771 - 4027777 | Email : ultimatenviro@gmail.com

Recognized by Ministry of Environment Forest and Climate Change under EP act 1996

Name & Address Of The Customer To, M/s Jaykaycem (Central) Ltd. Village Harduaken, Tehsil - Amanganj, District - Panna (M.P.)		Report No.	UES/TR/23-24/02082	
		Lab Ref No.	UES/23-24/W/04482	
		Date of Sampling	15/05/2023	
		Date of Receipt	16/05/2023	
		Date of Report	20/05/2023	
		Date of Analysis	Start: 16/05/2023	End: 20/05/2023
SAMPLE DETAILS				
Customer Ref. No. & Date	Verbal Communication, Dated: 15/05/2023.			
Customer Sample Id / Sampling Location	SaptaiVillage Buffer Zone (Govt. Hand Pump near Brijesh Sharma House)	Latitude	24°20'30.63"N	
		Longitude	79°58'14.10"E	
Sample Type	Ground Water	Sample Condition At Receipt	Ok	
Packing Of Sample	Jerry can (Approx. 3 Ltr.) Glass Bottle (Approx. 1 Ltr.X2)	Sample Collected By	Laboratory Chemist	
Other Details	Sealed	Quantity Received	Approx 5 Ltr. each	

Rep. No. 02082

TEST REPORT

SR. NO.	PARAMETER	UNIT	METHOD OF TEST	AS PER IS 10500:2012		RESULT
				Acceptable Limit	Permissible limit	
1	pH Value at 25.3°C	-	IS:3025:(Part-11)	6.5-8.5	No Relaxation	7.54
2	Colour	Hazen	IS:3025:(Part-4)	5	15	<1
3	Taste	-	IS 3025(part-8)	Agreeable	Agreeable	Agreeable
4	Odour	-	IS 3025(part-5)	Agreeable	Agreeable	Agreeable
5	Total Dissolved Solids	mg/L	IS:3025:(Part-16)	500	2000	293
6	Conductivity	µS/Cm	IS 3025:(Part-14)	-	-	488.6
7	Turbidity	NTU	IS 3025:(Part-10)	1	5	0.47
8	Total Alkalinity (as CaCO ₃)	mg/L	IS 3025:(Part-23)	200	600	152
9	Total Hardness (as CaCO ₃)	mg/L	IS 3025:(Part-21)	200	600	182
10	Calcium (as Ca)	mg/L	IS 3025:(Part-40)	75	200	43.29
11	Magnesium (as Mg)	mg/L	IS 3025:(Part-46)	30	100	17.98
12	Sodium	mg/l	IS 3025:(Part-45)	-	-	6.90
13	Potassium	mg/l	IS 3025:(Part-45)	-	-	1.29
14	Nitrate (as NO ₃)	mg/L	IS 3025(part-34)	45	No Relaxation	22.96
15	Total Phosphate	mg/L	IS:3025:(Part-31)	--	--	N.D.
16	Chloride (as Cl)	mg/L	IS 3025:(Part-32)	250	1000	27.9
17	Sulphate (as SO ₄)	mg/L	IS 3025:(Part-24)	200	400	50.63
18	Fluoride (as F)	mg/L	IS 3025(part-60)	1	1.5	0.12
19	Cyanide (as CN)	mg/L	IS:3025:(part-27)	0.05	No Relaxation	N.D.



HDD-272, Phase III - Near JP Chowk
Ring Road No.-2, Kabir Nagar, Raipur (C.G.) - 492099
Ph : 0771 - 4027777 | Email : ultimatenviro@gmail.com

Recognized by Ministry of Environment Forest and Climate Change under EP act 1996

Rep. No. 02082

TEST REPORT

SR. NO.	PARAMETER	UNIT	METHOD OF TEST	AS PER IS 10500:2012		RESULT
				Acceptable Limit	Permissible limit	
20	Phenolic Compound (as C_6H_5OH)	mg/L	IS 3025(Part-43)	0.001	0.002	N.D.
21	Arsenic (as As)	mg/L	IS 3025(Part-37)	0.01	0.05	N.D.
22	Mercury (as Hg)	mg/L	IS 3025(Part-48)	0.001	No Relaxation	N.D.
23	Lead (as Pb)	mg/L	IS 3025(Part-47)	0.01	No Relaxation	N.D.
24	Cadmium (as Cd)	mg/L	IS 3025(Part-41)	0.003	No Relaxation	N.D.
25	Free Residual Chlorine	mg/L	IS:3025: (Part-26)	0.2	1	N.D.
26	Chromium (as Cr)	mg/L	Annex J of IS:13428	0.05	No Relaxation	N.D.
27	Copper (as Cu)	mg/L	IS 3025(Part-42)	0.05	1.5	N.D.
28	Zinc (as Zn)	mg/L	IS 3025(Part-49)	5	15	N.D.
29	Selenium (as Se)	mg/L	IS 3025(Part-56)	0.01	No Relaxation	N.D.
30	Iron (as Fe)	mg/L	IS 3025(Part-53)	0.3	No Relaxation	0.15
31	Manganese (as Mn)	mg/L	IS:3025: (Part-59)	0.1	0.3	N.D.
32	Total Coliform	MPN/100ml	IS:1622:1981:RA:2019	Shall not be detectable in any 100 ml sample		Absent

Note: mg/lit.:milligram per liter, N.D.: Not Detected.

REMARKS: RESULTS ARE AS ABOVE

Terms & conditions

- The above analysis report refers to the particular sample received at our end and the use of the report for publication, arbitration or as legal dispute is forbidden.
- Test sample will be retained for 15 days after issue of test report unless otherwise agreed with customer.
- This is for information as the party has asked for above test(s) only.

 20/05/23 REVIEWED BY		For ULTIMATE ENVIROLYTICAL SOLUTIONS AUTHORIZED SIGNATORY
-----------------------------	--	--

-----End of the test report-----



HDD-272, Phase III - Near JP Chowk
Ring Road No.-2, Kabir Nagar, Raipur (C.G.) - 492099
Ph : 0771 - 4027777 | Email : ultimatenviro@gmail.com

Recognized by Ministry of Environment Forest and Climate Change under EP act 1996

Name & Address Of The Customer To, M/s Jaykaycem (Central) Ltd. Village Harduaken, Tehsil - Amanganj, District - Panna (M.P.)		Report No.	UES/TR/23-24/02083	
		Lab Ref No.	UES/23-24/W/04483	
		Date of Sampling	15/05/2023	
		Date of Receipt	16/05/2023	
		Date of Report	20/05/2023	
		Date of Analysis	Start: 16/05/2023	End: 20/05/2023
SAMPLE DETAILS				
Customer Ref. No. & Date	Verbal Communication, Dated: 15/05/2023.			
Customer Sample Id/ Sampling Location	Kamtana Village Buffer Zone (Govt. Hand PumpKamtana)	Latitude	24°22'44.22"N	
		Longitude	79°57'29.71"E	
Sample Type	Ground Water	Sample Condition At Receipt	Ok	
Packing Of Sample	Jerry can (Approx. 3 Ltr.) Glass Bottle (Approx. 1 Ltr.X2)	Sample Collected By	Laboratory Chemist	
Other Details	Sealed	Quantity Received	Approx 5 Ltr. each	

Rep. No. 02083

TEST REPORT

SR. NO.	PARAMETER	UNIT	METHOD OF TEST	AS PER IS 10500:2012		RESULT
				Acceptable Limit	Permissible limit	
1	pH Value at 25.3°C	-	IS:3025:(Part-11)	6.5-8.5	No Relaxation	7.51
2	Colour	Hazen	IS:3025:(Part-4)	5	15	<1
3	Taste	-	IS 3025(part-8)	Agreeable	Agreeable	Agreeable
4	Odour	-	IS 3025(part-5)	Agreeable	Agreeable	Agreeable
5	Total Dissolved Solids	mg/L	IS:3025:(Part-16)	500	2000	277
6	Conductivity	µS/Cm	IS 3025:(Part-14)	-	-	461.9
7	Turbidity	NTU	IS 3025:(Part-10)	1	5	0.85
8	Total Alkalinity (as CaCO ₃)	mg/L	IS 3025:(Part-23)	200	600	148
9	Total Hardness (as CaCO ₃)	mg/L	IS 3025:(Part-21)	200	600	174
10	Calcium (as Ca)	mg/L	IS 3025:(Part-40)	75	200	52.10
11	Magnesium (as Mg)	mg/L	IS 3025:(Part-46)	30	100	10.69
12	Sodium	mg/l	IS 3025:(Part-45)	-	-	7.13
13	Potassium	mg/l	IS 3025:(Part-45)	-	-	1.37
14	Nitrate (as NO ₃)	mg/L	IS 3025(part-34)	45	No Relaxation	18.43
15	Total Phosphate	mg/L	IS:3025:(Part-31)	--	--	N.D.
16	Chloride (as Cl)	mg/L	IS 3025:(Part-32)	250	1000	41.9
17	Sulphate (as SO ₄)	mg/L	IS 3025:(Part-24)	200	400	42.97
18	Fluoride (as F)	mg/L	IS 3025(part-60)	1	1.5	0.11
19	Cyanide (as CN)	mg/L	IS:3025:(part-27)	0.05	No Relaxation	N.D.



HDD-272, Phase III - Near JP Chowk
Ring Road No.-2, Kabir Nagar, Raipur (C.G.) - 492099
Ph : 0771 - 4027777 | Email : ultimatenviro@gmail.com

Recognized by Ministry of Environment Forest and Climate Change under EP act 1996

Rep. No. 02083

TEST REPORT

SR. NO.	PARAMETER	UNIT	METHOD OF TEST	AS PER IS 10500:2012		RESULT
				Acceptable Limit	Permissible limit	
20	Phenolic Compound (as C_6H_5OH)	mg/L	IS 3025 (Part-43)	0.001	0.002	N.D.
21	Arsenic (as As)	mg/L	IS 3025 (Part-37)	0.01	0.05	N.D.
22	Mercury (as Hg)	mg/L	IS 3025 (Part-48)	0.001	No Relaxation	N.D.
23	Lead (as Pb)	mg/L	IS 3025 (Part-47)	0.01	No Relaxation	N.D.
24	Cadmium (as Cd)	mg/L	IS 3025 (Part-41)	0.003	No Relaxation	N.D.
25	Free Residual Chlorine	mg/L	IS:3025: (Part-26)	0.2	1	N.D.
26	Chromium (as Cr)	mg/L	Annex J of IS:13428	0.05	No Relaxation	N.D.
27	Copper (as Cu)	mg/L	IS 3025 (Part-42)	0.05	1.5	N.D.
28	Zinc (as Zn)	mg/L	IS 3025 (Part-49)	5	15	N.D.
29	Selenium (as Se)	mg/L	IS 3025 (Part-56)	0.01	No Relaxation	N.D.
30	Iron (as Fe)	mg/L	IS 3025 (Part-53)	0.3	No Relaxation	0.14
31	Manganese (as Mn)	mg/L	IS:3025: (Part-59)	0.1	0.3	N.D.
32	Total Coliform	MPN/100ml	IS:1622:1981:RA:2019	Shall not be detectable in any 100 ml sample		Absent

Note: mg/lit.:milligram per liter, N.D.: Not Detected.

REMARKS: RESULTS ARE AS ABOVE

Terms & conditions

- The above analysis report refers to the particular sample received at our end and the use of the report for publication, arbitration or as legal dispute is forbidden.
- Test sample will be retained for 15 days after issue of test report unless otherwise agreed with customer.
- This is for information as the party has asked for above test(s) only.

 20/05/23 REVIEWED BY		For ULTIMATE ENVIROLYTICAL SOLUTIONS AUTHORIZED SIGNATORY
-----------------------------	--	--

-----End of the test report-----



HDD-272, Phase III - Near JP Chowk
Ring Road No.-2, Kabir Nagar, Raipur (C.G.) - 492099
Ph : 0771 - 4027777 | Email : ultimatenviro@gmail.com

Recognized by Ministry of Environment Forest and Climate Change under EP act 1996

Name & Address Of The Customer To, M/s Jaykaycem (Central) Ltd. Village Harduaken, Tehsil - Amanganj, District - Panna (M.P.)		Report No.	UES/TR/23-24/02084	
		Lab Ref No.	UES/23-24/W/04484	
		Date of Sampling	15/05/2023	
		Date of Receipt	16/05/2023	
		Date of Report	20/05/2023	
		Date of Analysis	Start: 16/05/2023	End: 20/05/2023
SAMPLE DETAILS				
Customer Ref. No. & Date	Verbal Communication, Dated: 15/05/2023.			
Customer Sample Id/ Sampling Location	Devra village Buffer Zone (Govt. Hand Pump Near Govt. School)	Latitude	24°20'22.92"N	
		Longitude	79°58'18.79"E	
Sample Type	Ground Water	Sample Condition At Receipt	Ok	
Packing Of Sample	Jerry can (Approx. 3 Ltr.) Glass Bottle (Approx. 1 Ltr.x2)	Sample Collected By	Laboratory Chemist	
Other Details	Sealed	Quantity Received	Approx 5 Ltr. each	

Rep. No. 02084

TEST REPORT

SR. NO.	PARAMETER	UNIT	METHOD OF TEST	AS PER IS 10500:2012		RESULT
				Acceptable Limit	Permissible limit	
1	pH Value at 25.3°C	-	IS:3025:(Part-11)	6.5-8.5	No Relaxation	7.39
2	Colour	Hazen	IS:3025:(Part-4)	5	15	<1
3	Taste	-	IS 3025(part-8)	Agreeable	Agreeable	Agreeable
4	Odour	-	IS 3025(part-5)	Agreeable	Agreeable	Agreeable
5	Total Dissolved Solids	mg/L	IS:3025:(Part-16)	500	2000	245
6	Conductivity	µS/Cm	IS 3025:(Part-14)	-	-	408.6
7	Turbidity	NTU	IS 3025:(Part-10)	1	5	0.77
8	Total Alkalinity (as CaCO ₃)	mg/L	IS 3025:(Part-23)	200	600	130
9	Total Hardness (as CaCO ₃)	mg/L	IS 3025:(Part-21)	200	600	154
10	Calcium (as Ca)	mg/L	IS 3025:(Part-40)	75	200	46.49
11	Magnesium (as Mg)	mg/L	IS 3025:(Part-46)	30	100	9.23
12	Sodium	mg/l	IS 3025:(Part-45)	-	-	6.31
13	Potassium	mg/l	IS 3025:(Part-45)	-	-	1.21
14	Nitrate (as NO ₃)	mg/L	IS 3025(part-34)	45	No Relaxation	16.30
15	Total Phosphate	mg/L	IS:3025:(Part-31)	--	--	N.D.
16	Chloride (as Cl)	mg/L	IS 3025:(Part-32)	250	1000	36.9
17	Sulphate (as SO ₄)	mg/L	IS 3025:(Part-24)	200	400	38.01
18	Fluoride (as F)	mg/L	IS 3025(part-60)	1	1.5	0.10
19	Cyanide (as CN)	mg/L	IS:3025:(part-27)	0.05	No Relaxation	N.D.



HDD-272, Phase III - Near JP Chowk
Ring Road No.-2, Kabir Nagar, Raipur (C.G.) - 492099
Ph : 0771 - 4027777 | Email : ultimatenviro@gmail.com

Recognized by Ministry of Environment Forest and Climate Change under EP act 1996

Rep. No. 02084

TEST REPORT

SR. NO.	PARAMETER	UNIT	METHOD OF TEST	AS PER IS 10500:2012		RESULT
				Acceptable Limit	Permissible limit	
20	Phenolic Compound (as C_6H_5OH)	mg/L	IS 3025 (Part-43)	0.001	0.002	N.D.
21	Arsenic (as As)	mg/L	IS 3025 (Part-37)	0.01	0.05	N.D.
22	Mercury (as Hg)	mg/L	IS 3025 (Part-48)	0.001	No Relaxation	N.D.
23	Lead (as Pb)	mg/L	IS 3025 (Part-47)	0.01	No Relaxation	N.D.
24	Cadmium (as Cd)	mg/L	IS 3025 (Part-41)	0.003	No Relaxation	N.D.
25	Free Residual Chlorine	mg/L	IS:3025: (Part-26)	0.2	1	N.D.
26	Chromium (as Cr)	mg/L	Annex J of IS:13428	0.05	No Relaxation	N.D.
27	Copper (as Cu)	mg/L	IS 3025 (Part-42)	0.05	1.5	N.D.
28	Zinc (as Zn)	mg/L	IS 3025 (Part-49)	5	15	N.D.
29	Selenium (as Se)	mg/L	IS 3025 (Part-56)	0.01	No Relaxation	N.D.
30	Iron (as Fe)	mg/L	IS 3025 (Part-53)	0.3	No Relaxation	0.12
31	Manganese (as Mn)	mg/L	IS:3025: (Part-59)	0.1	0.3	N.D.
32	Total Coliform	MPN/100ml	IS:1622:1981:RA:2019	Shall not be detectable in any 100 ml sample		Absent

Note: mg/lit.:milligram per liter, N.D.: Not Detected.

REMARKS: RESULTS ARE AS ABOVE

Terms & conditions

- The above analysis report refers to the particular sample received at our end and the use of the report for publication, arbitration or as legal dispute is forbidden.
- Test sample will be retained for 15 days after issue of test report unless otherwise agreed with customer.
- This is for information as the party has asked for above test(s) only

RBell
20/05/23
REVIEWED BY



For ULTIMATE ENVIROLYTICAL SOLUTIONS

Subhajcet
AUTHORIZED SIGNATORY

-----End of the test report-----

TEST REPORT CODE: VGL/W/23/08/31/027

TEST REPORT ISSUE DATE: 09.09.2023

TEST REPORT (WATER) PART - A (CHEMICAL)

Name and Address of Customer : M/s JAYKAYCEM (CENTRAL) LIMITED,
VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ,
DISTT. - PANNA, (M.P.)

Location of Sample : NEAR ZERO POINT

Sample Description : GROUND WATER

Date & Time of Sampling : 29.08.2023 12:30 PM

Sample Collected by : ASHISH KUMAR

Environmental Condition (Temp. & RH) : 31.5 °C & 55%

Sample Packing : SEALED

Sample Id No. : 027

Laboratory Sample Receiving Date : 31.08.2023

Duration of Sample Analysis : 31.08.2023 TO 09.09.2023

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	7.58	-	6.5-8.5	No relaxation
2.	Temperature	APHA 2550-A+B	24.8	°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	148	mg/L	200	600
7.	Total Dissolved Solids	APHA 2540-C	425	mg/L	500	2000
8.	Total Hardness	APHA 2340 A+C	140	mg/L	200	600
9.	Calcium	APHA 3500 Ca- A+B	48.0	mg/L	75	200
10.	Magnesium	APHA 3500 Mg A+B	8.2	mg/L	30	100
11.	Sodium	APHA 3500 Na, A+B	18.0	mg/L	-	-
12.	Phosphate	APHA 4500-SO42- E	BDL	mg/L	-	-
13.	Sulfate	APHA 4500-PD	34.0	mg/L	200	400
14.	Potassium	APHA 3500 K, A+B	6.0	mg/L	-	-

Page 1 of 3

Note:

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

Virat Global Lab

Authorized Signatory

Authorized Signatory

D. K. Yadav
Lab In-charge

Review By:

Dr. Ashok Kumar
Technical Manager

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/23/08/31/027

TEST REPORT ISSUE DATE: 09.09.2023

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

15.	Nitrate	APHA 4500-NO ₃ - B	6.2	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	34.0	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 FeB	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	0.68	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	692.0	μS/cm	No relaxation	No relaxation

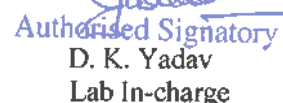
Page 2 of 3

Notes:

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

Review By:

Dr. Ashok Kumar
 Technical Manager

Virat Global Lab
Authorized Signatory

Authorized Signatory
D. K. Yadav
 Lab In-charge

TEST REPORT CODE: VGL/W/23/08/31/027

TEST REPORT ISSUE DATE: 09.09.2023

**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:

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

Review By:



Dr. Ashok Kumar
Technical Manager

Virat Global Lab
Authorized Signatory

Sayed Ahmad
Authorized Signatory

Sayed Ahmad
Quality Manager

TEST REPORT CODE: VGL/W/23/08/31/028
TEST REPORT ISSUE DATE: 09.09.2023
**TEST REPORT (WATER)
PART - A (CHEMICAL)**

Name and Address of Customer	: M/s JAYKAYCEM (CENTRAL) LIMITED, VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ, DISTT. - PANNA, (M.P)
Location of Sample	: NEAR HR OFFICE
Sample Description	: GROUND WATER
Date & Time of Sampling	: 29.08.2023 2:40 PM
Sample Collected by	: ASHISH KUMAR
Environmental Condition (Temp. & RH)	: 31.5 °C & 55%
Sample Packing	: SEALED
Sample Id No.	: 028
Laboratory Sample Receiving Date	: 31.08.2023
Duration of Sample Analysis	: 31.08.2023 TO 09.09.2023
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	7.64	-	6.5-8.5	No relaxation
2.	Temperature	APHA 2550-A+B	25.1	°C	Not Specified	Not Specified
3.	Colour	APHA 2120-B	<5.0	Hazen	5	15
4.	Turbidity	APHA 2130-A+B	<1.0	NTU	1	5
5.	Odour	APHA 2150-B	Agreeable	-	Agreeable	Agreeable
6.	Alkalinity	APHA 2320-A+B	140	mg/L	200	600
7.	Total Dissolved Solids	APHA 2540-C	468	mg/L	500	2000
8.	Total Hardness	APHA 2340 A+C	184	mg/L	200	600
9.	Calcium	APHA 3500 Ca- A+B	58.0	mg/L	75	200
10.	Magnesium	APHA 3500 Mg A+B	9.2	mg/L	30	100
11.	Sodium	APHA 3500 Na, A+B	19.0	mg/L	-	-
12.	Phosphate	APHA 4500-SO42- E	BDL	mg/L	-	-
13.	Sulfate	APHA 4500-PD	36.0	mg/L	200	400
14.	Potassium	APHA 3500 K, A+B	7.0	mg/L	-	-


Page 1 of 3

Note:

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

Review By:

Dr. Ashok Kumar
 Technical Manager

Virat Global Lab
Authorized Signatory

Authorized Signatory
D. K. Yadav
 Lab In-charge

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/23/08/31/028

TEST REPORT ISSUE DATE: 09.09.2023

TEST REPORT (WATER)
PART – A (CHEMICAL)

TEST RESULTS

15.	Nitrate	APHA 4500-NO ₃ -B	7.3	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	0.20	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	0.58	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	762.0	μS/cm	No relaxation	No relaxation

Page 2 of 3

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

Review By:

Dr. Ashok Kumar
Technical Manager

Virat Global Lab
Authorized Signatory


Authorised Signatory
D. K. Yadav
Lab In-charge

TEST REPORT CODE: VGL/W/23/08/31/028

TEST REPORT ISSUE DATE: 09.09.2023

**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:

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

Review By:


Dr. Ashok Kumar
Technical Manager

Virat Global Lab
Authorized Signatory


Authorized Signatory

Sayeed Ahmad
Quality Manager

TEST REPORT CODE: VGL/W/23/08/31/005

TEST REPORT ISSUE DATE: 09.09.2023

TEST REPORT (WATER) PART - A (CHEMICAL)

Name and Address of Customer : M/s JAYKAYCEM (CENTRAL) LIMITED,
VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ,
DISTT. - PANNA, (M.P.)

Location of Sample : SAPTAI VILLAGE

Sample Description : GROUND WATER

Date & Time of Sampling : 28.08.2023 1: 47 PM

Sample Collected by : SHIVAM KUMAR

Environmental Condition (Temp. & RH) : 31.5 °C & 55%

Sample Packing : SEALED

Sample Id No. : 005

Laboratory Sample Receiving Date : 31.08.2023

Duration of Sample Analysis : 31.08.2023 TO 09.09.2023

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	25.0	°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	182	mg/L	200	600
7.	Total Dissolved Solids	APHA2540-C	462	mg/L	500	2000
8.	Total Hardness	APHA 2340 A+C	192	mg/L	200	600
9.	Calcium	APHA 3500 Ca- A+B	58.2	mg/L	75	200
10.	Magnesium	APHA 3500 Mg A+B	8.5	mg/L	30	100
11.	Sodium	APHA 3500 Na, A+B	24.0	mg/L	-	-
12.	Phosphate	APHA 4500-SO42- E	BDL	mg/L	-	-
13.	Sulfate	APHA 4500-PD	52.0	mg/L	200	400
14.	Potassium	APHA 3500 K, A+B	12.0	mg/L	-	-


Page 1 of 3

Note:

- 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.
- 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.
- 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/23/08/31/005

TEST REPORT ISSUE DATE: 09.09.2023

TEST REPORT (WATER)
PART – A (CHEMICAL)

TEST RESULTS

15.	Nitrate	APHA 4500-NO3-B	5.7	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	33.0	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	0.11	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:

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

Review By:

Dr. Ashok Kumar
Dr. Ashok Kumar
Technical Manager

Virat Global Lab
Authorized Signatory

D. K. Yadav
Authorised Signatory
D. K. Yadav
Lab In-charge

TEST REPORT CODE: VGL/W/23/08/31/005

TEST REPORT ISSUE DATE: 09.09.2023

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:

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

Review By:

Dr. Ashok Kumar
Technical Manager

Virat Global Lab
Authorized Signatory

Authorized Signatory
Sayeed Ahmad
Quality Manager

TEST REPORT CODE: VGL/W/23/08/31/006

TEST REPORT ISSUE DATE: 09.09.2023

TEST REPORT (WATER) PART – A (CHEMICAL)

Name and Address of Customer : M/s JAYKAYCEM (CENTRAL) LIMITED,
VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ,
DISTT. - PANNA, (M.P.)

Location of Sample : DNY WELL KAMTANA VILLAGE

Sample Description : GROUND WATER

Date & Time of Sampling : 28.08.2023 2:20 PM

Sample Collected by : SHIVAM KUMAR

Environmental Condition (Temp. & RH) : 31.2 °C & 55%

Sample Packing : SEALED

Sample Id No. : 006

Laboratory Sample Receiving Date : 31.08.2023

Duration of Sample Analysis : 31.08.2023 TO 09.09.2023

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	7.18	-	6.5-8.5	No relaxation
2.	Temperature	APHA 2550-A+B	24.8	°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	165	mg/L	200	600
7.	Total Dissolved Solids	APHA2540-C	437	mg/L	500	2000
8.	Total Hardness	APHA 2340 A+C	188	mg/L	200	600
9.	Calcium	APHA 3500 Ca- A+B	62.4	mg/L	75	200
10.	Magnesium	APHA 3500 Mg A+B	7.8	mg/L	30	100
11.	Sodium	APHA 3500 Na, A+B	17.0	mg/L	-	-
12.	Phosphate	APHA 4500-SO42- E	BDL	mg/L	-	-
13.	Sulfate	APHA 4500-PD	44.0	mg/L	200	400
14.	Potassium	APHA 3500 K, A+B	12.0	mg/L	-	-

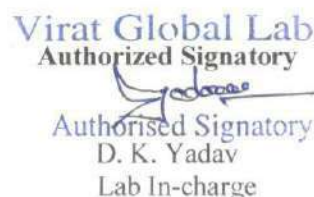
Page 1 of 3

Note:

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

Review By:

Dr. Ashok Kumar
Technical Manager

Virat Global Lab
Authorized Signatory

D. K. Yadav
Lab In-charge

TEST REPORT CODE: VGL/W/23/08/31/006

TEST REPORT ISSUE DATE: 09.09.2023

TEST REPORT (WATER)
PART – A (CHEMICAL)

TEST RESULTS

15.	Nitrate	APHA 4500-NO ₃ -B	12.3	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	56.0	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	0.16	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	1.01	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	716	μS/cm	No relaxation	No relaxation

Page 2 of 3

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

Review By:

(Signature)
Dr. Ashok Kumar
Technical Manager

Virat Global Lab
Authorized Signatory

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

TEST REPORT CODE: VGL/W/23/08/31/006

TEST REPORT ISSUE DATE: 09.09.2023

**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:

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


Review By:



Dr. Ashok Kumar
Technical Manager

Virat Global Lab
Authorized Signatory

Authorised Signatory



Sayed Ahmad
Quality Manager

TEST REPORT CODE: VGL/W/23/08/31/007

TEST REPORT ISSUE DATE: 09.09.2023

TEST REPORT (WATER) PART - A (CHEMICAL)

Name and Address of Customer : M/s JAYKAYCEM (CENTRAL) LIMITED,
VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ,
DISTT. - PANNA, (M.P)

Location of Sample : PURAINA VILLAGE

Sample Description : GROUND WATER

Date & Time of Sampling : 28.08.2023 3:00 PM

Sample Collected by : VIRENDRA KUMAR

Environmental Condition (Temp. & RH) : 31.5 °C & 55%

Sample Packing : SEALED

Sample Id No. : 007

Laboratory Sample Receiving Date : 31.08.2023

Duration of Sample Analysis : 31.08.2023 TO 09.09.2023

Method of Sampling : APHA 1060B & 9060A

TEST RESULTS

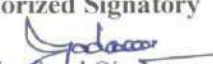
Sr. No.	Parameters	Test Method	Result	Unit	Limit as per IS 10500:1991 (Reaff:2012)	
					Desirable	Permissible
1.	pH at 25 °C	APHA 4500H+A+B	7.54	-	6.5-8.5	No relaxation
2.	Temperature	APHA 2550-A+B	24.5	°C	Not Specified	Not Specified
3.	Colour	APHA 2120-B	<5.0	Hazen	5	15
4.	Turbidity	APHA 2130-A+B	<1.0	NTU	1	5
5.	Odour	APHA 2150-B	Agreeable	-	Agreeable	Agreeable
6.	Alkalinity	APHA 2320-A+ B	192	mg/L	200	600
7.	Total Dissolved Solids	APHA2540-C	461	mg/L	500	2000
8.	Total Hardness	APHA 2340 A+C	192	mg/L	200	600
9.	Calcium	APHA 3500 Ca- A+B	46.2	mg/L	75	200
10.	Magnesium	APHA 3500 Mg A+B	18.6	mg/L	30	100
11.	Sodium	APHA 3500 Na. A+B	22.0	mg/L	-	-
12.	Phosphate	APHA 4500-SO42- E	BDL	mg/L	-	-
13.	Sulfate	APHA 4500-PD	40.0	mg/L	200	400
14.	Potassium	APHA 3500 K. A+B	10.0	mg/L	-	-

Page 1 of 3

Note:

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

Review By:
Lucknow
Dr. Ashok Kumar
Technical Manager

Virat Global Lab
Authorized Signatory

Authorized Signatory
D. K. Yadav
Lab In-charge

TEST REPORT CODE: VGL/W/23/08/31/007

TEST REPORT ISSUE DATE: 09.09.2023

TEST REPORT (WATER)
PART – A (CHEMICAL)

TEST RESULTS

15.	Nitrate	APHA 4500-NO ₃ -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	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	0.17	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	0.8	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

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.

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/23/08/31/007

TEST REPORT ISSUE DATE: 09.09.2023

**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:

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

Review By:



Dr. Ashok Kumar
Technical Manager

Virat Global Lab
Authorized Signatory

Sayed Ahmad
Authorized Signatory

Sayed Ahmad
Quality Manager

TEST REPORT CODE: VGL/W/23/08/31/008

TEST REPORT ISSUE DATE: 09.09.2023

TEST REPORT (WATER)
PART – A (CHEMICAL)

Name and Address of Customer : M/s JAYKAYCEM (CENTRAL) LIMITED,
VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ,
DISTT. - PANNA, (M.P.)

Location of Sample : **PAGRA VILLAGE**

Sample Description : GROUND WATER

Date & Time of Sampling : 28.08.2023 3:55 PM

Sample Collected by : SANDEEP SINGH

Environmental Condition (Temp. & RH) : 31.5 °C & 55%

Sample Packing : SEALED

Sample Id No. : 008

Laboratory Sample Receiving Date : 31.08.2023

Duration of Sample Analysis : 31.08.2023 TO 09.09.2023

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	25.1	°C	Not Specified	Not Specified
3.	Colour	APHA 2120-B	<5.0	Hazen	5	15
4.	Turbidity	APHA 2130-A+B	<1.0	NTU	1	5
5.	Odour	APHA 2150-B	Agreeable	-	Agreeable	Agreeable
6.	Alkalinity	APHA 2320-A+ B	180	mg/L	200	600
7.	Total Dissolved Solids	APHA2540-C	495	mg/L	500	2000
8.	Total Hardness	APHA 2340 A+C	164	mg/L	200	600
9.	Calcium	APHA 3500 Ca- A+B	58.2	mg/L	75	200
10.	Magnesium	APHA 3500 Mg A+B	6.5	mg/L	30	100
11.	Sodium	APHA 3500 Na, A+B	24.0	mg/L	-	-
12.	Phosphate	APHA 4500-SO42- E	BDL	mg/L	-	-
13.	Sulfate	APHA 4500-PD	28.6	mg/L	200	400
14.	Potassium	APHA 3500 K, A+B	7.0	mg/L	-	-

Page 1 of 3

Note:

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

Review By:

Dr. Ashok Kumar
Technical Manager

Virat Global Lab
Authorized Signatory

Authorised Signatory
D. K. Yadav
Lab In-charge

TEST REPORT CODE: VGL/W/23/08/31/008

TEST REPORT ISSUE DATE: 09.09.2023

TEST REPORT (WATER)
PART – A (CHEMICAL)

TEST RESULTS

15.	Nitrate	APHA 4500-NO ₃ -B	9.2	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	47.2	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	0.9	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	805	μS/cm	No relaxation	No relaxation

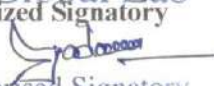
Page 2 of 3

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

Review By:

Dr. Ashok Kumar
Technical Manager

Virat Global Lab
Authorized Signatory

Authorised Signatory
D. K. Yadav
Lab In-charge

TEST REPORT CODE: VGL/W/23/08/31/008

TEST REPORT ISSUE DATE: 09.09.2023

**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

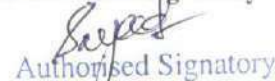
Note:

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

Review By:


Dr. Ashok Kumar
Technical Manager

Virat Global Lab
Authorized Signatory


Authorized Signatory

Sayeed Ahmad
Quality Manager

TEST REPORT CODE: VGL/W/23/08/31/009

TEST REPORT ISSUE DATE: 09.09.2023

TEST REPORT (WATER)
PART – A (CHEMICAL)

Name and Address of Customer : M/s JAYKAYCEM (CENTRAL) LIMITED,
VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ,
DISTT. - PANNA, (M.P.)

Location of Sample : **UDLA VILLAGE**

Sample Description : GROUND WATER

Date & Time of Sampling : 28.08.2023 4:40 PM

Sample Collected by : SANDEEP SINGH

Environmental Condition (Temp. & RH) : 31.5 °C & 55%

Sample Packing : SEALED

Sample Id No. : 009

Laboratory Sample Receiving Date : 31.08.2023

Duration of Sample Analysis : 31.08.2023 TO 09.09.2023

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	25.2	°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	180	mg/L	200	600
7.	Total Dissolved Solids	APHA 2540-C	502	mg/L	500	2000
8.	Total Hardness	APHA 2340 A+C	239	mg/L	200	600
9.	Calcium	APHA 3500 Ca- A+B	73.8	mg/L	75	200
10.	Magnesium	APHA 3500 Mg A+B	13.3	mg/L	30	100
11.	Sodium	APHA 3500 Na, A+B	26.0	mg/L	-	-
12.	Phosphate	APHA 4500-SO42- E	BDL	mg/L	-	-
13.	Sulfate	APHA 4500-PD	51.0	mg/L	200	400
14.	Potassium	APHA 3500 K, A+B	14.0	mg/L	-	-

Page 1 of 3

Note:

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

Review By:

Dr. Ashok Kumar
Technical Manager

Virat Global Lab
Authorized Signatory

Authorized Signatory
D. K. Yadav
Lab In-charge

TEST REPORT CODE: VGL/W/23/08/31/009

TEST REPORT ISSUE DATE: 09.09.2023

TEST REPORT (WATER)
PART – A (CHEMICAL)

TEST RESULTS

15.	Nitrate	APHA 4500-NO ₃ -B	11.7	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	57.8	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	0.24	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	0.10	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	812	μS/cm	No relaxation	No relaxation

Page 2 of 3

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.

Review By:

Dr. Ashok Kumar
Dr. Ashok Kumar
Technical Manager

Virat Global Lab
Authorized Signatory

D. K. Yadav
D. K. Yadav
Lab In-charge

TEST REPORT CODE: VGL/W/23/08/31/009

TEST REPORT ISSUE DATE: 09.09.2023

**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:

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

Review By:


Dr. Ashok Kumar
Technical Manager

Virat Global Lab
Authorized Signatory


Authorized Signatory

Sayeed Ahmad
Quality Manager

TEST REPORT CODE: VGL/W/23/08/31/010

TEST REPORT ISSUE DATE: 09.09.2023

TEST REPORT (WATER) PART - A (CHEMICAL)

Name and Address of Customer : M/s JAYKAYCEM (CENTRAL) LIMITED,
VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ,
DISTT. - PANNA, (M.P)

Location of Sample : SOTIPURA VILLAGE

Sample Description : GROUND WATER

Date & Time of Sampling : 28.08.2023 5:25 PM

Sample Collected by : SHIVAM KUMAR

Environmental Condition (Temp. & RH) : 31.5 °C & 55%

Sample Packing : SEALED

Sample Id No. : 010

Laboratory Sample Receiving Date : 31.08.2023

Duration of Sample Analysis : 31.08.2023 TO 09.09.2023

Method of Sampling : APHA 1060B & 9060A

TEST RESULTS

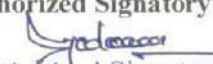
Sr. No.	Parameters	Test Method	Result	Unit	Limit as per IS 10500:1991 (Reaff:2012)	
					Desirable	Permissible
1.	pH at 25 °C	APHA 4500H+A+B	7.42	-	6.5-8.5	No relaxation
2.	Temperature	APHA 2550-A+B	24.7	°C	Not Specified	Not Specified
3.	Colour	APHA 2120-B	<5.0	Hazen	5	15
4.	Turbidity	APHA 2130-A+B	<1.0	NTU	1	5
5.	Odour	APHA 2150-B	Agreeable	-	Agreeable	Agreeable
6.	Alkalinity	APHA 2320-A+B	255	mg/L	200	600
7.	Total Dissolved Solids	APHA 2540-C	518	mg/L	500	2000
8.	Total Hardness	APHA 2340 A+C	220	mg/L	200	600
9.	Calcium	APHA 3500 Ca- A+B	74.5	mg/L	75	200
10.	Magnesium	APHA 3500 Mg A+B	8.2	mg/L	30	100
11.	Sodium	APHA 3500 Na, A+B	27.0	mg/L	-	-
12.	Phosphate	APHA 4500-SO42- E	BDL	mg/L	-	-
13.	Sulfate	APHA 4500-PD	41.7	mg/L	200	400
14.	Potassium	APHA 3500 K, A+B	15.0	mg/L	-	-

Page 1 of 3

Note:

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

Review By:
Lucknow
Dr. Ashok Kumar
Technical Manager

Virat Global Lab
Authorized Signatory

Authorized Signatory
D. K. Yadav
Lab In-charge

TEST REPORT CODE: VGL/W/23/08/31/010

TEST REPORT ISSUE DATE: 09.09.2023

TEST REPORT (WATER)
PART – A (CHEMICAL)

TEST RESULTS

15.	Nitrate	APHA 4500-NO ₃ -B	11.4	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	0.27	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	0.6	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	843	μS/cm	No relaxation	No relaxation

Page 2 of 3

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.

Review By:

(Signature)
Dr. Ashok Kumar
Technical Manager

Virat Global Lab
Authorized Signatory

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

TEST REPORT CODE: VGL/W/23/08/31/010

TEST REPORT ISSUE DATE: 09.09.2023

**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

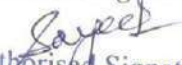
Note:

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

Review By:


Dr. Ashok Kumar
Technical Manager

Virat Global Lab
Authorized Signatory


Authorized Signatory

Sayeed Ahmad
Quality Manager

TEST REPORT CODE: VGL/W/23/08/31/011

TEST REPORT ISSUE DATE: 09.09.2023

TEST REPORT (WATER) PART – A (CHEMICAL)

Name and Address of Customer : M/s JAYKAYCEM (CENTRAL) LIMITED,
VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ,
DISTT. - PANNA, (M.P)

Location of Sample : HINAUTA VILLAGE

Sample Description : GROUND WATER

Date & Time of Sampling : 28.08.2023 6:10 PM

Sample Collected by : SHIVAM KUMAR

Environmental Condition (Temp. & RH) : 31.5 °C & 55%

Sample Packing : SEALED

Sample Id No. : 011

Laboratory Sample Receiving Date : 31.08.2023

Duration of Sample Analysis : 31.08.2023 TO 09.09.2023

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	7.75	-	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	240	mg/L	200	600
7.	Total Dissolved Solids	APHA2540-C	484	mg/L	500	2000
8.	Total Hardness	APHA 2340 A+C	190	mg/L	200	600
9.	Calcium	APHA 3500 Ca- A+B	44.6	mg/L	75	200
10.	Magnesium	APHA 3500 Mg A+B	19.12	mg/L	30	100
11.	Sodium	APHA 3500 Na, A+B	20	mg/L	-	-
12.	Phosphate	APHA 4500-SO42- E	BDL	mg/L	-	-
13.	Sulfate	APHA 4500-PD	14.6	mg/L	200	400
14.	Potassium	APHA 3500 K, A+B	6.0	mg/L	-	-

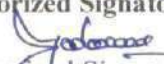
Page 1 of 3

Note:

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

Review By:

Dr. Ashok Kumar
Technical Manager

Virat Global Lab
Authorized Signatory

Authorized Signatory
D. K. Yadav
Lab In-charge

TEST REPORT CODE: VGL/W/23/08/31/011

TEST REPORT ISSUE DATE: 09.09.2023

TEST REPORT (WATER)
PART – A (CHEMICAL)

TEST RESULTS

15.	Nitrate	APHA 4500-NO ₃ -B	6.8	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	22.0	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	0.16	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	783	μS/cm	No relaxation	No relaxation

Page 2 of 3

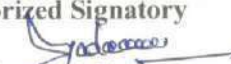
Note:

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.

Review By:

Lucknow
Dr. Ashok Kumar
Technical Manager

Virat Global Lab
Authorized Signatory


Authorized Signatory
D. K. Yadav
Lab In-charge

TEST REPORT CODE: VGL/W/23/08/31/011

TEST REPORT ISSUE DATE: 09.09.2023

**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:

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

Review By:



Dr. Ashok Kumar
Technical Manager

Virat Global Lab
Authorized Signatory



Authorised Signatory

Sayeed Ahmad
Quality Manager

TEST REPORT CODE: VGL/W/23/08/31/012

TEST REPORT ISSUE DATE: 09.09.2023

TEST REPORT (WATER) PART – A (CHEMICAL)

Name and Address of Customer : M/s JAYKAYCEM (CENTRAL) LIMITED,
VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ,
DISTT. - PANNA, (M.P)

Location of Sample : PURWA VILLAGE

Sample Description : GROUND WATER

Date & Time of Sampling : 29.08.2023 10:36 AM

Sample Collected by : ASHISH KUMAR

Environmental Condition (Temp. & RH) : 31.5 °C & 55%

Sample Packing : SEALED

Sample Id No. : 012

Laboratory Sample Receiving Date : 31.08.2023

Duration of Sample Analysis : 31.08.2023 TO 09.09.2023

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	7.45	-	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	228	mg/L	200	600
7.	Total Dissolved Solids	APHA2540-C	509	mg/L	500	2000
8.	Total Hardness	APHA 2340 A+C	232	mg/L	200	600
9.	Calcium	APHA 3500 Ca- A+B	71.1	mg/L	75	200
10.	Magnesium	APHA 3500 Mg A+B	13.2	mg/L	30	100
11.	Sodium	APHA 3500 Na, A+B	23.0	mg/L	-	-
12.	Phosphate	APHA 4500-SO42- E	BDL	mg/L	-	-
13.	Sulfate	APHA 4500-PD	26.5	mg/L	200	400
14.	Potassium	APHA 3500 K, A+B	11.0	mg/L	-	-

Page 1 of 3

Note:

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

Review By:

Dr. Ashok Kumar
Technical Manager

Virat Global Lab
Authorized Signatory

Authorized Signatory
D. K. Yadav
Lab In-charge

TEST REPORT CODE: VGL/W/23/08/31/012

TEST REPORT ISSUE DATE: 09.09.2023

TEST REPORT (WATER)
PART – A (CHEMICAL)

TEST RESULTS

15.	Nitrate	APHA 4500-NO ₃ -B	7.6	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	34.0	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	0.16	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	0.7	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	472	μS/cm	No relaxation	No relaxation

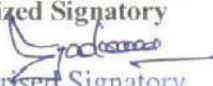
Page 2 of 3

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

Review By:

Dr. Ashok Kumar
Technical Manager

Virat Global Lab
Authorized Signatory

Authorized Signatory
D. K. Yadav
Lab In-charge

TEST REPORT CODE: VGL/W/23/08/31/012

TEST REPORT ISSUE DATE: 09.09.2023

**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

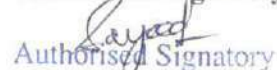
Note:

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

Review By:


Dr. Ashok Kumar
Technical Manager

Virat Global Lab
Authorized Signatory


Authorized Signatory

Sayeed Ahmad
Quality Manager

TEST REPORT CODE: VGL/W/23/08/31/013

TEST REPORT ISSUE DATE: 09.09.2023

TEST REPORT (WATER) PART – A (CHEMICAL)

Name and Address of Customer : M/s JAYKAYCEM (CENTRAL) LIMITED,
VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ,
DISTT. - PANNA, (M.P.)

Location of Sample : AMANGANJ

Sample Description : GROUND WATER

Date & Time of Sampling : 29.08.2023 11:25 AM

Sample Collected by : ASHISH KUMAR

Environmental Condition (Temp. & RH) : 31.5 °C & 55%

Sample Packing : SEALED

Sample Id No. : 010

Laboratory Sample Receiving Date : 31.08.2023

Duration of Sample Analysis : 31.08.2023 TO 09.09.2023

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	7.17	-	6.5-8.5	No relaxation
2.	Temperature	APHA 2550-A+B	24.6	°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	230	mg/L	200	600
7.	Total Dissolved Solids	APHA 2540-C	411	mg/L	500	2000
8.	Total Hardness	APHA 2340 A+C	124	mg/L	200	600
9.	Calcium	APHA 3500 Ca- A+B	40.8	mg/L	75	200
10.	Magnesium	APHA 3500 Mg A+B	5.4	mg/L	30	100
11.	Sodium	APHA 3500 Na, A+B	25.0	mg/L	-	-
12.	Phosphate	APHA 4500-SO42- E	BDL	mg/L	-	-
13.	Sulfate	APHA 4500-PD	37.5	mg/L	200	400
14.	Potassium	APHA 3500 K, A+B	14.0	mg/L	-	-

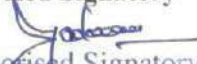
Page 1 of 3

Note:

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

Review By:

Dr. Ashok Kumar
Technical Manager

Virat Global Lab
Authorized Signatory

Authorized Signatory
Dr. K. Yadav
Lab In-charge

TEST REPORT CODE: VGL/W/23/08/31/013

TEST REPORT ISSUE DATE: 09.09.2023

TEST REPORT (WATER)
PART – A (CHEMICAL)

TEST RESULTS

15.	Nitrate	APHA 4500-NO3- B	8.3	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	0.23	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	0.10	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	472	μS/cm	No relaxation	No relaxation

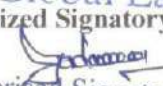
Page 2 of 3

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.

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/23/08/31/013

TEST REPORT ISSUE DATE: 09.09.2023

**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:


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

Review By:



Dr. Ashok Kumar
Technical Manager

Virat Global Lab
Authorized Signatory

Authorized Signatory

Sayeed Ahmad
Quality Manager

TEST REPORT CODE: VGL/W/23/08/31/015

TEST REPORT ISSUE DATE: 09.09.2023

TEST REPORT (WATER) PART - A (CHEMICAL)

Name and Address of Customer : M/s JAYKAYCEM (CENTRAL) LIMITED,
VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ,
DISTT. - PANNA, (M.P.)

Location of Sample : BHUPAT PURA VILLAGE

Sample Description : GROUND WATER

Date & Time of Sampling : 29.08.2023 01:03 PM

Sample Collected by : ASHISH KUMAR

Environmental Condition (Temp. & RH) : 31.5 °C & 55%

Sample Packing : SEALED

Sample Id No. : 015

Laboratory Sample Receiving Date : 31.08.2023

Duration of Sample Analysis : 31.08.2023 TO 09.09.2023

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	7.65	-	6.5-8.5	No relaxation
2.	Temperature	APHA 2550-A+B	24.7	°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	230	mg/L	200	600
7.	Total Dissolved Solids	APHA2540-C	520	mg/L	500	2000
8.	Total Hardness	APHA 2340 A+C	212	mg/L	200	600
9.	Calcium	APHA 3500 Ca- A+B	70.3	mg/L	75	200
10.	Magnesium	APHA 3500 Mg A+B	8.8	mg/L	30	100
11.	Sodium	APHA 3500 Na, A+B	21.0	mg/L	-	-
12.	Phosphate	APHA 4500-SO42- E	BDL	mg/L	-	-
13.	Sulfate	APHA 4500-PD	29.5	mg/L	200	400
14.	Potassium	APHA 3500 K, A+B	12.0	mg/L	-	-


Page 1 of 3

Note:

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

Review By:

Dr. Ashok Kumar
Technical Manager

Virat Global Lab
Authorized Signatory

D. K. Yadav
Lab In-charge

TEST REPORT CODE: VGL/W/23/08/31/015

TEST REPORT ISSUE DATE: 09.09.2023

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	49.0	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	0.08	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	472	μS/cm	No relaxation	No relaxation

Page 2 of 3

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.

Review By:

(Signature)
Dr. Ashok Kumar
Technical Manager

Virat Global Lab
Authorized Signatory

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

TEST REPORT CODE: VGL/W/23/08/31/015

TEST REPORT ISSUE DATE: 09.09.2023

**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:

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

Review By:



Dr. Ashok Kumar
Technical Manager

Virat Global Lab
Authorized Signatory

Sayed Ahmad
Authorized Signatory

Sayed Ahmad
Quality Manager

TEST REPORT CODE: VGL/W/23/08/31/016

TEST REPORT ISSUE DATE: 09.09.2023

TEST REPORT (WATER) PART – A (CHEMICAL)

Name and Address of Customer : M/s JAYKAYCEM (CENTRAL) LIMITED,
VILLAGE-HARDUWAKEN, TEHSIL- AMANGANI,
DISTT. - PANNA, (M.P)

Location of Sample : MAHODKH VILLAGE

Sample Description : GROUND WATER

Date & Time of Sampling : 29.08.2023 1:59 PM

Sample Collected by : ASHISH KUMAR

Environmental Condition (Temp. & RH) : 31.5 °C & 55%

Sample Packing : SEALED

Sample Id No. : 016

Laboratory Sample Receiving Date : 31.08.2023

Duration of Sample Analysis : 31.08.2023 TO 09.09.2023

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	7.49	-	6.5-8.5	No relaxation
2.	Temperature	APHA 2550-A+B	24.9	°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	168	mg/L	200	600
7.	Total Dissolved Solids	APHA 2540-C	474	mg/L	500	2000
8.	Total Hardness	APHA 2340 A+C	120	mg/L	200	600
9.	Calcium	APHA 3500 Ca- A+B	57.7	mg/L	75	200
10.	Magnesium	APHA 3500 Mg A+B	5.8	mg/L	30	100
11.	Sodium	APHA 3500 Na, A+B	25.0	mg/L	-	-
12.	Phosphate	APHA 4500-SO42- E	BDL	mg/L	-	-
13.	Sulfate	APHA 4500-PD	51.3	mg/L	200	400
14.	Potassium	APHA 3500 K, A+B	15.0	mg/L	-	-


Page 1 of 3

Note:

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

Review By:

Dr. Ashok Kumar
Technical Manager

Virat Global Lab
Authorized Signatory

Authorized Signatory
Dr. K. Yadav
Lab In-charge

TEST REPORT CODE: VGL/W/23/08/31/016

TEST REPORT ISSUE DATE: 09.09.2023

TEST REPORT (WATER)
PART – A (CHEMICAL)

TEST RESULTS

15.	Nitrate	APHA 4500-NO3-B	10.1	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	56.0	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	1.02	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	472	µS/cm	No relaxation	No relaxation

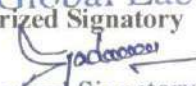
Page 2 of 3

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

Review By:

Dr. Ashok Kumar
Technical Manager

Virat Global Lab
Authorized Signatory

Authorized Signatory
D. K. Yadav
Lab In-charge

TEST REPORT CODE: VGL/W/23/08/31/016

TEST REPORT ISSUE DATE: 09.09.2023

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:

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

Review By:



Dr. Ashik Kumar
Technical Manager

Virat Global Lab
Authorized Signatory

Authorized Signatory

Sayed Ahmad
Quality Manager

TEST REPORT CODE: VGL/W/23/08/31/017

TEST REPORT ISSUE DATE: 09.09.2023

TEST REPORT (WATER) PART - A (CHEMICAL)

Name and Address of Customer : M/s JAYKAYCEM (CENTRAL) LIMITED,
VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ,
DISTT. - PANNA, (M.P.)

Location of Sample : **UMRI VILLAGE**

Sample Description : GROUND WATER

Date & Time of Sampling : 29.08.2023 02:55 PM

Sample Collected by : ASHISH KUMAR

Environmental Condition (Temp. & RH) : 31.5 °C & 55%

Sample Packing : SEALED

Sample Id No. : 017

Laboratory Sample Receiving Date : 31.08.2023

Duration of Sample Analysis : 31.08.2023 TO 09.09.2023

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	7.69	-	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	212	mg/L	200	600
7.	Total Dissolved Solids	APHA2540-C	439	mg/L	500	2000
8.	Total Hardness	APHA 2340 A+C	104	mg/L	200	600
9.	Calcium	APHA 3500 Ca- A+B	62.4	mg/L	75	200
10.	Magnesium	APHA 3500 Mg A+B	12.6	mg/L	30	100
11.	Sodium	APHA 3500 Na, A+B	17.0	mg/L	-	-
12.	Phosphate	APHA 4500-SO42- E	BDL	mg/L	-	-
13.	Sulfate	APHA 4500-PD	34.4	mg/L	200	400
14.	Potassium	APHA 3500 K, A+B	8.0	mg/L	-	-

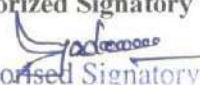
Page 1 of 3

Note:

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

Review By:

Dr. Ashok Kumar
Technical Manager

Virat Global Lab
Authorized Signatory

Authorized Signatory
D. K. Yadav
Lab In-charge

TEST REPORT CODE: VGL/W/23/08/31/017

TEST REPORT ISSUE DATE: 09.09.2023

TEST REPORT (WATER)
PART – A (CHEMICAL)

TEST RESULTS

15.	Nitrate	APHA 4500-NO3-B	7.3	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	53.8	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	0.17	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	0.10	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	472	µS/cm	No relaxation	No relaxation

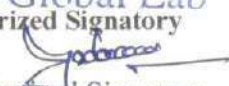
Page 2 of 3

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.

Review By:

Dr. Ashok Kumar
Technical Manager

Virat Global Lab
Authorized Signatory

Authorized Signatory
D. K. Yadav
Lab In-charge

TEST REPORT CODE: VGL/W/23/08/31/017

TEST REPORT ISSUE DATE: 09.09.2023

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

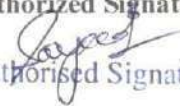
Note:

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

Review By:


Dr. Ashok Kumar
Technical Manager

Virat Global Lab
Authorized Signatory


Authorized Signatory

Sayeed Ahmad
Quality Manager

TEST REPORT CODE: VGL/W/23/08/31/025

TEST REPORT ISSUE DATE: 09.09.2023

TEST REPORT (WATER)
PART - A (CHEMICAL)

Name and Address of Customer : M/s JAYKAYCEM (CENTRAL) LIMITED,
VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ,
DISTT. - PANNA, (M.P.)

Location of Sample : **HARDUA VILLAGE**

Sample Description : GROUND WATER

Date & Time of Sampling : 27.08.2023 11:30 PM

Sample Collected by : ASHISH KUMAR

Environmental Condition (Temp. & RH) : 31.5 °C & 55%

Sample Packing : SEALED

Sample Id No. : 025

Laboratory Sample Receiving Date : 31.08.2023

Duration of Sample Analysis : 31.08.2023 TO 09.09.2023

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	7.71	-	6.5-8.5	No relaxation
2.	Temperature	APHA 2550-A+B	25.2	°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	188	mg/L	200	600
7.	Total Dissolved Solids	APHA2540-C	488	mg/L	500	2000
8.	Total Hardness	APHA 2340 A+C	172	mg/L	200	600
9.	Calcium	APHA 3500 Ca- A+B	56.2	mg/L	75	200
10.	Magnesium	APHA 3500 Mg A+B	9.0	mg/L	30	100
11.	Sodium	APHA 3500 Na, A+B	22.0	mg/L	-	-
12.	Phosphate	APHA 4500-SO42- E	BDL	mg/L	-	-
13.	Sulfate	APHA 4500-PD	44.2	mg/L	200	400
14.	Potassium	APHA 3500 K, A+B	7.0	mg/L	-	-


Page 1 of 3

Note:

- 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.
- 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.
- 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/23/08/31/025

TEST REPORT ISSUE DATE: 09.09.2023

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	32.0	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	0.24	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	0.88	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	804	μS/cm	No relaxation	No relaxation

Page 2 of 3

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.

Review By:

Lucknow
Dr. Ashok Kumar
Technical Manager

Virat Global Lab
Authorized Signatory

Authorized Signatory
D. K. Yadav
Lab In-charge

TEST REPORT CODE: VGL/W/23/08/31/025

TEST REPORT ISSUE DATE: 09.09.2023

**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:

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

Review By:



Dr. Ashok Kumar
Technical Manager

Virat Global Lab
Authorized Signatory



Authorized Signatory

Sayeed Ahmad
Quality Manager

TEST REPORT CODE: VGL/WW/23/08/31/001

TEST REPORT ISSUE DATE: 09.09.2023

TEST REPORT (WASTE WATER)

Name and Address of Customer : M/s JAYKAYCEM (CENTRAL) LIMITED,
VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ,
DISTT. - PANNA, 488441 (M.P)
Location of Sample : STP OUTLET (NEAR GUEST HOUSE)
Sample Description : WASTE WATER
Date & Time of Sampling : 29.08.2023 12:10 PM
Sample Collected by : VGL STAFF
Environmental Condition (Temp. & RH) : 31.5⁰C & 55%
Sample Packing : SEALED
Laboratory Sample Receiving Date : 31.08.2023
Duration of Sample Analysis : 31.08.2023 TO 09.09.2023
Method of Sampling : APHA 1060B

TEST RESULTS

SL. NO.	TESTS	UNIT	PROTOCOL	RESULT	SPECIFICATION / LIMIT AS PER CPCB
1.	pH	--	APHA 23 rd EDN.:2017, (4500 H+B)	7.73	6.5-9.0
2.	Total Suspended Solid as TSS	mg/L	APHA 23 rd EDN.:2017, (2540D)	12.5	100.0
3.	Chemical Oxygen Demand as COD	mg/L	APHA 23 rd EDN.:2017, (5220 B)	48.0	250.0
4.	Oil & Grease as O & G	mg/L	APHA 23 rd EDN.:2017, (5520 B)	<2.0	10.0
5.	Biological Oxygen Demand as BOD (3days 27 ⁰ C)	mg/L	IS: 3025 (Part-44)	12.6	30.0

Page 1 of 2

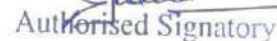
Note:

- 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.
- 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.
- 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 (WASTE WATER)**PART – B (BIOLOGICAL)****TEST RESULTS**

Sr. No.	Parameters	Test Method	Result	Unit	SPECIFICATION / LIMIT (AS PER CPCB)
1.	Fecal coliform	APHA24 th Ed. 9221-E	280.0	MPN/100 ML	1000

Page 2 of 2

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



Dr. Ashok Kumar
Technical Manager

Virat Global Lab
Authorized Signatory

Sayed Ahmad
Authorized Signatory

Sayed Ahmad
Quality Manager

TEST REPORT CODE: VGL/WW/23/08/31/005

TEST REPORT ISSUE DATE: 09.09.2023

TEST REPORT (WASTE WATER)

Name and Address of Customer	: M/s JAYKAYCEM (CENTRAL) LIMITED, VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ, DISTT. - PANNA, 488441 (M.P)
Location of Sample	: STP OUTLET (NEAR ADMIN BUILDING)
Sample Description	: WASTE WATER
Date & Time of Sampling	: 29.08.2023 1:45 PM
Sample Collected by	: VGL STAFF
Environmental Condition (Temp. & RH)	: 31.6 ⁰ C & 55%
Sample Packing	: SEALED
Laboratory Sample Receiving Date	: 31.08.2023
Duration of Sample Analysis	: 31.08.2023 TO 09.09.2023
Method of Sampling	: APHA 1060B

TEST RESULTS

Sl. NO.	TESTS	UNIT	PROTOCOL	RESULT	SPECIFICATION / LIMIT AS PER CPCB
1.	pH	--	APHA 23 rd EDN.:2017, (4500 H+B)	7.48	6.5-9.0
2.	Total Suspended Solid as TSS	mg/L	APHA 23 rd EDN.:2017, (2540D)	18.5	100.0
3.	Chemical Oxygen Demand as COD	mg/L	APHA 23 rd EDN.:2017, (5220 B)	64.0	250.0
4.	Oil & Grease as O & G	mg/L	APHA 23 rd EDN.:2017, (5520 B)	<2.0	10.0
5.	Biological Oxygen Demand as BOD (3days 27 ⁰ C)	mg/L	IS: 3025 (Part-44)	18.5	30.0

Page 1 of 2

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.

Review By:


Dr. Ashok Kumar
Technical Manager

Virat Global Lab
Authorized Signatory


Authorized Signatory

D. K. Yadav
Lab In-charge

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

Sr. No.	Parameters	Test Method	Result	Unit	SPECIFICATION / LIMIT (AS PER CPCB)
1.	Fecal coliform	APHA24 th Ed. 9221-E	310.0	MPN/100 ML	1000

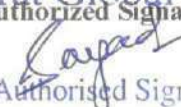
Page 2 of 2

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

Review By:

Lucknow
Dr. Ashok Kumar
Technical Manager

Virat Global Lab
Authorized Signatory

Authorized Signatory
Sayeed Ahmad
Quality Manager

TEST REPORT CODE: VGL/WW/23/08/31/007

TEST REPORT ISSUE DATE: 09.09.2023

TEST REPORT (WASTE WATER)

Name and Address of Customer	: M/s JAYKAYCEM (CENTRAL) LIMITED, VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ, DISTT. - PANNA, 488441 (M.P)
Location of Sample	: STP OUTLET (NEAR GATE COMPLEX)
Sample Description	: WASTE WATER
Date & Time of Sampling	: 29.08.2023 2:35 PM
Sample Collected by	: VGL STAFF
Environmental Condition (Temp. & RH)	: 31.6 ⁰ C & 55%
Sample Packing	: SEALED
Laboratory Sample Receiving Date	: 31.08.2023
Duration of Sample Analysis	: 31.08.2023 TO 09.09.2023
Method of Sampling	: APHA 1060B

TEST RESULTS

SL. NO.	TESTS	UNIT	PROTOCOL	RESULT	SPECIFICATION / LIMIT AS PER CPCB
1.	pH	--	APHA 23 rd EDN.:2017, (4500 H+B)	7.28	6.5-9.0
2.	Total Suspended Solid as TSS	mg/L	APHA 23 rd EDN.:2017, (2540D)	22.5	100.0
3.	Chemical Oxygen Demand as COD	mg/L	APHA 23 rd EDN.:2017, (5220 B)	88.0	250.0
4.	Oil & Grease as O & G	mg/L	APHA 23 rd EDN.:2017, (5520 B)	<2.0	10.0
5.	Biological Oxygen Demand as BOD (3days 27 ⁰ C)	mg/L	IS: 3025 (Part-44)	19.5	30.0


Page 1 of 2

Note:

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

Review By:

Dr. Ashok Kumar
Technical Manager

Virat Global Lab
Authorized Signatory

Authorized Signatory
D. K. Yadav
Lab In-charge

TEST REPORT CODE: VGL/WW/23/08/31/007

TEST REPORT ISSUE DATE: 09.09.2023

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

Sr. No.	Parameters	Test Method	Result	Unit	SPECIFICATION / LIMIT (AS PER CPCB)
1.	Fecal coliform	APHA24 th Ed. 9221-E	240.0	MPN/100 ML	1000

Page 2 of 2

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.

Review By:

Dr. Ashok Kumar
Technical Manager

Virat Global Lab
Authorized Signatory

Authorized Signatory
Sayeed Ahmad
Quality Manager

TEST REPORT (WASTE WATER)

Name and Address of Customer : M/s JAYKAYCEM (CENTRAL) LIMITED,
VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ,
DISTT. - PANNA, 488441 (M.P)

Location of Sample : STP OUTLET (NEAR CCR)

Sample Description : WASTE WATER

Date & Time of Sampling : 29.08.2023 3:15 PM

Sample Collected by : VGL STAFF

Environmental Condition (Temp. & RH) : 31.5⁰C & 55%

Sample Packing : SEALED

Laboratory Sample Receiving Date : 31.08.2023

Duration of Sample Analysis : 31.08.2023 TO 09.09.2023

Method of Sampling : APHA 1060B

TEST RESULTS

SI. NO.	TESTS	UNIT	PROTOCOL	RESULT	SPECIFICATION / LIMIT AS PER CPCB
1.	pH	--	APHA 23 rd EDN.:2017, (4500 H+B)	7.82	6.5-9.0
2.	Total Suspended Solid as TSS	mg/L	APHA 23 rd EDN.:2017, (2540D)	24.6	100.0
3.	Chemical Oxygen Demand as COD	mg/L	APHA 23 rd EDN.:2017, (5220 B)	82.0	250.0
4.	Oil & Grease as O & G	mg/L	APHA 23 rd EDN.:2017, (5520 B)	<2.0	10.0
5.	Biological Oxygen Demand as BOD (3days 27 ⁰ C)	mg/L	IS: 3025 (Part-44)	18.8	30.0

Page 1 of 2


Note:

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

Review By:


Dr. Ashok Kumar
Technical Manager

Virat Global Lab
Authorized Signatory


Authorized Signatory
D. K. Yadav
Lab In-charge

TEST REPORT CODE: VGL/WW/23/08/31/009

TEST REPORT ISSUE DATE: 09.09.2023

TEST REPORT (WASTE WATER)**PART - B (BIOLOGICAL)****TEST RESULTS**

Sr. No.	Parameters	Test Method	Result	Unit	SPECIFICATION / LIMIT (AS PER CPCB)
1.	Fecal coliform	APHA24 th Ed. 9221-E	290.0	MPN/100 ML	1000


Page 2 of 2

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



Review By:
Dr. Ashok Kumar
Technical Manager

Virat Global Lab
Authorized Signatory

Authorized Signatory
Sayeed Ahmad
Quality Manager

TEST REPORT (WASTE WATER)

Name and Address of Customer : M/s JAYKAYCEM (CENTRAL) LIMITED,
VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ,
DISTT. - PANNA, 488441 (M.P)
Location of Sample : STP OUTLET (NEAR LABOUR COLONY)
Sample Description : WASTE WATER
Date & Time of Sampling : 29.08.2023 4:05 PM
Sample Collected by : VGL STAFF
Environmental Condition (Temp. & RH) : 31.5°C & 55%
Sample Packing : SEALED
Laboratory Sample Receiving Date : 31.08.2023
Duration of Sample Analysis : 31.08.2023 TO 09.09.2023
Method of Sampling : APHA 1060B

TEST RESULTS

SL. NO.	TESTS	UNIT	PROTOCOL	RESULT	SPECIFICATION / LIMIT AS PER CPCB
1.	pH	--	APHA 23 rd EDN.:2017, (4500 H+B)	7.75	6.5-9.0
2.	Total Suspended Solid as TSS	mg/L	APHA 23 rd EDN.:2017, (2540D)	22.6	100.0
3.	Chemical Oxygen Demand as COD	mg/L	APHA 23 rd EDN.:2017, (5220 B)	72.0	250.0
4.	Oil & Grease as O & G	mg/L	APHA 23 rd EDN.:2017, (5520 B)	<2.0	10.0
5.	Biological Oxygen Demand as BOD (3days 27°C)	mg/L	IS: 3025 (Part-44)	16.8	30.0

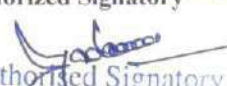
Page 1 of 2

Note:

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

Review By:

Dr. Ashok Kumar
Technical Manager

Virat Global Lab
Authorized Signatory

Authorized Signatory
D. K. Yadav
Lab In-charge

TEST REPORT CODE: VGL/WW/23/08/31/011

TEST REPORT ISSUE DATE: 09.09.2023

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

Sr. No.	Parameters	Test Method	Result	Unit	SPECIFICATION / LIMIT (AS PER CPCB)
1.	Fecal coliform	APHA24 th Ed. 9221-E	320.0	MPN/100 ML	1000

Page 2 of 2

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

Review By:

Dr. Ashok Kumar
Technical Manager

Virat Global Lab
Authorized Signatory

Authorized Signatory
Sayeed Ahmad
Quality Manager

J K Cemnet Limited, PANNA (M.P.)**NOISE MONITORING REPORT**

Sr. No.	Zone	Location Name	Permissible Limits	Apr-23		May-23		Jun-23		Jul-23		Aug-23		Sep-23	
				Day (dB) Leq	Night (dB) Leq	Day (dB) Leq	Night (dB) Leq	Day (dB) Leq	Night (dB) Leq	Day (dB) Leq	Night (dB) Leq	Day (dB) Leq	Night (dB) Leq	Day (dB) Leq	Night (dB) Leq
1	Core	Near Guest House Area	Ambient Noise Day time - 75 dB (A) Night time - 70 dB (A) Work Zone Noise Work Zone - 85 dB (A)	55.21	44.21	54.23	45.21	52.34	44.32	51.48	45.12	50.46	44.98	49.5	48.76
2		Near Security Barrack		54.71	40.31	53.71	42.35	56.72	41.74	54.89	40.34	51.78	39.47	43.61	43.09
3		Near Zero Point Area		54.31	44.31	57.62	46.21	51.39	45.87	50.01	42.18	52.98	37.28	43.18	42.75
4		Near Reservoir		64.32	45.32	67.63	42.13	52.97	41.36	51.64	40.02	49.35	38.04	50.12	41.46
5		Near Main Gate		64.92	48.71	65.71	43.25	59.87	45.28	62.15	46.27	60.19	47.24	66.06	48.34
6		Near CCR building		61.71	43.74	69.23	45.71	62.91	44.38	64.34	45.69	62.08	42.13	65.58	41.05
7		Near Project Office		68.76	51.39	58.9	52.18	59.72	55.27	68.76	64.26	59.01	51.39	58.03	53.26
8		Near Packing Plant		70.03	57.27	60.38	54.27	64.93	60.19	70.03	64.29	64.98	57.27	65.24	56.73
9		Near Cement Mill		84.19	64.27	81.73	62.17	83.29	76.38	84.19	77.18	65.95	64.27	63.28	60.17
10		Near Preheater		81.42	70.83	78.34	65.28	79.45	72.19	81.42	73.27	75.96	70.83	73.19	69.27
11		Near Stack & Reclaimer		61.72	64.27	53.72	61.38	67.54	62.48	61.72	58.28	75.41	64.27	72.18	65.27
12		Near Store Area		54.22	53.27	40.64	39.28	53.36	49.28	54.22	50.19	54.32	53.27	53.12	49.27
13		At Kiln Platform		82.97	79.38	83.02	76.27	72.9	65.38	82.97	78.37	82.11	79.38	81.37	75.27
14		Near Raw Mill		73.29	74.28	68.77	63.27	82.12	76.28	73.29	69.01	82.13	74.28	80.28	74.37
15		Near DG Set		69.38	71.37	50.18	46.27	78.8	76.28	69.38	63.28	76.71	71.37	74.27	68.37
16		Near Cooler		75.77	65.37	69.44	62.01	72.36	67.82	75.77	69.09	71.17	65.37	70.26	64.27
17	Buffer	Harduaken Village		43.21	31.71	45.71	32.71	44.21	33.73	42.15	31.05	40.39	30.12	43.97	33.18
18		Sotipura Village		42.34	34.23	45.43	33.98	46.62	32.98	44.89	34.75	42.16	33.48	44.75	38.46
19		Purwa Village		45.87	36.21	43.76	32.94	43.98	34.87	45.67	33.09	44.98	30.45	43.65	36.45
20		Kakra Village		41.91	34.54	42.37	33.64	44.28	35.34	40.17	31.89	40.67	34.82	45.27	34.85
21		Pagra Village		37.23	31.76	41.24	35.72	47.87	31.09	48.34	30.87	45.87	31.28	46.27	36.81



DIRECTORATE, INDUSTRIAL HEALTH AND SAFTY, M.P. INDORE
518, New Moti Bunglow, M.G. Road, Indore-452007
Phone No. 0731-2533482, Fax- 0731-2544264, E-mail- dihsindore@gmail.com,
dihsindore@mp.gov.in (MAJOR ACCIDENT HAZARD CONTROL CELL)

OSEP NO : RE08072212223371

Category : Under Section 2CCB

To,
The Occupier,
JayKayCem Central Limited (FAC2223371),
Harduwaken, Amanganj, Panna,
Pincode : ,
Dist.:Panna (M.P.)



Sub:-On-Site Emergency Plan.

Ref:- Your documents duly verified by the occupier & on the subject Dated **01/08/2022**

Please be informed that documents in which the Occupier have disclosed the information related to hazard at his installation in compliance of the Section 41-B of the Factories Act, 1948 and which also described his On-site Emergency Plan, (after supplementing certain modifications by the MAHC Cell distinctively marked on the plan) is hereby **Notified Final** with the following stipulations for the period from **04/08/2022** to **03/08/2024 :-**

- 1.** That in case any relevant information as required under the Section 41-B of the Factories Act, 1948, if has not been disclosed this notification does not provide any exemption in this regard and the occupier his-self is liable for concealing the information;
- 2.** That the document will be subjected for review :-
 - a)** Generally after a period of two years from the date of issue of this letter;
or
 - b)** During any intervening period of two years if it is instructed to do so by this cell;
or
 - c)** Invariably, where any change in the plant, machinery, building, structure, substance, storage or the manufacturing process/ operations is intended by the occupier or his factory persons;
- 3.** That the documents will have to be reviewed (as above) always in consultation with this cell and it will be occupier's liability to provide reasonable time for review and get notified final or further period.
- 4.** The suitable Training/ Mock drills/ Exercises be arranged at the factory to make all concerned familiar with their duties/ responsibilities as outlined in the on-site emergency plan and be well trained to act accordingly at any emergency and save life as well as the property.



DIRECTORATE, INDUSTRIAL HEALTH AND SAFTY, M.P. INDORE
518, New Moti Bunglow, M.G. Road, Indore-452007
Phone No. 0731-2533482, Fax- 0731-2544264, E-mail- dihsindore@gmail.com
(MAJOR ACCIDENT HAZARD CONTROL CELL)

5. That report/ observations of mock drills/ rehearsal or action at any emergency situation that might have arisen, shall be furnished by the factory management to this cell to asses efficiency of the plan.
6. The necessary copies of this plan or part thereof be got multiplied by the factory management and provided to all concerning statutory authorities and other persons and also placed at designated emergency control center in an accessible place to all concerned in the factory.
7. That in case of failure to comply with the stipulations or the relevant provisions of the laws, not withstanding legal proceedings to which the occupier may be subjected he or his-self will bear (for any suspension/ refusal/ rejection of his license to work the factory) the liability of such action.

Condition :- (1) Sufficient fire fighting facilities shall be maintained in the factory as per Rule 72 of M.P. Factories Rules 1962. (2) All the preventive measures shall be ensured in the factory regarding storage and handling of all hazardous materials as mentioned in its MSDS uploaded with the plan.

ENCLOSED:-Copy of on site emergency plan

Indore
Dated : 04/08/2022

Director,
Chiff Inspector of Factories
Industrial Health and Safety,
Govt. of Madhya Pradesh, Indore

This is a digitally signed online verifiable document and does not need manual signature.

डॉ. आभाष जैन

MBBS, DTCD (Mumbai), AFIH
Chest Specialist
Consulting Physician - Occupational Health
Fellowship in Echocardiography
पंजीयन नं. : 9297

हृदय रोग, श्वास रोग, शुगर, थायरॉइड

सिटी हॉस्पिटल

गार्डलेन, मरोठी गार्डन के पीछे, मागंज वार्ड नं. 1, दमोह (म.प्र.)
फोन नं. - 07812-221342, 9425405989

■ प्रेरणास्त्रोत - डॉ. अभय कुमार जैन (एम.डी.) ■

परामर्श समय : सुबह 11 बजे से शाम 5 बजे

निवास : शाम 7 से 8:30 बजे

नाम : Dharmendra Patel उम्र/लिंग 22/m पता : Pipalgaon दिनांक 6/7/23
Champur

Rx TO WHOMSOEVER IT MAY CONCERN

I have examined Mr. Dharmendra Patel
22/m S/o Hariram Patel R/o Pipalgaon Champur
Dhamoh carefully. His BMI is 19.5
His stress test is negative for
provocable ischemia. His Audiometry and
lipid profile are WNL. He is medically
fit to perform his duties.

Ajam

DR. ABHASH JAIN
MBBS, DTCD(MUMBAI) AFIH
CHEST SPECIALIST (MPMC-9297)
CITY HOSPITAL, GUARD LANE
MW-1, DAMOH (M.P.)

Summary Report**CITY HOSPITAL**

Phone: 07812 221342

Name : **DHARMEDRA PATEL**
ID : **36623868323**
Age,Wt,Ht : **22years(Male), 55Kg,168cm**

Doctor : **DR ABHASH JAIN**
Tested on : **06/07/2023,04:40 PM**
BPL DYNATRAC NEO

Test Summary Report

Target HR = 198 Total time = 14:17 Protocol = BRUCE
HR achieved = 133 (67%) Exercise time = 10:01 Max ST(mm)=3.42(Lead V3)
Peak Ex = Exercise 4 Recovery time = 02:27 Min ST(mm)=-2.04(Lead V6)

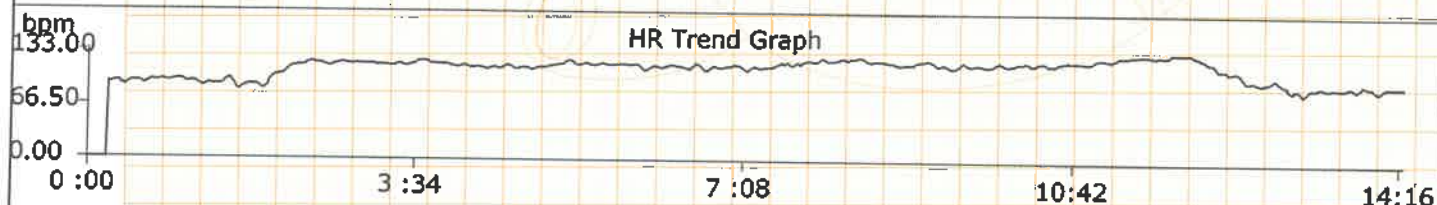
Stagewise Summary

Stage Name	Duration (mm:ss)	Max HR	Max ST (mm)	Min ST (mm)	Speed km/hr	Slope (%)	METS	sys/dia (map)
Supine	00:26	93	3.42(V3)	-2.04(V6)	0.0	0.0	0.00	130/80(96)
Standing	00:34	96	2.18(V2)	-0.53(III)	0.0	0.0	0.00	130/80(96)
Hyperventilation	00:24	96	2.14(V2)	-0.38(III)	0.0	0.0	0.00	130/80(96)
Waiting for Exercise	00:25	97	2.31(V2)	-0.43(III)	0.0	0.0	0.00	130/80(96)
Exercise 1	03:00	120	2.87(V3)	-1.07(III)	2.7	10.0	5.10	146/80(102)
Exercise 2	03:00	122	3.11(V3)	-1.24(III)	4.0	12.0	7.10	160/86(110)
Exercise 3	03:00	126	2.88(V3)	-1.85(III)	5.5	14.0	10.00	180/90(120)
Peak Exercise 4	01:01	133	1.81(V2)	-2.04(V6)	6.8	16.0	13.00	---/---(---)
Recovery 1	01:00	133	3.42(V3)	-1.41(V6)	0.0	0.0	0.00	150/90(110)
Recovery 2	01:00	104	2.28(V2)	-1.01(III)	0.0	0.0	0.00	130/80(96)
Recovery 3	00:27	97	1.99(V2)	-1.02(III)	0.0	0.0	0.00	---/---(---)

Rpp: 12090(Supine) ,12480(Standing) ,12480(Hyperventilation) ,12610(Waiting for Exercise) ,17520(Exercise 1) ,19520(Exercise 2) ,22680(Exercise 3) ,19950(Recovery 1) ,13520(Recovery 2)

Stage comments: none

Object of test : FOR MEDICAL FITNESS
Risk factor : NONE
Activity : GOOD
Other Investigation : ECG-WNL
Ex tolerance : EXCELLENT
Ex Arrhythmia : NONE
Hemo Response : NORMAL
Chrono response : NORMAL
Reason for Termination : FATIGUE



Medication: NONE

History: FOR MEDICAL FITNESS

Observations: EXCELLENT EXERCISE TOLERANCE 10 METS
67 % OF THR ACHIEVED
NO ST-T CHANGES SEEN

Final Impression: STRESS TEST IS NEGATIVE FOR PROVOCABLE ISCHEMIA

Again
DR. ABHASH JAIN
MBBS, DCCD(MUMBAI) AFII
CHEST SPECIALIST (MPMC-9297)
CITY HOSPITAL, GUARD LANE
MW-1, DAMON (M.P.)

Technician: Done By: DR ABHASH JAIN Confirmed by -

ID : 36623868323

Stage

: Recovery 2

Protocol

: BRUCE

NAME : DHARMEDRA PATEL

Recovery Time : 02:00

Doctor : DR ABHASH JAIN

AGE : 22

Stage Time : 01:00

Tested on : 06/07/2023,04:40 PM

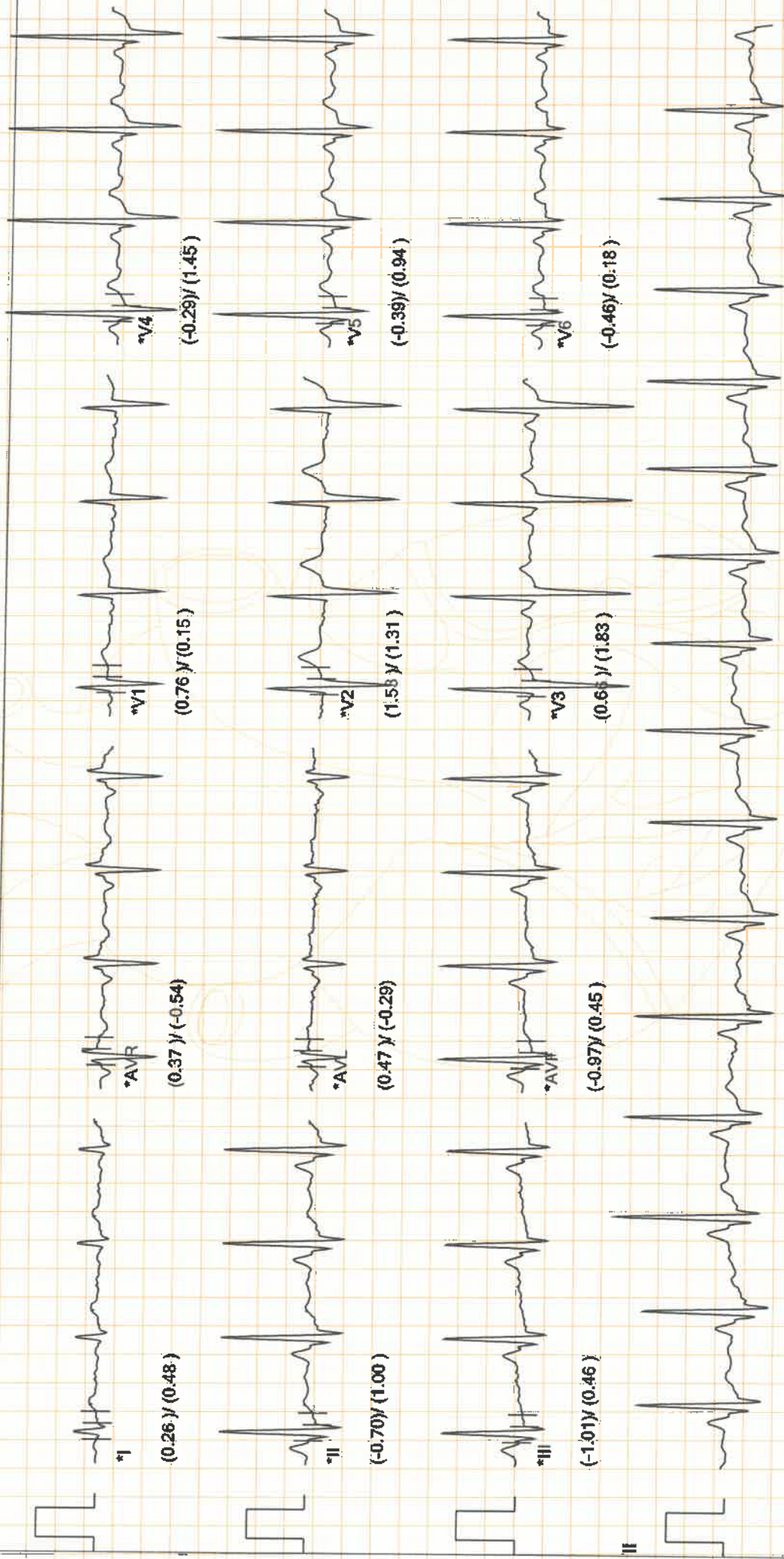
NIBP : 130/80(96)

HR : 98 (49%)

METS : 0.00

BPL DYNATRAC NEO

ST Level(mm), ST Slope (mV/sec) at 80ms PJ



ID : 36623868323

Stage

: Recovery 1

Protocol

: BRUCE

NAME : DHARMEDRA PATEL

Recovery Time : 01:00

Speed(Km/h) : 0.0

Doctor : DR ABHASH JAIN

AGE : 22

Stage Time

: 01:00

Grade(%) : 0.00

Tested on : 06/07/2023,04:40 PM

NIBP : 150/90(110)

HR

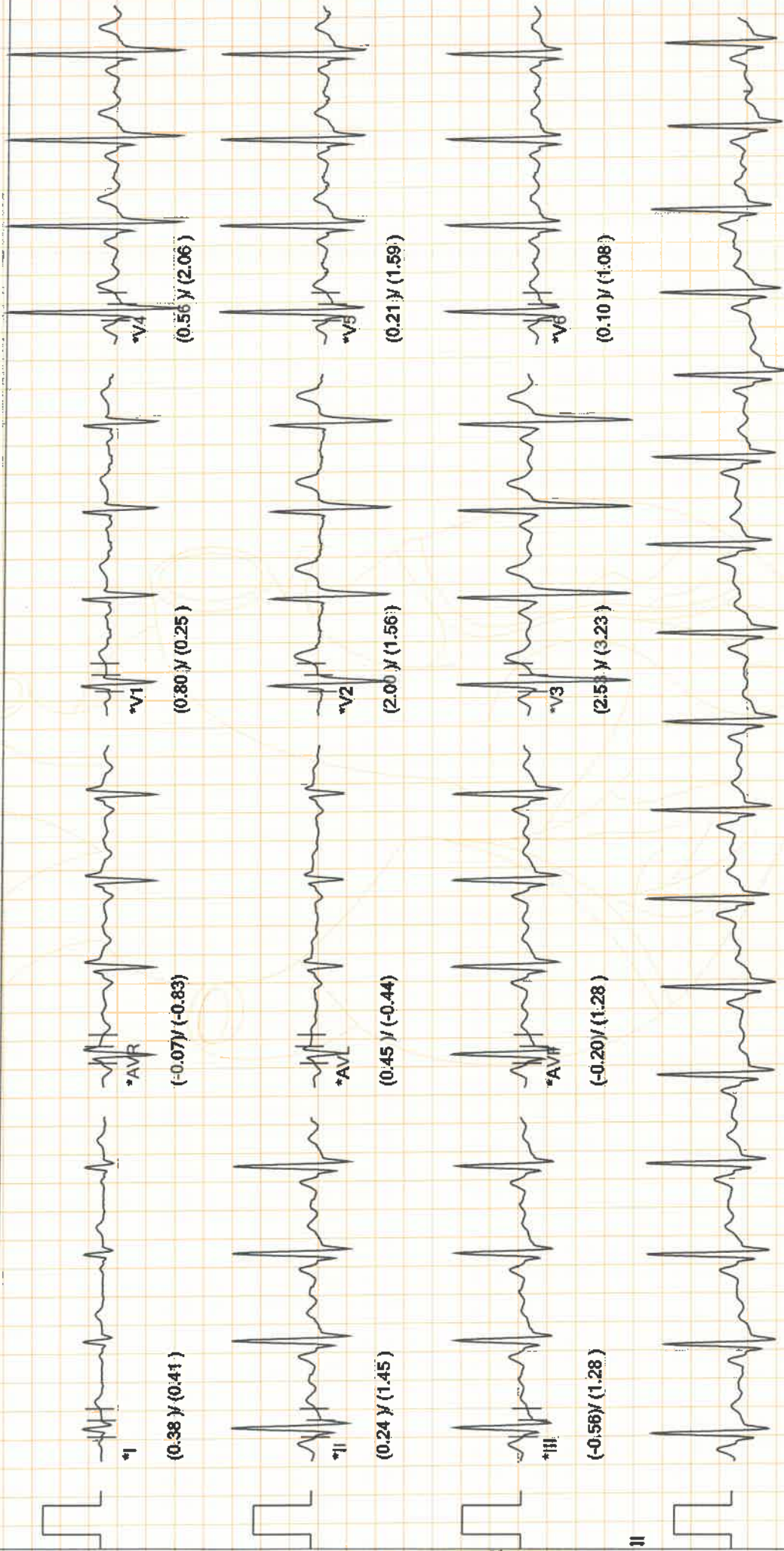
: 102 (51%)

METS

: 0.00

BPL DYNATRAC NEO

ST Level(mm), ST Slope (mV/sec) at 80ms P1



ID : 36623868323

Stage

: Peak Exercise 4 Protocol : BRUCE

NAME : DHARMEDRA PATEL

Exercise Time : 10:01

Doctor : DR ABHASH JAIN

AGE : 22

Stage Time : 01:01

Tested on : 06/07/2023,04:40 PM

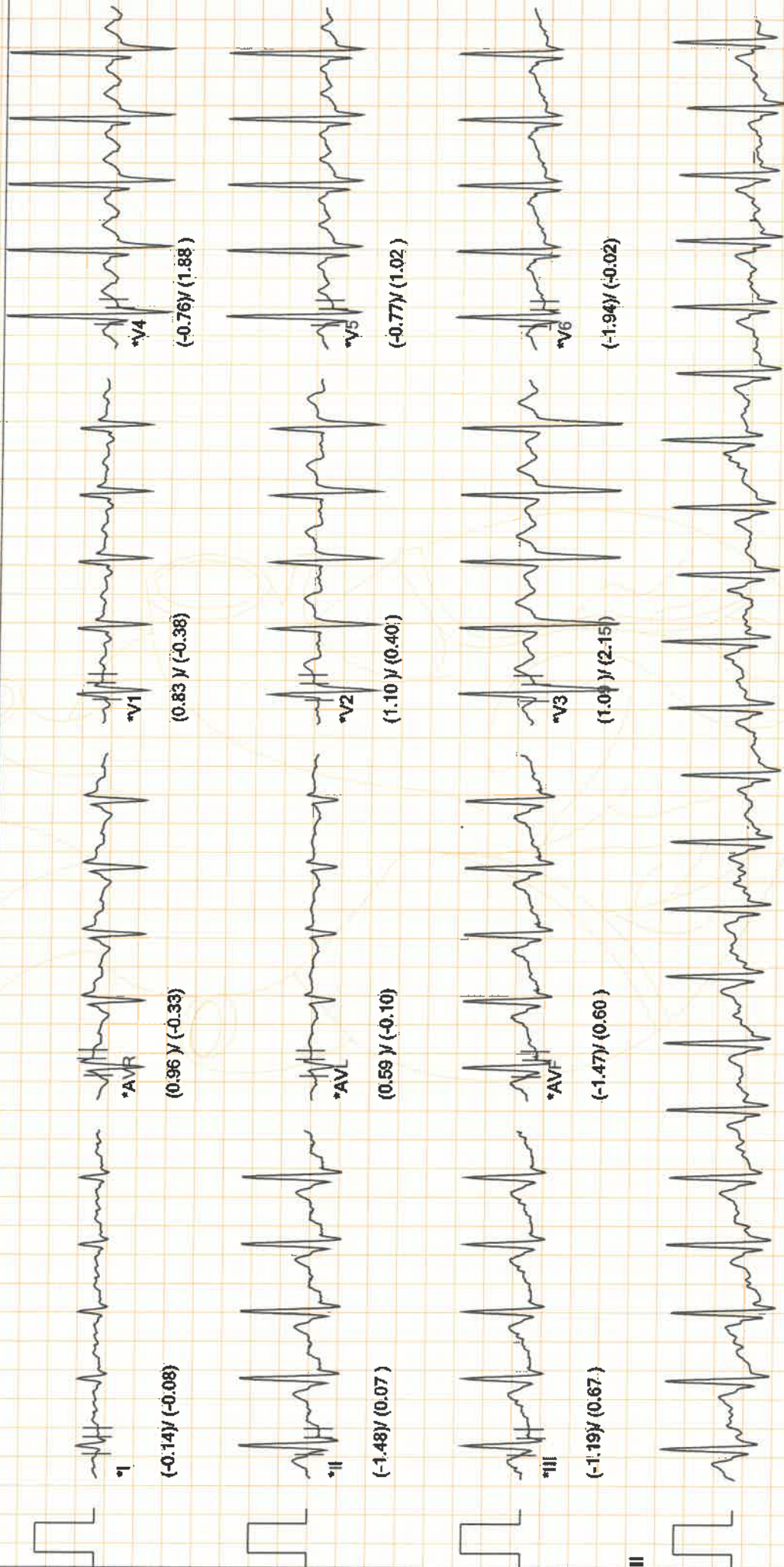
NIBP : --- / --- (---)

HR : 133 (67%)

METS : 10.60

BPL DYNATRAC NEO

ST Level(mm), ST Slope (mV/sec) at 60ms P1



CITY HOSPITAL

Phone: 07812 221342

ID : 36623868323

Stage

: Exercise 3

Protocol

: BRUCE

NAME : DHARMEDRA PATEL

Exercise Time : 09:00

Speed(Km/h) : 5.5

Doctor : DR ABHASH JAIN

AGE : 22

Stage Time : 03:00

Grade(%)

: 14.00

Tested on : 06/07/2023,04:40 PM

NIBP : 180/90(120)

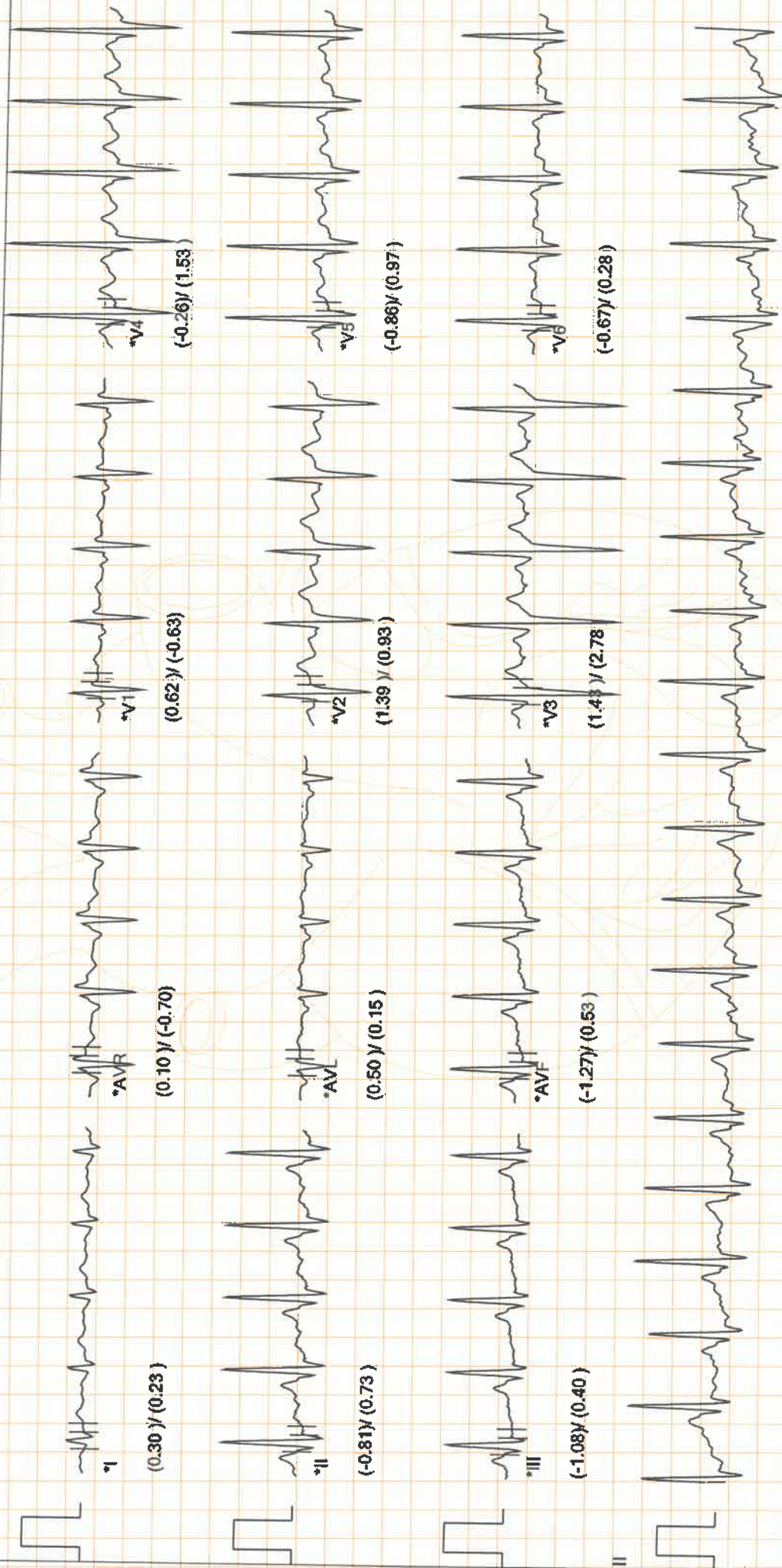
HR

: 121 (61%)

METS

BPL DYNATRAC NEO

ST Level(mm), ST Slope (mV/sec) at 60ms PJ



CITY HOSPITAL

Phone: 07812 221342

ID : 36623868323

Stage

: Exercise 2

Protocol

: BRUCE

NAME : DHARMEDRA PATEL

Exercise Time : 06:00

Speed(Km/h) : 4.0

Doctor : DR ABHASH JAIN

AGE : 22

Stage Time : 03:00

Grade(%) : 12.00

Tested on : 06/07/2023,04:40 PM

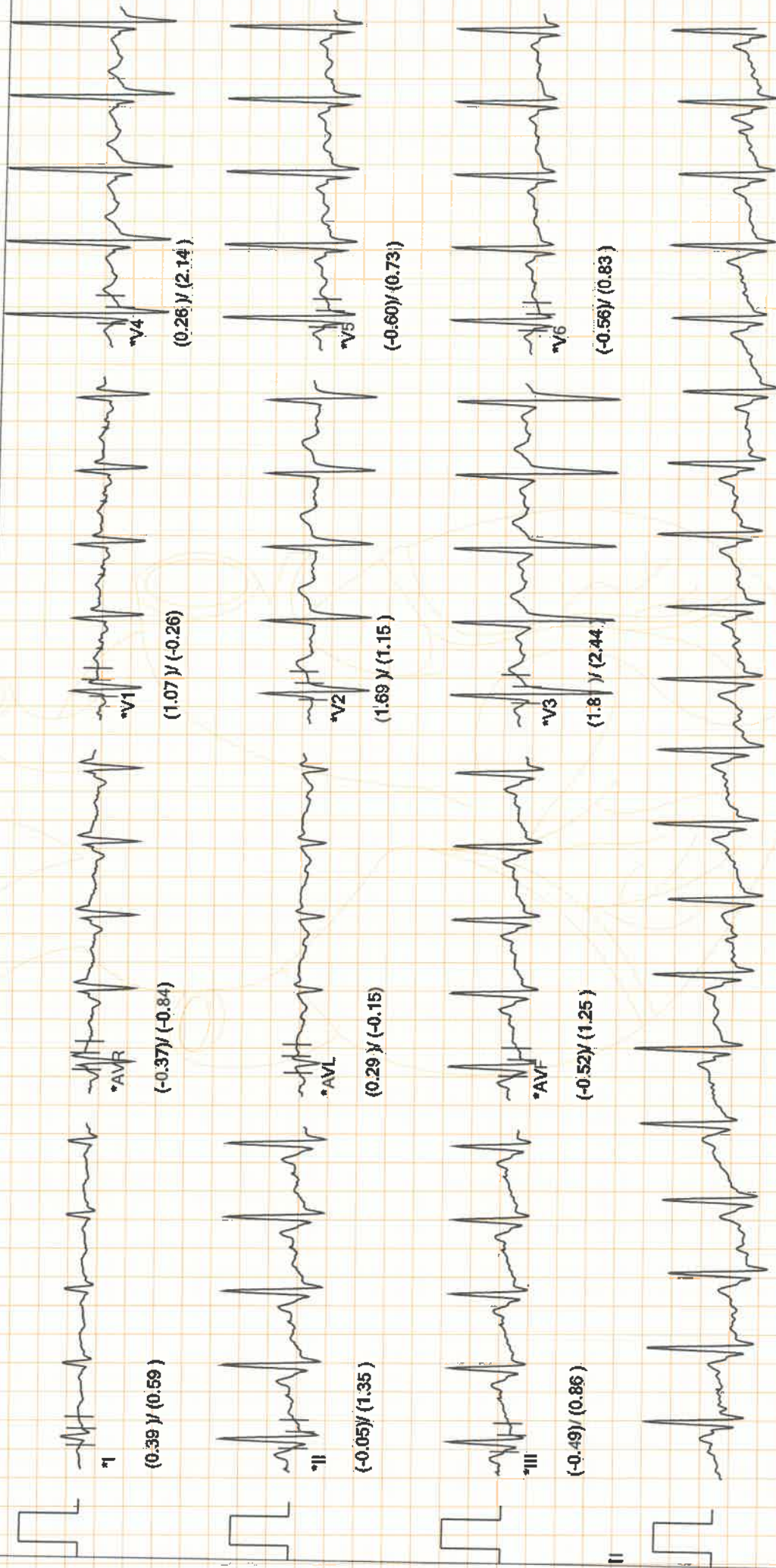
NIBP : 160/86(110)

HR : 122 (61%)

METS

BPL DYNATRAC NEO

ST Level(mm), ST Slope (mV/sec) at 80ms P1



* Waveforms are computer synthesized.

Technician:

20Hz filter

Gain: 10mm/mV

Speed: 25mm/sec

ARROW

CITY HOSPITAL

Phone: 07812 221342

ID : 36623868323

Stage

: Exercise 1

Protocol

: BRUCE

NAME : DHARMEDRA PATEL

Exercise Time : 03:00

Speed(Km/h)

: 2.7 Doctor

AGE : 22

Stage Time : 03:00

Grade(%)

: 10.00 Tested on : 06/07/2023,04:40 PM

NIBP : 146/80(102)

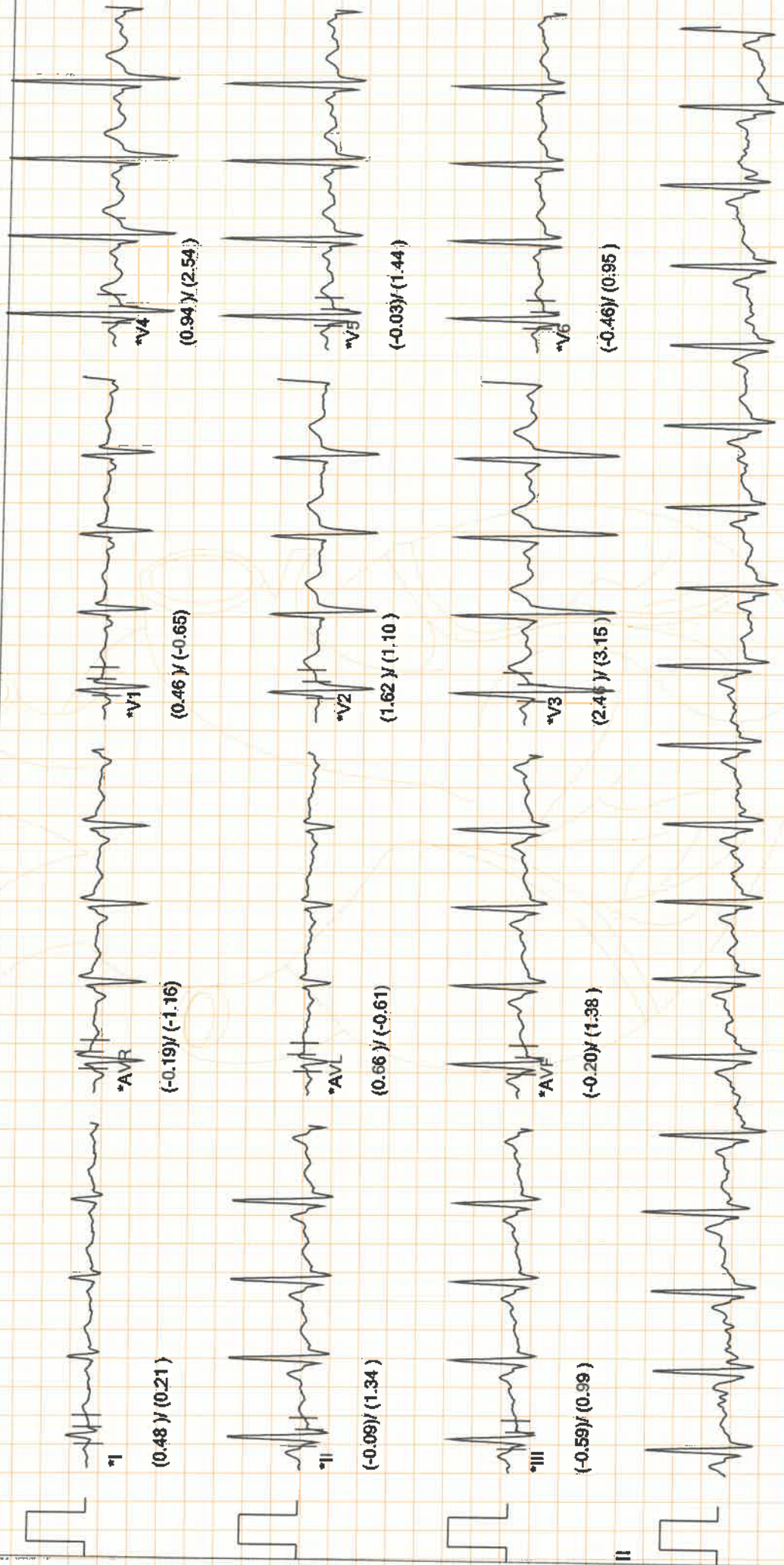
HR

: 110 (55%)

METS

: 5.10 BPL DYNATRAC NEO

ST Level(mm), ST Slope (mV/sec) at 80ms P]



CITY HOSPITAL

Phone: 07812 221342

ID : 36623868323

Stage

: Waiting for Exe .. Protocol : BRUCE

NAME : DHARMEDRA PATEL

Pre Test Time : 01:49

AGE : 22

Stage Time : 00:25

NIBP : 130/80(96)

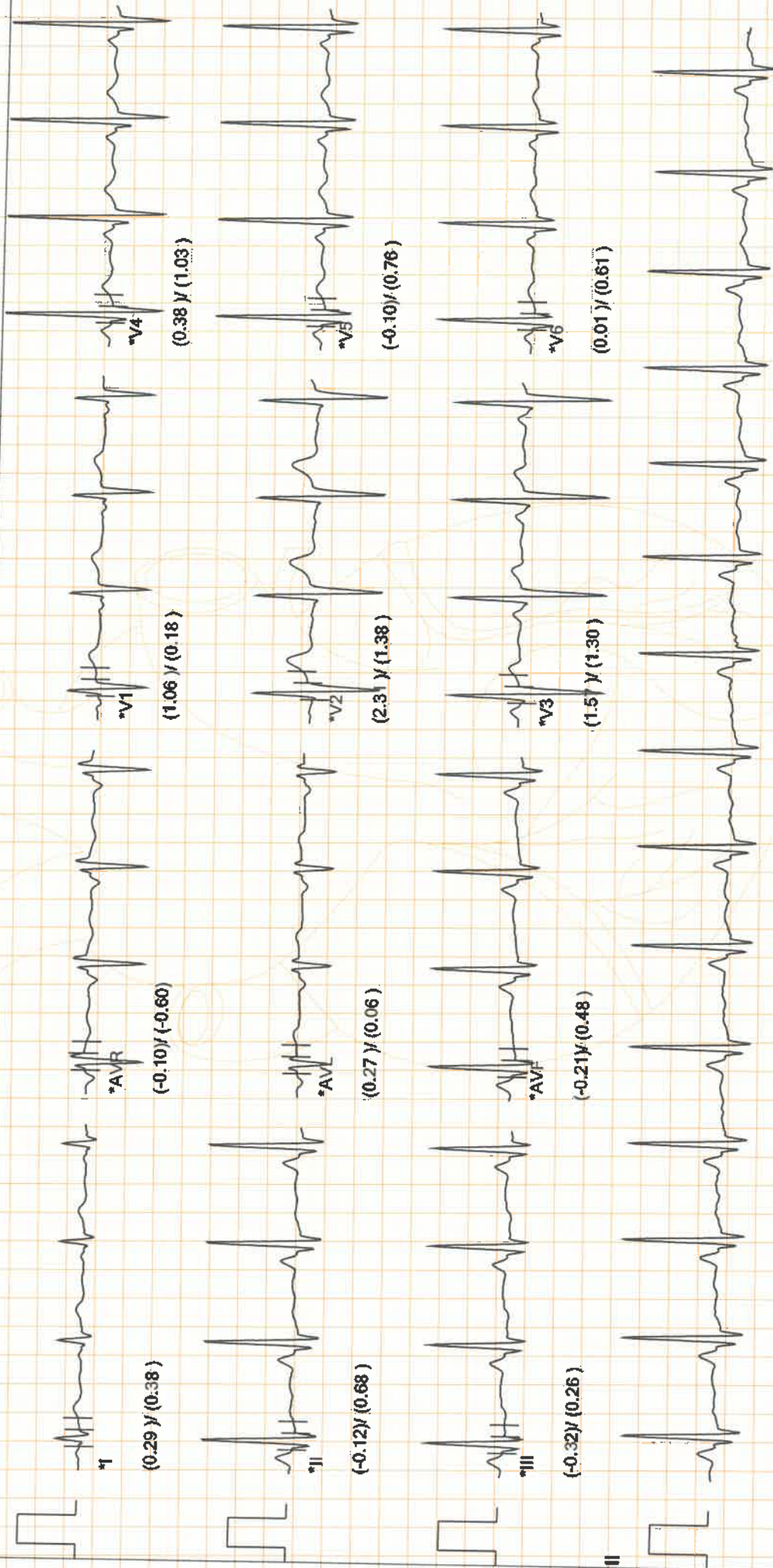
HR : 90 (45%)

Doctor : DR ABHASH JAIN

Tested on : 06/07/2023,04:40 PM

BPL DYNATRAC NEO

ST Level(mm), ST Slope (mV/sec) at 80ms PJ



* Waveforms are computer synthesized.

Technician:

20Hz filter

Gain: 10mm/mV

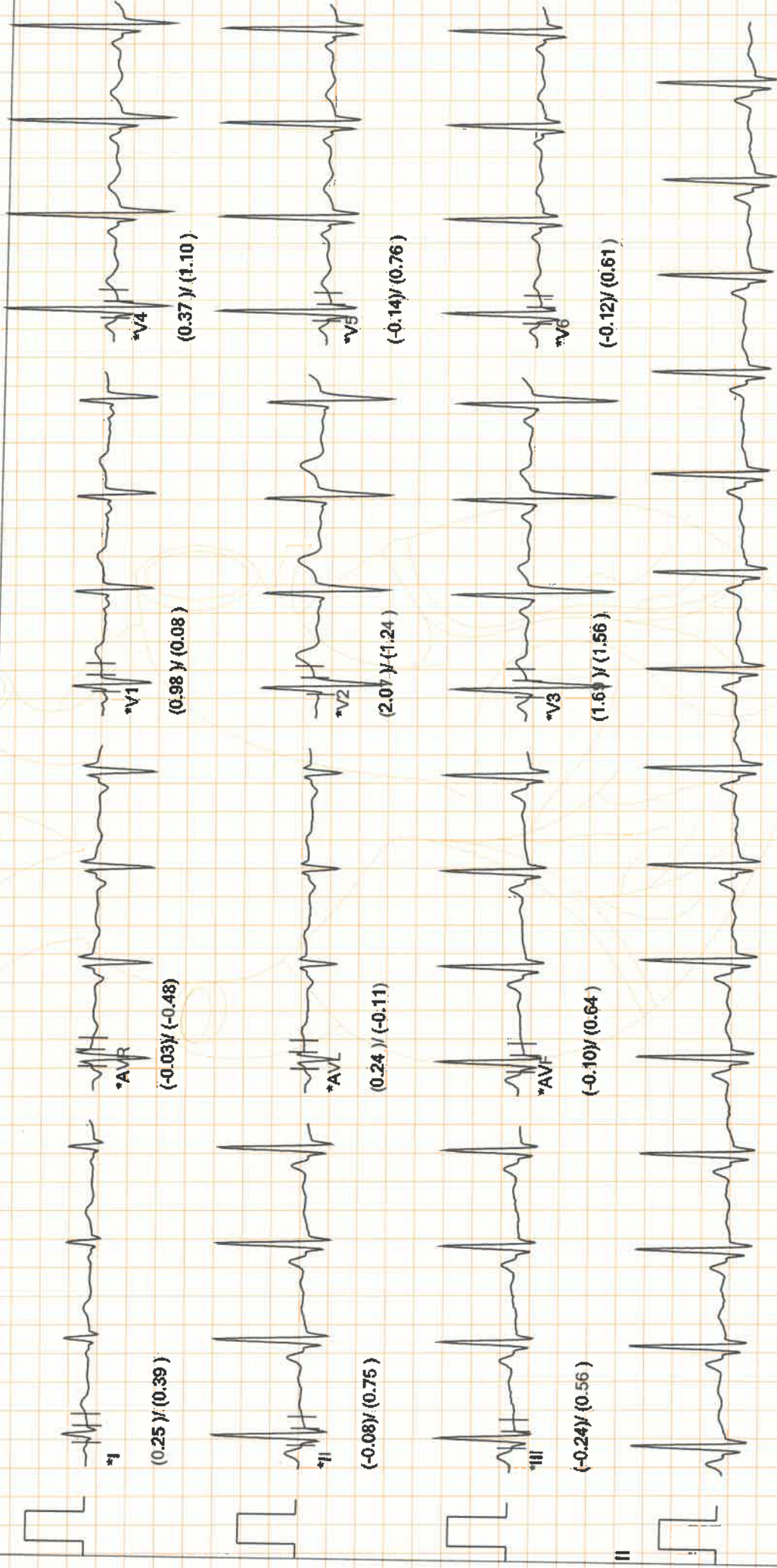
Speed: 25mm/sec

CITY HOSPITAL

Phone: 07812 221342

ID : 36623868323 Stage : Hyperventilation Protocol : BRUCE Doctor : DR ABHASH JAIN
 NAME : DHARMEDRA PATEL Pre Test Time : 01:24 Speed(Km/h) : 0.0 Tested on : 06/07/2023,04:40 PM
 AGE : 22 Stage Time : 00:24 Grade(%) : 0.00 METS : 0.00 BPL DYNATRAC NEO
 NIBP : 130/80(96) HR : 90 (45%)

ST Level(mm), ST Slope (mV/sec) at 80ms PJ



CITY HOSPITAL

Phone: 07812 221342

ID : 36623868323

NAME : DHARMEDRA PATEL

AGE : 22

NIBP : 130/80(96)

ST Level(mm), ST Slope (mV/sec) at 80ms PJ

Stage

Pre Test Time : 01:00

Stage Time : 00:34

HR

: 96 (48%)

: Standing

Protocol

Speed(Km/h) : 0.0

Grade(%)

: 0.00

METS

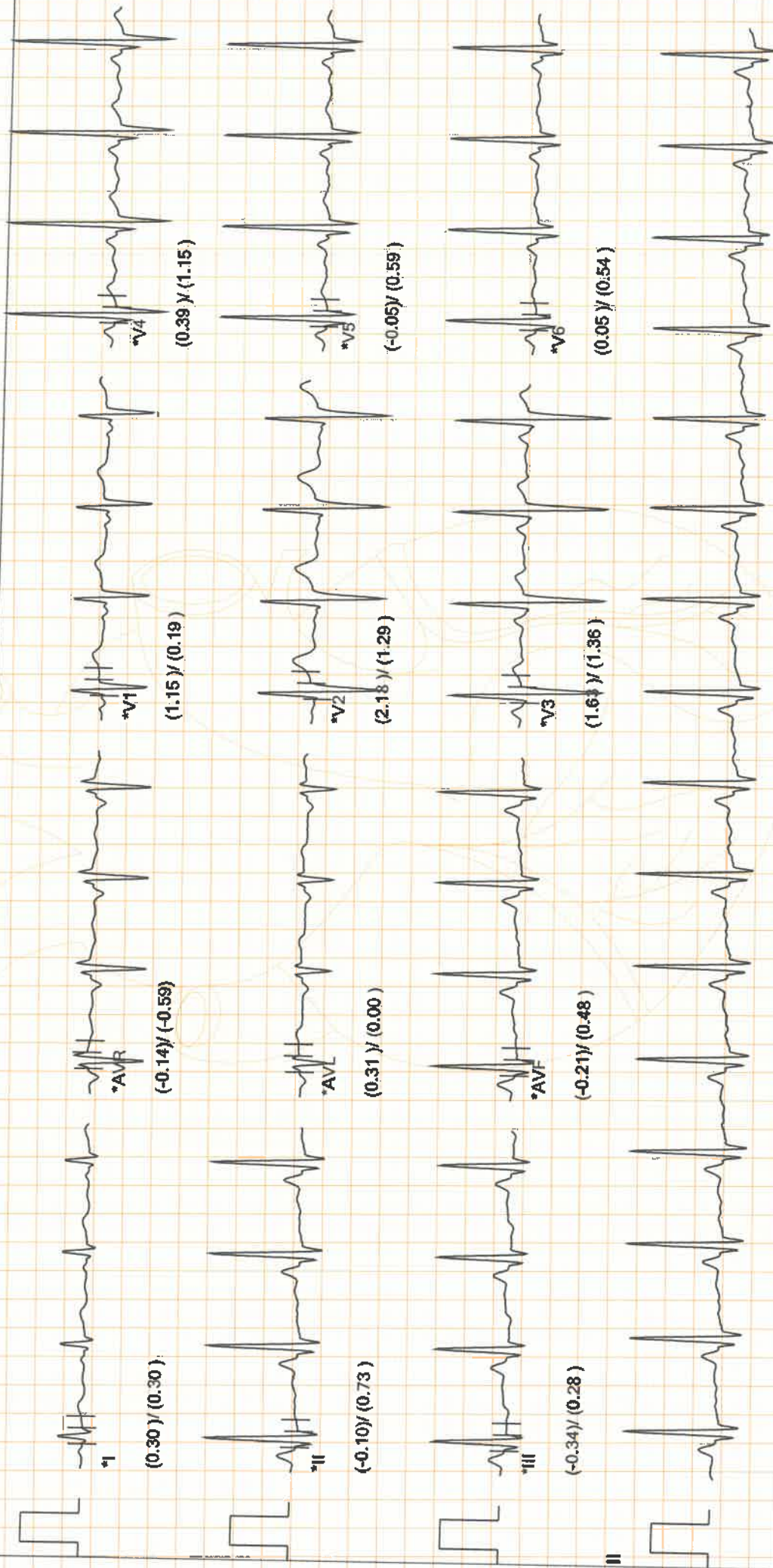
: 0.00

Doctor

: DR ABHASH JAIN

Tested on : 06/07/2023,04:40 PM

BPL DYNATRAC NEO



* Waveforms are computer synthesized.

Technician:

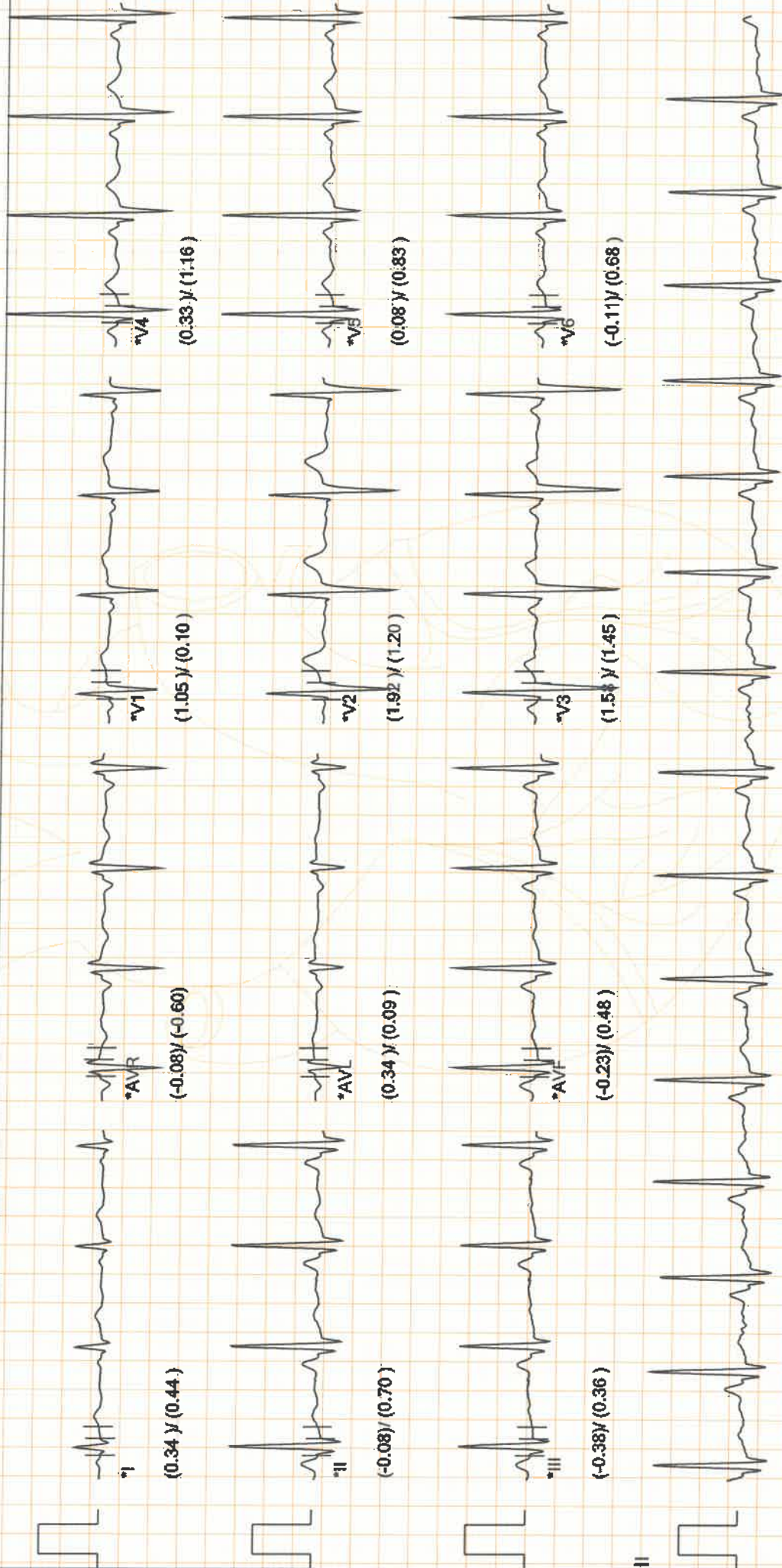
20Hz filter

Gain: 10mm/mV

Speed: 25mm/sec

ID : 36623868323 Stage : Supine Protocol : BRUCE
 NAME : DHARMEDRA PATEL Pre Test Time : 00:26 Speed(Km/h) : 0.0 Doctor : DR ABHASH JAIN
 AGE : 22 Stage Time : 00:26 Grade(%) : 0.00 Tested on : 06/07/2023,04:40 PM
 NIBP : 130/80(96) HR : 91 (45%) METS : 0.00 BPL DYNATRAC NEO

ST Level(mm), ST Slope (mV/sec) at 80ms PJ





SUVINOD SPEECH AND HEARING CLINIC

A COMPLETE REHABILITATION CENTER

In Front of Siyaram Sweets, Jabalpur Road, Teen Gulli Chouraha Damoh (M.P.)

Contact : 7999563955, 9685555630

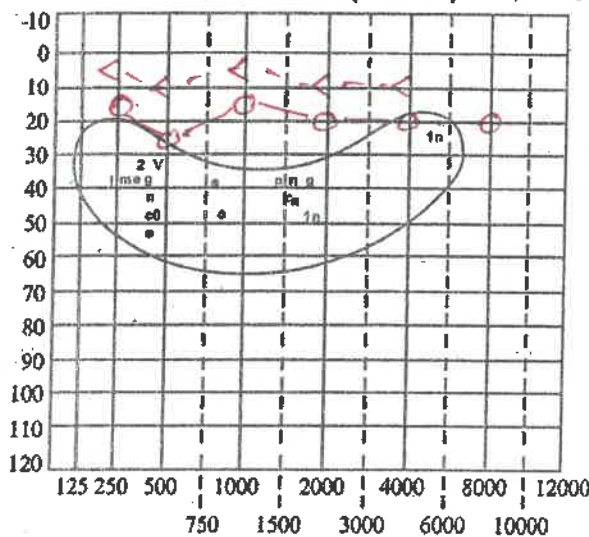
Email : suvinodspeechandhearing1827@gmail.com

AUDIOLOGICAL EVALUATION

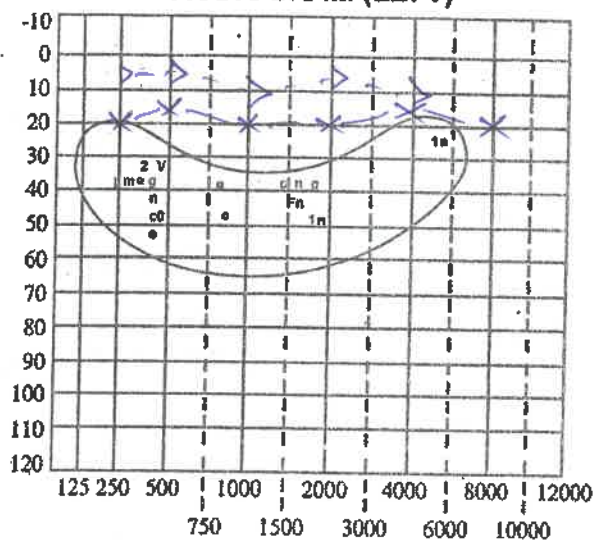
Name : Mr. Dharmendra Patel Age/Sex : 22y / M Date : 06/07/23

Regn No.: Referred by:

AUDIOGRAM (RIGHT)



AUDIOGRAM (LEFT)



Test	PTA
Right	20dB
Left	18.33dB

Audiological Interpretation

R/L - Hearing sensitivity within normal limit

Recommendations

Hearing Aid Trial -

Audiogram Key

Lt	AC	Rt
<input checked="" type="checkbox"/>	Unmasked	<input checked="" type="checkbox"/>
<input type="checkbox"/>	Masked	<input type="checkbox"/>
	No Response	
<input checked="" type="checkbox"/>	Unmasked	<input checked="" type="checkbox"/>
<input type="checkbox"/>	Masked	<input type="checkbox"/>
	B.C.	
<input checked="" type="checkbox"/>	Unmasked	<input checked="" type="checkbox"/>
<input type="checkbox"/>	Masked	<input type="checkbox"/>
	No Response	
<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>

Again
DR. ABHASH JAIN
 MBBS, DTCD(MUMBAI) AFIR
 CHEST SPECIALIST (MPMC-9297)
 CITY HOSPITAL, GUARD LANE
 MW-1, DAMOH (M.P.)

AKASH BADIYALITA
Akash
 Audiologist

- ♦ कान की संपूर्ण जाँच (ऑडियोमेट्री, बेरा, इम्पीडेन्स, OAE's Test) ♦ कान की मशीन (कान की संपूर्ण जाँच के बाद) ♦ ना दिखने वाली कान की मशीन
- ♦ स्पीच थेरेपी (हकलाना, तुलना बोल न पाना, विमाण की कमजोरी) ♦ बोल न पाना और सुन न पाने का संपूर्ण इलाज ♦ कान की आधुनिक मशीन में विशेष छूट



CITY



Dr. Mukul Raj Jain
(M.D.)

PATHOLOGY LABORATORY

CITY HOSPITAL, Guard Line, Damoh (M.P.) 470 661

TIMING : DAILY : 8:00 am to 8:00 pm

REG NO. : OPD / 9

AGE : 22 Years

NAME : Mr. Dharmendra

SEX : Male

REF. BY : Dr Abhash jain MBBS DTCD

DATE : 06/07/2023

BIOCHEMISTRY

TESTS	RESULTS	UNITS	REFERENCE RANGE
<u>LIPID PROFILE</u>			
<u>LIPID PROFILE</u>			
S. Cholesterol	: 162.0	mg/dl	125 - 225
S. Triglycerides	: 145.2	mg/dl	25 - 160
HDL Cholesterol(direct)	: 43.2	mg/dl	30 - 80
LDL Cholesterol	: 89.76	mg/dl	85 - 150
VLDL Cholesterol	: 29.04	mg/dl	7 - 35
LDLC/HDLC RATIO	: 2.08		2.5 - 3.5
TC/HDLC RATIO	: 3.36		3.0 - 5.0
S.Cholesterol/HDLC Ratio	: 3.75		

End of Report

Again
DR. ABHASH JAIN
MBBS, DTCD(MUMBAI) AFII
CHEST SPECIALIST (MPMC-9297)
CITY HOSPITAL, GUARD LANE
MW-1, DAMOH (M.P.)


Again
DR. ABHASH JAIN
MBBS, DTCD(MUMBAI) AFII
CHEST SPECIALIST (MPMC-9297)
CITY HOSPITAL, GUARD LANE
MW-1, DAMOH (M.P.)

For
Dr. Mukul Raj Jain (MD)
Reg. No. MP-10881

Note : Pathological test have technical limitation. In case of disparity test may be repeated immediately clinical correlation is also requested.

Remark

Pathologist
Pathologist

	Occupational Health Center JK Cement Works, Amanganj Employee Health Card	Print Date : 18-Oct-2023 10:40 AM Page No. : 1 of 4
---	--	--

Employee Details :	
Report No : Aman/PMC/2023/00032	Employee Name : Ankit Pandey (180458)
Category : Agency Employees	Agency / Plant/Site : Hilman
Department : Accounts	Dispensary : Amanganj
Designation : Assistant Officer - Accounts	Contact # : 7509228938
Blood Group :	Age : 27

PeriodicCheckup Details :	
Medical CheckUp Date : 09-Sep-2023	Fitness Status : Fit
Validity Date : 09-Sep-2024	

Check Up For	Results	Unit	Reference Interval
<u>Physical Examination</u>			
X-Ray (Chest)	Normal		
HEIGHT	164	CM	
WEIGHT	64	KG	
B.M.I	23.80	Kg/m2	18 - 25 Kg/m2
Pulse	74	B/M	
BLOOD PRESSURE	115/72	mmHg	
SPO2	99	%	
Respiration Rate	20	B/M	18 - 22 B/M
Temperature	96.8	°F	
THORAT DISEASE/MUMES	Normal		
SKIN DISEASE	Normal		
Heart Sound	S1S2+		
ECG	Normal		
LUNGS DISEASE(SELF OR FAMILY HISTORY)	Normal		
SPIROMETERY	Normal		
AUDIOMETRY	Normal		
EYE-VISION	-		
COLOUR VISION-LEFT	N/6		
COLOUR VISION-RIGHT	N/6		

Bio Chemistry

Medical CheckUp Date : 09-Sep-2023

Fitness Status : Fit

Validity Date : 09-Sep-2024

Calcium	9.9	mg/dl	8.6 - 10.2 mg/dl
S. BILIRUBIN TOTAL	0.8	mg/dl	0 - 1.2 mg/dl
S. BILIRUBIN (DIRECT)	0.4	mg/dl	0 - 1.2 mg/dl
SGOT(AST)	32	u/l	0 - 40 u/l
SGPT(ALT)	36	u/l	0 - 40 u/l
ALKALINE PHOSPHATASE(ALP)	89	u/l	42 - 98 u/l
Albumin	4.8	mg/dl	3.5 - 5.1 mg/dl
BLOOD UREA	29	mg/dl	10 - 40 mg/dl
SERUM CREATININE	0.7	mg/dl	0.5 - 1.2 mg/dl
URIC ACID	6.4	mg/dl	2.7 - 7.2 mg/dl
SERUM CHOLESTEROL	238 (H)	mg/dl	150 - 200 mg/dl
HDL CHOLESTEROL	41	mg/dl	30 - 50 mg/dl
LDL CHOLESTEROL	172.6 (H)	mg/dl	50 - 100 mg/dl
VLDL CHOLESTEROL	24.4	mg/dl	5 - 34 mg/dl
SERUM TRIGLYCERIDES	122 (L)	mg/dl	150 - 199 mg/dl
BLOOD SUGAR (R)	113	mg/dl	70 - 150 mg/dl
HbA1c	5.0	%	0 - 6 %

CBC

GRAN	3.48	10 ⁹ /L	2.5 - 7.5 10 ⁹ /L
GRAN%	60.2	%	50 - 75 %
HCT	41.8	%	36 - 52 %
HGB	14.0	gm/dl	12 - 17.5 gm/dl
LYM	2.00	10 ⁹ /L	1.3 - 4 10 ⁹ /L
LYM%	34.6	%	25 - 40 %
MCH	25.3 (L)	pg	27 - 32 pg
MCHC	33.4	gm/dl	30 - 35 gm/dl
MCV	75.7 (L)	fl	76 - 96 fl
MID	0.30	10 ⁹ /L	0.15 - 0.7 10 ⁹ /L
MID%	5.2	%	3 - 7 %
PLT	242	10 ⁹ /L	150 - 450 10 ⁹ /L
RBC	5.52 (H)	10 ¹² /L	4 - 5.5 10 ¹² /L

(C.M.O/M.O)

This Report Not Valid For Medico - Legal Purpose

Medical CheckUp Date : 09-Sep-2023

Fitness Status : Fit

Validity Date : 09-Sep-2024

WBC	5.78	10 ⁹ /L	3.5 - 10.5 10 ⁹ /L
-----	------	--------------------	-------------------------------

HAEMATOLOGY

ESR	04	mm/hr	0 - 20 mm/hr
-----	----	-------	--------------

URINE EXAMINATION

pH	6.4		
Specific Gravity	1.010		
Sugar	NIL		
TOTAL PROTEIN	NIL		
Pus Cells	1-2		
Epithelial Cells	2-3		
RBC	NIL		

Test Remarks

B.M.I : Normal range

Advice/Remarks

NO

Attachment(s)

Sr. #	File Name(s)
1	ECG ANKIT PANDEY.pdf
2	ANKIT PANDEY.pdf
3	ANKIT PANDEY 180458.pdf
4	ankit panday.pdf

Reference

HbA1C(Glycosylated hemoglobin) Blood(HPLC)

ADD CRITERIA FOR CORRELATION BETWEEN HbA1C & MEAN PLASMA GLUCOSE LEVELS

HbA1C(%)	MEAN PLASMA GLUCOSE(mg/dl)
6	126
7	154
8	183
9	212



Occupational Health Center
JK Cement Works, Amanganj
Employee Health Card

Print Date : 18-Oct-2023 10:40
AM
Page No. : 4 of 4

10

240

11

269

12

298

Below 6.0% - Normal Value

6.0% - 7.0% - Good Control

7.0% - 8.0% - Fair Control

8.0% - 10.0% - Unsatisfactory Control

Above 10.0% - Poor Control

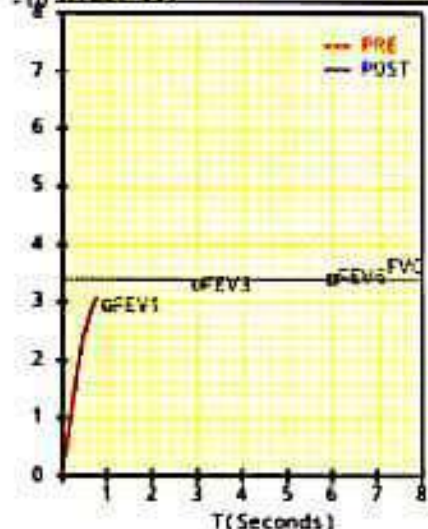
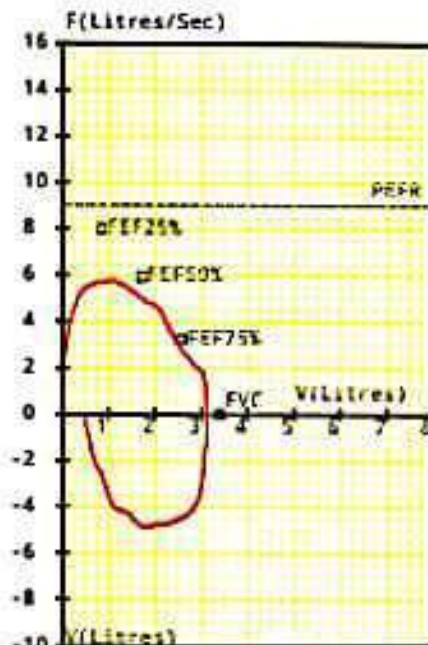
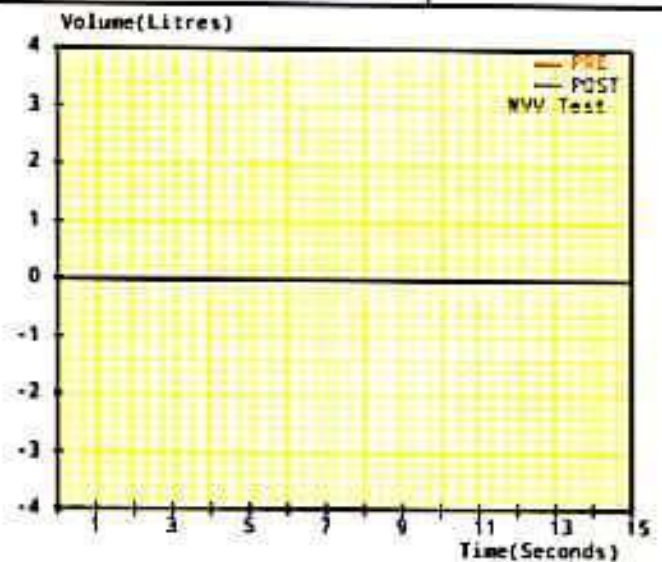
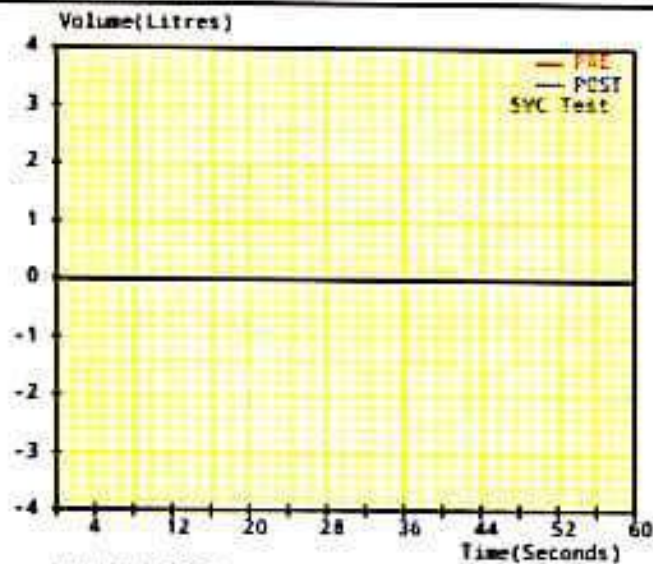
JK CEMENT OHC PANNA

JK CEMENT AMANGNAJ PANNA

Patient: ANKIT PANDEY
Refd. By: Dr. Pradeep Sharma
Pred. Eqns: RECORDERS
Date : 09-Sep-2023 10:41 AM

Age : 25 Yrs
Height : 165 Cms
Weight : 64 Kgs
ID : 180458

Gender : Male
Smoker : No
Eth. Corr: 100
Temp : 38°C



Spirometry Results

Parameter	Pred	M.Pre	%Pred	M.Post	%Pred	%Imp
FVC (L)	03.41	01.10	041	---	---	---
FEV1 (L)	02.94	03.10	105	---	---	---
FEV1/FVC (%)	86.22	100.00	116	---	---	---
FEF25-75 (L/s)	04.52	04.98	110	---	---	---
PEFR (L/s)	09.02	05.77	064	---	---	---
FIVC (L)	---	01.67	---	---	---	---
FEV.5 (L)	---	02.48	---	---	---	---
FEV3 (L)	03.31	03.10	094	---	---	---
PIFR (L/s)	---	04.83	---	---	---	---
FEF75-85 (L/s)	---	02.97	---	---	---	---
FEF.2-1.2(L/s)	07.66	05.33	070	---	---	---
FEF 25% (L/s)	08.00	05.67	071	---	---	---
FEF 50% (L/s)	05.94	05.21	088	---	---	---
FEF 75% (L/s)	03.26	03.60	110	---	---	---
FEV.5/FVC (%)	---	80.00	---	---	---	---
FEV3/FVC (%)	97.07	100.00	103	---	---	---
FET (Sec)	---	00.78	---	---	---	---
ExpTime (Sec)	---	00.09	---	---	---	---
Lung Age (Yrs)	025	024	096	---	---	---
FEV6 (L)	03.41	---	---	---	---	---
FIF 25% (L/s)	---	03.92	---	---	---	---
FIF 50% (L/s)	---	04.70	---	---	---	---
FIF 75% (L/s)	---	04.52	---	---	---	---
SVC (L)	---	---	---	---	---	---
IRV (L)	01.51	---	---	---	---	---
IRV (L)	---	---	---	---	---	---
VE (L/min)	---	---	---	---	---	---
RI (1/min)	---	---	---	---	---	---
Ti (sec)	---	---	---	---	---	---
Te (sec)	---	---	---	---	---	---
VT (L)	---	---	---	---	---	---
VT/Ti	---	---	---	---	---	---
Ti/Ttot	---	---	---	---	---	---
IC (L)	---	---	---	---	---	---
WV (L/min)	139	---	---	---	---	---
WRF (1/min)	---	---	---	---	---	---
WVT (L)	---	---	---	---	---	---

Pre Medication Report Indicates

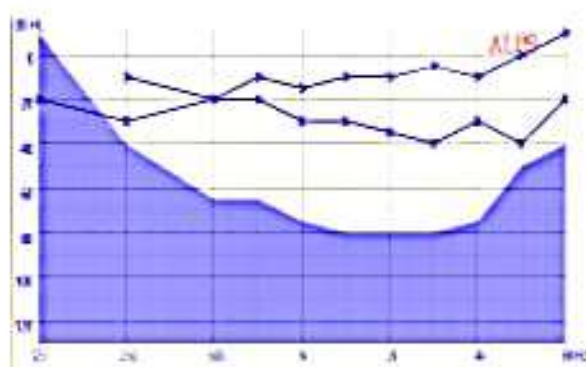
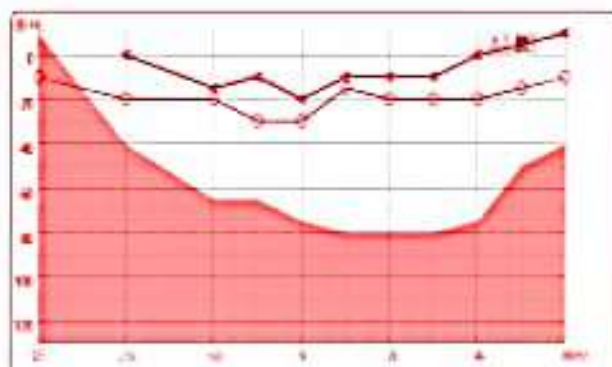
Early Small Airway Obstruction as FEF 25-75 %Pred or PEF25 %Pred < 70
Spirometry within normal limits as (FEV1/FVC)%Pred > 95 and FVC%Pred >

Dr. Pradeep Sharma

Create date 09-Sep-2023
Client ID 25
Name Mr. ANKIT PANDEY
DOB 03 April 1996
Mobile 7509228938

Test date 09-Sep-23

Audiogram



	125Hz	250Hz	500Hz	750Hz	1kHz	1.5kHz	2kHz	3kHz	4kHz	6kHz	8kHz
L-AC HTL	20	30	20	20	30	30	35	40	30	40	20
R-AC HTL	10	20	20	30	30	15	20	20	20	15	10
L-BC HTL		10	20	10	15	10	10	5	10	0	-10
R-BC HTL		0	15	10	20	10	10	10	0		-10

Right	Audio Key	Left
O	AC - HTL	X
M	AC - MCL	M
m	AC - UCL	m
<	BC - HTL	>
O	FF - HTL	X
△	AC - Masked	□
	BC - Masked	

	500Hz	1kHz	2kHz	4kHz
SISI				
ABLB				

	Right	Left
SRT		
SDS		
UCL		

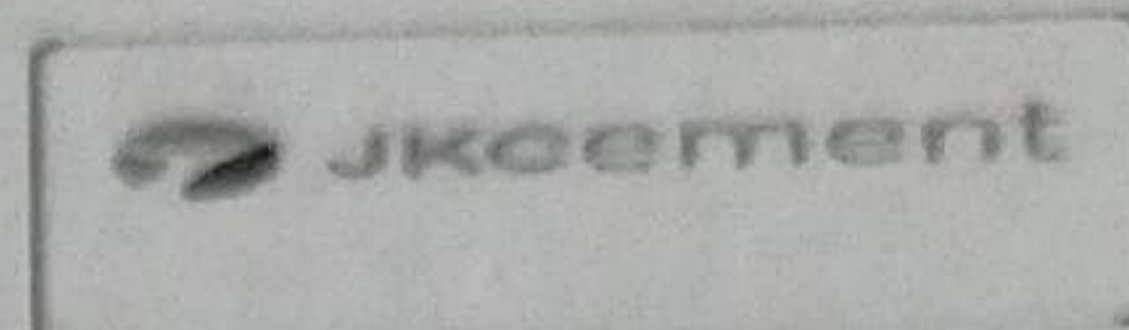
Audiological Interpretation

Left : Left: NORMAL HEARING

Right : Right: NORMAL HEARING

Recommendation : Recommendation;

Remarks : Remarks: FIT



FORM-35

[Prescribe under sub rule (4) of rule 66- A

Record of Eye – Examination

Serial No.....

Date 09/09/2023

1. Name of the Factory

J.K. CEMENT PLANT

2. Department /Works where
the Worker is employed.

ACCOUNTS

3. Name of worker

Mr. ANKIT PANDEY

4. Sex

MALE

5. Age

25 yrs

6. Nature of work

ASSISTANT OFFICER - ACCOUNTS

7. Date of employment

12/08/2023

8. Result of examination of eye sight

N/V - N/6 without glass
D/V N/6 without glass. } Both eye

9. Colour Vision

NORMAL

10. Remarks,

fit

11. Signature of Ophthalmologist

Dr. A. A. Siddiqui
MBBS, MS
Ex. Senior Eye Consultant
Distt. Hospital Satna
Reg. No. 3490



Jaykaycem (Central) Ltd.

(CIN: U72305UP1987PLC009162)

(Wholly Owned Subsidiary of JK Cement LTD.)

Phone : +91-512-2371478 to 81
 Fax (Office) : +91-512-2399854
 Telefax : +91-512-2332665
 E-mail : prabhat.srivastava@jkcement.com

Registered Office :
 Kamla Tower, Kanpur-208 001 (U.P.) INDIA

JAYKAYCEM (CENTRAL) LIMITED

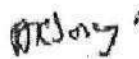
CORPORATE ENVIRONMENT POLICY

“Jaykaycem (Central) Limited” is an energy and environmental conscious organization. Our environment policy is representation of Company’s vision towards sustainable Development and green business ambitions to make net positive contributions to People, Planet and Stakeholders-and compliance of all applicable environmental laws. We are committed to ensure continuous improvement of environmental performance through:

1. Optimum and sustainable extraction & utilization of natural resources.
2. Conducting all the activities & operation of the company in accordance with all applicable environmental laws, regulations and applicable codes of standards.
3. Implementation of state of the art technology to minimize the impact on environment.
4. Continuous efforts to reduce the GHG emission by use of AFR & agro waste, use of green power (RE and waste heat recovery systems), use of alternative blending materials in cement, energy efficiency measures and implementation of feasible innovative technologies.
5. Continuous efforts to minimize the fresh water utilization via rain water harvesting, recycling & reuse of waste water and contributing towards water positivity and neutrality.
6. Implementation of environmental management plan to minimize or prevent the release of pollutants to the environment (air, water, and soil) by our operations and compliance of applicable environmental legislations.
7. Greenbelt development for improvement in local bio-diversity and conservation through association with local communities, authorities and other stakeholders.
8. Involving the Employees, Suppliers, Vendors, Customers, Clients and other Business Associates to promote awareness among them for their responsibility to achieve our sustainable Goals.
9. Creating awareness among all stakeholders including employees, customers, vendors and supplier for environmental issues as well as compliance of relevant environmental legislation.
10. Reporting of compliances, non-compliances and violations of environmental norms to the concerned authority and also to our stakeholders with measures to address such non-compliance on priority.

For Jaykaycem (Central) Ltd.

Date: 25th May 2021


 Ajay Kumar Saraogi
 Managing Director



Sites:

Villages : Kakra, Kamtana, Judi, Saptai, Devri-Purohit, Devra, Tehsil – Amanganj, District – Panna, M.P. INDIA.
 Village : Ingotha, Tehsil: Hamirpur, District: Hamirpur, U.P. INDIA

ENVIRONMENT MANAGEMENT SYSTEM

1. LEGAL & OTHER REQUIREMENTS

- a) IMS certification and establishment a procedure to identify, access and update legal and other requirements that are applicable to the environmental aspects / impacts. The list of legal and other requirements applicable to our operations are maintained separately and are communicated to our stakeholders. Main legal requirements are as follows:

- Environmental, Forest and Wildlife acts & rules
- Mines acts & rules
- Factory acts & rules
- Boiler acts & rules

2. OPERATIONAL CONTROL PROCEDURES

- a) We have identified our operations and activities that are associated with Environmental aspects and OHS risks in line with our Environmental Policy.

- We have established and maintained SOP's to check out the deviations from Environment Management System.
- We have maintained rule and regulation register comply with legal and other requirement.
- We ensure to review control measures and SOP's on regular intervals, effectiveness of system checked by IMS audit and necessary implement.

- b) Relevant Operation Control Measures

- Limestone mines operation- Wet drilling, controlled blasting, maintenance of HEMM, dry fog system at crusher, maintenance and water spray on haul roads etc.
- Clinkerization- Covered storage of raw materials & fuel, Silos for storage of clinker and cement, use of high efficient pollution control measures such as ESP, Bag house, bag filters at all transfer points, coved conveyors, De-NOx system, concreting roads and movement area, vacuum sweeping, etc.
- AFR/Plastic Waste Handling System: "State of the Art", fully automated co-processing facilities for receiving, pre-processing, shredding and feeding system of all types of waste materials such as plastic waste, Agro waste, FMCG waste, RDF/SCF/MSW, industrial solid waste mix and liquid waste mix etc.
- Cement Grinding & Packing- Bag Filters at all transfer points, storage of fly ash in silo and pneumatic Fly ash handling, automatic bag filing machines, use of tarpaulin to each truck and wagon and vacuum sweeping machine.
- Utility operation- Management of waste/used oil, oily wastes and management by 100% recycling/ sold to authorized recycler in process to maintain ZLD and treatment of domestic sewage water in STP to use for plantation and process.



Jaykaycem (Central) Ltd.

(CIN: U72305UP1987PLC009162)

(Wholly Owned Subsidiary of JK Cement LTD.)

Phone : +91-512-2371478 to 81
Fax (Office) : +91-512-2399854
Telefax : +91-512-2332665
E-mail : prabhat.srivastava@jkcement.com

Registered Office :
Kamla Tower, Kanpur-208 001 (U.P.) INDIA

- General- Dust control by good housekeeping & maintenance, use of dust extraction and recycling systems to remove dust from work areas, contractor activities and task observations. Use of proper personal protective equipment (PPE).
- Plantation in the project area, colony, Quarry and nearby area with native species.

Date: 25th May 2021

For Jaykaycem (Central) Ltd.

Ajay Kumar Saraogi
Managing Director



Sites:

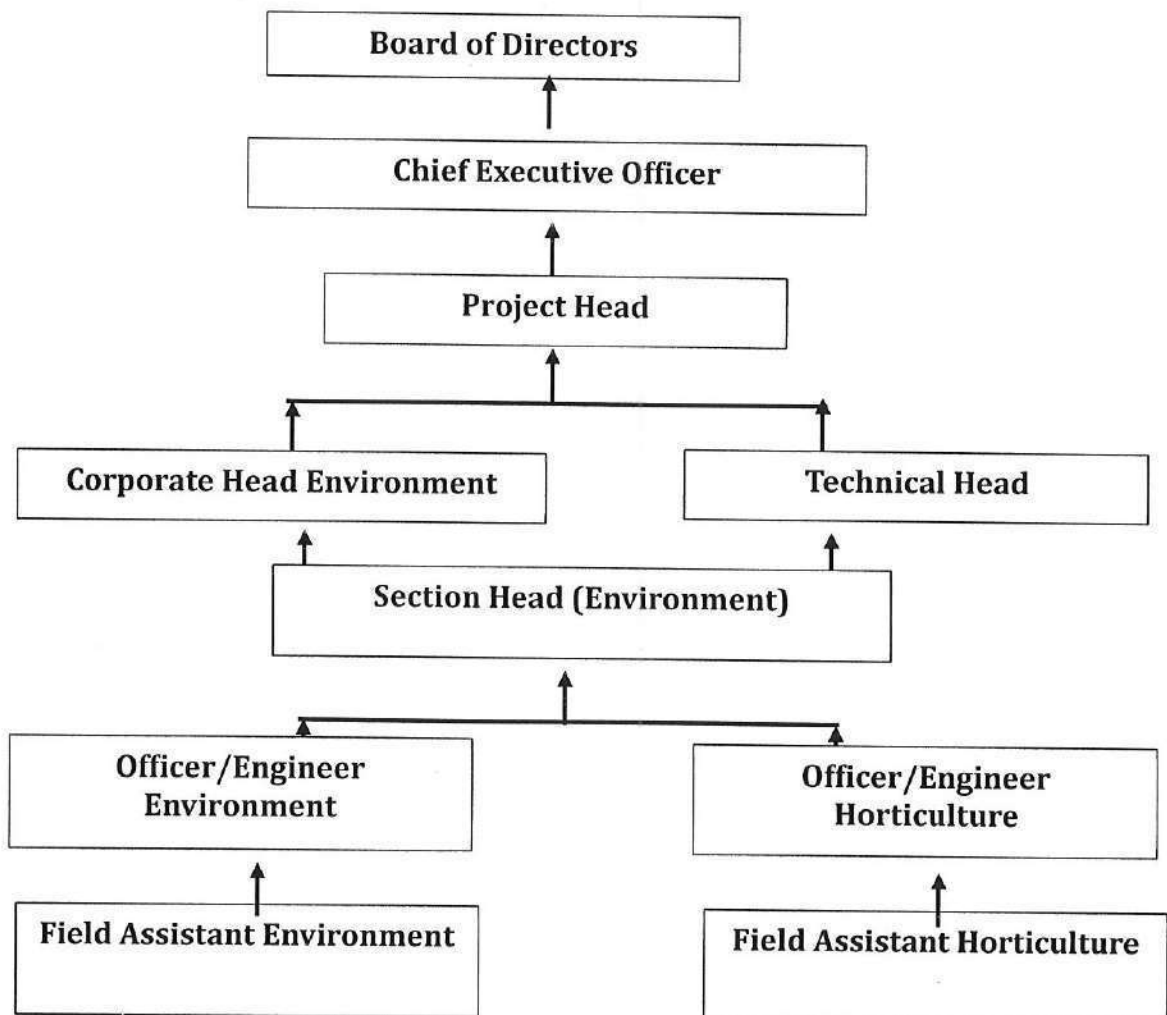
Villages : Kakra, Kamtana, Judi, Saptai, Devri-Purohit, Devra, Tehsil – Amanganj, District – Panna, M.P. INDIA.

Village : Ingotha, Tehsil: Hamirpur, District: Hamirpur, U.P. INDIA

3. ROLES & RESPONSIBILITIES FOR EMS

Roles and responsibilities of various personnel, who manage, perform and verify the activities and their impacts on environment and/or OH&S have been defined by the top management as per hierarchy or administrative order by board of directors.

The below organizational structure Management Cell is responsible for any non-compliance/ infringement/ deviation/ violation of the environmental or forest norms under the supervision of Board of Directors.



For Jaykaycem (Central) Ltd.

Date: 25th May 2021


Ajay Kumar Saraogi
Managing Director

Jaykaycem (Central) Ltd.

GSTIN-23AABCJ4401G2Z6

CIN:U72305UP1987PLC009162

Regd Office : Kamla Tower
Kanpur-208001 (India)Project Office : My Home Residency
Opp. Essar Petrol Pump, Katni Road
Amanganj - 488441 Panna (M.P.)

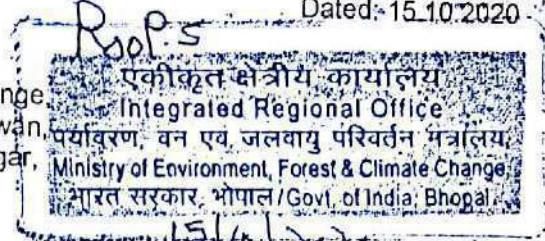
Ref. No. PN/EMD/MoEF/F 01/024

To,

Regional Officer,

Ministry of Environment, Forest and Climate Change
Regional Office (WZ), Kendriya Paryavaran Bhawan,
E-5 Arera Colony, Link Road-3, Ravishankar Nagar,
Bhopal - 462 016, Madhya Pradesh (India)

Dated: 15.10.2020



Subject – Information regarding grant of Environment Clearance of our Proposed Integrated Cement Plant & Limestone Mines with Capacity of 5.28 MTPA Clinker Production (2.64 MTPA X 2 Phases), 6.00 MTPA Cement Production (3 MTPA X 2 Phases), 80 MW Captive Power Plant (40 MW X 2 Phases), 30 MW WHRS Plant (15 MW X 2 Phases), 500 kVA DG Set and Limestone Mines Capacity 4.08 MTPA, area 1594.34 Ha. at Villages - Harduaken, Puraina, Sotipura, Madayyan, Kakra, Kamtana, Saptai, Judi, Devri Purohit & Devra Tehsil: Amanganj, District Panna (M.P.).

Ref: 1. EC Letter No. IA-J/11011/224/2016-IA.II (I), dated: 14.10.2020.
2. EC Letter No. J/11015/190/2016-IA.II (M), dated: 31.08.2020.

Sir,

With reference to the aforesaid subject and references, we would like to inform you that, we have obtained the Environmental Clearance (As per MoEFCC, New Delhi, EIA notification 2006) of our proposed projects of Integrated Cement Plant & Limestone Mines at Villages - Harduaken, Puraina, Sotipura, Madayyan, Kakra, Kamtana, Saptai, Judi, Devri Purohit & Devra Tehsil: Amanganj, District Panna (M.P.).

Thanking you with regards

Yours faithfully,

For M/s. Jaykaycem (Central) Limited

Aditya Pratap Singh

Authorized Signatory

**Encl.: As above reference copy of EC Letters.**

CC: 1. Regional Director, CPCB, Zonal Office, Pariyavan Parishar, Arera Colony, Bhopal (MP)

2. Member Secretary, MPPCB, E-5, Pariyavan Parishar, Arera Colony, Bhopal (MP)

3. Regional Officer, Regional Office, Makronia, MPPCB, Sagar (MP)



Phone : +91-512-2371479 to 81. Fax : +91-512-2399854.

E-mail : admin@jkccements.com

EC Information by Speed Post to Local Bodies & Gram Panchayat
Dated 15.10.2020

EI285081351IN IVR:6973285
SP C.T.T.NAGAR H.O (462003)
Counter No:7,15/10/2020,14:32
To:AKUNIDHAGIY ADHIKARI,GUNOR
PIN:488099, Gunour S.O
From:JAYKAYDEM C,REVERA TOWN
Wt:75gms
Amt:47.20(Cash)Tax:7.20



(Track on www.indiapost.gov.in)
(Dial 18002666868) (Wear Masks, Stay Safe)

EI285081229IN IVR:6973285
SP C.T.T.NAGAR H.O (462003)
Counter No:7,15/10/2020,14:32
To:CHIEF EXECUTIVE OFFICER,-
PIN:488001, Panna MDG S.O
From:JAYKAYDEM C,REVERA TOWN
Wt:85gms
Amt:47.20(Cash)Tax:7.20



(Track on www.indiapost.gov.in)
(Dial 18002666868) (Wear Masks, Stay Safe)

EI285081348IN IVR:6973285
SP C.T.T.NAGAR H.O (462003)
Counter No:7,15/10/2020,14:32
To:CHIEF MANAGER,JILA VYAPAR
PIN:488001, Panna MDG S.O
From:JAYKAYDEM C,REVERA TOWN
Wt:85gms
Amt:47.20(Cash)Tax:7.20



(Track on www.indiapost.gov.in)
(Dial 18002666868) (Wear Masks, Stay Safe)

EI285081365IN IVR:6973285
SP C.T.T.NAGAR H.O (462003)
Counter No:7,15/10/2020,14:32
To:SARPANCH SACHIV,-
PIN:488448, Shahnagar S.O
From:JAYKAYDEM C,REVERA TOWN
Wt:65gms
Amt:47.20(Cash)Tax:7.20



(Track on www.indiapost.gov.in)
(Dial 18002666868) (Wear Masks, Stay Safe)

EI285081491IN IVR:6973285
SP C.T.T.NAGAR H.O (462003)
Counter No:7,15/10/2020,14:32
To:THE COLLECTOR SB,-
PIN:488001, Panna MDG S.O
From:JAYKAYDEM C,REVERA TOWN
Wt:80gms
Amt:47.20(Cash)Tax:7.20
(Track on www.indiapost.gov.in)
(Dial 18002666868) (Wear Masks, Stay Safe)



EI285081232IN IVR:6973285
SP C.T.T.NAGAR H.O (462003)
Counter No:7,15/10/2020,14:32
To:SARPANCH
PIN:488441, Amanganj S.O
From:JAYKAYDEM C,REVERA TOWN
Wt:85gms
Amt:47.20(Cash)Tax:7.20
(Track on www.indiapost.gov.in)
(Dial 18002666868) (Wear Masks, Stay Safe)



EI285081246IN IVR:6973285
SP C.T.T.NAGAR H.O (462003)
Counter No:7,15/10/2020,14:32
To:SARPANCH SACHIV,DEVRA
PIN:488220, Ajaigarh S.O
From:JAYKAYDEM C,REVERA TOWN
Wt:85gms
Amt:47.20(Cash)Tax:7.20



देवरा

47.20/-



Jaykaycem (Central) Ltd.
(Wholly Owned Subsidiary of JK Cement Ltd.)
Integrated Cement Manufacturing Unit
Village : Harduwakan, Tehsil: Amanganj,
District: Panna, M.P., India, Pin - 488441
CIN: U72305UP1987PLC009162
☎ 9329141591
✉ jkc.panna@jkcement.com

Ref: JK/CTO-(Plant)/2023-24/19/02

Date- 27.09.2023

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

Subject: Environment Statement Report (Form-V) for FY. 2022-23 of M/s Jaykaycem (Central) Limited, Plot. No. Various khasra at Village- Devra, Harduaken, Puraina, Sotipura, Maddayan, Amanganj-Hata Road, Tahsil-Amanganj (Old Pawai), District- Panna

Reference No.:

- 1- Environment Clearance vide no IA-J-11011/224/2016-IA. II (I) dated 02.03.2022
- 2- CTO- AWH-56455, Valid up to (Air/Water)- 30/09/2025, (Hazardous)- 30/06/2027


Dear sir,

With reference to aforesaid subject, please find herewith enclosed Environment Statement Report (Form-V) for FY. 2022-23 of M/s Jaykaycem (Central) Limited, Plot. No. Various khasra at Village- Devra, Hrduaken, Puraina, Sotipura, Maddayan, Amanganj-Hata Road, Tahsil-Amanganj (Old Pawai), District- Panna.

This is for your kind information and record, please.

Thanking you.
Yours faithfully,

For Jaykaycem (Central) Limited


Kapil Agrawal
(Unit Head)

Encl: As above

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

Integrated Cement Manufacturing Unit
Village : Harduwakan, Tehsil: Amanganj,
District: Panna, M.P., India, Pin - 488441
☎ 9329141591
✉ jkc.panna@jkcement.com

**JK SUPER
CEMENT**
BUILD SAFE

Grinding Unit :
Village Ingotha, District : Hemirpur, Uttar Pradesh, India, Pin - 210341

**JK SUPER
STRONG**
BUILD SAFE

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



Saurabh Kumar Yadav

From: Saurabh Kumar Yadav
Sent: 20 July 2023 14:04
To: 'rowz.bpl-mef@nic.in'
Cc: 'dirind-moefcc@gov.in'
Subject: Information regarding date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by for Kakra-Panna Limestone Mine of M/s Jaykaycem (Central) Limited
Attachments: SAdmin Buil23072013120.pdf

To,
 The 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: Information regarding date of financial closure, final approval of project by concerned authorities and date of start of land development work for Kakra-Panna Limestone Mine of M/s Jaykaycem (Central) Limited, located at Villages Kakra, Kamtana, Saptai, Judi, Devri Purohit & Devra, Tehsil Amanganj, District Panna of State Madhya Pradesh

Reference No.: 1- Environment Clearance vide no F. No. J-11015/190/2016-IA. II (M) dated 31st August 2020, (EC condition no. XI- Miscellaneous. 35)
 2- Corrigendum in EC vide letter No. J-11015/190/2016-IA.II (M) dated 8th March, 2021

Dear sir,

With reference to aforesaid subject, we would like to inform you that the date of financial closures will be 31.03.2024. Final approval date viz. lease grant date is 17.03.2016 & 03.05.2016 and registration date is 23.09.2020. Project Land development work had been started from 30.01.2023.

Copy of signed intimation letter is attached for your kind information and record, please.

Thanking you.
 Yours faithfully,

For Jaykaycem (Central) Limited

Dr. Saurabh Kumar
 Dy. General Manager (Environment)



Jaykaycem Central Limited
 Village- Harduwaken, Tahsil- Amanganj,
 District- Panna

Email- saurabh.yadav1@jkcement.com Web:- www.jkcement.com

Mob.: +91 9686502172

Ref: Jaykaycem/Env./Corres./2023-24/07/02

Date- 19.07.2023

To,
The 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: Information regarding date of financial closure, final approval of project by concerned authorities and date of start of land development work for Kakra-Panna Limestone Mine of M/s Jaykaycem (Central) Limited, located at Villages Kakra, Kamtana, Saptai, Judi, Devri Purohit & Devra, Tehsil Amanganj, District Panna of State Madhya Pradesh

Reference No.: 1- Environment Clearance vide no F. No. J-11015/190/2016-IA. II (M) dated 31st August 2020, (EC condition no. XI- Miscellaneous. 35)

2- Corrigendum in EC vide letter No. J-11015/190/2016-IA.II (M) dated 8th March, 2021

Dear sir,

With reference to aforesaid subject, we would like to inform you that the date of financial closures will be 31.03.2024. Final approval date viz. lease grant date is 17.03.2016 & 03.05.2016 and registration date is 23.09.2020. Project Land development work had been started from 30.01.2023.

This is for your kind information and record, please.

Thanking you.
Yours faithfully,

For Jaykaycem (Central) Limited



Kapil Agrawal
(Unit Head)

CC: The Director, Ministry of Env., Forest and Climate Change, Indira Paryavaran Bhavan,, Jor Bagh Road, Aliganj, New Delhi-11003

