

Ref. No. - JK/HGU/71

Date: 26/11/2024

To,

The Deputy Director General of Forest (C)

Integrated Regional Office,

Kendriya Bhawan, 5 th Floor, Sector-H,

Aliganj, PIN Code: - 226020, Lucknow (UP) E. mail: - roc.z.lko-mef@nic.in

Subject - Half Yearly Environmental Clearance Compliance Report of Cement (Clinker) GU (J K Cement Ltd Hamirpur) Cement Production Capacity 2 MMTPA & DG Sets Capacity 1250 kVA & 125 kVA at Village: Ingohata, Tehsil & District: Hamirpur(UP) for the period Apr.24 – Sept.24.

Ref. No. EC Letter No. 202/Parya/SEIAA/6109/2021, Dated 29/09/2021.

Dear Sir,

With reference to aforesaid subject and reference matter, we are hereby submitting soft EC compliance report along with annexures of specific and general conditions laid down in above specified EC of JK Cement Ltd, Hamirpur, at Village: Ingohata, Tehsil & District: Hamirpur (UP) for the period from Apr. 2024 – Sept.2024.

Thanking you,

Yours faithfully,  
JK CEMENT LTD, HAMIRPURDr. Sachin Gupta  
(Unit Head)

Encl: As above

## 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 SAFEJK CEMENT  
**WallMaxX**  
White Cement Wall Putty


## Manufacturing Units at :

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


### Environmental Clearance Conditions Compliance Report

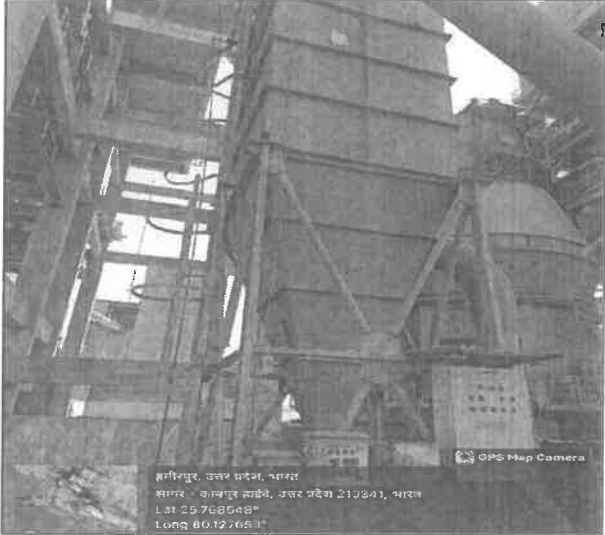
Environmental Clearance for Proposed Cement (Clinker) Grinding Unit Capacity of 2.0 million TPA (7200 TPD PPC/OPC/PSC/Composite Cement) and D.G. Sets (1250 kVA & 125 kVA) at Village - Ingotha, Pargana - Sumerpur, District – Hamirpur (UP), M/s J.K. Cement Ltd.



Ref. No 202/Parya/SEIAA/6109/2021, Dated: 29 September 2021



<u>C. No.</u>	<u>S. No.</u>	<u>Name of Compliance</u>	<u>Action</u>
	I.	Allergy tests should also be included in health check-ups.	Health checkups of the workers are conducted regularly.
	II.	02 nos. of Organic waste converter of 15 tons capacity each should be installed.	 Organic waste converter with adequate capacity has been provided to treat Kitchen waste.
	III.	Project Proponent should submit the plan for bird conservation and their habitats	Complied With (Bird Conservation Plan attached as per <b>Annexure no. 1</b> )
	IV.	Transportation plan should be submitted within 03 months.	Complied With (Transportation Plan attached as per <b>Annexure no. 2</b> )
	V. Statutory compliance		
	i.	The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for nonforest purpose involved in the project.	Not Applicable. Forest NOC issued vide Letter No. 247/33-1/, Hamirpur dated 02.08.2021 enclosed as <b>Annexure no. 3.</b>

	ii.	The project proponent shall obtain clearance from the National Board for Wildlife, if applicable	Not Applicable
	iii.	The project proponent shall prepare a Site-Specific Conservation Plan & Wildlife Management Plan and be approved by the Chief Wildlife Warden. The recommendations 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. (in case of the presence of schedule-I species in the study area).	Not Applicable
	iv.	The project proponent shall obtain Consent to Establish/ Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State pollution Control Board/ Committee.	Complied. CCA (Consolidated Consent & Authorization) obtained from UPPCB vide letter No. 194987/UPPCB/BANDA (UPPCBRO)/CTO/BOTH/HAMIRPUR/2023 dated 19.12.2023 is enclosed as <b>Annexure no. 4.</b>
	v.	The project proponent shall obtain the necessary permission from the Central Ground Water Authority, in case of drawl of ground water from the competent authority concerned in case of drawl of surface water required for the project.	Complied. UPGWD NOC for ground water withdrawal of 200 KLD obtained vide NOC NO- 35062 and NOC NO 031442 dated 08.01.2022 copy of the same enclosed as <b>Annexure no. 5.</b>
	vi.	The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules, 2016 as amended from time to time.	Complied. CCA (Consolidated Consent & Authorization) obtained from UPPCB vide letter No. 194987/UPPCB/BANDA (UPPCBRO)/CTO/BOTH/HAMIRPUR/2023dated 19.12.2023 as <b>Annexure no. 4.</b>
	VI. Air quality monitoring and preservation		

	i.	<p>The project proponent shall install 24x7 continuous emission monitoring system at process stacks (Cement Mill main stack) to monitor stack emission (PM Level) with respect to standards prescribed in Environment (Protection) Rules 1986 and 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>	<p>Agreed and complying.</p> <p>CEMS has been installed for continuous monitoring of PM emission &amp; connected 24x7 with the CPCB server. The process stack is attached with emission control devices like Bag house and bag filters. The Cement mills are complying with PM &lt;30 mg/Nm<sup>3</sup>.</p> 
	ii.	<p>The project proponent shall monitor fugitive emissions in the plant premises at least once every quarter through labs recognized under Environment (Protection) Act, 1986.</p>	<p>Fugitive emissions Monitoring has been done through labs recognized under the Environment (Protection) Act, 1986 reports are enclosed as <b>Annexure no. 6</b>. CPCB Environmental Guidelines for Prevention and Control of Fugitive emissions are being followed by the unit.</p> <ol style="list-style-type: none"> <li>1. Covered storages / silos have been provided for Fly Ash, Gypsum and Cement storage.</li> <li>2. Bag filters have been provided at all material transfer points.</li> <li>3. All transfer points and storage silos are provided with dust extraction systems for effective control of fugitive dust emissions.</li> <li>4. The dust collected from the pollution control equipment is being recycled back into the process.</li> <li>5. All raw material transfer conveyors are covered.</li> <li>6. Truck mounted vacuum cleaner machine and road sweeper are deployed, and good housekeeping is being maintained for controlling secondary fugitive dust emissions.</li> <li>7. All movement area is cemented, and sweeping is being done by vacuum sweeping machine.</li> </ol>



	<p>iii. The project proponent shall install a continuous CAAQMS system carryout to Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM<sub>10</sub> and PM<sub>2.5</sub> in reference to PM emission, SO<sub>2</sub> and NOx in reference to SO<sub>2</sub> and NOx emissions) within and outside the plant area at least at four locations (one within and three outside the plant area at an angle of 120° each), covering upwind and downwind directions. (Case to case basis small plants: Manual; Large plants: Continuous).</p>	<p>Complying with the National Ambient Air Quality Emission Standards issued by the Ministry. Ambient air quality is being monitored at four locations inside the plant boundary as follows-</p> <ol style="list-style-type: none"> <li>1. WTP Area</li> <li>2. Tower No-1</li> <li>3. Tower No-2</li> <li>4. Tower No-3</li> </ol> <p>All the results are well within the prescribed norms.</p>
	<p>iv. The project proponent shall submit monthly summary report of continuous stack emission and air quality monitoring and results of manual stack monitoring and manual monitoring of air quality/fugitive emissions to Regional Office of MoEF&amp;CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.</p>	<p>Six monthly compliance reports are being submitted on regular basis to the Ministry of RO office of the MOEF/ CPCB and UPPCB. Last EC Compliance submission date. 7.05.2024..Monitoring reports are enclosed as Annexure - 6,7,9.</p>
	<p>v. Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards.</p>	<p>Complied</p> <p>All the pollution control measures have been implemented. Efficient Air Pollution Control (APC) system (Bag Filters) for all the dust generating points has been provided to comply with prescribed stack emission and fugitive emission standards.</p> 

	vi.	The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.	Complied. Leakage detection and mechanized bag cleaning facilities of Bag House have been provided.
	vii.	Pollution control system in the cement plant shall be provided as per the CREP Guidelines of CPCB.	Pollution control systems are implemented in the unit as per the CREP Guidelines of CPCB.
	viii.	Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.	Complied,Truck mounted vacuum cleaner and road sweeper are deployed, and good housekeeping is being maintained for controlling secondary fugitive dust emissions. 
	ix.	Ensure covered transportation and conveying of raw material to prevent spillage and dust generation; Use closed bulkers for carrying fly ash.	Complied, Covered transportation along with closed bulkers for carrying fly ash practice has been adopted and conveying system for raw material are being covered. 
	x.	Provide wind shelter fence and chemicals spraying on the raw material stockpiles.	Complied. All types of raw materials are being stored in covered sheds or silo.

			
	xi.	<p>Have separate truck parking area and monitor vehicular emissions at regular intervals.</p>	<p>A separate truck parking area is developed within the plant premises. Following measures have been taken for the control of emissions due to transportation:</p> <ol style="list-style-type: none"> <li>1. Cement and clinkers are being transported in covered vehicles.</li> <li>2. Fly ash is being transported in closed containers and bulkers.</li> <li>3. All vehicles used in transportation are loaded as per the approved capacity.</li> <li>4. Vehicles with valid PUC are allowed only.</li> <li>5. Earmarked cemented truck parking (sufficient) provided and sweeping of the same are being done by vacuum sweeping machines regularly.</li> </ol> 
	xii.	<p>Efforts shall be made to reduce impact of the transport of the raw materials and end products on the surrounding environment including agricultural land by the use of covered conveyor belts/railways as a mode of transport.</p>	<p>Agreed &amp; noted. A covered conveyor belt has been installed and raw material and end product is being transported through the covered vehicle.</p>
	xiii.	<p>Ventilation systems shall be designed for adequate air changes as per ACGIH</p>	<p>Agreed &amp; noted.</p>

		document for all tunnels, motor houses, Cement bagging plants.	
<b>VII. Water quality monitoring and preservation:</b>			
	i.	The project proponent shall install effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R. No. 612 (E) dated 25 <sup>th</sup> August 2014 (Cement) and sub sequent amendment dated 9 <sup>th</sup> May, 2016 (Cement) and connected to SPCB and CPCB online servers and calibrate this system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories. (Case to case basis small plants: Manual; Large plants: Continuous).	No effluent is being generated from the dry cement manufacturing process. There is no industrial effluent discharge on land or outside of the plant premises.
	ii.	The project proponent shall monitor regularly 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.	Agreed. Ground water level and quality monitoring is being carried out on a regular basis. Piezometer (01 No.) has been installed for ground water level in the plant. Ground water quality report enclosed as <b>Annexure no. 7</b> .
	iii.	The project proponent shall submit monthly summary report of continuous effluent monitoring and results of manual effluent testing and manual monitoring of ground water quality to Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.	Agreed. It is a Clinker Grinding & Packing Unit only; no effluent water is generated (Fully dry process Unit). Ground water quality is monitored at regular intervals. Ground water quality report enclosed as <b>Annexure no. 7</b> .
	iv.	Adhere to Zero Liquid Discharge	Agreed and complied with. 'Zero' liquid discharge has been adopted.
	v.	Sewage Treatment Plant of appropriate capacity shall be provided for treatment of domestic wastewater to meet the prescribed standards.	Agreed and complied. A STP of 10 KLD capacity has been provided for the treatment of domestic wastewater. Treated domestic wastewater is used in green belt development.



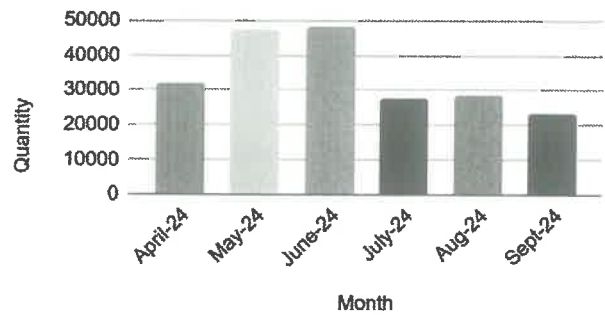
			
	vi.	Garland drains and collection pits shall be provided for each stockpile to arrest the run-off in the event of heavy rains and to check the water pollution due to surface runoff.	Agreed & noted. There is no stockpile. Garland drains have been provided and rainwater is recharged. Water collection pits have been developed to recharge the ground water.
	vii.	The project proponent shall practice rainwater harvesting to maximum possible extent.	Agreed & complying. 8 No's of Rainwater collection pits have been developed to recharge the ground water. 
	viii.	Water meters shall be provided at the inlet to all unit processes in the cement plant.	Complying.
	ix.	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.	Cement manufacturing process is based on dry process technology. Domestic sewage generated from office toilets is being treated in STP and the treated water is being used for plantation and greenbelt development.
<b>VIII Noise monitoring and prevention</b>			
	i.	The noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to the Regional Officer of the Ministry as a part of six-monthly compliance report.	Agreed. Noise monitoring is being carried out regularly. The overall noise level in and around the plant area is within the prescribed standards. Noise monitoring reports are enclosed as Annexure - 10.

	ii.	The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75dB(A) during daytime and 70dB (A) during nighttime.	Agreed & complying.
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<b>IX.</b>	<b>Energy Conservation measures</b>		
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	i.	Provide solar power generation on roof tops of buildings, for solar light systems for all common areas, streetlights, parking around project area and maintain the same regularly.	Agreed & noted. Installation of roof top solar power has been proposed beside this 9.55MW solar power is being utilized by external sources.
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	ii.	Provide the project proponent for LED lights in their offices and residential areas.	Complied. LED lights have been provided in offices. There is no residential colony of the company.
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	iii	Maximize utilization of fly ash, slag and sweetener in cement blend as per BIS standards.	Agreed. Max. fly ash is used as per BIS norms.  <b>Quantity vs. Month</b>  <table border="1"> <caption>Quantity vs. Month Data</caption> <thead> <tr> <th>Month</th> <th>Quantity</th> </tr> </thead> <tbody> <tr> <td>April-24</td> <td>30,000</td> </tr> <tr> <td>May-24</td> <td>45,000</td> </tr> <tr> <td>June-24</td> <td>48,000</td> </tr> <tr> <td>July-24</td> <td>28,000</td> </tr> <tr> <td>Aug-24</td> <td>28,000</td> </tr> <tr> <td>Sept-24</td> <td>22,000</td> </tr> </tbody> </table>	Month	Quantity	April-24	30,000	May-24	45,000	June-24	48,000	July-24	28,000	Aug-24	28,000	Sept-24	22,000
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<b>X.</b>	<b>Waste management</b>		
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	i.	The waste oil, grease and other hazardous shall be disposed of as per the Hazardous & Other waste (Management & Trans boundary Movement) Rules, 2016.	Waste oil, grease and other hazardous waste generated from the entire complex is being sold to authorized recyclers.  
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	ii.	Kitchen waste shall be composted or converted to biogas for further use. (To be decided on case-to-case basis depending on type and size of plant).	Agreed & Complying with.
<b>XI.</b>	<b>Green Belt</b>		
	i.	Green belts shall be developed in an area equal to 33% of the plant area with a native tree species in accordance with CPCB guidelines. The green belt shall inter alia cover the entire periphery of the plant	Agreed & complying with. Out of a total plant area of 10.66-hectare, so far green belt has been developed in approx. 2.79 hectares area with 12,000 numbers of saplings.
	ii.	The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration including plantation.	Agreed. A team of experts performs a survey of the entire plant and collects the raw data for calculation of GHG emissions. The company follows the GCCA and "Energy Accounting and Reporting Standard for the Cement Industry" for the calculation of the GHG emissions. Every year a third party is engaged for assurance of the GHG data.
<b>XII.</b>	<b>Public hearing and Human health issues</b>		
	i.	An emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	Agreed & noted. An emergency preparedness plan has been prepared and implemented.
	ii.	The PP shall provide Personal Protection Equipment (PPE) as per the norms of Factory Act.	Agreed & complying. No direct exposure of human beings to the high temperature area. PPEs are provided to all the plant workers.
	iii.	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Not applicable as the project is in operation phase.
	iv.	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Occupational Health Surveillance programs are being carried out on a regular basis and record of the same is maintained as per Factories Act. Health Checkup is being carried out regularly.
<b>XIII</b>	<b>Corporate Environment Responsibility</b>		

	i.	The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No.22-65/2017IA.III dated 1 <sup>st</sup> May 2018, as applicable, regarding Corporate Environment Responsibility.	Agreed and complied. CER activities are ongoing in phase wise manner.
	ii.	The company shall have a well-laid environmental policy duly approved 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.	Agreed and complied. A copy of the Environmental policy duly approved is enclosed as <b>Annexure no. 8.</b>
	iii	The company shall have a defined system of reporting infringements/ deviation/ violation of the environmental/ forest/ wildlife norms / conditions and shareholders/ stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of a six-monthly report.	Agreed and complied. A copy of the Environmental policy duly approved is enclosed as <b>Annexure no. 8.</b>
	iv	A separate Environmental Cell both at the project and company head quarter level with qualified personnel shall be set up under the control of a senior Executive, who will directly report to the head of the organization.	Agreed and complied. Environmental Cell both at the unit and company head quarter level are being established.
	v	An action plan for implementing EMP and environmental conditions along with the responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year-wise funds earmarked for environmental protection measures shall be kept in separate accounts and not to be diverted for any other purpose. Year wise progress of implementation of the action plan shall be reported to the Ministry /Regional Office along with the Six-Monthly Compliance Report.	Noted and complied
	vi	Self-environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.	Self environmental Audit has been done

	vii	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the cement plants shall be implemented.	All CREP recommendations have been implemented.
<b>XIV Miscellaneous</b>			
	i.	Raw material handling should be such that there should be no fugitive emission from premises.	Agreed and being complied. 
	ii.	Under CER activity as committed ambulance for handicapped, equipped with medical facilities may be provided.	Ambulance equipped with medical facilities has been provided for handicapped persons. 
	iii.	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.	Copy of environment clearance letter vide letter No. HM/EMD/MoEF/F 01/007 has been sent on 30.09.2021 to the following. <ul style="list-style-type: none"> <li>• District Collector, Hamirpur</li> <li>• Gram Panchayat, Ingotha</li> <li>• General Manager DIC, Hamirpur</li> <li>• Chief executive officer</li> </ul>
	iv.	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on	Compliance status of environment clearance (EC) conditions, including results of monitored data is available on the company's website and the same is being updated periodically.

		their website and update the same on half-yearly basis.	
	v.	The project proponent shall monitor the criteria pollutants level namely, PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> , NOx (Ambient Levels) and PM at Cement Mill stack or critical sectoral 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.	Noted & being complied with. Display board installed. 
	vi.	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the web site of the ministry of Environment, Forest and Climate Change at environment clearance portal.	Compliance status of environment clearance (EC) conditions, including results of monitored data is available on the company's website and the same is being updated periodically on the web site of the ministry of Environment, Forest and Climate Change at environment clearance portal.
	vii.	The project proponent shall submit the 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 web site of the company.	Environmental statement (Form – V) is being submitted to the concerned authorities well within stipulated time. The Last environment statement is being submitted on 23.09.2024. Environment Statement (Form – V) have been uploaded on the website: -www.jkcement.com
	viii.	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.	Noted & agreed. The date of commissioning of the unit is 25.11.2022
	ix.	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.	Complying with all the stipulations made by the UPPCB and state government.
	x.	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitments made during Public Hearing	Complying with.

		and that during their presentation to the Expert Appraisal Committee.	
	xi.	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).	For further expansion, prior approval will be obtained from MoEF&CC.
	xiii.	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.	Noted & agreed.
	xiv.	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Noted & agreed.
	xv.	The Ministry reserves the right to stipulate additional conditions if found necessary	Noted & agreed.
	xvi.	The Company in a time-bound manner shall implement these conditions.	Noted & agreed.
	xvii.	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.	Noted & agreed.
	xviii.	The above conditions shall be forced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Trans boundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High	Noted & agreed.

		Courts and any other Court of Law relating to the subject matter.	
	xix.	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 faithfully,  
JK Cement Ltd  
(A unit of JK Cement Ltd.)



Dr. Sachin Gupta  
(Unit Head)



## **BIRD CONSERVATION PLAN**

Threats such as collision, light pollution, contaminants, Global warming etc. are the result due to which birds are killed. Things which are to be practiced in M/s JAYKAYCEM CENTRAL WORKS HAMIRPUR to conserve and protect birds are as under;

- ✓ **Plantation:** As birds are fond of pollen, seeds, berries, insects and nectar. Plantation will be done in the area in order to provide food for the survival of birds. Birds need safe places to rest & eat, so this will also provide shelter to them. Miyawaki forest will also be developed. Plantation of native species to be done in the factory premises to attract more birds.
- ✓ **Marks on transparent/one side transparent glass windows:** Birds tend to hit windows because they cannot see them as an obstruction. This usually leads to death after birds accidentally crash on the windows. Birds may also encounter life-ending injuries such as broken wings and necks. Marking will be done on the glass windows.
- ✓ **Bird bath:** It will be provided in order to drink & bath. At different time interval it will be cleaned & filled with fresh water.
- ✓ **Reduction in carbon foot prints:** Parasites are part of the reason why birds suffer and their dwindling numbers. Attacks by ticks and mites can lead to weakened bird populations. This is mostly due to a rise in the number of parasites in the wild. Increase in carbon foot prints can be traced to the rising global temperatures that make for shorter winters with higher average temperatures. This means that more insects survive the winter cycle each season. To combat this, we should reduce greenhouse gas emission
- ✓ **Waste Management:** Birds tend to be various curious about the waste that are produced by human. Dumping waste in open leads to birds attempting to eat whatever is dumped. This practice can be harmful that's why proper waste management to be done by providing bins/or any area to dispose waste
- ✓ **Plastic waste management**
- ✓ **Creation of small bird habitat:** These may include artificial bird nest which will provide shelter to them. This increases the population of the species in the region and provides an incentive for more birds to settle in order to breed with the other birds in the region.
- ✓ **Awareness programme on bird conservation & their habitats will be conducted for the importance of birds in environment & encourage them to recognize that avian productivity is a prime criterion for determining protected status of specific habitats, mitigation requirements for environmental impacts.**

Ref. No.: HM/EMD/MoEF/Comp./F 01/011

Dated: 27.12.2021

To,

**By-Post**

**The Member Secretary,**

State Environment Impact Assessment Authority,

Vinit Khand-1, Gomati Nagar, **Lucknow**, PIN Code:- 226 010, (UP.)- E.

mail:- [roc.z.lko-mef@nic.in](mailto:roc.z.lko-mef@nic.in)

**Subject:** Environmental Clearance for Proposed Clinker Grinding Unit Cement Capacity 2 MMTPA & DG Sets Capacity 1250 kVA & 250 kVA at Village: Ingotha, Tehsil & District: Hamirpur (UP).-**Regarding Compliance of Condition no. IV w.r.t. Transportation Plan**

Ref. No. EC Letter No. 202/ Parya/SEIAA /6109 /2021 dated 29/09/2021.

Dear Sir,

With reference to above subject matter and referred EC dated 29.09.2021; in this regard, we would like to submit that the said EC was granted to M/s Jaykaycem (Central) Works, for Proposed Clinker Grinding Unit Cement Production Capacity 2.00 MMTPA & DG Sets Capacity 1250 kVA & 250 kVA at Village: Ingotha, Tehsil & District: Hamirpur (U.P).

Now, as per the EC condition No. IV "Transportation plan should be submitted within 3 months", we are submitting herewith the following transportation map for your kind consideration please:

1. Transportation Route Map for Clinker from Proposed Integrated Cement Plant, Jaykaycem (Central) Limited, Amanganj, Dist. Panna, MP at a distance of ~235 kms.
2. Transportation Route Map for Fly ash from NUPPL, Power Plant, Ghatampur, Kanpur, Uttar Pradesh at a distance of ~30 kms.
3. Other Raw materials viz. Slag from nearby area in UP (~100 kms.), Mineral Gypsum from Rajasthan (~1000 kms), Synthetic & Chemical from sister units at Nimbahera, Rajasthan & nearby industrial area of UP, MP & Gujarat (~1000 kms.) respectively and Fuel (Coal, Diesel, FO & Diesel) from local market (within 100 kms.) will also be transported by said route.

We hope the above information is in order.

Thanking You,

Yours Faithfully,

**For Jaykaycem (Central) Works, Hamirpur {A  
Unit of Jaykaycem (Central) Limited}**



**Ram Pal Goyal**  
Authorized Signatory

Copy To:

1. **The CEO-2, UP Pollution Control Board, TC-12V, Paryavaran Bhawan, Vibhuti Khand, Gomti Nagar, PIN Code :- 226 010, Lucknow (U.P), E. mail:- [ceo2@uppcb.com](mailto:ceo2@uppcb.com)**



**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

2. **The Regional Officer, UPPCB**, 34A, Near Sant Tulsi Public School, Indranagar, Banda, PIN Code: - 210 001 (U.P), E. mail:- [robanda@uppcb.com](mailto:robanda@uppcb.com)
3. **The Deputy Director General of Forest (C )**, Integrated Regional Office, Kendriya Bhawan, 5th Floor, Sector-H, Aliganj, PIN Code:- 226020, Lucknow (UP). E. mail:- [roc.lko-mef@nic.in](mailto:roc.lko-mef@nic.in)

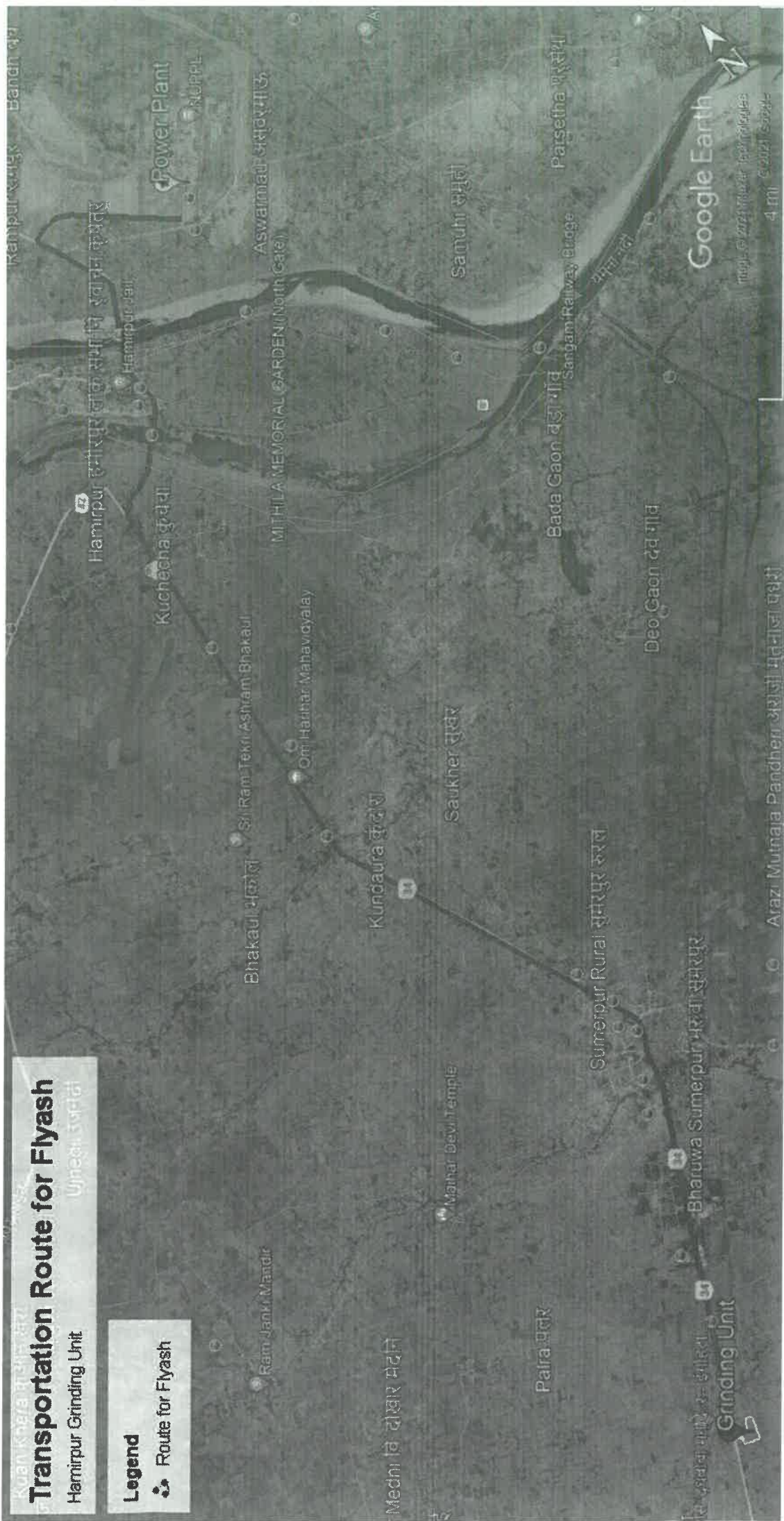
# Transportation Route for Flyash

Hamirpur Grinding Unit

Ujnecha, उत्तरांचल

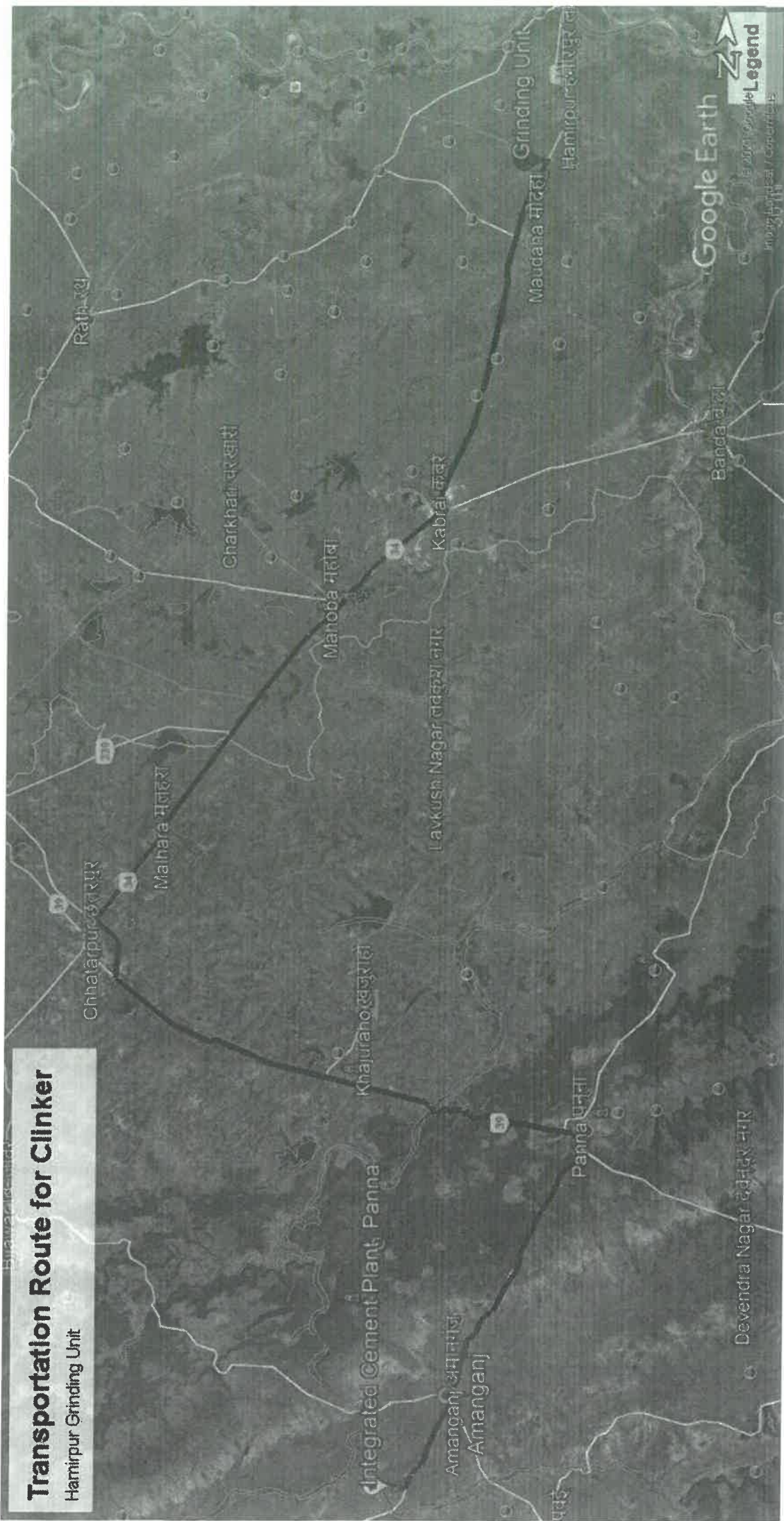
**Legend**

-  Route for Flyash



# Transportation Route for Clinker

Hamirpur Grinding Unit



**कार्यालय प्रभागीय वनाधिकारी, हमीरपुर वन प्रभाग, हमीरपुर।**

पत्रांक 247 /33-1/दिनांक, हमीरपुर, 02, 08, 2021.

सेवा में,

जेकेसेम सेन्ट्रल लिमिटेड  
यूनिट हमीरपुर।

**विषय:**—जेकेसेम सेन्ट्रल लिमिटेड यूनिट हमीरपुर द्वारा ग्राम—इंगोहटा, तहसील—हमीरपुर, जिला—हमीरपुर के गाटा संख्या—1731, 1732, 1735, 1737 क्षेत्रफल—10.661 हे० में वनभूमि होने/न होने के सम्बन्ध में।

**सन्दर्भ:**—आपका पत्रांक—एच०एम०/ई०एम०डी०/एम०ओ०ई०एफ०/०१/००५ दिनांक 19.04.2021.

उपरोक्त सन्दर्भित पत्र द्वारा वॉछित ग्राम—इंगोहटा, तहसील—हमीरपुर, जिला—हमीरपुर के अन्तर्गत गाटा संख्या—1731, 1732, 1735, 1737 कुल क्षेत्रफल—10.661 हे० के वनभूमि/गैर वनभूमि होने के सम्बन्ध में सूचना चाही गयी है। इस सम्बन्ध में जाचोंपरान्त क्षेत्रीय वन अधिकारी, सुमेरपुर ने अपने पत्रसंख्या—10/33-1/ दिनांक 30.07.2021 एवं उप प्रभागीय वनाधिकारी, हमीरपुर ने अपनी जाँच दिनांक 31.07.2021 में अवगत कराया गया है कि ग्राम—इंगोहटा के अन्तर्गत उक्त गाटा संख्या जिनका कुल क्षेत्रफल—10.661 हे० है, वनभूमि नहीं है।

(उमेश चन्द राय)

प्रभागीय वनाधिकारी,  
हमीरपुर वन प्रभाग, हमीरपुर।

पृष्ठांकन संख्या...../अ/समदिनांकित।

**प्रतिलिपि**—उप प्रभागीय वनाधिकारी हमीरपुर को उनकी जाँच रिपोर्ट दिनांक 31.07.2021 के क्रम में सूचनार्थ प्रेषित।

**प्रतिलिपि**—क्षेत्रीय वन अधिकारी, सुमेरपुर को उनके पत्र संख्या—10/33-1/दिनांक 30.07.2021 के क्रम में सूचनार्थ प्रेषित।

(उमेश चन्द राय)

प्रभागीय वनाधिकारी,  
हमीरपुर वन प्रभाग, हमीरपुर।



## Uttar Pradesh Pollution Control Board

Building. No TC-12V Vibhuti Khand, Gomti Nagar, Lucknow-226010

Phone:0522-2720828,2720831, Fax:0522-2720764, Email: info@uppcb.in, Website: www.uppcb.com

194987/UPPCB/Banda(UPPCBRO)/CTO/both/HAMIRPUR/2023

Date: 19/12/2023

To,

M/s

**JK CEMENT WORKS HAMIRPUR**

**Village Ingotha, Pargana Sumerpur, District  
Hamirpur,HAMIRPUR,210341**

**Application Id-  
23202177**

**Consolidated Consent to Operate and Authorisation hereinafter referred to as the CCA (Consolidated Consent & authorization) (Fresh) under Section-25 of the Water (Prevention & Control of Pollution) Act, 1974 and under Section-21 of the Air (Prevention & Control of Pollution) Act, 1981 and Authorization under Rule-6(2) of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 notified under Environment (Protection) Act, 1986 as applicable (to be referred hereinafter as Water Act, Air Act and HW Rules respectively).**

CCA is hereby granted to **JK CEMENT WORKS HAMIRPUR** located at **Village Ingotha, Pargana Sumerpur, District Hamirpur,HAMIRPUR,210341**. subject to the provisions of **the Water Act, Air Act and Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016** and the orders that may be made further and subject to following terms and conditions :-

1. This CCA **JK CEMENT WORKS HAMIRPUR** granted for the period from **01/01/2024 to 31/12/2028** and valid for manufacturing of following products.

S No	Product	Quantity	Unit
1	Cement PPC	150000	Metric Tonnes/Month
2	Cement PSC	16600	Metric Tonnes/Month
3	Cement Composite	16600	Metric Tonnes/Month
4	Cement OPC	16600	Metric Tonnes/Month

2. **Conditions under Water(Prevention and Control of Pollution) Act -1974 as amended :-**

(i) The daily quantity of effluent discharge (KLD) :-

Kind of Effluent	Quantity(KLD)	Treatment facility	Discharge point
Domestic	6.0 KLD	STP	Used for Irrigation and water sprinkling for dust suppression.
Industrial	190 KLD Recycled in process	ETP	ZLD.

(ii) Trade Effluent Treatment and Disposal :-The applicant shall operate Effluent Treatment Plant consisting of primary/secondary and tertiary treatment as is required with reference to influent quantity and quality.

In case of stoppage of functioning of ETP, production has to be stopped immediately and this Board has to be intimated by fax/phone/email with a report in this regard to be dispatched immediately.

(iii) The treated effluent shall be recycled to the maximum extent and should be reused within the premises for gardening etc. Quality of the treated effluent shall meet to the following general and specific standards as prescribed under Environment (Protection) Rules, 1986 and applicable to the unit from time-to-time :-

### Industrial Effluent Quality Standard

S.No.	Parameter	Standard
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(iv) Sewage Treatment and Disposal :- The applicant shall provide comprehensive STP as is required with reference to influent quantity and quality. In case of stoppage of functioning of STP, production has to be stopped immediately and this Board has to be intimated by fax/phone/email with a report in this regard to be dispatched immediately.

(v) The treated sewage shall be reused in gardening as far as possible. The STP shall be maintained continuously so as to achieve the quality of the treated sewage to the following standards.

S No.	Parameters	Standards
1	pH	As per E(P) Act 1986.
2	BOD (mg/L)	As per E(P) Act 1986.
3	TSS (mg/L)	As per E(P) Act 1986.
4	Fecal Coliform (MPN/100ml)	As per E(P) Act 1986.

### 3. Conditions under Air (Prevention and Control of Pollution) Act -1981 as amended :-

i) The applicant shall use following fuel and install a comprehensive control system consisting of control equipment as required with reference to generation of emissions and operate and maintain the same continuously so as to achieve the level of pollutants to the following standards.

#### Air Pollution Source Details

S No.	Air Pollution Source	Type of fuel	Stack no	Control Device	Height of Stack
1	Vertical Rolling Mill		01	Particulate Matter	55 feet high MS stack and Bag filters
2	D.G. Set-1250 KVA	HSD	02	Particulate Matter	As per norms with acoustic enclosure.
3	D.G. Set-125 KVA	HSD	03	Particulate Matter	As per norms with acoustic enclosure.

#### Emission Quality Standards

S No.	Stack no	Parameters	Standards
1	01	Particulate Matter	As per Environment (Protection) Act 1986 as amended.
2	02	Particulate Matter	As per Environment (Protection) Act 1986 as amended.



3	03	Particulate Matter	As per Environment (Protection) Act 1986 as amended.
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In case of stoppage of functioning of air pollution control equipment, production has to be stopped immediately and this Board has to be intimated by fax/phone/email with a report in this regard to be dispatched immediately

(ii) The unit will not use any type of restricted fuel.

iii) Noise from the D.G. Set and other source(s) should be controlled by providing an acoustic enclosure as is required for meeting the ambient noise standards for night and day time as prescribed for respective areas/zones (Industrial, Commercial, Residential, Silence) which are as follows :-

Day time : from 6.00 a.m. to 10.00 p.m., Night time: from 10.00 p.m. to 6.00 a.m.

Standards for Noise level in db(A) Leq	Industrial Area		Commercial Area		Residential Area		Silence Zone	
	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time
	75	70	65	55	55	45	50	40

#### 4. Conditions under Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 :-

The Factory Manager of M/s JK CEMENT WORKS HAMIRPUR . is hereby granted an authorization to operate a facility for collection and storage of Hazardous wastes. The authorization is granted to operate a facility for generation, collection and storage of hazardous wastes within factory premises for following category of wastes:-

S.No.	Category of Hazardous Waste as per the Schedules I, II and III of these rules	Authorised mode of disposal or recycling or utilisation or co-processing, etc.	Quantity(ton/annum)
1	Empty barrels/containers/ liners contaminated with hazardous chemicals /wastes (Sch1, Cat-33.1)	Authorized recyclers	300 Nos/Annum
2	Used or Spent Oil (Sch-1, Cat-5.1)	through TSDF/Authorized Recyclers	5.0 KL/Annum
3	Wastes or residues containing oil (Sch-1, Cat-5.2)	through TSDF/Authorized Recyclers	2.0 KL/Annum
4	Contaminated cotton rags or other cleaning materials (Sch-1, Cat-33.2)	Through TSDF	1.2 MT/Annum
5	Sludge and filters contaminated with oil (Sch-1, Cat-3.3)	Through TSDF	2.0 KL/Annum

The authorization shall be in force and shall be valid upto 31/12/2028. The authorization is subject to the conditions stated below and such conditions as may be specified in the rules for the time being in force under Environment (Protection) Act, 1986.

#### Terms and conditions of Hazardous Waste authorization :-

(i) The authorization shall comply with the provisions of the Environment (Protection) Act, 1986, and the rules made there under.

- (ii) The authorization and its renewal shall be produced for inspection at the request of an officer authorized by the SPCB.
- (iii) The person authorized shall not rent, lend, sell, transfer or otherwise transport the hazardous wastes without obtaining prior permission of the SPCB.
- (iv) Any unauthorized changes in personnel, equipment as working conditions as mentioned in the application by the person authorized shall constitute a breach of his authorization.
- (v) It is the duty of the authorized person to take prior permission of the SPCB to close down the facility.
- (vi) An application for the renewal of an authorization shall be made as laid down under these rules.
- (vii) The unit shall comply with any other conditions specified in the guidelines issued by the MoEF or CPCB/SPCB from time to time.
- (viii) The authorization is valid for temporary storage of Hazardous Waste within premises only.
- (ix) The authorized agency shall ensure that on-line data with regard to quantity and nature of hazardous chemicals being used in the plant as well as air emission and waste generated within premises is displayed on Display Board of size 6x4 feet outside the main factory gate within premises
- (x) It is duty of the authorized person to take prior permission of this Board to close and cleanup the facility for treatment, storage and disposal of hazardous waste.
- (xi) The applicant shall maintain record of hazardous waste in Form-3 and shall submit annual return in Form-4 on or before the 30th day of June following to the financial year to which that return relates.
- (xii) In no case any hazardous waste shall be disposed off on land, in any drain, or into any water stream. All spillage must also be safely collected and stored.
- (xiii) Before the hazardous waste is stored or dumped in the facility, applicant must conduct a detailed physical and chemical analysis of hazardous waste sample and report to the Board.
- (xiv) Dried hazardous sludge from the process in the plant shall be stored in double lined HDPE pit constructed with R.C.C. or such material which does not react with the waste contained in it.
- (xv) The storage area should be fenced properly and Sign/Notice Board indicating 'Danger' and 'Hazardous' shall be displayed at appropriate position both in Hindi and English.
- (xvi) The industry shall store non-ferrous metal waste, used oil/spent oil waste in sealed drums placed on impervious floor under covered shed. Hazardous waste if required shall be sold only to Registered Recyclers/Re-processors.
- (xvii) In case of any transportation of hazardous waste, the details in Form-10 of the Hazardous and Other Wastes Rules, 2016 shall be submitted to the Board.

**5. Essential documents to be submitted by the Industry/Unit as Applicable:-**

- (i) Annual return in Form-4 and Waste Disposal Manifest in Form-10 under Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and Third Party Audit Report.
- (ii) Environment Statement in Form-V of Environment (Protection) Rules, 1986.
- (iii) Quarterly compliance report of the CCA, photograph of ETP/APCs/Waste Storage Area.

6. Competent Authority reserves the right to change/modify/add any time any condition of this CCA.

7. Unit has to comply with the following specific & general conditions. Non compliance of any provision of this CCA and provisions of the Water Act, Air Act and Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 will results in legal action under the aforesaid Acts and Rules.

8. In compliance to the G.O 1011/81-7-2021-09 (Writ)/2016 dated.13.10.2021 issued by Department of Environment, Forest and Climate Change, Uttar Pradesh. You are directed to develop Miyawaki Forest as per the SOP available at URL:-<http://www.upecp.in/TrainingSession.aspx> for ensuring timely compliance of this direction, you are hereby directed to submit a bank guarantee with minimum validity of one year of the amount equivalent to the sum of initial consent fees (Air and Water) or Rs. 50,000/- (Rs. Fifty Thousand Only) whichever is more, within 30 days from the date of issuance of this certificate. In case of non-compliance of this direction, your consent will be revoked by the Board.

9. If the unit uses the ground water and requires the permission from SGWA/CGWA for water abstraction then the industry will have to obtain No objection certificate for abstraction of ground water. It will be the responsibility of the industry to comply with the various conditions of the NOC obtained from the competent authority and submit to the Board, within 3 months time failing which CTO will be revoked.

**General Conditions:-**

1. The applicant shall get analysed the samples of effluent/emission/hazardous wastes at least once in a three month from the laboratory recognized by the MoEF and shall report to the UPPCB.
2. The applicant shall however, not without the prior consent of the Board bring into use any new or altered outlet for the discharge of effluent or gases emission or sewage waste from the unit.
3. Treated Industrial waste water and domestic waste water shall be disposed jointly at one disposal point. The applicant shall provide discharge measurement equipment at final disposal point.
4. The applicant shall strictly comply with conditions of this CCA and submit compliance report of stipulated conditions within 30 days of receipt of this CCA. If at any point of time, it is found that the industry is not complying with stipulated conditions or any further direction/instruction issued by the Board, legal action shall be initiated against the applicant.
5. The applicant shall maintain good house keeping. All valves/pipes/sewer/drains etc. must be leak-proof
6. The industry shall provide uninterrupted entry to the STP/ETP inlet and outlet points, Air Pollution Control equipment and stack for smooth sampling/monitoring of efficiency of pollution control systems.
7. The industry shall provide Inspection Book at the time of inspection to the Board's officials.
8. Whenever due to any accident or other unforeseen act or event, such emission occurs or is apprehended to occur in excess of standards laid down, such information shall be reported to the Board's offices and all other concerned offices. In case of failure of pollution control equipment, the production process connected to it shall be stopped with immediate effect.
9. The industry shall operate in a manner so that all emissions be emitted through designated chimney/stack only.
10. In case of any damage to the agriculture productivity, human habitation etc. by the operation of industry, it shall be imperative to stop production in the industry with immediate effect and such information shall be reported to Board's offices. The industry shall be liable to pay compensation also in such cases as decided by the Competent Authority.
11. The applicant shall apply before the 60 days of expiry of CCA or any change in production types/production capacity/manufacturing process/capacity enhancement etc. or any change in effluent discharge point or emission point
12. The Board reserves the right to revoke/add/modify any stipulated condition issued along with CCA, as may be necessary.

**Specific Conditions:-**

1. This consent of M/s J.K. CEMENT WORKS, (M/S JAYKAYCEM CENTRAL WORKS) HAMIRPUR (Grinding Unit) is valid for production of Cement PPC-150000 MT/Month, Cement OPC 16600 MT/Month, Cement PSC-16600 MT/Month, Cement Composite-16600 MT/Month using raw material Clinker-15000 MT/Month, Fly Ash-5000 MT/Month, Gypsum-2500 MT/Month, Slag-5000 MT/Month, Limestone-2500 MT/Month.
2. Industry shall comply with the conditions of Environmental Clearance issued by SEIAA vide letter no. Vide letter no. 202/Parya/SEIAA/6109/2021 dated 29.10.2021 and CTE issued by UPPCB on 01.09.2021.
3. The industry shall operate and maintain installed APCS in such a manner to achieve the emission standards as prescribed under Environment (Protection) Rules, 1986.
4. Industry shall operate and maintain water sprinkler to suppress dust inside the premises. Industry shall maintain proper housekeeping and proper dust control arrangement at loading and unloading areas.

5. Industry shall operate and maintain installed OCEMS effectively and ensure its regular connectivity to CPCB server. Industry shall also calibrate installed OCEMS from recognized agency on six monthly basis.
6. Fly Ash/Solid waste shall be disposed in such manner, so that no water, air and soil pollution takes place.
7. Industry shall maintain acoustic enclosure and stack attached to 02 D.G. Set of 125 KVA and shall ensure the compliance of provisions of Noise Pollution (Regulation and Control) Rules 2000.
8. Industry shall submit the Stack/Ambient Air monitoring report of NABL accredited laboratory with 01 Months and thereafter on quarterly basis to the Board.
9. Industry shall install/maintain Electro Magnetic Flow meters at Water withdrawal source and logbook of its reading shall be maintained properly.
10. Industry shall treat 6 KLD domestic effluent through STP of capacity 10 KLD as per the standards prescribed under Environment (Protection) Rules 1986 as amended. The treated effluent shall be reused for irrigation and water sprinkling for dust separation etc with in industry premises. Industry shall ensure ZLD.
11. The water approx 190 KLD used in process such as Mill spray, Cooling water etc shall be recycled in process and industry shall ensure ZLD.
12. Industry shall submit the STP treated effluent analysis report of NABL accredited laboratory within 01 month and thereafter on quarterly basis to the Board.
13. Industry shall obtain necessary permission from UPGWA for withdrawal of ground water and shall install rain water harvesting system as per design of Ground Water Authority.
14. Industry shall comply with the provisions of Hazardous and Other waste (Management & Trans boundary Movement) Rules 2016.
15. Industry shall establish Miyawaki forest inside the industry premises in sufficient area and the treated effluent from the STP shall be used for forestation.
16. Industry shall abide by directions given by Hon'ble Courts, Central Pollution Control Board and UPPCB for protection and safe guard of environment from time to time.
17. Industry shall submit environmental statement in prescribed format as per rule 14 of Environment (Protection) Act, 1986.
18. Industry shall comply with the Office memorandum no. H 48273/C-1/NGT-83/2020 dated 27.02.2020 issued by UPPCB.
19. Consent fees if revised, shall be payable by industry from the date of its applicability.
20. If closure order is issued by CPCB or UPPCB against the unit, then CCA issued earlier will remain suspended during the closure period and after ensuring the compliance and after revocation of closure order, the CCA will automatically be effective with additional conditions mentioned in the closure revocation order.
21. The hazardous wastes must be safely collected in leak proof containers and shall be duly marked in a manner suitable for handling, storage and transport and the packaging shall be easily visible and be able to withstand physical conditions and climatic factors. All hazardous waste containers / bags shall be provided with a general label. The storage area should be at an isolated spot in the premises and must be fenced, covered and duly marked.
22. The authorized person/agency shall ensure that no adverse impact on the air, soil and water including groundwater takes place due to activities for which authorization has been requested. Comprehensive safety measures must be followed in handling of wastes and the staff must be properly trained.
23. The applicant must file returns in prescribed Form 4 along with a compliance report of this letter and should also maintain records on Form 3 and present it to Board's inspecting officials.
24. In case of occurrence of an accident, complete details on form must be sent to U.P. Pollution Control Board at the earliest along with details of mitigative and remedial measures taken.
25. The authorized person shall not receive, collect, or store any hazardous waste from any unauthorized occupier or generator of hazardous wastes. In case any hazardous wastes is sold to any other reprocessing unit it must be ensured that such unit is fully complying with environmental requirements and has a valid

authorization of the Board.

26. Industry shall install display board outside the main factory gate with regard to quantity and nature of hazardous chemicals being handled in the plant, including waste water and air emission and solid hazardous waste generated within the factory premises.

27. The occupier, transporter and operator of a facility shall be liable for damages caused to the environment resulting due to improper handling and disposal of hazardous waste listed in schedule 1,2, and 3 and shall be liable to pay a fine as levied by the State Pollution Control Board under the rules.

28. You shall have the valid membership of any common TSDF for S.L.F. (M/S U.P. Waste Management Project Kumbhi Kanpur Dehat or M/s Bharat Oil and Waste Management Ltd., Kumbhi, Akbarpur, Kanpur Dehat. permitted by U.P.P.C.B). The authorized incinerator is M/s Bharat Oil Company, Sahibabad, Ghaziabad for oily waste and paint sludge only.

29. Industry shall store the hazardous waste safely and send it to TSDF/incinerator within Ninety days.

30. Industry shall comply with the relevant provisions of Environmental Laws.

RAJENDR  
A SINGH

Digitally signed by  
RAJENDRA SINGH  
Date: 2024.01.02  
18:13:21 +05'30'

**Chief Environmental Officer Circle-2**

Copy to:

Regional Officer, UPPCB, Banda with direction to send the compliance report of CCA conditions on quarterly basis to Head Office.

RAJENDRA SINGH

Digitally signed by  
RAJENDRA SINGH  
Date: 2024.01.02  
18:13:39 +05'30'

**Chief Environmental Officer Circle-2**



**मिशन LIFE - पर्यावरण के लिए जीवन शैली**  
(Lifestyle For Environment )  
जनसहभागिता का सन्देश



- स्वच्छता – देशसेवा में अपने परिवेश की स्वच्छता हेतु अपना सक्रिय योगदान सुनिश्चित करें
- संकल्प लें -एकल उपयोग प्लास्टिक उत्पाद जैसे कप, तश्तरी, चम्मच, स्ट्रॉ, ईयरबड्स आदि का उपयोग न हो एवं पर्यावरण अनुकूल विकल्पों जैसे कागज/पत्तों से बने दोने या कटलरी को प्राथमिकता दी जाय ।
- एकल उपयोग प्लास्टिक उत्पाद के प्रयोग को रोकने एवं प्लास्टिक बैग के बजाय कपड़े के थैले का उपयोग करने मात्र से 375 मिलियन टन ठोस (प्लास्टिक) कचरे का उत्सर्जन बचाया जा सकता है
- चक्रीय अर्थव्यवस्था (सर्कुलर इकोनॉमी) का समुचित कार्यान्वयन वर्ष 2030 तक लगभग 14 लाख करोड़ रुपये की अतिरिक्त बचत उत्पन्न कर सकता है | वेस्ट /अपशिष्ट फेकने के पूर्व सोचें, ये किसी का संसाधन तो नहीं ...?
- अनुपयोगी इलेक्ट्रिक / इलेक्ट्रॉनिक उत्पाद को कचरे में फेकने से रुकें | इसके उपयुक्त निस्तारण हेतु इसे प्राधिकृत ई – वेस्ट रीसाइकलर को दें | प्राधिकृत ई-रीसाइक्लिंग इकाई में अनुपयोगी इलेक्ट्रिक / इलेक्ट्रॉनिक उत्पाद को देने मात्र से 0.75 मिलियन टन तक ई-कचरे का पुनर्चक्रण किया जा सकता है एवं ई-कचरे के विषम पर्यावरणीय दुष्प्रभाव से बचा जा सकता है
- बाहर जाते समय - सोचें कि क्या आपको वास्तव में परिवहन की आवश्यकता है - वह भी क्या व्यक्तिगत रूप से ? छोटी दूरी के लिए पैदल चलना पसंद करें, अथवा सम्भव हो तो कार पूल के रूप में संसाधन को साझा करें अथवा सार्वजनिक परिवहन पर विचार करें
- घरेलू स्तर पर कम से कम ठोस अपशिष्ट का उत्सर्जन करें और इनका प्रथाक्रीकरण करें
- उपयोगी शेष खाद्य सामग्री आपके स्वयं प्रयास अथवा निकटस्थ सक्रिय स्वयं सेवी संस्थाओं की सहायता से समाज के वंचित वर्ग तक पहुंचाई जा सकती है | वहीं अनुपयोगी भोजन /खाद्य सामग्री को कंपोस्ट (वर्मी कम्पोस्ट) करने से 15 अरब टन भोजन को नष्ट होने से बचाया जा सकता है
- ध्यान रखें - उपयुक्त नल और शावर के उपयोग से पानी की खपत को 30 - 40% तक कम किया जा सकता है। एवं उपयोग में न होने पर नलों को बंद रखने मात्र से 9 ट्रिलियन लीटर पानी बचाया जा सकता है
- ट्रेफिक लाइट/रेलवे क्रॉसिंग पर कार/स्कूटर के इंजन बंद करने मात्र से 22.5 बिलियन kWh तक ऊर्जा की बचत हो सकती है
- परम्परागत बल्ब के स्थान पर CFL का उपयोग बिजली की खपत में प्रभावी कमी लाते हैं | उपयोग में न होने पर बिजली उपकरणों को बंद करें | स्टार रेटेड विद्युत उपकरणों के उपयोग को प्राथमिकता दें

**हमारे द्वारा अपनी जीवन शैली की प्राथमिकताओं का उचित और पर्यावरण अनुकूल पुनर्निर्धारण समाज और पर्यावरण के प्रति हमारा दायित्व है।**



**GROUND WATER DEPARTMENT**  
(Namami Gange & Rural Water Supply Department)  
Ministry of Jal Shakti  
Government of Uttar Pradesh



**Form 8 (C)**

[See Rule 8(1)]

**AUTHORIZATION/ NO-OBJECTION CERTIFICATE FOR SINKING  
OF NEW / EXISTING WELL FOR INDUSTRIAL/ COMMERCIAL/  
INFRASTRUCTURAL OR BULK USER OF GROUND WATER**

[Under Section 14 of the Uttar Pradesh Ground Water Management and Regulation Act, 2019.]

**AUTHORIZATION/ NO-OBJECTION CERTIFICATE  
NO: NOC031442**

**VALID FROM 16/12/2021 TO 15/12/2026**

{UIS10(1) of the Uttar Pradesh Ground Water Management and Regulation Act, 2019}

**Registration No.: 202111000193**

<b>Name of the Owner</b>	RAMPAL GOYAL		
<b>Designation</b> पद	GM ENVIRONMENT	<b>Company Name</b> कंपनी का नाम	JAYKAYCEM (CENTRAL) WORKS
<b>Company Address</b> कंपनी का पता	Village Ingolha Pargana Sumerpur Dist. Hamirpur up	<b>Authorization Letter</b> प्राधिकार पत्र	Download
<b>Address of the Applicant</b>	Village Ingotha, Pargana Sumerpur, District Hamirpur	<b>Application Form Serial No.</b>	HMPR1121NIN0024
<b>Date of Submission</b>	13/11/2021	<b>Specimen Signature</b>	

**Location Particulars**

<b>District</b>	Hamirpur	<b>Block</b>	Sumerpur
<b>Plot No./Khasra No.</b>	.Village Ingolha Pargana	<b>Municipality/Corporation</b>	No
<b>Ward No./Holding No.</b>			N/A

**Particular of the Proposed Well and Pumping Device**

<b>Date of Construction/Sinking of the Well</b>	01/07/2022		
<b>Type of Well</b>	Tube Well/Boring	<b>Depth of the Well (In meter)</b>	106.68
<b>Purpose of well</b>	Industrial	<b>Assembly Size(For Tube Well)</b>	
<b>Strainer Position (For Tube Well)</b>			
<b>Type of Pump Used</b>	Submersible	<b>H.P. of the Pump</b>	7.50
<b>Operational Device</b>	Electric Motor	<b>Rate of Withdrawal (m<sup>3</sup>/hr.)</b>	20.00
<b>Date of Energization (In Case of Electric Pump)</b>		01/07/2022	
<b>Maximum Allowable Rate of Withdrawal (m<sup>3</sup>/hr.):</b>	20.00	<b>Maximum Allowable Running Hours Per Day:</b>	5.00
<b>Maximum Allowable Annual Extraction of Ground Water:</b>			36500

This No-Objection certificate authorizes the owner applicant (user) to sink a well in the location specified at Sl. (2) for extraction of ground water at a rate not exceeding that as shown at Sl. (3j), for Running Hours per day as shown at Sl. (3k), and for maximum allowable annual extraction of ground water as shown at Sl. (3k) and is valid subject to the observance of the conditions stated overleaf.

### GENERAL CONDITIONS:

- In case of any change of ownership of the proposed well, fresh authorization has to be obtained.
- No change of location, design, rate of withdrawal and pumping device in respect of the proposed well as indicated at SL (2) and (3) of this certificate shall be made without prior permission of the Competent Authority. Any deviation in this regard shall lead to cancellation of this authorization
- For the purpose of measuring and recording the quantity of ground water extracted, every said user shall affix digital water flow meters (conforming to BIS/ IS standards) having telemetry system in the abstraction structure, which record rate and quantum of extraction, at outlet of pumping devices and it shall be presumed that the quantity recorded by the meter has been extracted by the said user, until the contrary is proved. The rate of extraction of ground water from the well as shown in item 3(k) shall not exceed to the recorded rate from water meters
- The concerned Authority reserves the right to stop extraction of ground water from the well due to quality hazards or any other reasons, if the situation so demands
- In case of any change of ownership of the existing well, fresh registration has to be obtained.
- No change of location, design, rate of withdrawal and pumping device in respect of the existing well as indicated at Sl. (2) and (3) of this certificate shall be made without prior permission of the Competent Authority. Any deviation in this regard shall lead to cancellation of this registration
- In case, any of the particulars / information furnished by the applicant in his application for issuance of this registration is found to be incorrect during verification at any subsequent stage, this registration is liable for cancellation.
- The Certificate of Authorization/ NOC shall be valid for a period of five years from the date of issue. The applicant shall have to apply for renewal through a fresh application, at least ninety days prior to expiry of its validity.
- Construction of piezometers and installation of digital water level recorders with telemetry shall be mandatory for user. Depth and zone tapped of piezometer should be commensurate with that of the pumping well. The data, obtained from digital water level recorders shall be made available to this office on monthly basis
- **Guidelines for Installation of Piezometers and their Monitoring**



Piezometer is a borewell /tubewell used only for measuring the water level by lowering the tape/ sounder or automatic water level measuring equipment. It is also used to take water sample for water quality testing when ever needed. General guidelines for installation of piezometers are as follows:

- o The piezometer is to be installed/constructed at the minimum of 50 m distance from the pumping well through which ground water is being withdrawn. The diameter of the piezometer should be about 4" to 6".
- o The depth of the piezometer should be same as is case of the pumping well from which ground water is being abstracted. If, more than one piezometers are installed the second piezometer should monitor the shallow ground water regime. It will facilitate shallow as well as deeper ground water aquifer monitoring.
- o No. of piezometers to be constructed & Type of water level monitoring mechanism shall be as per below table:

S.No	Quantum of Ground water withdrawal (cum/day)	No.of piezometers required	Monitoring Mechanism	
			Manual	DWLR with Telemetry
1	< 10	0	0	0
2	11 - 50	1	1	0
3	50- 500	1	0	1
4	> 500	2	0	2

- o The measuring frequency should be monthly and accuracy of measurement should be up to cm. the reported measurement should be given in meter upto two decimal.
- o For measurement of water level sounder or automatic water level recorder (AWLR)/ Digital Automatic water level recorder (DWLR) with telemetry system should be used for accuracy.
- o The measurement of water level in piezometer should be taken, only after the pumping from the surrounding tube wells has been stopped for about four to six hours.
- o All the details regarding coordinates, reduced level (with respect to mean level), depth, zone taped and assembly lowered should be provided for bringing the piezometer into the Hydrograph Monitoring System for Ground Water Department, Uttar Pradesh, and for its validation.
- o The ground water quality has to be monitored twice in a year during pre-monsoon (May/June) and post-monsoon (October/November) periods. Quality may be got analyzed from NABL approved lab. Besides, one sample (1 Lt capacity bottle) to the concerned Director, Ground Water Department, Uttar Pradesh, for chemical analysis.
- o A Permanent display board should be installed at piezometer/Tube wells site for providing the location, piezometer/ tube well number, depth and zone tapped of piezometer/tube well for standard referencing and identification.
- o Any other site specific requirement regarding safety and access for measurement may be taken care of.
- Any other condition(s) that may be imposed by the concerned Authority.
- In case, any of the particulars I information furnished by the applicant in his application for issuance of this permit is found to be incorrect during verification at any subsequent stage, this permit is liable for cancellation.
- 
- **SPECIFIC CONDITIONS:**
- **(A) For Industrial User:** No Objection Certificate for ground water extraction by industries shall be granted subject to the following specific conditions:
  - i) No Objection Certificate shall be granted only in such cases where local government water supply agencies are not able to supply the desired quantity of water.
  - ii) All industries shall be required to adopt latest water efficient technologies so as to reduce dependence on ground water resources.
  - iii) All industries abstracting ground water in excess of 100 m<sup>3</sup>/d shall be required to undertake annual water audit through Confederation of Indian Industries (CII)/ Federation Indian Chamber of Commerce and Industry (FICCI)/ National Productivity Council (NPC) certified auditors and submit audit reports within three months of completion of the same to Ground Water Department Uttar Pradesh. All such industries shall be required to reduce their ground water use by at least 20% over the next five years through appropriate means.
  - iv) Construction of observation well(s) (piezometer)(s) within the premises and installation of appropriate water level monitoring mechanism as mentioned in General Condition no.10 shall be mandatory for industries drawing/ proposing to draw more than 10 m<sup>3</sup> /day of ground water and. Monitoring of water level shall be done by the project proponent. The piezometer (observation well) shall be constructed at a minimum distance of 50 m from the bore well/production well. Depth and aquifer zone tapped in the

piezometer shall be the same as that of the pumping well/ wells. Monthly water level data shall be submitted online to the Ground Water Department, UP.

- v) The proponent shall be required to adopt roof top rain water harvesting/ recharge in the project premises. Industries which are likely to pollute ground water (chemical, pharmaceutical, dyes, pigments, paints, textiles, tannery, pesticides/ insecticides, fertilizers, slaughter house, explosives etc.) shall store the harvested rain water in surface storage tanks for use in the industry.
- vi) Injection of treated/ untreated waste water into aquifer system is strictly prohibited.
- vii) Industries which are likely to cause ground water pollution e.g. Tanning, Slaughter Houses, Dye, Chemical/ Petrochemical, Coal washeries, other hazardous units etc. (as per CPCB list) need to undertake necessary well head protection measures to ensure prevention of ground water pollution.
- 
- **(B) Infrastructural User:** The No Objection Certificate for ground water abstraction will be granted subject to the following specific conditions:
  - i) In case of infrastructure projects that require dewatering, proponent shall be required to carry out regular monitoring of dewatering discharge rate (using a digital water flow meter) and submit the data online to Ground Water Department, UP as applicable. Monitoring records and results should be retained by the proponent for two years, for inspection or reporting as required by District Ground Water Management Council.
  - ii) Installation of Sewage Treatment Plants (STP) shall be mandatory for new projects, where ground water requirement is more than 20 m<sup>3</sup> /day. The water from STP shall be utilized for toilet flushing, car washing, gardening etc

Date :08/01/2022

Place:Hamirpur

**This certificate is electronically generated and does not require digital signature**



**GROUND WATER DEPARTMENT**  
(Namami Gange & Rural Water Supply Department)  
Ministry of Jal Shakti  
Government of Uttar Pradesh



**Form 8 (C)**

[See Rule 8(1)]

**AUTHORIZATION/ NO-OBJECTION CERTIFICATE FOR SINKING  
OF NEW / EXISTING WELL FOR INDUSTRIAL/ COMMERCIAL/  
INFRASTRUCTURAL OR BULK USER OF GROUND WATER**

[Under Section 14 of the Uttar Pradesh Ground Water Management and Regulation Act, 2019.]

**AUTHORIZATION/ NO-OBJECTION CERTIFICATE  
NO: NOC035062**

**VALID FROM 16/12/2021 TO 15/12/2026**

{UIS10(1) of the Uttar Pradesh Ground Water Management and Regulation Act, 2019}

<b>Registration No.: 202111000175</b>			
<b>Name of the Owner</b>	RAMPAL GOYAL		
<b>Designation</b> पद	GM ENVIRONMENT	<b>Company Name</b> कंपनी का नाम	JAYKAYCEM ( CENTRAL ) WORKS
<b>Company Address</b> कंपनी का पता	Village Ingolha Pargana Samerpur Dist. Hamirpur up	<b>Authorization Letter</b> प्राधिकार पत्र	Download
<b>Address of the Applicant</b>	Village Ingotha, Pargana Sumerpur, District Hamirpur	<b>Application Form Serial No.</b>	HMPR1121NIN0023
<b>Date of Submission</b>	11/11/2021	<b>Specimen Signature</b>	
<b>Location Particulars</b>			
<b>District</b>	Hamirpur	<b>Block</b>	Sumerpur
<b>Plot No./Khasra No.</b>	Village Ingolha Pargana	<b>Municipality/Corporation</b>	No
<b>Ward No./Holding No.</b>	N/A		
<b>Particular of the Proposed Well and Pumping Device</b>			

<b>Date of Construction/Sinking of the Well</b>	01/02/2022		
<b>Type of Well</b>	Tube Well/Boring	<b>Depth of the Well (In meter)</b>	106.68
<b>Purpose of well</b>	Industrial	<b>Assembly Size(For Tube Well)</b>	
<b>Strainer Position (For Tube Well)</b>			
<b>Type of Pump Used</b>	Submersible	<b>H.P. of the Pump</b>	7.50
<b>Operational Device</b>	Electric Motor	<b>Rate of Withdrawal (m<sup>3</sup>/hr.)</b>	20.00
<b>Date of Energization (In Case of Electric Pump)</b>		01/02/2022	
<b>Maximum Allowable Rate of Withdrawal (m<sup>3</sup>/hr.):</b>	20.00	<b>Maximum Allowable Running Hours Per Day:</b>	5.00
<b>Maximum Allowable Annual Extraction of Ground Water:</b>			36500

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- vii) Industries which are likely to cause ground water pollution e.g. Tanning, Slaughter Houses, Dye, Chemical/ Petrochemical, Coal washeries, other hazardous units etc. (as per CPCB list) need to undertake necessary well head protection measures to ensure prevention of ground water pollution.
- 
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  - i) In case of infrastructure projects that require dewatering, proponent shall be required to carry out regular monitoring of dewatering discharge rate (using a digital water flow meter) and submit the data online to Ground Water Department, UP as applicable. Monitoring records and results should be retained by the proponent for two years, for inspection or reporting as required by District Ground Water Management Council.
  - ii) Installation of Sewage Treatment Plants (STP) shall be mandatory for new projects, where ground water requirement is more than 20 m<sup>3</sup> /day. The water from STP shall be utilized for toilet flushing, car washing, gardening etc

Date :08/01/2022

Place:Hamirpur

**This certificate is electronically generated and does not require digital signature**



TEST REPORT CODE: VGL/FE/24/09/29/001

ULR NO. TC144552400000202F

TEST REPORT ISSUE DATE: 04.10.2024

**TEST REPORT (FUGITIVE EMISSION)**

Name & Address of Customer : M/s. J K CEMENT WORKS, HAMIRPUR,  
(A UNIT OF JK CEMENT LIMITED)  
VILLAGE-INGOHTA, TEHSIL - HAMIRPUR,  
DISTRICT: HAMIRPUR, (U.P)-210341

Sampling Location : BRU

Duration of Sampling : 27.09.2024 TO 27.09.2024

Time of Sampling : 09:50 AM TO 01:50 PM

Sample Done By : ASHISH KUMAR

Packing Condition : SEALED

Environmental Condition (At Lab) : Temp.(°C) 25.9 & RH (%) 54

Method of Sampling : IS:5182

Sample Receiving Date : 29.09.2024

Sample Processing Date : 30.09.2024 TO 04.10.2024

Equipment Used : HIGH VOLUME SAMPLER


**TEST RESULTS**

SL. NO.	PARAMETERS	TEST METHOD	UNIT	RESULTS
1	Suspended Particulate Matter (SPM)	IS 5182 (Part-4)	µg/m <sup>3</sup>	2226.0

Page 1 of 1

**Note:**

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

**Dr. Ashok Kumar**  
Technical Manager**Authorized Signatory**  
**VIRAT GLOBAL LAB**  
(A Division of Aseries Envirotek India Pvt. Ltd.)  
**Authorized Signatory**  
D. K. Yadav  
Lab In-charge



# VIRAT GLOBAL LAB

(A Division of Aseries Envirotek India Pvt. Ltd.)  
(An ISO 9001:2015, 14001:2015 & 45001:2018 Certified Company)

TEST REPORT CODE: VGL/W/24/08/23/005

TEST REPORT ISSUE DATE: 29.08.2024

## TEST REPORT (WATER) PART - A (CHEMICAL)

**Name and Address of Customer** : M/s. J K CEMENT WORKS, HAMIRPUR,  
(A UNIT OF JK CEMENT LIMITED.)  
VILLAGE-INGOHTA, TAHSIL- HAMIRPUR,  
DISTRICT: HAMIRPUR, (U.P)-210341

**Location of Sample** : BOREWELL NEAR WTP

**Sample Description** : GROUND WATER

**Date & Time of Sampling** : 21.08.2024 02:50 PM

**Sample Collected by** : VGL STAFF

**Environmental Condition (Temp. & RH)** : 25.5 °C & 55 %

**Sample Packing** : SEALED

**Sample Id No.** : 005

**Laboratory Sample Receiving Date** : 23.08.2024

**Duration of Sample Analysis** : 24.08.2024 TO 29.08.2024

**Method of Sampling** : APHA 1060B & 9060A

### TEST RESULTS

Sr. No.	Parameters	Test Method	Result	Unit	Limit as per IS 10500:1991 (Reaff:2012)	
					Desirable	Permissible
1.	pH	APHA 4500H+A+B	7.58	-	6.5-8.5	No relaxation
2.	Temperature	APHA 2550-A+B	28.0	°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	16.0	mg/L	200	600
7.	Total Dissolved Solids	APHA 2540-C	18.3	mg/L	500	2000
8.	Total Hardness	APHA 2340 A+C	15.0	mg/L	200	600
9.	Calcium	APHA 3500 Ca- A+B	12.3	mg/L	75	200
10.	Magnesium	APHA 3500 Mg A+B	9.5	mg/L	30	100
11.	Sodium	APHA 3500 Na, A+B	8.0	mg/L	-	-
12.	Phosphate	APHA 4500-SO42- E	<0.2	mg/L	-	-
13.	Sulfate	APHA 4500-PD	11.5	mg/L	200	400
14.	Potassium	APHA 3500 K, A+B	3.0	mg/L	-	-

Page 1 of 2

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Authorized Signatory  
**VIRAT GLOBAL LAB**  
(A Division of Aseries Envirotek India Pvt. Ltd.)

D. K. Yadav  
Authorized Signatory  
Lab In-charge

**Address:** Ground Floor, Khasra No.973, BDS Hostel Campus, Opp. Gate No.2 CRPF Camp, Bijnaur,  
Sarojini Nagar, Lucknow (U.P.) – 226008, Mob. - +91-9990366186, 9415135012, 0522-7118739  
**E-mail:** [viratgloballab@gmail.com](mailto:viratgloballab@gmail.com), [ceo.viratlab@gmail.com](mailto:ceo.viratlab@gmail.com), **Web:** [www.viratlab.com](http://www.viratlab.com)



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

**TEST RESULTS**

15.	Nitrate Nitrogen	APHA 4500-NO3-B	0.39	mg/L	45.0	-
16.	Free Residual Chlorine	APHA 4500-Cl B	BDL	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	<0.2	mg/L	0.5	1.0
19.	Copper	APHA 3111 A+B	<0.05	mg/L	0.05	1.5
20.	Cadmium	APHA 3111 A+B	<0.02	mg/L	0.003	No relaxation
21.	Iron	APHA 3500 Fe B	0.12	mg/L	0.3	No relaxation
22.	Lead	APHA 3111 A+B	<0.01	mg/L	0.01	No relaxation
23.	Nickel	APHA 3111 A+B	<0.02	mg/L	0.02	No relaxation
24.	Zinc	APHA 3111 A+B	<0.02	mg/L	5	15
25.	Fluoride	APHA 4500-C	0.15	mg/L	1.0	1.5
26.	Mercury	APHA 3112 A+B	<0.05	mg/L	0.001	No relaxation
27.	Total Chromium	APHA 3111 A+B	<0.05	mg/L	0.05	No relaxation
28.	Arsenic	APHA 3114 B	<0.01	mg/L	0.01	0.05

Page 2 of 2

**Note:**

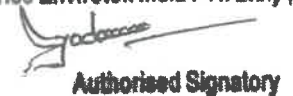
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4. The above Results are related to the tested sample only.
5. BDL: Below detection limit



Dr. Anshu Kumar  
Technical Manager

Authorized Signatory

**VIRAT GLOBAL LAB**  
(A Division of Aseries Envirotek India Pvt. Ltd.)



Authorized Signatory  
D. K. Yadav  
Lab In-charge

TEST REPORT CODE: VGL/WW/24/08/23/006

TEST REPORT ISSUE DATE: 29.08.2024

**Name and Address of Customer** : M/s. J K CEMENT WORKS, HAMIRPUR,  
(A UNIT OF JK CEMENT LIMITED.)  
VILLAGE-INGOHTA, TAHSIL- HAMIRPUR,  
DISTRICT: HAMIRPUR, (U.P)-210341

**Location of Sample** : STP INLET

**Sample Description** : WASTE WATER

**Date & Time of Sampling** : 21.08.2024 05:20 PM

**Sample Collected by** : VGL STAFF

**Environmental Condition (Temp. & RH)** : 25.5°C & 55%

**Sample Packing** : SEALED

**Sample Id No.** : 006

**Laboratory Sample Receiving Date** : 23.08.2024

**Duration of Sample Analysis** : 24.08.2024 TO 29.08.2024

**Method of Sampling** : APHA 1060B

### TEST REPORT (WASTE WATER)

#### TEST RESULTS

SL NO.	PARAMETERS	TEST METHOD	RESULT	UNIT
1.	Colour	APHA 2120-B	25.0	(Hazen unit)
2.	Conductivity	APHA 2110, A+B	1323.0	µs/cm
3.	pH	APHA 4500 H+B	7.87	--
4.	Total Dissolved Solids	APHA 2540C	946.0	mg/L
5.	Dissolved Oxygen	APHA 4500 C	6.5	mg/L
6.	Biochemical Oxygen Demand 3days at 27°C	APHA 5210 B	136.0	mg/L
7.	Chemical Oxygen Demand	APHA 5220 B	523.0	mg/L
8.	Oil & Grease	APHA 5520 B	12.5	mg/L
9.	Alkalinity	APHA 2320 A+B	402.0	mg/L
10.	Total Hardness	APHA 2340-C	468.0	mg/L
11.	Calcium	APHA 2340 C	162	mg/L
12.	Magnesium	APHA 3500	44.5	mg/L
13.	Sodium	APHA 3500 Na-B	78.0	mg/L

Page 1 of 2

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- BDL: Below detection limit.



**VIRAT GLOBAL LAB**  
(A Division of Aseries Envirotek India Pvt. Ltd.)

*(Signature)*  
Authorised Signatory

D. K. Yadav  
Lab In-charge

TEST REPORT CODE: VGL/WW/24/08/23/005

TEST REPORT ISSUE DATE: 29.08.2024

## TEST REPORT (WASTE WATER)

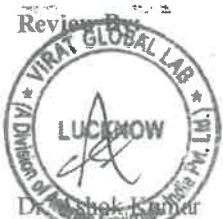
### TEST RESULTS

14.	Potassium	APHA 3500- K	9.0	mg/L	-
15.	Fluoride	APHA (4500 FC & D	0.42	mg/L	2.0
16.	Sulphate	APHA 4500- SO4E	36.3	mg/L	-
17.	Nitrate Nitrogen	APHA 4500-NO B: 4-122	4.5	mg/L	10.0
18.	Chloride	APHA 4500-CI B	48.0	mg/L	1000.0
19.	Iron	APHA 3500 Fe B	0.23	mg/L	3.0
20.	Phosphate	APHA 4500 - P	1.38	mg/L	5.0
21.	Copper	APHA 3111-A+ B	BDL	mg/L	2.0
22.	Mercury	APHA 3111 A+B	BDL	mg/L	0.01
23.	Cadmium	APHA 3111 A+B	BDL	mg/L	2.0
24.	Arsenic	APHA 3114 B	BDL	mg/L	0.2
25.	Hexavalent Chromium	APHA 3500 Cr B	BDL	mg/L	0.1
26.	Cyanide	APHA 4500-CN- D	BDL	mg/L	0.2
27.	Lead	APHA 3111 A+B	BDL	mg/L	0.1
28.	Selenium	IS 3025 (Part 56)	BDL	mg/L	0.05
29.	Zinc	APHA 3111-A+ B	BDL	mg/L	5.0
30.	Aluminum	APHA 3111-A+B	BDL	mg/L	-
31.	Boron	IS 3025 (Part57)	BDL	mg/L	-
32.	Phenolic Compounds	IS 3025 (Part 43)	BDL	mg/L	1.0
33.	Free Residual Chlorine	APHA 4500-CI B	BDL	mg/L	1.0
34.	Sodium Absorption Ratio	APHA 3500 Na	1.86	mg/L	-
35.	Total Coliform Count	IS 1622:1981 (Reaff. 2019)	420.0	MPN/100 ML	1000

Page 1 of 2

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4. The above Results are related to the tested sample only.
5. BDL: Below detection limit.

Reviewed By  
  
**Dr. Ashok Kumar**  
 Technical Manager

Authorized Signatory  
**VIRAT GLOBAL LAB**  
 (A Division of Aseries Envirotek India Pvt. Ltd.)

  
**Authorized Signatory**  
**D. K. Yadav**  
 Lab In-charge

TEST REPORT CODE: VGL/WW/24/08/23/005

TEST REPORT ISSUE DATE: 29.08.2024

### TEST REPORT (WASTE WATER)

**Name and Address of Customer** : M/s. J K CEMENT WORKS, HAMIRPUR,  
(A UNIT OF JK CEMENT LIMITED.)  
VILLAGE-INGOHTA, TAHSIL- HAMIRPUR,  
DISTRICT: HAMIRPUR, (U.P)-210341

**Location of Sample** : STP OUTLET

**Sample Description** : WASTE WATER

**Date & Time of Sampling** : 21.08.2024 04:50 PM

**Sample Collected by** : VGL STAFF

**Environmental Condition (Temp. & RH)** : 25.5°C & 55%

**Sample Packing** : SEALED

**Sample Id No.** : 005

**Laboratory Sample Receiving Date** : 23.08.2024

**Duration of Sample Analysis** : 24.08.2024 TO 29.08.2024

**Method of Sampling** : APHA 1060B

### TEST RESULTS

Sl. No.	Parameters	Test Method	RESULT	Unit	G.S.R 422(E)
					Desirable Limit
1.	Colour	APHA 2120-B	<5.0	(Hazen unit)	-
2.	Conductivity	APHA 2110, A+B	863.0	µs/cm	-
3.	pH	APHA 4500 H+B	7.48	--	5.5-9.0
4.	Total Dissolved Solids	APHA 2540C	568.0	mg/L	-
5.	Dissolved Oxygen	APHA 4500 C	3.9	mg/L	4.0
6.	Biochemical Oxygen Demand 3days at 27 °C	APHA 5210 B	8.3	mg/L	10.0
7.	Chemical Oxygen Demand	APHA 5220 B	48.0	mg/L	50.0
8.	Oil & Grease	APHA 5520 B	<2.0	mg/L	10.0
9.	Alkalinity	APHA 2320 A+B	268.0	mg/L	-
10.	Total Hardness	APHA 2340-C	226.0	mg/L	-
11.	Calcium	APHA 2340 C	65.0	mg/L	-
12.	Magnesium	APHA 3500	25.6	mg/L	-
13.	Sodium	APHA 3500 Na-B	30.0	mg/L	-

Page 1 of 2

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Rev. Ashok Kumar  
Technical Manager



**VIRAT GLOBAL LAB**  
(A Division of Aseries Envirotek India Pvt. Ltd.)

Authorized Signatory



Authorized Signatory

D. K. Yadav  
Lab In-charge

TEST REPORT CODE: VGL/W/24/08/23/005

TEST REPORT ISSUE DATE: 29.08.2024

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

**TEST RESULTS**

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

Page 3 of 3


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



Dr. Ashok Kumar  
Technical Manager

Authorized Signatory  
**VIRAT GLOBAL LAB**  
(A Division of Aseries Envirotek India Pvt. Ltd.)

  
Authorized Signatory  
Sayeed Ahmad  
Quality Manager



## Corporate Environment Policy

JK Cement Limited is committed to ensure clean, green and healthy environment for sustainable development through:

- ✓ By ensuring that the activities of the company comply with all the relevant laws, regulations and industry and applicable codes of standards and practices, as well as to take any additional measures considered necessary.
- ✓ By involving all employees in implementation of the Company's policy and imparting appropriate training, providing for dissemination of information to employees on Environmental objectives and performance through suitable communication networks.
- ✓ By involving the Suppliers, Vendors, Customers, Clients and other Business Associates to promote awareness among them for their responsibility towards Environment and to encourage their participation in achieving our Environmental Goals.
- ✓ Continuously improve in effectiveness of environmental management with proper systems to prevent, mitigate and control environmental impacts due to operations across the value chain and local community.
- ✓ By building awareness to all stakeholders including employees, customers, vendors etc. on environmental issues as well as compliance of relevant environmental legislation by implementing the environmental management system.
- ✓ By improvement in environment management, efficient use of natural resources, energy & plant equipment.
- ✓ By promoting reuse and recycling wastes, reduction in emission, noise, waste and greenhouse gases.
- ✓ By greenbelt development for local bio-diversity management and conservation in coalition with local communities, authorities and other stakeholders.
- ✓ By reporting of non-compliances (if any), violations of environmental norms of the conditions of environment clearance/ consent/ NOC/ authorization and permission etc. relevant to the environmental conditions, wherever required to the director and occupier by the respective Unit Head, Administrative Head, Technical Head and Environment Head so as to fulfill the deviation from compliances as and when required.

JK Cement is implementing due diligence as an essential activity in merges and acquisitions (M&A) transactions.

This policy will be reviewed periodically and updated as may be required. This Policy shall be made known to all our customers and stakeholders, apart from all our employees.

*Anuj Khandelwal*  
**Anuj Khandelwal**  
**Business Head**

**TEST REPORT OF STACK EMISSION CALIBRATION**

Name & Address of Customer	M/s. J K CEMENT WORKS, HAMIRPUR, (A UNIT OF JK CEMENT LIMITED.) VILLAGE-INGOHTA, TAHSIL- HAMIRPUR, DISTRICT, HAMIRPUR, (U.P)-210341			
Sample Collected by	Mr. ASHISH KUMAR & Mr. RAHUL YADAV			
Date of Sampling & Time	28.09.2024 & 11:35 AM	28.09.2024 & 12:35 PM	28.09.2024 & 1:35 PM	
Duration of Monitoring	35.0 MIN.	35.0 MIN.	35.0 MIN.	
Date of Sample Receiving	29.09.2024	29.09.2024	29.09.2024	
Date of Sample Processing	30.09.2024	30.09.2024	30.09.2024	
Source of Emission	CEMENT MILL	CEMENT MILL	CEMENT MILL	
Sampling Method	IS:11255	IS:11255	IS:11255	
Instrument Used	STACK KIT	STACK KIT	STACK KIT	
<b>Details of Stack</b>				
Material of Construction	M.S.	M.S.	M.S.	
Stack Attached to	CEMENT MILL	CEMENT MILL	CEMENT MILL	
Stack Height: - i) Above the Ground Level (m)	54.0	54.0	54.0	
ii) Above the Platform Height Level (m)	43.0	43.0	43.0	
Stack Top	CIRCULAR	CIRCULAR	CIRCULAR	
Inside Dia Meter of Stack Sampling port (m)	3.4	3.4	3.4	
Cross Sectional Area of Duct/ Stack (m <sup>2</sup> )	10.676	10.676	10.676	
Ambient Temperature (°C)	32.0	32.0	32.0	
Flue Gas Temperature (°C)	75.0	78.0	82.0	
Exit Velocity of Flue Gas (m/sec.)	11.16	11.85	12.32	
Moisture (%)	11.5	12.6	12.9	
Flow Rate (Nm <sup>3</sup> /sec.)	99.41	108.6	126.54	
APCD if Any	Bag Filter	Bag Filter	Bag Filter	
Runing Load	20 - 30 %	50 - 60 %	90 - 100 %	
<b>TEST RESULTS</b>				
TESTS CONDUCTED	UNIT	METHOD	POLLUTANT CONCENTRATION	AVERAGE
Particulate Matter (PM)	mg/Nm <sup>3</sup>	IS:11255 (Part-1)	21.5    22.3    25.6	23.3

Page 1 of 1

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**VIRAT GLOBAL LAB**  
 (A Division of Aseries Envirotek India Pvt. Ltd.)

  
 D. K. Authorized Signatory  
 Lab In-charge

## TEST REPORT OF STACK EMISSION MONITORING

Name & Address of Customer : M/s. J K CEMENT WORKS, HAMIRPUR,  
(A UNIT OF JK CEMENT LIMITED.)  
VILLAGE-INGOHTA, TAHSIL- HAMIRPUR,  
DISTRICT: HAMIRPUR, (U.P)-210341

Sample Collected by : VGL STAFF  
Date of Sampling & Time : 20.08.2024 & 01:30 PM  
Duration of Monitoring : 35.0 MIN.  
Sample Id No. : 001  
Date of Sample Receiving : 23.08.2024  
Date of Sample Processing : 24.08.2024  
Source of Emission : CEMENT MILL  
Sampling Method : IS:11255  
Instrument Used : STACK MONITORING KIT

Details of Stack  
Material of Construction : M.S.  
Stack Attached to : BAG FILTER  
Stack Height :  
i) Above the Ground Level (m) : 54.0  
ii) Above the Platform Hight Level (m) : 43.0  
Stack Top : CIRCULAR  
Inside Dia Meter of Stack Sampling port (m): 3.4  
Cross Sectional Area of Duct/ Stack (m2) : 10.676  
Ambient Temperature (oC) : 30  
Flue Gas Temperature (oC) : 98.0  
Exit Velocity of Flue Gas (m/sec.) : 10.28  
Flow Rate (Nm3/sec.) : 85.902  
APCD if Any : BAG FILTER

### TEST RESULTS

SL. NO.	TESTS CONDUCTED	UNIT	METHOD	POLLUTANT CONCENTRATION	SPECIFICATION / LIMIT (AS PER CPCB)
1.	Particulate Matter (PM)	(mg/Nm <sup>3</sup> )	IS:11255 (Part-1)	18.3	30.0

Page 1 of 1

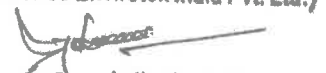
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- Our results are related to the tested sample only.



Dr. Ashok Kumar  
Technical Manager

Authorized Signatory  
**VIRAT GLOBAL LAB**  
(A Division of Aseries Envirotek India Pvt. Ltd.)

  
D. K. Yadav  
Authorized Signatory  
Lab In-charge



## TEST REPORT OF STACK EMISSION MONITORING

Name & Address of Customer : M/s. J K CEMENT WORKS, HAMIRPUR,  
 (A UNIT OF JK CEMENT LIMITED.)  
 VILLAGE-INGOHTA, TAHSIL- HAMIRPUR,  
 DISTRICT: HAMIRPUR, (U.P)-210341

Sample Collected by : VGL STAFF  
 Date of Sampling & Time : 25.07.2024 & 03:40 PM  
 Duration of Monitoring : 35.0 MIN.  
 Sample Id No. : 001  
 Date of Sample Receiving : 26.07.2024  
 Date of Sample Processing : 26.07.2024  
 Source of Emission : CEMENT MILL  
 Sampling Method : IS:11255  
 Instrument Used : STACK MONITORING KIT

**Details of Stack**  
 Material of Construction : M.S.  
 Stack Attached to : BAG FILTER  
 Stack Height  
 i) Above the Ground Level (m) : 54.0  
 ii) Above the Platform Hight Level (m) : 43.0  
 Stack Top : CIRCULAR  
 Inside Dia Meter of Stack Sampling port (m): 3.4  
 Cross Sectional Area of Duct/ Stack (m<sup>2</sup>) : 10.676  
 Ambient Temperature (oC) : 33.0  
 Flue Gas Temperature (oC) : 78.0  
 Exit Velocity of Flue Gas (m/sec.) : 11.62  
 Flow Rate (Nm<sup>3</sup>/sec.) : 102.63  
 APCD if Any : BAG FILTER

### TEST RESULTS

SL. NO.	TESTS CONDUCTED	UNIT	METHOD	POLLUTANT CONCENTRATION	SPECIFICATION / LIMIT (AS PER CPCB)
1.	Particulate Matter (PM)	(mg/Nm <sup>3</sup> )	IS:11255 (Part-1)	17.3	30.0

Page 1 of 1

**Note:**

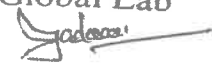
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**Review By:**

 Dr. Ashok Kumar  
 Technical Manager

**Authorized Signatory**

Virat Global Lab



 Authorised Signatory  
 D. K. Yadav  
 Lab In-charge

## TEST REPORT OF STACK EMISSION MONITORING

Name & Address of Customer : M/s. J K CEMENT WORKS, HAMIRPUR,  
 (A UNIT OF JK CEMENT LIMITED.)  
 VILLAGE-INGOHTA, TAHSIL- HAMIRPUR,  
 DISTRICT: HAMIRPUR, (U.P)-210341

Sample Collected by : VGL STAFF  
 Date of Sampling & Time : 25.06.2024 & 03:30 PM  
 Duration of Monitoring : 35.0 MIN.  
 Sample Id No. : 001  
 Date of Sample Receiving : 27.06.2024  
 Date of Sample Processing : 27.06.2024  
 Source of Emission : CEMENT MILL  
 Sampling Method : IS:11255  
 Instrument Used : STACK MONITORING KIT

Details of Stack  
 Material of Construction : M.S.  
 Stack Attached to : BAG FILTER  
 Stack Height  
 i) Above the Ground Level (m) : 54.0  
 ii) Above the Platform Height Level (m) : 43.0  
 Stack Top : CIRCULAR  
 Inside Dia Meter of Stack Sampling port (m): 3.4  
 Cross Sectional Area of Duct/ Stack (m<sup>2</sup>) : 10.676  
 Ambient Temperature (oC) : 32.5  
 Flue Gas Temperature (oC) : 89.0  
 Exit Velocity of Flue Gas (m/sec.) : 11.92  
 Flow Rate (Nm<sup>3</sup>/sec.) : 102.22  
 APCD if Any : BAG FILTER

### TEST RESULTS

SL. NO.	TESTS CONDUCTED	UNIT	METHOD	POLLUTANT CONCENTRATION	SPECIFICATION / LIMIT (AS PER CPCB)
1.	Particulate Matter (PM)	(mg/Nm <sup>3</sup> )	IS:11255 (Part-1)	15.8	30.0

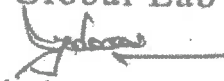
Page 1 of 1

**Note:**

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 Dr. Ashok Kumar  
 Technical Manager

 Authorized Signatory  
 Virat Global Lab

  
 Authorized Signatory  
 D. K. Yadav  
 Lab In-charge

## TEST REPORT OF STACK EMISSION MONITORING

Name & Address of Customer : M/s. J K CEMENT WORKS, HAMIRPUR,  
 (A UNIT OF JK CEMENT LIMITED.)  
 VILLAGE-INGOHTA, TAHSIL- HAMIRPUR,  
 DISTRICT: HAMIRPUR, (U.P)-210341

Sample Collected by : VGL STAFF

Date of Sampling & Time : 25.05.2024 & 12:10 PM

Duration of Monitoring : 33.0 MIN.

Sample Id No. : 001

Date of Sample Receiving : 27.05.2024

Date of Sample Processing : 27.05.2024

Source of Emission : CEMENT MILL

Sampling Method : IS:11255

Instrument Used : STACK MONITORING KIT

Details of Stack

Material of Construction : M.S.

Stack Attached to : BAG FILTER

Stack Height

i) Above the Ground Level (m) : 54.0

ii) Above the Platform Height Level (m) : 43.0

Stack Top : CIRCULAR

Inside Dia Meter of Stack Sampling port (m): 4.2

Cross Sectional Area of Duct/ Stack (m<sup>2</sup>) : 13.85

Ambient Temperature (oC) : 33.2

Flue Gas Temperature (oC) : 85.0

Exit Velocity of Flue Gas (m/sec.) : 12.4

Flow Rate (Nm<sup>3</sup>/sec.) : 139.5

APCD if Any : BAG FILTER

### TEST RESULTS

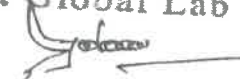
SL. NO.	TESTS CONDUCTED	UNIT	METHOD	POLLUTANT CONCENTRATION	SPECIFICATION / LIMIT (AS PER CPCB)
1.	Particulate Matter (PM)	(mg/Nm <sup>3</sup> )	IS:11255 (Part-1)	14.2	30.0

Page 1 of 1

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Review By  
  
 Dr. Ashok Kumar  
 Technical Manager

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

## TEST REPORT OF STACK EMISSION MONITORING

Name & Address of Customer : M/s. JK CEMENT WORKS, HAMIRPUR,  
 (A UNIT OF JK CEMENT LIMITED.)  
 VILLAGE-INGOHTA, TAHSIL- HAMIRPUR,  
 DISTRICT: HAMIRPUR, (U.P)-210341

Sample Collected by : VGL STAFF  
 Date of Sampling & Time : 30.04.2024 & 11:00 AM  
 Duration of Monitoring : 35.0 MIN.  
 Sample Id No. : 001  
 Date of Sample Receiving : 01.05.2024  
 Date of Sample Processing : 01.05.2024  
 Source of Emission : CEMENT MILL  
 Sampling Method : IS:11255  
 Instrument Used : STACK MONITORING KIT

Details of Stack  
 Material of Construction : M.S.  
 Stack Attached to : BAG FILTER  
 Stack Height :  
 i) Above the Ground Level (m) : 54.0  
 ii) Above the Platform Height Level (m) : 43.0  
 Stack Top : CIRCULAR  
 Inside Dia Meter of Stack Sampling port (m): 4.2  
 Cross Sectional Area of Duct/ Stack (m<sup>2</sup>) : 13.85  
 Ambient Temperature (oC) : 30.8  
 Flue Gas Temperature (oC) : 72.0  
 Exit Velocity of Flue Gas (m/sec.) : 11.1  
 Flow Rate (Nm<sup>3</sup>/sec.) : 129.57  
 APCD if Any : BAG FILTER

### TEST RESULTS

SL. NO.	TESTS CONDUCTED	UNIT	METHOD	POLLUTANT CONCENTRATION	SPECIFICATION / LIMIT (AS PER CPCB)
1.	Particulate Matter (PM)	(mg/Nm <sup>3</sup> )	IS:11255 (Part-1)	13.15	30.0

Page 1 of 1

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 Dr. Ashok Kumar  
 Technical Manager

 Authorized Signatory  
 Virat Global Lab

  
 Authorised Signatory  
 D. K. Yadav  
 Lab In-charge



TEST REPORT CODE: VGL/A/24/09/29/001 ULR NO. TC144552400000189F TEST REPORT ISSUE DATE: 04.10.2024

**TEST REPORT (AMBIENT AIR)**

**Name and Address of Customer** : M/s. J K CEMENT WORKS, HAMIRPUR,  
 (A UNIT OF JK CEMENT LIMITED.)  
 VILLAGE-INGOHTA, TAHSIL- HAMIRPUR,  
 DISTRICT: HAMIRPUR, (U.P)-210341  
**Sampling Location** : WTP AREA  
**Duration of Sampling** : 27.09.2024 TO 28.09.2024  
**Time of Sampling** : 10:30 AM TO 10:30 AM  
**Sampling Done by** : RAHUL YADAV & SHIVAM AGNIHOTRI  
**Packing Condition** : SEALED  
**Sample Id No.** : 001  
**Environmental Condition (At Lab)** : Temp.(°C) 25.9 & RH (%) 54  
**Method of Sampling** : IS:5182  
**Sample Receiving Date** : 29.09.2024  
**Sample Processing Date** : 30.09.2024 TO 04.10.2024  
**Equipment Used** : RESPIRABLE DUST SAMPLER (PM 10)  
 FINE PARTICULATE SAMPLER (PM 2.5)

**TEST RESULTS**


Sr. No.	Parameters	Test Method	Result	Unit	Specification / Limits (As per CPCB)
1.	Particulate Matter (PM2.5)	IS 5182 (Part-24)	34.3	µg/m <sup>3</sup>	60.0
2.	Particulate Matter (PM10)	IS 5182 (Part-23)	72.3	µg/m <sup>3</sup>	100.0
3.	Sulphur Dioxide (SO <sub>2</sub> )	IS 5182 (Part-2)	16.6	µg/m <sup>3</sup>	80.0
4.	Nitrogen Dioxides (NO <sub>2</sub> )	IS 5182 (Part-6)	25.3	µg/m <sup>3</sup>	80.0
5.	Ozone (O <sub>3</sub> )	IS 5182 (Part-9)	13.2	µg/m <sup>3</sup>	180.0
6.	Ammonia (NH <sub>3</sub> )	IS 5182 (Part-25)	11.3	µg/m <sup>3</sup>	400.0
7.	Lead (Pb)	IS 5182 (Part-22)	<1.0	µg/m <sup>3</sup>	1.0
8.	Nickel (Ni)	IS 5182 (Part-26)	<1.0	ng/m <sup>3</sup>	20.0
9.	Arsenic (As)	VGL/SOP/AIR/01	<1.0	ng/m <sup>3</sup>	6.0

Page 1 of 1

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**VIRAT GLOBAL LAB**  
 (A Division of Aseries Envirotek India Pvt. Ltd.)

  
 Authorised Signatory

 D. K. Yadav  
 Lab In-charge

TEST REPORT CODE: VGL/A/24/09/29/001

TEST REPORT ISSUE DATE: 04.10.2024


**TEST REPORT (AMBIENT AIR)****TEST RESULTS**

Sr. No.	Parameters	Test Method	Result	Unit	Specification / Limits (As per CPCB)
1.	Corban Monoxide (CO)	IS 5182 (Part-10)	0.62	mg/m <sup>3</sup>	4.0
2.	Benzo (a) Pyrene (BaP)	IS 5182 (Part-12)	<0.05	ng/m <sup>3</sup>	1.0
3.	Benzene (C <sub>6</sub> H <sub>6</sub> )	IS 5182 (Part-11)	<1.0	µg/m <sup>3</sup>	5.0

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**VIRAT GLOBAL LAB**  
(A Division of Aseries Envirotek India Pvt. Ltd.)  
**Authorized Signatory**  
D. K. Yadav  
Lab In-charge



# VIRAT GLOBAL LAB

(A Division of Aseries Envirotek India Pvt. Ltd.)  
(An ISO 9001:2015, 14001:2015 & 45001:2018 Certified Company)

TEST REPORT CODE: VGL/A/24/08/23/010-014

TEST REPORT ISSUE DATE: 29.08.2024

## TEST REPORT (AMBIENT AIR)

Name and Address of Customer : M/s. J K CEMENT WORKS, HAMIRPUR,  
(A UNIT OF JK CEMENT LIMITED.)  
VILLAGE-INGOHTA, TAHSIL- HAMIRPUR,  
DISTRICT: HAMIRPUR, (U.P)-210341

Sampling Location : --

Duration of Sampling : 20.08.2024 TO 21.08.2024

Sampling Done by : VGL STAFF

Packing Condition : SEALED

Environmental Condition Temp.(°C) & RH (%) : 25.5 & 55

Method of Sampling : IS:5182

Sample Processing Date : 24.08.2024 TO 29.08.2024

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

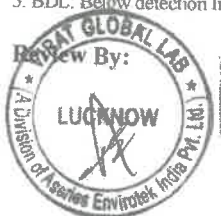
## TEST RESULTS

Test Parameters	PM10	PM2.5	SO2	NO2	NH3	O3	CO	Pb	Ni	As	C6H6	BaP	
Unit	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	mg/m3	µg/m3	ng/m3	ng/m3	µg/m3	ng/m3	
Limit (as Per CPCB)	100	60	80	80	400	100	2	1	20	6	5	1	
Test Method IS: 5182	P-23	P-24	P-2	P-6	P-25	P-9	P-10	P-22	P-22	P-22	P-11	P-12	
Sl. N.	Monitoring Locations	TEST RESULTS											
1	WTP AREA	68.3	32.4	12.5	21.3	10.6	11.1	0.61	N.D.	N.D.	N.D.	N.D.	N.D.
2	TOWER NO. 1	71.3	35.3	11.3	22.5	10.4	15.2	0.56	N.D.	N.D.	N.D.	N.D.	N.D.
3	TOWER NO. 2	64.3	30.2	11.5	20.2	11.5	12.3	0.52	N.D.	N.D.	N.D.	N.D.	N.D.
4	TOWER NO. 3	67.5	32.3	12.9	22.8	10.3	14.5	0.53	N.D.	N.D.	N.D.	N.D.	N.D.

Page 1 of 1

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5. \*BDL: Below detection limit



Dr. Ashok Kumar  
Technical Manager

Authorized Signatory  
**VIRAT GLOBAL LAB**  
(A Division of Aseries Envirotek India Pvt. Ltd.)

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](mailto:viratgloballab@gmail.com), [ceo.viratlab@gmail.com](mailto:ceo.viratlab@gmail.com), Web: [www.viratlab.com](http://www.viratlab.com)

## TEST REPORT (AMBIENT AIR)

**Name and Address of Customer** : M/s. J K CEMENT WORKS, HAMIRPUR,  
(A UNIT OF JK CEMENT LIMITED.)  
VILLAGE-INGOHTA, TAHSIL- HAMIRPUR,  
DISTRICT: HAMIRPUR, (U.P)-210341

**Sampling Location** : -

**Duration of Sampling** : 24.07.2024 TO 25.07.2024

**Sampling Done by** : VGL STAFF

**Packing Condition** : SEALED

**Environmental Condition Temp.(°C) & RH (%)** : 28.4 & 55.2

**Method of Sampling** : IS:5182

**Sample Processing Date** : 26.07.2024 TO 01.08.2024

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

## TEST RESULTS

Test Parameters	PM10	PM2.5	SO2	NO2	NH3	O3	CO	Pb	Ni	As	C6H6	BaP	
<b>Unit</b>	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	mg/m3	µg/m3	ng/m3	ng/m3	µg/m3	ng/m3	
<b>Limit (as Per CPCB)</b>	100	60	80	80	400	100	2	1	20	6	5	1	
<b>Test Method IS: 5182</b>	P-23	P-24	P-2	P-6	P-25	P-9	P-10	P-22	P-22	P-22	P-11	P-12	
Sl. N.	Monitoring Locations	TEST RESULTS											
1	WTP AREA	74.3	32.3	12.3	25.3	13.2	9.2	0.48	N.D.	N.D.	N.D.	N.D.	N.D.
2	TOWER NO. 1	76.4	34.8	12.6	27.2	14.5	10.4	0.58	N.D.	N.D.	N.D.	N.D.	N.D.
3	TOWER NO. 2	72.6	32.5	11.2	23.6	15.1	9.6	0.62	N.D.	N.D.	N.D.	N.D.	N.D.
4	TOWER NO. 3	68.7	31.8	13.8	26.4	12.5	10.4	0.53	N.D.	N.D.	N.D.	N.D.	N.D.

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- BDL: Below detection limit

**Review By:**



Dr. Ashok Kumar  
Technical Manager

**Authorized Signatory**

Virat Global Lab

*(Signature)*  
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](mailto:viratgloballab@gmail.com), [ceo.viratlab@gmail.com](mailto:ceo.viratlab@gmail.com), Web: [www.viratlab.com](http://www.viratlab.com)



**TEST REPORT (AMBIENT AIR)**

**Name and Address of Customer** : M/s. J K CEMENT WORKS, HAMIRPUR,  
 (A UNIT OF JK CEMENT LIMITED.)  
 VILLAGE-INGOHTA, TAHSIL- HAMIRPUR,  
 DISTRICT: HAMIRPUR, (U.P)-210341

**Sampling Location** : -

**Duration of Sampling** : 25.06.2024 TO 26.06.2024

**Sampling Done by** : VGL STAFF

**Packing Condition** : SEALED

**Environmental Condition Temp.(°C) & RH (%)** : 28.5 & 56.5

**Method of Sampling** : IS:5182

**Sample Processing Date** : 27.06.2024 TO 01.07.2024

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

**TEST RESULTS**

Test Parameters	PM10	PM2.5	SO2	NO2	NH3	O3	CO	Pb	Ni	As	C6H6	BaP	
Unit	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	mg/m3	µg/m3	ng/m3	ng/m3	µg/m3	ng/m3	
Limit (as Per CPCB)	100	60	80	80	400	100	2	1	20	6	5	1	
Test Method IS: 5182	P-23	P-24	P-2	P-6	P-25	P-9	P-10	P-22	P-22	P-22	P-11	P-12	
Sl. N.	Monitoring Locations	TEST RESULTS											
1	WTP AREA	72.5	35.2	11.2	23.8	10.1	11.9	0.59	N.D.	N.D.	N.D.	N.D.	N.D.
2	TOWER NO. 1	75.4	38.7	12.9	26.4	10.9	15.4	0.62	N.D.	N.D.	N.D.	N.D.	N.D.
3	TOWER NO. 2	73.5	32.9	12.1	22.8	10.2	12.8	0.66	N.D.	N.D.	N.D.	N.D.	N.D.
4	TOWER NO. 3	69.8	33.9	14.8	24.8	9.5	14.9	0.59	N.D.	N.D.	N.D.	N.D.	N.D.


Page 1 of 1

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4. The above results are related to the tested sample only.
5. BDL: Below detection limit

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

Authorized Signatory

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

**Address: Ground Floor, Khasra No.973, BDS Hostel Campus, Opp. Gate No.2 CRPF Camp, Bijnaur, Sarojini Nagar, Lucknow (U.P.) – 226008, Mob. - +91-9990366186, 9415135012, 0522-7118739**  
**E-mail: [viratgloballab@gmail.com](mailto:viratgloballab@gmail.com), [ceo.viratlab@gmail.com](mailto:ceo.viratlab@gmail.com), Web: [www.viratlab.com](http://www.viratlab.com)**

**TEST REPORT (AMBIENT AIR)**

**Name and Address of Customer** : M/s. J K CEMENT WORKS, HAMIRPUR,  
 (A UNIT OF JK CEMENT LIMITED.)  
 VILLAGE-INGOHTA, TAHSIL- HAMIRPUR,  
 DISTRICT: HAMIRPUR, (U.P)-210341  
**Sampling Location** : -  
**Duration of Sampling** : 24.05.2024 TO 25.05.2024  
**Sampling Done by** : VGL STAFF  
**Packing Condition** : SEALED  
**Environmental Condition Temp.(°C) & RH (%)** : 29.5 & 56.0  
**Method of Sampling** : IS:5182  
**Sample Processing Date** : 27.05.2024 TO 03.06.2024  
**Equipment Used** : RESPIRABLE DUST SAMPLER (PM 10)  
 FINE PARTICULATE SAMPLER (PM 2.5)

**TEST RESULTS**

Test Parameters	PM10	PM2.5	SO2	NO2	NH3	O3	CO	Pb	Ni	As	C6H6	BaP	
Unit	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m <sup>3</sup>	ng/m <sup>3</sup>	ng/m <sup>3</sup>	µg/m <sup>3</sup>	ng/m <sup>3</sup>	
Limit (as Per CPCB)	100	60	80	80	400	100	2	1	20	6	5	1	
Test Method IS: 5182	P-23	P-24	P-2	P-6	P-25	P-9	P-10	P-22	P-22	P-22	P-11	P-12	
Sl. N.	Monitoring Locations	TEST RESULTS											
1	WTP AREA	72.5	35.1	14.2	25.2	10.5	12.2	0.54	N.D.	N.D.	N.D.	N.D.	N.D.
2	TOWER NO. 1	69.5	34.1	12.1	21.6	11.4	16.1	0.59	N.D.	N.D.	N.D.	N.D.	N.D.
3	TOWER NO. 2	71.4	33.8	13.9	22.5	9.5	14.5	0.62	N.D.	N.D.	N.D.	N.D.	N.D.
4	TOWER NO. 3	70.2	34.9	13.4	22.5	10.6	13.5	0.57	N.D.	N.D.	N.D.	N.D.	N.D.

Page 1 of 1

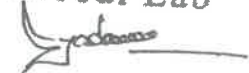
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**Review By:**

 Dr. Ashok Kumar  
 Technical Manager

 Authorized Signatory  
 Virat Global Lab



Authorised Signatory

 D. K. Yadav  
 Lab In-charge

TEST REPORT CODE: VGL/A/24/05/01/N-001

TEST REPORT ISSUE DATE: 06.05.2024

**TEST REPORT (AMBIENT AIR)**

<b>Name and Address of Customer</b>	: M/s. J K CEMENT WORKS, HAMIRPUR, (A UNIT OF JK CEMENT LIMITED.) VILLAGE-INGOHTA, TAHSIL- HAMIRPUR, DISTRICT: HAMIRPUR, (U.P)-210341
<b>Sampling Location</b>	: -
<b>Duration of Sampling</b>	: 30.04.2024 TO 30.04.2024
<b>Sampling Done by</b>	: VGL STAFF
<b>Packing Condition</b>	: SEALED
<b>Environmental Condition Temp.(°C) &amp; RH (%)</b>	: 29.5 & 56.0
<b>Method of Sampling</b>	: IS:5182
<b>Sample Processing Date</b>	: 01.05.2024 TO 06.05.2024
<b>Equipment Used</b>	: RESPIRABLE DUST SAMPLER (PM 10) FINE PARTICULATE SAMPLER (PM 2.5)

**TEST RESULTS**

Test Parameters	PM10	PM2.5	SO2	NO2	NH3	O3	CO	Pb	Mn	As	C6H6	BaP	
Unit	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m <sup>3</sup>	ng/m <sup>3</sup>	ng/m <sup>3</sup>	µg/m <sup>3</sup>	ng/m <sup>3</sup>	
Limit (as Per CPCB)	100	60	80	80	400	100	2	1	20	6	5	1	
Test Method IS: 5182	P-23	P-24	P-2	P-6	P-25	P-9	P-10	P-22	P-22	P-22	P-11	P-12	
Sl. N.	Monitoring Locations												
TEST RESULTS													
1	WTP AREA	73.5	34.3	15.8	28.3	12.5	17.6	0.68	N.D.	N.D.	N.D.	N.D.	N.D.
2	TOWER NO. 1	67.3	31.5	16.6	28.9	11.5	13.7	0.62	N.D.	N.D.	N.D.	N.D.	N.D.
3	TOWER NO. 2	69.4	35.3	13.1	25.3	12.4	16.2	0.64	N.D.	N.D.	N.D.	N.D.	N.D.
4	TOWER NO. 3	68.5	32.7	12.5	22.4	10.9	15.3	0.66	N.D.	N.D.	N.D.	N.D.	N.D.

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- Any discrepancy in test result should be reported within 15 days.
- The above results are related to the tested sample only.
- BDL: Below detection limit

Review By:


 Dr. Ashok Kumar  
 Technical Manager

Authorized Signatory

Virat Global Lab

  
 Authorized Signatory  
 D. K. Yadav  
 Lab In-charge



TEST REPORT CODE: VGL/N/24/09/29/001

ULR NO. TC144552400000193F

TEST REPORT ISSUE DATE: 04.10.2024

**TEST REPORT (NOISE)**

**Name and Address of Customer** : M/s. JK CEMENT WORKS, HAMIRPUR,  
 (A UNIT JK CEMENT LIMITED.)  
 VILLAGE-INGOHTA, TAHSIL- HAMIRPUR,  
 DISTRICT: HAMIRPUR, (U.P)-210341  
**Sampling Location** : TRUCK YARD  
**Date & Duration of Sampling** : 27.09.2024 & 24 Hrs.  
**Sampling Done by** : RAHUL YADAV  
**Method of Sampling** : IS:9989  
**Sample Receiving Date** : 29.09.2024  
**Sample processing Date** : 30.09.2024

**AMBIENT NOISE RESULT**

Sl. No.	Day Time		Night Time	
	Time	Leq Value in dB(A)	Time	Leq Value in dB(A)
1.	6:00 AM TO 10:00 PM	63.5	10.00 PM TO 6:00 AM	55.2

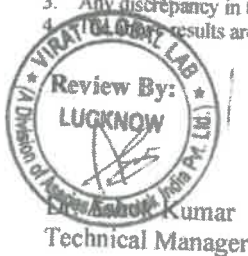
**NOISE (AMBIENT STANDARDS AS PER CPCB)**


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

Page 1 of 1

**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. All test results are related to the tested sample only.


**VIRAT GLOBAL LAB**  
 (A Division of Aseries Envirotek India Pvt. Ltd.)

  
**Authorized Signatory**  
 D. K. Yadav  
 Lab In-charge