

Ref. JKCEMENT/ENV./EC/Plant/2024-25/01/19

Date: 16.05.2024

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

**Subject: Half Yearly Environmental Clearance Compliance Status Report for period October 2023 to March 2024 for Greenfield integrated Clinker/ Cement manufacturing unit (5.28MTPA Clinker; 6.0MTPA Cement) and captive power plant including waste heat recovery plant and Power generation thorough WHRB (80 MW FBC; 30 MW WHRB) and expansion in Clinker Production Capacity from 5.28 Million TPA to 6.6 Million TPA, Power generation capacity of WHRS from 30 MW to 50 MW, DG Set from 500 KVA to 2500 KVA and reduction in Captive Power Plant Capacity from 80 MW to 40 MW in Phased manner without change in Cement Production capacity of 6.0 Million TPA at Villages: Devra, Hardua, Puraina, Sotipura & Madaiyan, Tehsil: Amanganj, District: Panna (Madhya Pradesh) by M/s. JK Cement Limited.**

Ref.: 1- Environment Clearance vide no IA-J-11011/224/2016-IA.II(I) dated 14.10.2020  
2- Environment Clearance vide no IA-J-11011/224/2016-IA. II (I) dated 02.03.2022.

Dear Sir,

With reference to above stated references of Environment Clearance, please find herewith enclosed half yearly Environmental Clearance Compliance Status Report for period October 2023 to March 2024 for Greenfield integrated Clinker/ Cement manufacturing unit (5.28MTPA Clinker; 6.0MTPA Cement) and captive power plant including waste heat recovery plant and Power generation thorough WHRB (80 MW FBC; 30 MW WHRB) and expansion in Clinker Production Capacity from 5.28 Million TPA to 6.6 Million TPA, Power generation capacity of WHRS from 30 MW to 50 MW, DG Set from 500 KVA to 2500 KVA and reduction in Captive Power Plant Capacity from 80 MW to 40 MW in



Corporate Office

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Manufacturing Units at :  
Nimbahera, Mangrol, Gotan (Rajasthan) | Muddapur (Karnataka)  
Jharli (Haryana) | Katni (M.P.) | Aligarh (U.P.) | Balasinor (Gujarat)



Phased manner without change in Cement Production capacity of 6.0 Million TPA at Villages: Devra, Hardua, Puraina, Sotipura & Madaiyan, Tehsil: Amanganj, District: Panna (Madhya Pradesh) by M/s. JK Cement Limited for your kind information and record, please.

Thanking you,

Yours Sincerely

For: JK Cement Limited



Kapil Agarawal

(Authorised Signatory)

Encl.: As above CC:

1. Joint Director/Scientist -D, Compliance and Monitoring Division-IA Division, Ministry of Environment, Forest & Climate Change Indira Paryavaran Bhawan, Jorbagh Road, New Delhi 2. Member Secretary, MP Pollution Control Board, Paryawaran Parisar, E-5, Arera Colony, Bhopal (MP).
3. Regional Officer, Regional Office, MP Pollution Control Board, Makronia, Sagar (MP)
4. Regional Director- CPCB, Paryawaran Parisar, E-5, Arera Colony, Bhopal (MP)



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**Environment Clearance (EC) Compliance Report for period from October' 2023 to March' 2024**

**Environment Clearance vide no. IA-J-11011/224/2016-IA.II(I) dated 14.10.2020**

<b>Greenfield integrated Clinker/ Cement manufacturing unit (5.28 MTPA Clinker; 6.0 MTPA Cement) and captive power plant including waste heat recovery plant and Power generation thorough WHRB (80 MW FBC; 30 MW WHRB) of M/s. Jaykaycem (Central) Ltd located at Villages Devra, Hardua, Puraina, Sotipura &amp; Madaiyan, Tehsil: Amanganj (Old Pawai), Dist. Panna, Madhya Pradesh.</b>		
<b>Environment Clearance vide no. IA-J-11011/224/2016-IA.II(I) dated 14.10.2020</b>		
<b>Specific Condition</b>		
<b>S. No.</b>	<b>EC Conditions</b>	<b>EC Compliance Status</b>
i.	Project proponent shall comply with the outcome of the court case pending before the Lok Adalat, Panna.	<b>Complied.</b> Court case dispose off by Lok Adalat, Panna. Dispose off copy enclosed as <b>Annexure-1</b> .
ii.	Following points shall be complied. a. Residential colony as proposed by PP in North East direction of the plot is not permitted. PP shall not construct any residential accommodation inside the project area. b. CPP shall be relocated in the area allocated for colony to reduce dust and noise impact on village in south west area of the proposed site. c. A 100 m wide green belt shall be provided on south west side of the plant to protect the village from pollution. d. Revised lay out map to this effect shall be furnished within 15 days to the Ministry and its Regional Office for records.	<b>Complied</b>  a. No Colony is constructed in North East direction. b. No CPP is installed. c. Green belt of 100m wide in SW side of the plant boundary towards the village. d. Revised layout has already been submitted to the Ministry on 15.10.2020 in soft copy by mail. Layout copy enclosed as <b>Annexure-2</b> .
iii.	No further addition of plant and machinery shall be permitted in the present plot for capacity expansion.	<b>Complied.</b> No further addition of plant and machinery have been done in the present plot for capacity expansion.
iv.	Only surface water shall be used and ground water abstraction shall not be permitted.	<b>Complied</b> We have permission to lift water from Ken River which is being used as per agreement with WRD, Bhopal letter No. VAR.P.N.M/31/TAK/RA.SAT-910/2020576, Bhopal, dated 29.10.2020. Agreement copy enclosed as <b>Annexure-3</b> .
v.	CER expenditure shall be Rs. 38.80 Crores and all CER activities shall be executed in three years.	<b>Complied with 1<sup>st</sup> year CER Budget target and Compliance in Progress with 2<sup>nd</sup> year CER budget expenditure</b> We would like to appraise you that our year wise expenditure under CER is following:  1 <sup>st</sup> year- November 22 to October 23- Rs. 744.72 Lakhs 2 <sup>nd</sup> year (November 23 to till March 2024)- Rs. 197.81 Lakh (2 <sup>nd</sup> year will be completed in Oct. 24)  Our total expenditure done from November 2022 to March 2024 is Rs. 942.52 Lakhs.

**Environment Clearance (EC) Compliance Report for period from October' 2023 to March' 2024**

**Environment Clearance vide no. IA-J-11011/224/2016-IA.II(I) dated 14.10.2020**

vi.	Health checkup center for Employees and Community shall be arranged with Health cards to neighboring community dwellers.	<b>Complied</b> Health checkup center for employees have been arranged and record is maintained. And our Mobile Medical Unit (MMU) visit daily in a village and provide medical facility to community and record is being maintained on daily basis.
vii.	Particulate emission shall be restricted to 20mg/Nm <sup>3</sup> instead of 25 mg/Nm <sup>3</sup> as proposed by PP. PP had agreed for the revised PM levels as the site has dwellings and agriculture land just within 200 m from plant boundary.	<b>Complied.</b> We are complying with emission limit of 20 mg/Nm <sup>3</sup> . Stack emission report is given below:

Stack	Standard value (in mg/Nm <sup>3</sup> )	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24
Cement mill	20 mg/Nm <sup>3</sup>	8.60	9.13	8.92	8.38	11.58	12.31
Coal mill		8.64	9.89	8.64	9.65	10.30	10.62
Cooler		9.45	7.58	9.58	6.74	8.27	9.25
Raw mill Kiln		9.20	8.77	8.29	4.20	10.82	9.54

viii.	Energy consumption in proposed plant (Thermal- 725 Kcal/kg Clinker; OPC 95 kwh/t and PPC- 70 kwh/t) is very high in comparison to other cement plants in India (Thermal- 670 kcal/kg; OPC- 85 kwh/t and PPC- 65 kwh/t). PP shall install state of the art technology to conserve energy and meet GOI's targets for GHG emissions.	<b>Complied</b> Our average power consumption (Oct. 23 to Mar. 24) for manufacture of OPC & PPC and thermal energy are following: OPC= 76.63 Kwh/ MT PPC= 52.69 Kwh/MT Thermal energy consumption- 739 Kcal/kg Clinker  We have done following efforts to reduce the thermal energy consumption: <ol style="list-style-type: none"> <li>1- False air reduction done From Currently 8 % to 6.3 %.</li> <li>2- TAD NOx reduction damper is opened from 50 % to 80 % to Optimized Recuperation efficiency.</li> <li>3- Shift Wise Comparison of Heat to optimize SHC per shift (Optimizer Data Provided per shift).</li> <li>4- TAD male female joints near PC Covered completely result in temperature drop across TAD duct is 25 degree.</li> <li>5- Online Heat Balance with Actual CV based SHC is provided in CCR to monitor the current Specific Heat.</li> <li>6- Optimized Fine coal temperature from 60 to 65 degree by reducing False air across Coal Mill Circuit.</li> <li>7- Optimized Raw meal Temperature from 75 to 80 degree by reducing False air across Raw Mill Circuit.</li> <li>8- Linear pile maintained by stacking of Coal to Reduce variation of its CV.</li> <li>9- Flap gate of Cyclone From 1 no to 4th cyclone from Top is made free.</li> </ol>
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**Environment Clearance (EC) Compliance Report for period from October' 2023 to March' 2024****Environment Clearance vide no. IA-J-11011/224/2016-IA.II(I) dated 14.10.2020**

10- Cooler Fan Specific air input is maintained at 1.85 Nm<sup>3</sup>/kg of Clinker @ 10000 TPD as per HMBD by TKIL.

We have installed state of the art technology to conserve energy and meet GOI's targets for GHG emissions.

ix. 2-3% Alternate fuels shall be used. Monitoring of emissions shall be carried out as per MoEF&CC notifications applicable to use of alternate fuels.

**Complied**  
Alternate fuel consumption is being increased continuously and achieved avg. approx. 2% Thermal Substitution Rate (TSR) during October 23 to March 24. Emission level is well within the standard as per the MoEF&CC Notification. Plant was commissioned on 02<sup>nd</sup> November 2022. Monitoring was conducted on 31.10.2023 and latest Dioxins and furans was monitored on 21.03.2024 by Vimta lab Limited. Report copy attached below.

**Vimta Labs Limited**

Registered Office  
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**ISSUED TO:**

M/S. VIRAT GLOBAL LAB  
Unit: - J.K. CEMENT WORKS  
Village: Harduwalen, Ichsil- Amangari,  
Dist: -Panna, (M.P.)-48844  
INDIA.

Report Number : VLL/VLS/23/23741/001  
Issued Date : 2024.04.12  
P.O. Number : VGI/EMT/16/2023  
P.O. Date : 16/10/2023

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**SAMPLE PARTICULARS**

Source Emission Monitoring for Raw Mill Kiln Bag House Stack-1  
(Co-Processing with 70% Pel Coke & 30% Indian coal  
Calcliner: 95% Indian Coal + 05% Petcoke  
Fuel (TPH): Coal (TPH) & Petcoke (TPH): Kiln-14TPH, Calcliner: 42 TPH, AFR Feed-05TPH  
Fuel Mix: Kiln: 70% Petcoke + 30% Coal;  
Calcliner: 95% Indian coal + 05% Petcoke

Sample Registration Date : 2024.03.25 Sample Collection Date : 2024.03.21  
Analysis Starting Date : 2024.03.25 Analysis Completion Date : 2024.04.12  
Test Required : PM, SO<sub>2</sub>, NO<sub>x</sub>, HCl, HF, CO, O<sub>2</sub> and TOC,  
Kiln Feed (10:00 - 17:30) Hrs : 6511PH  
Sample Collected by Vimta Labs Ltd.

**TEST REPORT**

Sr. No.	Parameters	UoM	Method of Testing	Results	Limits as per MoEF&CC Notification GSR 497(E)
1	Diameter of stack	m	-	5.42	--
2	Stack Height	m	-	183	--
3	Flue gas temperature	°C	-	81	--
4	Oxygen as O <sub>2</sub>	%	USEPA Method -3	6.0	--
5	Velocity	m/sec	USEPA Method -3	9.85	--
6	Volumetric flow rate	Nm <sup>3</sup> /Sec	USEPA Method -3	185.83	--
7	Particulate Matter	mg/Nm <sup>3</sup>	USEPA method-5	18.0	<30
8	Sulphur Dioxide	mg/Nm <sup>3</sup>	USEPA method -6C	13.5	<100
9	Oxides of Nitrogen, NO <sub>x</sub> as NO <sub>2</sub>	mg/Nm <sup>3</sup>	USEPA method -7E	402.5	<800
10	Hydrogen Chloride as HCl	mg/Nm <sup>3</sup>	USEPA method -26	3.2	<10
11	Hydrogen Fluoride as HF	mg/Nm <sup>3</sup>	USEPA method -13	<0.1	<1.0
12	Carbon Monoxide as CO	mg/Nm <sup>3</sup>	USEPA method -3A	62.5	<100
13	Total Organic Compounds as TOC	mg/Nm <sup>3</sup>	USEPA method -40 & MMMS(10)	2.8	<10

All the Values are represented at 10% O<sub>2</sub>

Dr. SubbaReddy Mallampalli  
Manager-Environment

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**ISSUED TO:**

M/S. VIRAT GLOBAL LAB  
Unit: - J.K. CEMENT WORKS  
Village: Harduwalen, Ichsil- Amangari,  
Dist: -Panna, (M.P.)-48844  
INDIA.

Report Number : VLL/VLS/23/23741/002  
Issued Date : 2024.04.12  
P.O. Number : VGI/EMT/16/2023  
P.O. Date : 16/10/2023

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**SAMPLE PARTICULARS**

Source Emission Monitoring for Raw Mill Kiln Baghouse Stack-1  
(Co-Processing with 70% Pel Coke & 30% Indian coal, AFR: RDF)  
Co-Processing with 70% Pel Coke & 30% Indian coal AFR Feed-05TPH  
Calcliner: 95% Indian Coal + 05% Petcoke  
Fuel (TPH): Coal (TPH) & Petcoke (TPH): Kiln-14TPH, Calcliner: 42 TPH

Sample Registration Date : 2024.03.25 Sample Collection Date : 2024.03.21  
Analysis Starting Date : 2024.03.25 Analysis Completion Date : 2024.04.12  
Test Required : PCDD & PCDF  
Sample collected by Vimta Labs Ltd. Out sourcing registration Number EKA2-24-03-02313 and out Sourced to ALS Czech Republic.

**TEST REPORT**

Sr.No	Congeners of Dioxins and Furans	UoM	Results
1	2,3,7,8-TCDD	ng/Nm <sup>3</sup> TEQ	0.0166
2	1,2,3,7,8-PeCDD		0.0286
3	1,2,3,4,7,8-HxCDD		0.0005
4	1,2,3,6,7,8-HxCDD		0.0014
5	1,2,3,7,8,9-HxCDD		0.0009
6	1,2,3,4,6,7,8-HpCDD		0.0001
7	OCDD		0.0000
8	2,3,7,8-TCDF		0.0039
9	1,2,3,7,8-PeCDF		0.0007
10	2,3,4,7,8-PeCDF		0.0616
11	1,2,3,4,7,8-HxCDF		0.0023
12	1,2,3,6,7,8-HxCDF		0.0027
13	1,2,3,7,8,9-HxCDF		0.0002
14	2,3,4,6,7,8-HpCDF		0.0025
15	1,2,3,4,6,7,8-HpCDF		0.0000
16	1,2,3,4,7,8,9-HpCDF		0.0000
17	OCDF		0.0000
Total Furans & Dioxins		ng/Nm <sup>3</sup> TEQ	0.1221
Total Furans & Dioxins		ng/Nm <sup>3</sup> TEQ Corrected to 10% O <sub>2</sub> Concentration	0.0893
Limits as per MoEF&CC Notification GSR 497(E)			<0.1

Method of Testing: As per USEPA 23 A & 8290  
Instrument used: Auto spec Premier (HRGC/HRMS), Detection Limit: 0.01ng

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Manager-Environment

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CIN : L24110TG1990PLC011977

x. Greenbelt shall be provided in the villages on southern side of the plant area. This will in addition to normal green belt of 33 % inside the plant using 2500 trees per ha.

**Complied**  
We are doing plantation in villages on southern side of the plant area.

xi. Plant shall operate on ZLD.

**Complied**

**Environment Clearance (EC) Compliance Report for period from October' 2023 to March' 2024****Environment Clearance vide no. IA-J-11011/224/2016-IA.II(I) dated 14.10.2020**

		Plant is being operated on ZLD. The Waste water generated from the Waste Heat Recovery System (WHRS) is used in the mill spray.
xii.	100 % Solid waste generated shall be reused.	<b>Complied</b> Solid waste (Material collected in Air Pollution Control Devices) is recycled back in the process.
xiii.	All plant roads shall be paved and cleaned regularly using industrial vacuum cleaners. Dust collected from roads and shop floors shall be recycled.	<b>Complied</b> All plant roads have been paved and cleaned regularly using industrial vacuum cleaners (02 Nos.). Dust collected from roads and shop floors are recycled.
xiv.	RWH and GW recharge shall be carried out to recharge more than 100 % of annual water consumption.	<b>Complied</b> RWH and GW recharge have been carried out to recharge more than 100 % of annual water consumption. Our process (cement plant including WHRS annual) water consumption in FY 2023-24 is 420820 m3 and rain water harvested qty. is more than that.

**B. General EC Conditions:****I. Statutory compliance**

i.	The Environment Clearance (EC) granted to the project/ activity is strictly under the provisions of the EIA Notification, 2006 and its amendments issued from time to time. It does not tantamount/ construe to approvals/ consent/ permissions etc., required to be obtained or standards/conditions to be followed under any other Acts/Rules/Subordinate legislations, etc., as may be applicable to the project.	<b>Complied.</b> Amendment is obtained under the provisions of the EIA Notification, 2006.
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**II. Air quality monitoring and preservation**

i.	The project proponent shall install 24x7 Continuous Emission Monitoring System (CEMS) at process stacks to monitor stack emission as well as Continuous Ambient Air Quality Station (CAAQS) for monitoring AAQ parameters with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time. The CEMS and CAAQMS shall be connected to SPCB and CPCB online servers and calibrate these systems from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.	<b>Complied</b> <ol style="list-style-type: none"> <li>PM analysers installed at: <ul style="list-style-type: none"> <li>➤ Raw mill/Kiln,</li> <li>➤ Cement mill,</li> <li>➤ Coal mill</li> <li>➤ Cooler mill stack</li> </ul> </li> <li>SO<sub>2</sub> and NO<sub>x</sub> analysers installed at Raw mill/Kiln stack.</li> <li>Data connectivity done at MPPCB and CPCB.</li> <li>Calibrate of these systems are being done time to time according to equipment supplier.</li> </ol>
ii.	The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through labs recognized under Environment (Protection) Act, 1986.	<b>Complied</b> Fugitive emission is being monitored in every quarter in the plant by the recognized Lab under EP Act. Fugitive emission report is given below:

**Environment Clearance (EC) Compliance Report for period from October' 2023 to March' 2024**

**Environment Clearance vide no. IA-J-11011/224/2016-IA.II(I) dated 14.10.2020**

	Sources/Locations	Parameter	Results (in µg/m3)		
			Aug-23	Nov-23	Jan-24
	Near packing Plant area	SPM	308.5	284.6	296.3
	Near Gypsum yard		284.5	278.2	302.4
	Near Raw Mill		292.0	273.4	284.5
	Near Coal Mill		288.6	280.5	275.6
	Near Cement Mill		318.6	302.0	298.5
	Near Cooler		322.0	308.2	302.7
	Near Coal Shed		276.0	282.6	288.6
	Near Lime Stone Shed		280.2	268.5	275.6
iii.	The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.	<b>Complied.</b> Leakage detection and mechanized bag cleaning facilities for better maintenance of bags have been provided with APCDs.			
iv.	Ensure covered transportation and conveying of ore, coal and other raw material to prevent spillage and dust generation; Use closed bulkers for carrying flyash.	<b>Complied</b> 1.Transportation of raw material with covered truck by tarpaulin is being done. 2. All belt conveyors are covered. 3.Closed bulkers are being used for transporting the fly ash.			
v.	Provide wind shelter fence and chemical spraying on the raw material stock piles; and	<b>Complied</b> Covered shed has been provided for all raw materials.			
vi.	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	<b>Complied</b> All belt conveyors are covered.			
vii.	Ventilation system shall be designed for adequate air changes as per the prevailing norms for all tunnels, motor houses, cement bagging plants.	<b>Complied</b> Sufficient numbers of Bag Filters have been provided			
<b>III. Water quality monitoring and preservation</b>					
i.	The project proponent shall regularly monitor ground water quality atleast 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.	<b>Complied</b> Ground water quality is being monitored twice a year (pre and post monsoon) of plant and adjacent areas through recognized/NABL accredited Lab. Ground water quality report enclosed as <b>Annexure no. 4</b>			
ii.	Adhere to ‘Zero Liquid Discharge’.	<b>Complied</b> Plant is being operated on ZLD. The Waste water generated from the Waste Heat Recovery System (WHRS) is used in the mill spray.			
iii.	Sewage Treatment Plant shall be provided for treatment of domestic waste water to meet the prescribed standards.	<b>Complied</b> Total 07 Nos. of STPs have been installed. Details of capacities are following: ➤ 5 KLD Capacity- 04 Nos ➤ 10 KLD Capacity- 02 Nos. ➤ 300 KLD Capacity- 01 Nos.			

**Environment Clearance (EC) Compliance Report for period from October' 2023 to March' 2024****Environment Clearance vide no. IA-J-11011/224/2016-IA.II(I) dated 14.10.2020**

iv.	Garland drains and collection pits shall be provided for each stock pile to arrest the run-off in the event of heavy rains and to check the water pollution due to surface runoff	<b>Complied</b> Drainages are provided along with the roads and These drainages are covering surrounding area of raw material sheds also. These drainages are connected with reservoir.
V	Water meters shall be provided at the inlet to all unit processes in the cement plant	<b>Complied</b> All water meters at the inlet to all unit processes like raw mill, WHRS, cooler, cement mill etc. have been installed.
Vi	The project proponent shall make efforts to minimize water consumption in the cement plant complex by segregation of used water, practicing cascade use and by recycling treated water.	<b>Complied</b> <ul style="list-style-type: none"> <li>➤ Dual Flush Toilets have been installed.</li> <li>➤ Aerator Faucets are provided in taps.</li> <li>➤ Sewage treatment plant is installed and treated water of sewage is being used in plant activities.</li> <li>➤ WHRS treated waste water is being used in mill.</li> </ul>

**IV. Noise and vibration monitoring and prevention**

i.	Noise quality shall be monitored as per the prescribed Noise Pollution (Regulation And Control) Rules,2000 and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report	<b>Complied</b> Noise monitoring is being conducted as per the prescribed Noise Pollution (Regulation And Control) Rules,2000. Report is given below:
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Locations	Month	Limit dB (A)	Results (in dB (A))					
			Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24
Near Guest House Area	Day time	75	50.9	51.23	51.26	53.4	56.4	58.8
	Night time	70	43.22	42.18	54.98	42.6	47.6	50.8
Near Security Barrack	Day time	75	48.6	49.71	43.14	62.4	60.8	63.2
	Night time	70	42.14	39.01	35.97	53.8	52.6	55.8
Near Zero Point Area	Day time	75	58.8	56.82	55.27	65.8	62.7	65.1
	Night time	70	40.12	41.38	42.71	55.2	53.8	57
Behind Packing Plant Area	Day time	75	49.08	50.92	50.92	65.6	64.2	66.6
	Night time	70	44.21	45.62	39.02	40.6	42.1	45.3
Near Main Gate	Day time	75	60.3	58.82	63.6	66.3	67.5	69.9
	Night time	70	42.19	43.18	44.57	57.9	59.6	62.8
Near CCR building	Day time	75	54.4	55.72	64.26	60.2	62.2	64.6
	Night time	70	41.37	42.47	55.12	49.5	51.7	54.9
Harduaken Village	Day time	55	45.67	43.44	52.11	51.8	52.5	53.4
	Night time	45	32.12	33.18	36.53	40.7	41.5	43.3
Sotipura Village	Day time	55	46.27	45.91	50.06	50.4	51.7	51.6
	Night time	45	34.39	33.18	38.91	40.2	40.8	42.6
Purwa Village	Day time	55	43.47	44.95	47.9	50.4	53.6	52.5
	Night time	45	33.29	33.18	33.68	42.3	43.9	41.7
Kakra Village	Day time	55	47.27	45.29	48.59	51.4	52.1	52.8
	Night time	45	37.36	36.92	40.12	41.2	40.3	42.6
Pagra Village	Day time	55	44.28	46.92	51.38	51.6	53.9	51.8
	Night time	45	33.28	31.84	37.15	41.5	42.4	43.2

**V. Energy Conservation measures**

i.	Energy conservation measures may be adopted such as adoption of solar energy and provision of LED lights etc. to minimize the energy	<b>Complied</b> We have installed LED lights (Nos. 4500) including offices, residential area, street light.
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**Environment Clearance (EC) Compliance Report for period from October' 2023 to March' 2024****Environment Clearance vide no. IA-J-11011/224/2016-IA.II(I) dated 14.10.2020**

	consumption.	Solar Power generation system has been installed on roof top of Admin Building with capacity 75.60 KW. Solar Street Lights-10 nos. have been installed.
ii.	Maximize utilization of alternate fuels and Co-processing to achieve best practice norms	<b>Complied</b> We have consumed 8117 MT since October 23 to March 24.
<b>VI. Waste management</b>		
i.	Kitchen waste shall be composted or converted to biogas for further use.	<b>Complied</b> We have installed waste composter of capacity 150 Kg/Day and compost is used in horticulture.
<b>VII. Green Belt</b>		
i.	Green belt shall be developed in an area equal to 33% of the plant area with a native tree species in accordance with CPCB guidelines. The greenbelt shall inter alia cover the entire periphery of the plant.	<b>Complied</b> Till FY 2024, a total of 63558 No. of saplings have been planted in 25.42 Ha. in and around the periphery of the plant area which is 20.63% of total land area i.e. 123.25 Ha.
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.	<b>Compliance in progress</b> First baseline data for FY 2023-24 is being prepared then further reduction plan will be prepared and submitted soon.
<b>VIII. Public hearing and human health issues</b>		
i.	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	<b>Complied</b> Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan is prepared and implemented. Onsite emergency plan was approved by DISH vide OSEP NO: RE08072212223371 dated 04.08.2022 Approval of onsite emergency plan is mentioned below.


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

**OSEP NO : RE08072212223371**      **Category : Under Section 2CCB**

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

**Sub:-On-Site Emergency Plan.**  
**Ref:-** Your documents duly verified by the occupier & on the subject Dated **01/08/2022**  
Please be informed that documents in which the Occupier have disclosed the information related to hazard at his installation in compliance of the Section 41-B of the Factories Act, 1948 and which also described his On-site Emergency Plan, (after supplementing certain modifications by the MAHC Cell distinctively marked on the plan) is hereby **Notified Final** with the following stipulations for the period from **04/08/2022 to 03/08/2024 :-**

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

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

**5. That report/ observations of mock drills/ rehearsal or action at any emergency situation that might have arisen, shall be furnished by the factory management to this cell to assess efficiency of the plan.**

**6. The necessary copies of this plan or part thereof be got multiplied by the factory management and provided to all concerning statutory authorities and other persons and also placed at designated emergency control center in an accessible place to all concerned in the factory.**

**7. That in case of failure to comply with the stipulations or the relevant provisions of the laws, not withstanding legal proceedings to which the occupier may be subjected he or his-self will bear (for any suspension/ refusal/ rejection of his license to work the factory) the liability of such action.**

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

**ENCLOSED:-Copy of on site emergency plan**

Indore  
Dated : 04/08/2022

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

Validity unknown  
Digitally Signed by: PRADEEP K. GOPALRAO  
WADIKAR (INDORE)  
Date: 10-Aug-2022 12:44:18

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

**Environment Clearance (EC) Compliance Report for period from October' 2023 to March' 2024****Environment Clearance vide no. IA-J-11011/224/2016-IA.II(I) dated 14.10.2020**

ii.	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	<b>Complied</b> Provision has been made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, toilets, STP, safe drinking water, medical health care etc.
iii.	Occupational health surveillance of the workers shall be done on a regular basis and records maintained.	<b>Complied</b> Occupational health surveillance of the employees & workers is being carried out on a regular basis and records are maintained.

**IX. Corporate Environment Responsibility**

i.	The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 1st May 2018, as applicable, regarding Corporate Environment Responsibility.	<b>Complied with 1<sup>st</sup> year CER Budget target and Compliance in Progress with 2<sup>nd</sup> year CER budget expenditure</b> We would like to appraise you that our year wise expenditure under CER is following:  1 <sup>st</sup> year- November 22 to October 23- Rs. 744.72 Lakhs 2 <sup>nd</sup> year (November 23 to till March 2024)- Rs. 197.81 Lakh (2 <sup>nd</sup> year will be completed in Oct. 24)  Our total expenditure done from November 2022 to March 2024 is Rs. 942.52 Lakhs.
ii.	The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/ deviation/ violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.	<b>Complied</b> Company has Corporate Environmental Policy duly approved by the Board.
iii.	A Separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.	<b>Complied</b> Environment cell with technically qualified personnel is established at the plant level & company HQ level under the control of senior Executive, who will directly to the head of the organization.

**X. Miscellaneous**

i.	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently	<b>Complied</b> Published in two local newspapers namely Nav Swadesh and Raj Express dated 15.10.2020 and copy has been submitted to the Ministry and its regional office on 15.10.2020.
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**Environment Clearance (EC) Compliance Report for period from October' 2023 to March' 2024**

**Environment Clearance vide no. IA-J-11011/224/2016-IA.II(I) dated 14.10.2020**

	advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.	Copy of newspaper enclosed as <b>Annexure no. 5</b>
ii.	The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.	<b>Complied</b> Copy of the EC has been sent by speed post to the Heads of local bodies, Panchayats & govt. bodies submitted vide letter No. PN/EMD/MoEF/F01/024, dated 15.10.2020 by speed post Copy of acknowledgement and speedpost enclosed as <b>Annexure-6.</b>
iii.	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.	<b>Complied</b> Six monthly compliance status report for EC expansion dated 02.03.2022 is being submitted to the MoEF&CC & its concerned Regional Office, CPCB and MPPCB along with result of monitored data.
iv.	The project proponent shall monitor the criteria pollutants level namely; PM10, SO <sub>2</sub> , NO <sub>x</sub> (ambient levels as well as stack emissions) or critical sectorial parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.	<b>Complied</b> Pollutants viz. PM10, PM2.5, SO <sub>2</sub> , NO <sub>x</sub> are being monitored in ambient air and PM is being monitored in the stack of Kiln+Raw mill, Coal Mill, Clinker Cooler and Cement Mill. SO <sub>2</sub> and NO <sub>x</sub> are being monitored in the stack of Kiln+Raw mill. The data is displayed at plant main gate and also displayed at company's website along with six month compliance report. Real time data has also been linked with the CPCB & MPPCB server.
v.	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.	<b>Complied</b> Six monthly compliance status report for EC expansion dated 02.03.2022 is submitted to the MoEF&CC website and Climate Change at environment clearance portal.
vi.	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 website of the company.	<b>Complied</b> Form V for FY 2021-22 on 21/09/2022 and for FY 2022-23 on 27/09/2023 have been submitted to the MPPCB in prescribed format and put on the website of the company.
vii.	The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.	<b>Complied</b> Intimation regarding the date of financial closure, final approval of concerned authority, commencing the land development work and start of production have been submitted to the Ministry via. letter no. JAYKAYCEM/ENV./Corres./2022-23/03 dated 12.11.2022
viii.	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to	<b>Complied</b> Our total expenditure done from November 2022 to March 2024 is Rs. 942.52 Lakhs to comply with commitment made during public hearing.



**Environment Clearance (EC) Compliance Report for period from October' 2023 to March' 2024**

**Environment Clearance vide no. IA-J-11011/224/2016-IA.II(I) dated 14.10.2020**

	the Expert Appraisal Committee.	
ix.	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).	<b>Complied.</b> Expansion is done after obtaining amendment in EC.
x.	Concealing factual data or submission of false / fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.	Agreed and noted
xi.	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Agreed and noted
xii.	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	Agreed and noted
xiii.	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.	Agreed and noted
xiv.	Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	Agreed and noted

Yours Sincerely

For: JK Cement Limited



Kapil Agrawal

(Authorised Signatory & Unit Head)




**Environment Clearance (EC) Compliance Report for period from October' 2023 to March' 2024****Environment Clearance vide no IA-J-11011/224/2016-IA. II (I) dated 02.03.2022**

Name of the Project- Expansion in Clinker Production Capacity from 5.28 Million TPA to 6.6 Million TPA, Power generation capacity of WHRS from 30 MW to 50 MW, DG Set from 500 KVA to 2500 KVA and reduction in Captive Power Plant Capacity from 80 MW to 40 MW in Phased manner without change in Cement Production capacity of 6.0 Million TPA at Villages: Devra, Hardua, Puraina, Sotipura & Madaiyan, Tehsil: Amanganj, District: Panna (Madhya Pradesh) by M/s. JK Cement Ltd.

**Environment Clearance vide no IA-J-11011/224/2016-IA. II (I) dated 02.03.2022****Specific Condition**

S. No.	EC Conditions	EC Compliance Status																																											
i.	Particulate matter emission from cement mill stacks shall be less than 20 mg/Nm3 and for CPP less than 30 mg/Nm3.	<b>Complied.</b> We are complying with emission limit of 20 mg/Nm3.																																											
<table><tr><th>Stack</th><th>Standard value (in mg/Nm3)</th><th>Oct-23</th><th>Nov-23</th><th>Dec-23</th><th>Jan-24</th><th>Feb-24</th><th>Mar-24</th></tr><tr><td>Cement mill</td><td rowspan="4">20 mg/Nm<sup>3</sup></td><td>8.60</td><td>9.13</td><td>8.92</td><td>8.38</td><td>11.58</td><td>12.31</td></tr><tr><td>Coal mill</td><td>8.64</td><td>9.89</td><td>8.64</td><td>9.65</td><td>10.30</td><td>10.62</td></tr><tr><td>Cooler</td><td>9.45</td><td>7.58</td><td>9.58</td><td>6.74</td><td>8.27</td><td>9.25</td></tr><tr><td>Raw mill Kiln</td><td>9.20</td><td>8.77</td><td>8.29</td><td>4.20</td><td>10.82</td><td>9.54</td></tr></table>									Stack	Standard value (in mg/Nm3)	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Cement mill	20 mg/Nm <sup>3</sup>	8.60	9.13	8.92	8.38	11.58	12.31	Coal mill	8.64	9.89	8.64	9.65	10.30	10.62	Cooler	9.45	7.58	9.58	6.74	8.27	9.25	Raw mill Kiln	9.20	8.77	8.29	4.20	10.82	9.54
Stack	Standard value (in mg/Nm3)	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24																																						
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Raw mill Kiln		9.20	8.77	8.29	4.20	10.82	9.54																																						
ii.	Air cooled condenser shall be used in the captive power plant in place of water-cooled system.	<b>Agreed.</b> In first phase, CPP has not been installed. We assure that CPP will be installed with Air cooled condenser in the captive power plant.																																											
iii.	Project proponent is permitted to abstract up to 2140 KLD ground water, for next 15 months from the date of issue of the Environment Clearance after obtaining requisite permission from the concerned Competent Authority. Thereafter, water from mine pit and Ken River shall be used and ground water abstraction is not permitted.	<b>Complied.</b> We have obtained NOC for ground water abstraction of 2140 KLD for industrial purpose vide NOC No. CGWA/NOC/IND/ORIG/2022/16811 valid from 15.10.2022 to 14.10.2025. Copy is mentioned below.																																											



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

**(भूजल निकासी हेतु अनापत्ति प्रमाण पत्र)**  
**NO OBJECTION CERTIFICATE (NOC) FOR GROUND WATER ABSTRACTION**

Project Name:	Jaykaycem (central) Limited		
Project Address:	Harduaken, Puraina, Sotipura And Madaiyan		
Village:	Harduaken	Block:	Pawai
District:	Panna	State:	Madhya Pradesh
Pin Code:			
Communication Address:	Harduaken, Puraina, Sotipura And Madaiyan, Pawai, Panna, Madhya Pradesh - 485441		
Address of CGWB Regional Office :	Central Ground Water Board North Central Region, Block-1, 4th Floor, Paryawas Bhawan, Area Hills, Jail Road, Bhopal, Madhya Pradesh - 462011		

1. NOC No.:	CGWA/NOC/IND/ORIG/2022/16811	3. Category:	Safe
2. Application No.:	21-4/1412/MP/IND/2022	(GWRE 2020)	
4. Project Status:	New Project	5. NOC Type:	New
6. Valid from:	15/10/2022	7. Valid up to:	14/10/2025
8. Ground Water Abstraction Permitted:			

Fresh Water		Saline Water		Dewatering		Total	
m <sup>3</sup> /day	m <sup>3</sup> /year	m <sup>3</sup> /day	m <sup>3</sup> /year	m <sup>3</sup> /day	m <sup>3</sup> /year	m <sup>3</sup> /day	m <sup>3</sup> /year
2140.00	706200.00						

9. Details of ground water abstraction /Dewatering structures

Abstraction Structure*	Total Existing No.:0				Total Proposed No.:11							
	DW	DCB	BW	TW	MP	MPu	DW	DCB	BW	TW	MP	MPu
	0	0	0	0	0	0	0	0	0	11	0	0

\*DW- Dug Well; DCB-Dug-cum-Bore Well; BW-Bore Well; TW-Tube Well; MP-Mine Pit;MPu-Mine Pumps

10. Ground Water Abstraction/Restoration Charges paid (Rs.): 2118600.00

11. Number of Piezometers(Observation wells) to be constructed/ monitored & Monitoring mechanism.

No. of Piezometers	Monitoring Mechanism		
	Manual	DWLR**	DWLR With Telemetry
2	0	1	1

\*\*DWLR - Digital Water Level Recorder

**(Compliance Conditions given overleaf)**  
This is an auto generated document & need not to be signed.

18/11, जयमनार हाउस, मानसिंह रोड, नई दिल्ली - 110011 / 18/11, Jannagar House, Mansingh Road, New Delhi-110011  
Phone: (011) 23383561 Fax: 23382051, 23386743  
Website: cgwa-noc.gov.in  
**पानी बचाये - जीवन बचाये**  
**SAVE WATER - SAVE LIFE**

**NOC copy**

iv.	Total water requirement after expansion shall not exceed 5125 KLD. Water shall be sourced from ground (195 KLD) and 4930 KLD from mine pit and Ken river.	<b>Complied.</b> Total water requirement is not exceed 5125 KLD. The current total water consumption is 1146 KLD and ground water & Ken river water consumption 86 KLD and 1060 KLD. During the period from Oct-23 to Mar-24.																																												
	<table><tr><th rowspan="2">Months</th><th colspan="4">Total Water withdrawal (in KL)</th></tr><tr><th>Borewell</th><th>KL/Day</th><th>River</th><th>KL/Day</th></tr><tr><td>Oct-23</td><td>1162</td><td>37</td><td>17994</td><td>580</td></tr><tr><td>Nov-23</td><td>4338</td><td>145</td><td>33778</td><td>1126</td></tr><tr><td>Dec-23</td><td>2695</td><td>87</td><td>21313</td><td>688</td></tr><tr><td>Jan-24</td><td>2784</td><td>90</td><td>40137</td><td>1295</td></tr><tr><td>Feb-24</td><td>2754</td><td>95</td><td>34927</td><td>1204</td></tr><tr><td>Mar-24</td><td>2041</td><td>66</td><td>45820</td><td>1478</td></tr><tr><td><b>Total</b></td><td><b>15774</b></td><td><b>86</b></td><td><b>193969</b></td><td><b>1060</b></td></tr></table>		Months	Total Water withdrawal (in KL)				Borewell	KL/Day	River	KL/Day	Oct-23	1162	37	17994	580	Nov-23	4338	145	33778	1126	Dec-23	2695	87	21313	688	Jan-24	2784	90	40137	1295	Feb-24	2754	95	34927	1204	Mar-24	2041	66	45820	1478	<b>Total</b>	<b>15774</b>	<b>86</b>	<b>193969</b>	<b>1060</b>
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v.	Dioxins and furans shall be monitored twice a year during co-processing of hazardous waste and report shall be submitted to Regional Office of the MoEF &CC.	<b>Complied</b> Plant was commissioned on 02 <sup>nd</sup> November 2022. Monitoring was conducted on 31.10.2023 and latest Dioxins and furans was monitored on 21.03.2024 by Vimta lab Limited. Report copy attached below.																																												

# Environment Clearance (EC) Compliance Report for period from October' 2023 to March' 2024

Environment Clearance vide no IA-J-11011/224/2016-IA. II (I) dated 02.03.2022

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

**Vimta**  
Driven by Quality. Inspired by Science.

## ISSUED TO:

M/S. VIRAT GLOBAL LAB  
Unit : J.K. CEMENT WORKS  
Village- Harduaken, Tehsil- Amangari,  
Dist. - Panna, (M.P)-48844  
INDIA.

Report Number : VIL/VLS/23/23741/001  
Issued Date : 2024.04.12  
P.O. Number : VGL/EMT/16/2023  
P.O. Date : 16/10/2023

Page 1 of 2

**SAMPLE PARTICULARS** : Source Emission Monitoring for Raw Mill Kiln Bag House Stack-1  
(Co-Processing with 70% Pel Coke & 30% Indian coal  
Calciner: 95% Indian Coal + 05% Pelcoke  
Fuel (TPH): Coal (TPH) & Pelcoke (TPH); Kiln-16TPH, Calciner: 42 TPH, AFR Feed-05TPH  
Fuel Mix : Kiln: 70% Pelcoke + 30% Coal;  
Calciner: 95% Indian coal + 05% Pelcoke

Sample Registration Date : 2024.03.25 Sample Collection Date : 2024.03.21  
Analysis Starting Date : 2024.03.25 Analysis Completion Date : 2024.04.12  
Test Required : PM, SO<sub>x</sub>, NO<sub>x</sub>, HCL, HF, CO, O<sub>2</sub> and TOC.  
Kiln Feed (10:00 - 17:30)Hrs : 651TPH  
Sample Collected by Vimta Labs Ltd.

## TEST REPORT

Sr. No.	Parameters	UoM	Method of Testing	Results	Limits as per MoEF&CC Notification GSR 497(E)
1	Diameter of stack	m	-	5.42	**
2	Stack Height	m	-	183	**
3	Flue gas temperature	°C	-	81	**
4	Oxygen as O <sub>2</sub>	%	USEPA Method -3	6.0	**
5	Velocity	m/sec	USEPA Method -3	9.85	**
6	Volumetric flow rate	Nm <sup>3</sup> /sec	USEPA Method -3	185.83	**
7	Particulate Matter	mg/nm <sup>3</sup>	USEPA method-5	18.0	<30
8	Sulphur Dioxide	mg/nm <sup>3</sup>	USEPA method -6C	13.5	<100
9	Oxides of Nitrogen, NO <sub>x</sub> as NO <sub>2</sub>	mg/nm <sup>3</sup>	USEPA method -7E	402.5	<800
10	Hydrogen Chloride as HCl	mg/nm <sup>3</sup>	USEPA method -2a	3.2	<10
11	Hydrogen Fluoride as HF	mg/nm <sup>3</sup>	USEPA method -13	<0.1	<1.0
12	Carbon Monoxide as CO	mg/nm <sup>3</sup>	USEPA method -3A	62.5	<100
13	Total Organic Compounds as TOC	mg/nm <sup>3</sup>	USEPA method -40 & MM5(10)	2.8	<10

All the Values are represented at 10% O<sub>2</sub>

Dr. Subbaraj Mallampati  
Manager-Environment

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## ISSUED TO:

M/S. VIRAT GLOBAL LAB  
Unit : J.K. CEMENT WORKS  
Village- Harduaken, Tehsil- Amangari,  
Dist. - Panna, (M.P)-48844  
INDIA.

Report Number : VIL/VLS/23/23741/002  
Issued Date : 2024.04.12  
P.O. Number : VGL/EMT/16/2023  
P.O. Date : 16/10/2023

Page 1 of 1

**SAMPLE PARTICULARS** : Source Emission Monitoring for Raw Mill Kiln Baghouse Stack-1  
(Co-Processing with 70% Pel Coke & 30% Indian coal, AFR: RDF)  
Co-Processing with 70% Pel Coke & 30% Indian coal, AFR Feed-05TPH  
Calciner: 95% Indian Coal + 05% Pelcoke  
Fuel (TPH): Coal (TPH) & Pelcoke (TPH); Kiln-16TPH, Calciner: 42 TPH

Sample Registration Date : 2024.03. Sample Collection Date : 2024.03.21  
Analysis Starting Date : 2024.03. Analysis Completion Date : 2024.04.12  
Test Required : PCDD & PCDF  
Sample collected by Vimta Labs Ltd. Out sourcing registration Number EKA2-24-03-02313 and out Sourced to ALS Czech Republic.

## TEST REPORT

Sr.No	Congeners of Dioxins and Furans	UoM	Results
1	2,3,7,8-TCDD	ng/Nm <sup>3</sup> , TEQ	0.0166
2	1,2,3,7,8-PeCDD		0.0286
3	1,2,3,4,7,8-HxCDD		0.0005
4	1,2,3,6,7,8-HxCDD		0.0014
5	1,2,3,7,8,9-HxCDD		0.0009
6	1,2,3,4,6,7,8-HpCDD		0.0001
7	OCDD		0.0000
8	2,3,7,8-TCDF		0.0039
9	1,2,3,7,8-PeCDF		0.0007
10	2,3,4,7,8-PeCDF		0.0616
11	1,2,3,4,7,8-HxCDF		0.0023
12	1,2,3,6,7,8-HxCDF		0.0027
13	1,2,3,7,8,9-HxCDF		0.0002
14	2,3,4,6,7,8-HxCDF		0.0025
15	1,2,3,4,6,7,8-HpCDF		0.0000
16	1,2,3,4,7,8,9-HpCDF		0.0000
17	OCDF		0.0000
Total Furans & Dioxins		ng/Nm <sup>3</sup> , TEQ	0.1221
Total Furans & Dioxins		ng/Nm <sup>3</sup> , TEQ Corrected to 10% O <sub>2</sub> Concentration	0.0893
Limits as per MoEF&CC Notification GSR 497(E)			<0.1

Method of Testing: As per USEPA 23 A & 8290

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

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Manager-Environment

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CIN : L24110TG1990PLC011977

## Dioxins and furans test report

vi. Green belt shall be developed in 33% of the total area all along the entire periphery of the area with a density of 2500 trees per ha. This shall include development of green belt with a width of 20 m within the project site towards the mining area and Hardua village located at 0.5 km from the project site.

## Complied

Plantation is being done with density of 2500 trees/ha of native species. Till FY 2024, a total of 63558 No. of saplings have been planted in 25.42 Ha. in and around the periphery of the plant area which is 20.63% of total land area i.e. 123.25 Ha. Some pictures of plantation are mentioned below.





vii.

All stockyards shall be having impervious flooring and shall be equipped with water spray system for dust suppression. Stock yards shall also have garland drains to trap the runoff material.

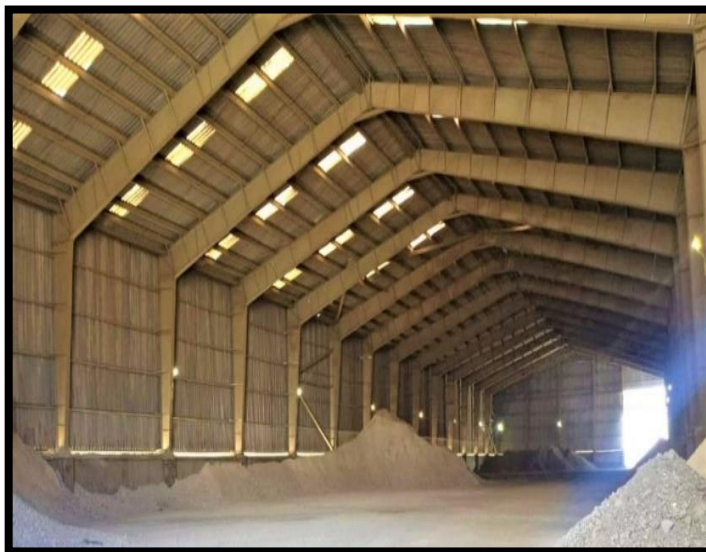
**Complied.**

Raw material yard has paved with covered shed. However, garland drainage system is developed surrounding the shed and connected with a reservoir for collection and ground water recharge.

**Cover Shed for Gypsum**



**Impervious flooring in stock yards**





**Cover Shed for Pet-Coke**



**Garland drains**



**Rain water harvesting pond (30000m3 capacity)**



**River reservoir (40000m3capacity)**



Viii. Slip roads shall be provided at the gates and along crossing on main roads.

**Complied.** Slip roads have been provided at the gates and along crossing on main roads. Some pictures are mentioned below.



ix. All internal and connecting roads to the Highway shall be black topped/concreted with suitable load in term of Million Standard Axle (MSA) as per IRC guidelines.

**Complied.** Internal and connecting roads to highway have been concreted. Some pictures are mentioned below.

**Connecting roads to the Highway**



**Internal roads**



x.	Performance monitoring of pollution control equipment shall be taken up yearly and compliance status in this regard shall be reported to the concerned Regional Office of the MoEF &CC.	<b>Compliance in progress.</b> Plant has been commissioned on 02 November 2022. We have given the work order to NABL approved lab. PO enclosed as <b>Annexure no. 7</b>
xi.	The recommendation of the approved Site-Specific Conservation Plan / Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report to the concerned Regional Office of the MoEF & CC.	<b>Complied.</b> We have already deposited Rs. 289.90 Lakh via. E Cheque no. CTY3061751 dated 19.08.2023 as per fund allocated for implementation of approved Wild Life Conservation Plan (WLCP) approval Letter no. V.Pra/Ma.Chi./8847 dated 13.12.2019 for JK Cement Limited Integrated Cement Plant Project. Acknowledgement copy of amount deposition is given below: However, we are following up to State Forest Department regarding implementation of Wildlife conservation plan and letters have been submitted to Wild Life Department on dated 06.03.2024 via letter no. JKCEMENT/PCP/EMD/2023-24/F 04/10, follow up letter on 18.04.2024 via letter no. JKCEMENT/PCP/EMD/2024-25/F 04/11. Copy are mentioned below.

# Environment Clearance (EC) Compliance Report for period from October' 2023 to March' 2024

Environment Clearance vide no IA-J-11011/224/2016-IA. II (I) dated 02.03.2022

**JKcement**

JK Cement Works, Panna  
(Formerly known as Jaykaycem (Central) Ltd now amalgamated)  
A Unit of JK Cement Ltd.  
CIN: L17229UP1994PLC017199  
Village - Hardwar, Tehsil - Amanganj  
District - Panna, State - Madhya Pradesh, India - 488 441  
9329141091 | jk.panna@jkcement.com  
www.jkcement.com

पत्र क्र- दिनांक-21/08/2023

प्रति  
उपसंचालक  
पन्ना टाईगर रिजर्व पन्ना

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

संदर्भ: आपका कार्यालयीन पत्र क्रमांक/मा.वि./2023/2908/पन्ना, दिनांक-16/8/2023।

महोदय

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

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

अतः अग्रिम कार्यवाही हेतु महोदय की ओर प्रेषित।

वास्ते जेकेसेम (सेंट्रल) लिमिटेड

*Kaushal*  
कुमिल अग्रवाल  
युनिट हेड  
जेके सीमेंट लिमिटेड

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

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www.jkcement.com

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

Date: 18.04.2024

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

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

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

Dear Sir,

In continuation of our letter no. JKCEMENT/PCP/EMD/2023-24/F 04/10 dated 06.03.2024 and with reference to above subject matter, we would like to again inform you that we have already deposited Rs. 289.90 Lakh via. E Cheque no. CTY3061751 dated 19.08.2023 as per fund allocated for implementation of approved Wild Life Conservation Plan (WLCP) approval Letter no. V.Pra/Ma.Chi/8847 dated 13.12.2019 for JK Cement Limited Integrated Cement Plant Project (Acknowledgement copy of amount deposited enclosed as Annexure no. 1).

Further, we would like to inform you that it is mentioned in specific condition no. VII of environment clearance letter no. J-11015/190/2016-IA, II (M) dated 31.08.2020 that "Site specific conservation plan for all the Schedule-I species reported in the study area shall be implemented in consultation with State Forest Department as per the recommendations of Chief Wildlife Warden".

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

Thanking you,

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

CC to: 1- PCF (Wildlife) and Chief Wildlife Warden, Bhopal, M.P.  
2- Chief Conservator of Forest, Chhatrapur-473001

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xii.

Limestone from the mines to the cement plant shall be transported through overhead conveyor belt within a period of two years from date of issue of the Environment Clearance.

## Compliance in progress

- We are transporting limestone from Kakra mine crusher to Cement plant through Overland Covered Belt Conveyor.
- Transportation from Koni mine crusher to cement plant is required.
- Amendment in EC has been done for Koni Mine and need to install OLBC by August 2025.
- Permission from water resource department and Madhya Pradesh Rural Road Development Authority, Madhya Pradesh are obtained.
- Land is being procured.
- Applied for amendment in EC condition of cement plant also via. MoEFCC Proposal No. IA/MP/IND1/457262/2023
- Proposal was presented in 57<sup>th</sup> meeting of the Expert Appraisal Committee - (Industry-1 sector), scheduled on 25 April, 2024



Kakra mine OLBC pic



xiii.	Hot air dryer shall not be installed. Flue gases of preheater shall be used to dry the slag/bottom ash.	<b>Complied</b> Flue gases of preheater is used to dry the slag/bottom ash. However, we have applied for amendment in this EC condition of cement plant also via. MoEFCC Proposal No. IA/MP/IND1/457262/2023. Proposal was presented in 57 <sup>th</sup> meeting of the Expert Appraisal Committee - (industry-1 sector), scheduled on 25 April, 2024
-------	---	--

**B. General EC Conditions:**



**I. Statutory compliance**

i.	The Environment Clearance (EC) granted to the project/ activity is strictly under the provisions of the EIA Notification, 2006 and its amendments issued from time to time. It does not tantamount/ construe to approvals/ consent/ permissions etc., required to be obtained or standards/conditions to be followed under any other Acts/Rules/Subordinate legislations, etc., as may be applicable to the project.	<b>Complied</b> with all applicable legislation.
----	--	--

**II. Air quality monitoring and preservation**

i.	The project proponent shall install 24x7 Continuous Emission Monitoring System (CEMS) at process stacks to monitor stack emission as well as Continuous Ambient Air Quality Station (CAAQS) for monitoring AAQ parameters with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time. The CEMS and CAAQMS shall be connected to SPCB and CPCB online servers and calibrate these systems from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.	<b>Complied.</b> 1. CEMS have been installed at major stacks viz. Raw mill kiln, Coal mill, Cement mill and Cooler exit stacks and online data connectivity is done at CPCB & MPPCB portal. Picture and table are mentioned below.  2. CAAQMS have been installed at 04 Nos. of locations of plant and online data connectivity is done at CPCB & MPPCB portal. Picture and table are mentioned below. We are calibration these analysers time to time through external agency.
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**1-CEMS:**

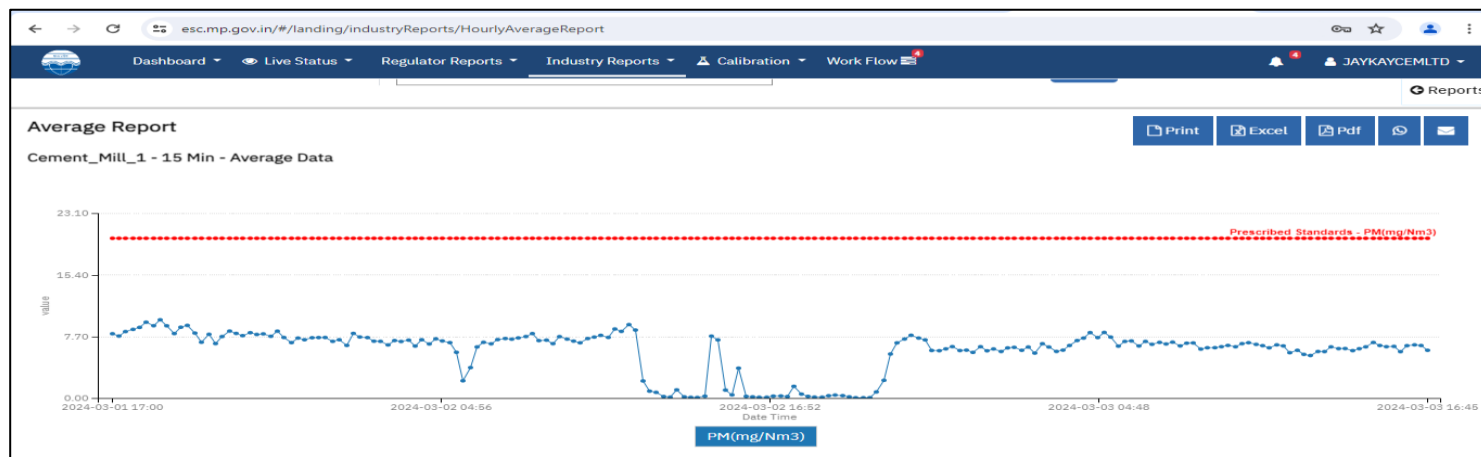
<b>Cement _ Mill Stack Analyser</b> 	<b>Coal _ Mill Stack Analyser</b> 
<b>Cooler _ Mill Stack Analyser</b>	<b>Raw _ Mill Stack Analyser</b>



**Environment Clearance (EC) Compliance Report for period from October' 2023 to March' 2024**  
**Environment Clearance vide no IA-J-11011/224/2016-IA. II (I) dated 02.03.2022**



**Online data uploading in MPPCB server**



**2-CAAQMS:-**

**CAAQMS near Reservoir**



**CAAQMS near Zero Point**



**CAAQMS behind Store**



**CAAQMS near Guest house**



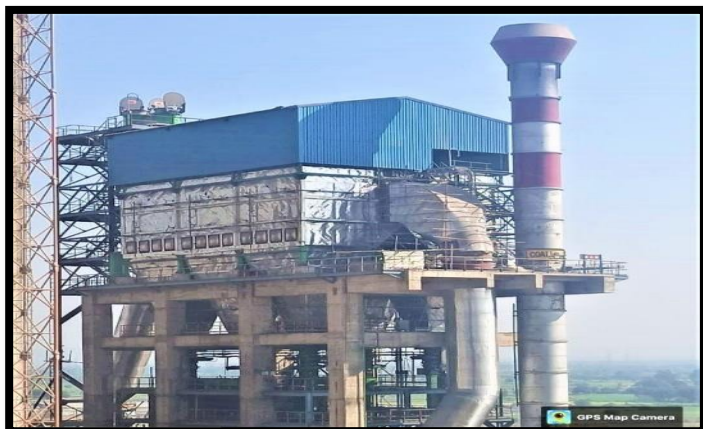
**Environment Clearance (EC) Compliance Report for period from October' 2023 to March' 2024**  
**Environment Clearance vide no IA-J-11011/224/2016-IA. II (I) dated 02.03.2022**

ii.	The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through labs recognized under Environment (Protection) Act, 1986.	<b>Complied.</b> Fugitive emission is being monitored by approved lab in every quarter in the plant premises. Latest quarterly monitoring reports of fugitive emission are mentioned below.
-----	---	---

Sources/Locations	Parameter	Results (in µg/m3)		
		Aug-23	Nov-23	Jan-24
Near packing Plant area	SPM	308.5	284.6	296.3
Near Gypsum yard		284.5	278.2	302.4
Near Raw Mill		292	273.4	284.5
Near Coal Mill		288.6	280.5	275.6
Near Cement Mill		318.6	302	298.5
Near Cooler		322	308.2	302.7
Near Coal Shed		276	282.6	288.6
Near Lime Stone Shed		280.2	268.5	275.6

iii.	The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.	<b>Complied.</b> It has been provided with APCDs.
------	--	---

**Coal Mill Bag house**



**Cement Mill Bag house**

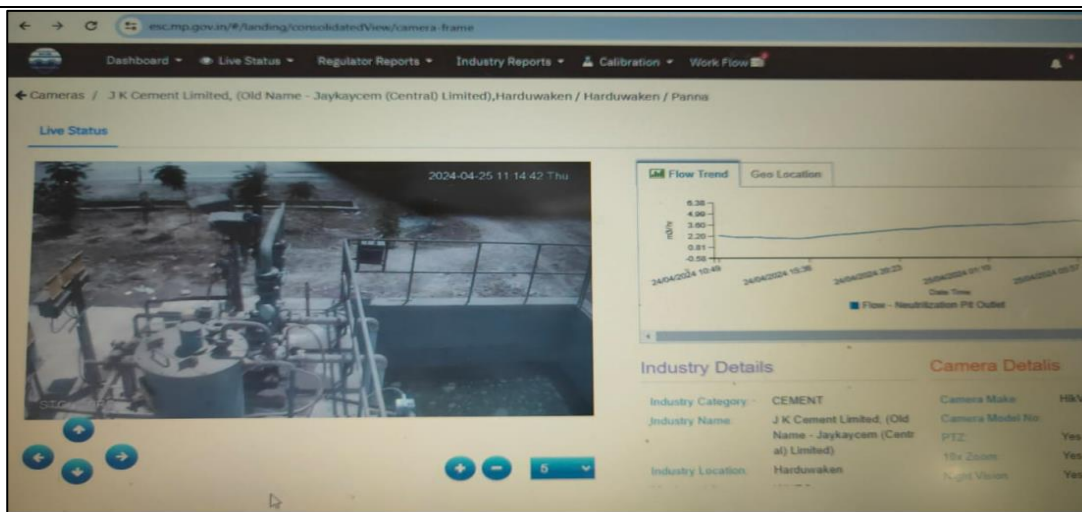


iv.	The project proponent shall ensure covered transportation and conveying of ore, coal and other raw material to prevent spillage and dust generation; Use closed bulkers for carrying fly ash.	<b>Complied.</b> Raw materials are transporting through covered vehicles and fly ash in closed bulker. Some pictures are mentioned below.
-----	---	--

<p align="center"><b>Covered Truck</b></p> 	<p align="center"><b>Closed bulker for transport of flyash</b></p> 
<p>v. The project proponent shall provide wind shelter fence and chemical spraying on the raw material stock piles;</p> <p>vi. Ventilation system shall be designed for adequate air changes as per the prevailing norms for all tunnels, motor houses, cement bagging plants.</p>	<p><b>Complied.</b> We would like to share that covered sheds have been provided for all the raw materials.</p> <p><b>Complied.</b> Ventilation system with sufficient no. of bag filters for all tunnels, motor houses, cement bagging plant have been provided.</p>
<p><b>III. Water quality monitoring and preservation</b></p>	
<p>i. The project proponent shall install 24x7 continuous effluent monitoring system with respect to standard prescribed in Environment (Protection) Rules 1986 vide G.S.R. No. 612 (E) dated 25th August 2014 (Cement) and subsequent amendment dated 9th May, 2016 (Cement) and 10th May, 2016 (in case of Co-processing Cement) as amended from time to time; S.O. 3305 (E) dated 7th December 2015 (Thermal Power Plants) as amended from time to time) and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.</p>	<p><b>Complied.</b> Waste water is generated from WHRS plant only which is used in mill spray after treatment in neutralization pit. Hence, ZERO liquid discharge system has been adopted to use this treated water in mill. Flow meter and camera are installed at outlet of neutralization pit (Picture are mentioned below.</p>
<p align="center"><b>WHRS Flow meter and Camera have been installed:</b></p>  <p align="center"><b><u>Connected to SPCB and CPCB online servers</u></b></p>	

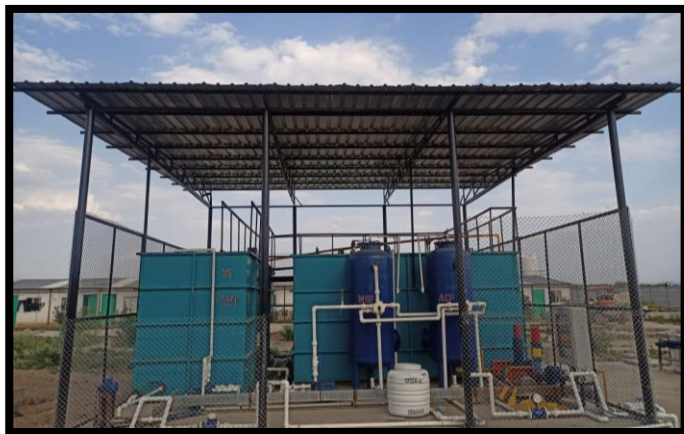


**Environment Clearance (EC) Compliance Report for period from October' 2023 to March' 2024**  
**Environment Clearance vide no IA-J-11011/224/2016-IA. II (I) dated 02.03.2022**



ii.	The project proponent shall regularly monitor ground water quality at least twice a year (pre and post monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognized under Environment (Protection) Act, 1986 and NABL accredited laboratories.	<b>Complied.</b> Ground water quality is being monitored twice a year (pre and post monsoon) of plant and adjacent areas through recognized/NABL accredited Lab. Ground water quality monitoring reports is attached <b>Annexure- 4</b>
iii.	Sewage Treatment Plant shall be provided for treatment of domestic waste water to meet the prescribed standards.	<b>Complied</b> Total 07 Nos. of STPs have been installed. ➤ 5 KLD Capacity- 04 Nos ➤ 10 KLD Capacity- 02 Nos. ➤ 300 KLD Capacity- 01 no. Some pictures are given below:

**STP With Capacity 300KLD**



**STP With Capacity 10KLD**



iv.	Garland drains and collection pits shall be provided for each stock pile to arrest the run- off in the event of heavy rains and to check the water pollution due to surface runoff	<b>Complied.</b> Concreted drains have been provided in surrounding the covered raw material sheds. This water will be recharged with rain water harvesting structures (Picture are mentioned below.)
-----	--	---

**Storm Water Drain**



**Storm Water Drain**



**Reservoir (40000m3)**



v.	Water meters shall be provided at the inlet to all unit processes in the cement plant	<b>Complied.</b> Water meters have been installed at the inlet to all unit processes.
vi.	The project proponent shall make efforts to minimize water consumption in the cement plant complex by segregation of used water, practicing cascade use and by recycling treated water.	<b>Complied</b> <ul style="list-style-type: none"> <li>➤ Dual Flush Toilets have been installed.</li> <li>➤ Aerator Faucets are provided in taps.</li> <li>➤ Sewage treatment plant is installed and treated water of sewage is being used in plant activities.</li> <li>➤ WHRS treated waste water is being used in mill.</li> </ul>

Month	STP		WHRS	
	Total Waste Water generation (in KL)	Treated water Used (in KLD)	Total Waste Water generation (in KL)	Treated water Used (in KLD)
Oct-23	774.47	25.0	1616	52.1
Nov-23	827.03	27.6	1287	42.9
Dec-23	904.85	29.2	1323	42.7
Jan-24	643.59	20.8	1190	38.4
Feb-24	633.06	21.8	1520	52.4
Mar-24	563.01	18.2	1047	33.8

**IV. Noise and vibration monitoring and prevention**

i.	Noise quality shall be monitored as per the prescribed Noise Pollution (Regulation and Control) Rules,2000 and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report	<b>Complied.</b> Noise quality is being monitored and report is mentioned below.
----	--	--

**Environment Clearance (EC) Compliance Report for period from October' 2023 to March' 2024**  
**Environment Clearance vide no IA-J-11011/224/2016-IA. II (I) dated 02.03.2022**

Locations	Month	Limit dB (A)	Results (in dB (A))					
			Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24
Near Guest House Area	Day time	75	50.9	51.23	51.26	53.4	56.4	58.8
	Night time	70	43.22	42.18	54.98	42.6	47.6	50.8
Near Security Barrack	Day time	75	48.6	49.71	43.14	62.4	60.8	63.2
	Night time	70	42.14	39.01	35.97	53.8	52.6	55.8
Near Zero Point Area	Day time	75	58.8	56.82	55.27	65.8	62.7	65.1
	Night time	70	40.12	41.38	42.71	55.2	53.8	57
Behind Packing Plant Area	Day time	75	49.08	50.92	50.92	65.6	64.2	66.6
	Night time	70	44.21	45.62	39.02	40.6	42.1	45.3
Near Main Gate	Day time	75	60.3	58.82	63.6	66.3	67.5	69.9
	Night time	70	42.19	43.18	44.57	57.9	59.6	62.8
Near CCR building	Day time	75	54.4	55.72	64.26	60.2	62.2	64.6
	Night time	70	41.37	42.47	55.12	49.5	51.7	54.9
Harduaken Village	Day time	55	45.67	43.44	52.11	51.8	52.5	53.4
	Night time	45	32.12	33.18	36.53	40.7	41.5	43.3
Sotipura Village	Day time	55	46.27	45.91	50.06	50.4	51.7	51.6
	Night time	45	34.39	33.18	38.91	40.2	40.8	42.6
Purwa Village	Day time	55	43.47	44.95	47.9	50.4	53.6	52.5
	Night time	45	33.29	33.18	33.68	42.3	43.9	41.7
Kakra Village	Day time	55	47.27	45.29	48.59	51.4	52.1	52.8
	Night time	45	37.36	36.92	40.12	41.2	40.3	42.6
Pagra Village	Day time	55	44.28	46.92	51.38	51.6	53.9	51.8
	Night time	45	33.28	31.84	37.15	41.5	42.4	43.2

**V. Energy Conservation measures**

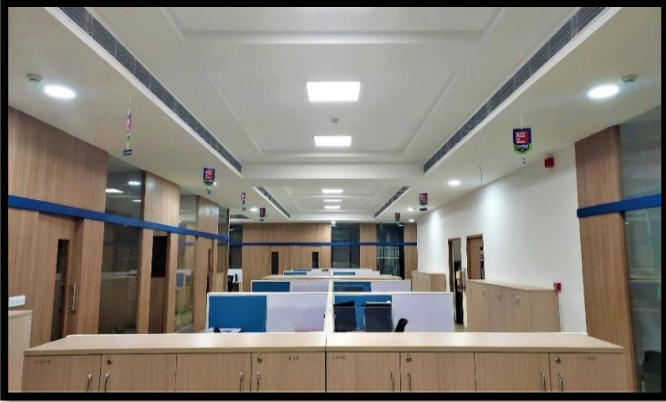
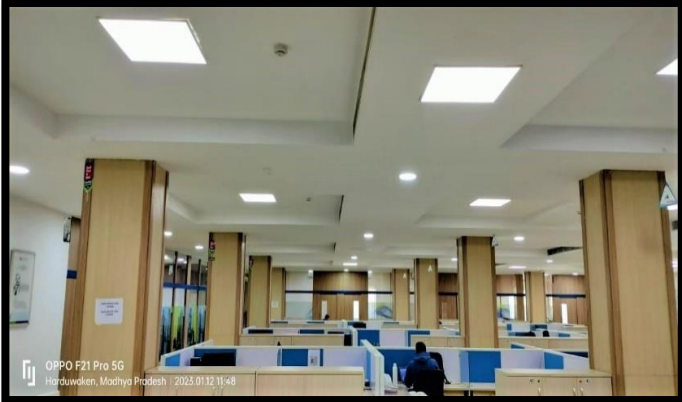


i.	Waste heat recovery system shall be provided for kiln and cooler.	<b>Complied.</b> A Waste heat recovery system (WHRS) of 25 MW has been installed.
ii.	The project proponent makes efforts to achieve power consumption less than 65 units/ton for Portland Pozzolona Cement (PPC) and 85 units/ton for Ordinary Portland Cement (OPC) production and thermal energy consumption of 670 Kcal/Kg of clinker.	<p><b>Complied</b></p> <p>Our average power consumption (Oct. 23 to Mar. 24) for manufacture of OPC &amp; PPC and thermal energy are following:</p> <ul style="list-style-type: none"> <li>➤ OPC= 76.63 Kwh/ MT</li> <li>➤ PPC= 52.69 Kwh/MT</li> <li>➤ Thermal energy consumption- 739 Kcal/kg Clinker</li> </ul> <p>We have done following efforts to reduce the thermal energy consumption:</p> <ol style="list-style-type: none"> <li>1- False air reduction done From Currently 8 % to 6.3 %.</li> <li>2- TAD NOx reduction damper is opened from 50 % to 80 % to Optimized Recuperation efficiency.</li> <li>3- Shift Wise Comparison of Heat to optimize SHC per shift (Optimizer Data Provided per shift).</li> <li>4- TAD male female joints near PC Covered completely result in temperature drop across TAD duct is 25 degree.</li> <li>5- Online Heat Balance with Actual CV based SHC is provided in CCR to monitor the current Specific Heat.</li> </ol>



		<p>6- Optimized Fine coal temperature from 60 to 65 degree by reducing False air across Coal Mill Circuit.</p> <p>7- Optimized Raw meal Temperature from 75 to 80 degree by reducing False air across Raw Mill Circuit.</p> <p>8- Linear pile maintained by stacking of Coal to Reduce variation of its CV.</p> <p>9- Flap gate of Cyclone From 1 no to 4th cyclone from Top is made free.</p> <p>10- Cooler Fan Specific air input is maintained at 1.85 Nm<sup>3</sup>/kg of Clinker @ 10000 TPD as per HMBD by TKIL.</p> <p>We have installed state of the art technology to conserve energy and meet GOI's targets for GHG emissions.</p>
iii.	Provide solar power generation on roof tops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly.	<p><b>Complied.</b></p> <p>Solar power generation on admin building roof top has been installed and solar lights have also been provided in streets (Some picture are mentioned below.</p> <div data-bbox="820 760 1526 1247" data-label="Image"> </div> <p><b>Solar power generation on admin building of roof top:</b></p>





**Solar lights have provided in streets**

iv.	Provide the project proponent for LED lights in their offices and residential areas.	<b>Complied.</b> LED lights have been provided in offices and residential areas (Some picture are mentioned below.)
<b>LED Lights in Admin building</b> 		<b>LED Lights in Project building</b> 
<b>LED Lights in CCR building</b> 		<b>LED Lights in Guest house</b> 
<b>VI. Waste management</b>		
i.	Used refractories shall be recycled as far as possible.	<b>Complied.</b> In FY 2023-24, we have collected and sold qty. 811.22 MT used refractories (fire bricks scrap (high alumina) to Refcast and Ceramics Industries for further needful.
<b>VII. Green Belt</b>		
i.	The project proponent shall prepare GHG emissions inventory for the plant and shall submit the program for reduction of the same including carbon sequestration including plantation.	<b>Compliance in progress</b> First baseline data for FY 2023-24 is being prepared then further reduction plan will be prepared and submitted soon.
<b>VIII. Public hearing and human health issues</b>		
i.	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	<b>Complied.</b> Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan is prepared and implemented. Approval of onsite emergency plan is mentioned below.



**Environment Clearance (EC) Compliance Report for period from October' 2023 to March' 2024**  
**Environment Clearance vide no IA-J-11011/224/2016-IA. II (I) dated 02.03.2022**

<div data-bbox="81 147 803 1039">  <p align="center">DIRECTORATE, INDUSTRIAL HEALTH AND SAFETY, M.P. INDORE  518, New Moti Bunglow, M.G. Road, Indore-452007  Phone No. 0731-2533482, Fax- 0731-2544264, E-mail- dihsindore@gmail.com,  dihsindore@mp.gov.in (MAJOR ACCIDENT HAZARD CONTROL CELL)</p> <p>OSEP NO : RE08072212223371      Category : Under Section 2CCB</p> <p>To,  The Occupier,  JayKayCem Central Limited (FAC2223371),  Harduwaken, Amanganj, Panna,  Pincode : ,  Dist.:Panna (M.P.)</p>  <p><b>Sub:-On-Site Emergency Plan.</b>  <b>Ref:-</b> Your documents duly verified by the occupier &amp; on the subject Dated <b>01/08/2022</b>  Please be informed that documents in which the Occupier have disclosed the information related to hazard at his installation in compliance of the Section 41-B of the Factories Act, 1948 and which also described his On-site Emergency Plan, (after supplementing certain modifications by the MAHC Cell distinctively marked on the plan) is hereby <b>Notified Final</b> with the following stipulations for the period from <b>04/08/2022 to 03/08/2024 :-</b></p> <ol style="list-style-type: none"> <li>1. That in case any relevant information as required under the Section 41-B of the Factories Act, 1948, if has not been disclosed this notification does not provide any exemption in this regard and the occupier his-self is liable for concealing the information;</li> <li>2. That the document will be subjected for review :- <ol style="list-style-type: none"> <li>a) Generally after a period of two years from the date of issue of this letter; or</li> <li>b) During any intervening period of two years if it is instructed to do so by this cell; or</li> <li>c) Invariably, where any change in the plant, machinery, building, structure, substance, storage or the manufacturing process/ operations is intended by the occupier or his factory persons;</li> </ol> </li> <li>3. That the documents will have to be reviewed (as above) always in consultation with this cell and it will be occupier's liability to provide reasonable time for review and get notified final or further period.</li> <li>4. The suitable Training/ Mock drills/ Exercises be arranged at the factory to make all concerned familiar with their duties/ responsibilities as outlined in the on-site emergency plan and be well trained to act accordingly at any emergency and save life as well as the property.</li> </ol> </div>
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# Environment Clearance (EC) Compliance Report for period from October' 2023 to March' 2024

Environment Clearance vide no IA-J-11011/224/2016-IA. II (I) dated 02.03.2022

**CITY** PATHOLOGY LABORATORY  
CITY HOSPITAL, Guard Line, Damoh (M.P.) 470 661  
TIMING : DAILY : 8:00 am to 8:00 pm

Dr. Mukul Raj Jain (M.D.)

REG NO. : OPD / 10  
NAME : Mr. Teji Singh Thakur  
REF. BY : Dr Abhash Jain MBBS DTCD

AGE : 25 Years  
SEX : Male  
DATE : 06/07/2023

**BIOCHEMISTRY**

TESTS	RESULTS	UNITS	REFERENCE RANGE
<b>LIPID PROFILE</b>			
S. Cholesterol	180.2	mg/dl	125 - 225
S. Triglycerides	155.8	mg/dl	25 - 160
HDL Cholesterol(direct)	45.2	mg/dl	30 - 80
LDL Cholesterol	103.84	mg/dl	85 - 150
VLDL Cholesterol	31.16	mg/dl	7 - 35
LDL/HDL RATIO	2.3		2.5 - 3.5
TC/HDL RATIO	3.45		3.0 - 5.0
S.Cholesterol/HDL Ratio	3.99		

\*\*\*End of Report\*\*\*

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

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

Dr. Mukul Raj Jain (MD)  
Pathologist

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

Remark : .....

**SUVINOD SPEECH AND HEARING CLINIC**  
A COMPLETE REHABILITATION CENTER  
In Front of Siyaram Sweets, Jabalpur Road, Teen Gulli Chouraha Damoh (M.P.)  
Contact : 7999563955, 9885555630  
Email : suvinodspeechandhearing1827@gmail.com

**AUDIOLOGICAL EVALUATION**

Name : Mr. Teji Singh Thakur Age/Sex : 25 Y / M Date : 06/07/23

Regn No. : ..... Referred by : .....

**AUDIOGRAM (RIGHT)**

**AUDIOGRAM (LEFT)**

**Audiogram Key**

LT	AC	RT
<input checked="" type="checkbox"/> Unmasked	<input checked="" type="checkbox"/> Unmasked	<input checked="" type="checkbox"/> Unmasked
<input checked="" type="checkbox"/> Masked	<input checked="" type="checkbox"/> Masked	<input checked="" type="checkbox"/> Masked
<input checked="" type="checkbox"/> No Response	<input checked="" type="checkbox"/> No Response	<input checked="" type="checkbox"/> No Response
<input checked="" type="checkbox"/> Masked	<input checked="" type="checkbox"/> Masked	<input checked="" type="checkbox"/> Masked
<input checked="" type="checkbox"/> No Response	<input checked="" type="checkbox"/> No Response	<input checked="" type="checkbox"/> No Response
<input checked="" type="checkbox"/> Masked	<input checked="" type="checkbox"/> Masked	<input checked="" type="checkbox"/> Masked
<input checked="" type="checkbox"/> No Response	<input checked="" type="checkbox"/> No Response	<input checked="" type="checkbox"/> No Response

**Audiological Interpretation**

R/L - Bilateral hearing sensitivity within normal limit

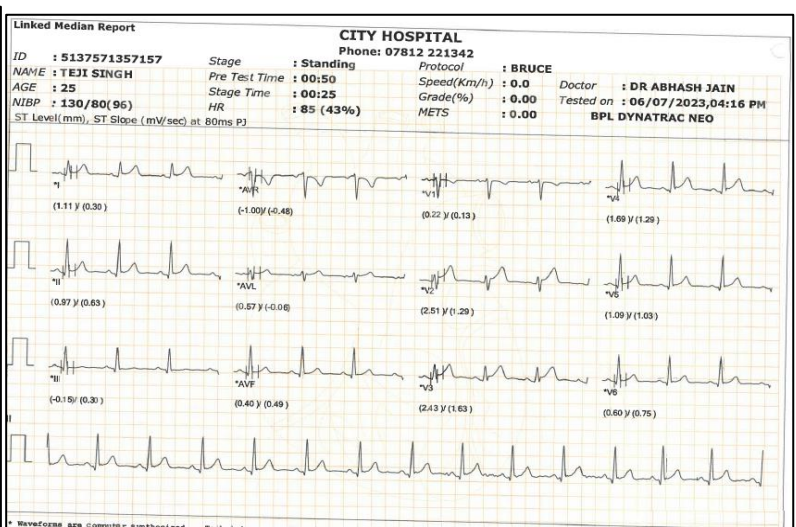
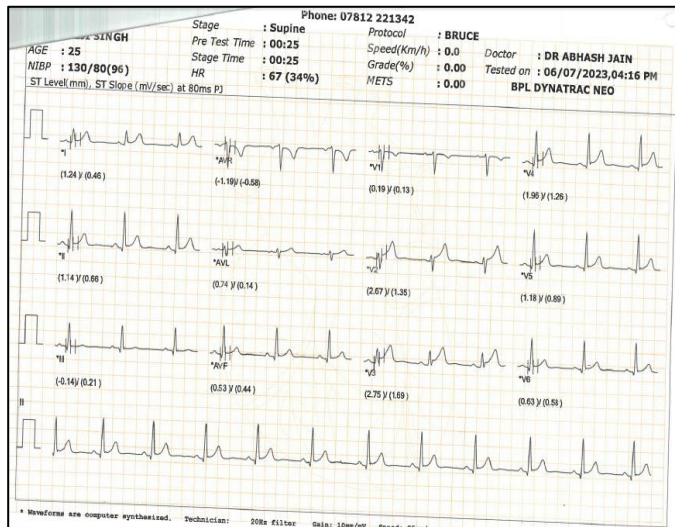
**Recommendations**

Hearing Aid Trial - .....

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

Dr. Mukul Raj Jain (MD)  
Pathologist

• कान की संपूर्ण जाँच (ऑटोइमेट्री, वेरा, इम्पीडेंस, OAE's Test) • कान की गहरी जाँच (कान की संपूर्ण जाँच के बाद) • या किसी भी कान की गहरी जाँच • स्वीच सेटी (इन्फ्लूएंजा, गुलाबका कोल न पाया, फ्लू/कोराना की जांचें) • जोन न पाया और चुन न पाये का संपूर्ण इलाज • कान की आनुवंशिक परीक्षा में विशेष ध्यान



## IX. Environment Management

i. The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017- IA.III dated 30/09/2020.

**Complied.**

CER proposal is being implemented as per Ministry's OM vide F. No. 22-65/2017-IA.III dated 1st May 2018. Present status is mentioned below.



**Corporate Environment Responsibility (CER) Expenditure Report of Cement Plant**

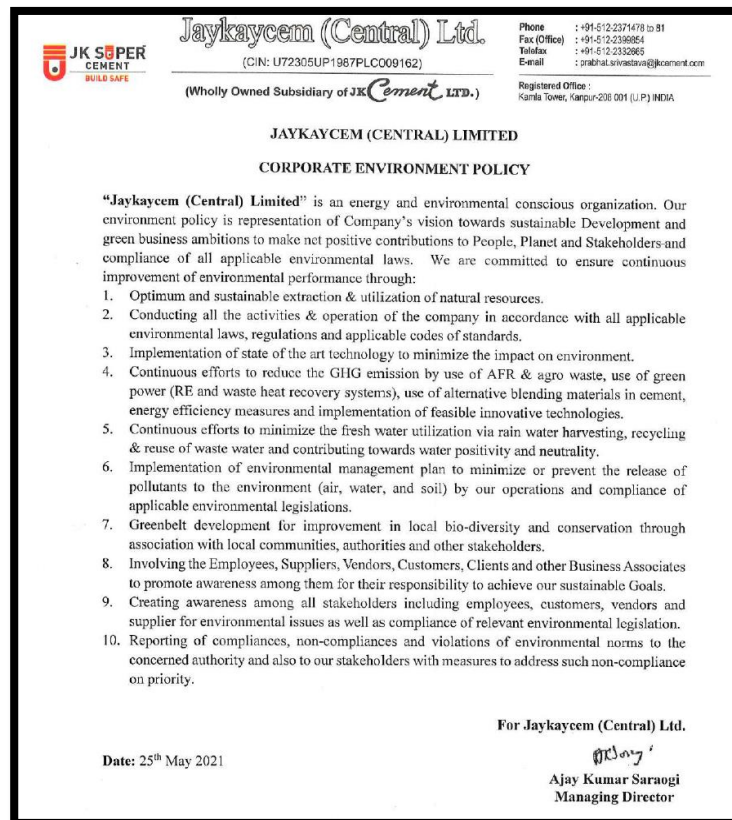
S.No	Activities	Expenditure till Oct., 2023 (in Lakhs)	Expenditure from November 23 to March, 2024 (in Lakhs)
1	Health (Health, Check-up, Camp, Sports etc.)	211.73	7.75
2	Education (Books, Bags, Stationary etc.)	54.80	154.31
3	Sanitation (Domestic water, Toilets etc.)	40.99	2.55
4	Skill Development (Training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


ii.

The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/ deviation/ violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and/ or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.

**Complied.**

Company has Corporate Environmental Policy duly approved by the Board (Policy copy attached are mentioned below.)





**Jaykaycem (Central) Ltd.**  
(CIN: U72305UP1987PLC009162)  
(Wholly Owned Subsidiary of JK Cement LTD.)

Phone : +91-512-2371478 to 81  
Fax (Office) : +91-512-2369854  
Telefax : +91-512-2332665  
E-mail : prabhat.srivastava@jkcement.com

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

**ENVIRONMENT MANAGEMENT SYSTEM**

**1. LEGAL & OTHER REQUIREMENTS**

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

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


**2. OPERATIONAL CONTROL PROCEDURES**

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


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

b) Relevant Operation Control Measures

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



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



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

For Jaykaycem (Central) Ltd.

*Ajay Kumar Saraogi*  
Ajay Kumar Saraogi  
Managing Director

Date: 25<sup>th</sup> May 2021



**Jaykaycem (Central) Ltd.**  
(CIN: U72305UP1987PLC009162)  
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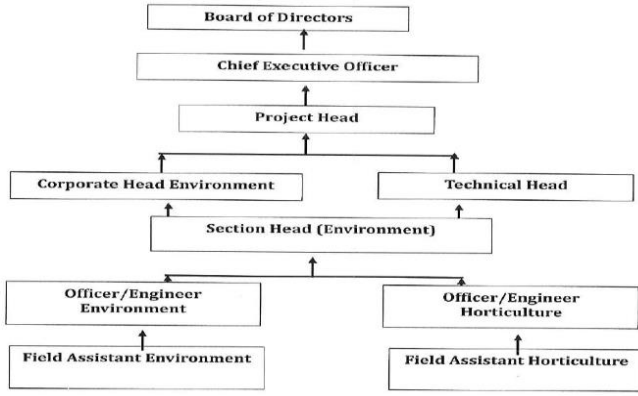
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**3. ROLES & RESPONSIBILITIES FOR EMS**

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

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




```

graph TD
    A[Board of Directors] --> B[Chief Executive Officer]
    B --> C[Project Head]
    C --> D[Corporate Head Environment]
    C --> E[Technical Head]
    D --> F[Section Head Environment]
    E --> F
    F --> G[Officer/Engineer Environment]
    F --> H[Officer/Engineer Horticulture]
    G --> I[Field Assistant Environment]
    H --> J[Field Assistant Horticulture]
        
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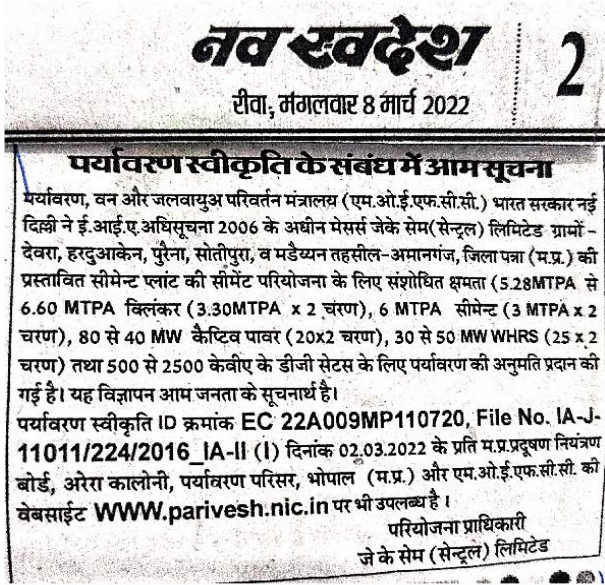

For Jaykaycem (Central) Ltd.

*Ajay Kumar Saraogi*  
Ajay Kumar Saraogi  
Managing Director

Date: 25<sup>th</sup> May 2021



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

iii.	A Separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.	<p><b>Complied.</b></p> <p>A Separate Environmental Cell both at the project and company head quarter level, with qualified personnel has been set up under the control of senior Executive, who is directly reporting to the head of the organization.</p>
<b>X. Miscellaneous</b>		
i.	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.	<p><b>Complied.</b></p> <p>Published in two local newspapers namely Nav Swadesh and Nav Bharat on dated 08.03.2022 and also displayed at company's website. (Advertisement copy are mentioned below.)</p>
		
ii.	The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.	<p><b>Complied.</b></p> <p>Copy of the EC has been submitted to concerned vide letter No. PCP/EMD/CWLA/F12/039 dated 04.03.2022 (Acknowledgement copy are mentioned below.)</p>



# Environment Clearance (EC) Compliance Report for period from October' 2023 to March' 2024

Environment Clearance vide no IA-J-11011/224/2016-IA. II (I) dated 02.03.2022

**Jaykaycem (Central) Ltd.**  
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Registered Office: Kanta Tower, Kanpur-208 001 (U.P.) INDIA

Ref. No. PCP/EMD/CWLA/F 12/039 दिनांक - 04.03.2022

प्रति,  
कलेक्टर महोदय,  
जिला पन्ना (म.प्र.) . 488 001

**विषय** - पर्यावरण स्वीकृति सूचना - पर्यावरण, वन और जलवायु परिवर्तन मंत्रालय भारत सरकार नई दिल्ली ने मेसर्स जेकेसेम (सेन्ट्रल) लिमिटेड की प्रस्तावित सीमेंट प्लांट की सीमेंट परियोजना के लिए संशोधित क्षमता हेतु ।

**सन्दर्भ** - पर्यावरण स्वीकृति EC Identification No. EC 22A009MP110720, File No. IA-J-11011/224/2016-IA-II(I), दिनांक 02.03.2022 ।  
महोदय,

आपको सूचित किया जाता है कि पर्यावरण, वन और जलवायु परिवर्तन मंत्रालय (एम.ओ.ई.एफ.सी.सी.) भारत सरकार नई दिल्ली ने ई.आई.ए. अधिसूचना 2006 के अधीन मेसर्स जेके सेम (सेन्ट्रल) लिमिटेड ग्रामो - देवरा, हरदुआकेन पुरना सीतापुरा व मडयन लहरील - अमानगंज, जिला पन्ना (म.प्र.) की प्रस्तावित सीमेंट प्लांट की सीमेंट परियोजना के लिए संशोधित क्षमता (5.28 MTPA से 6.60 MTPA क्लिंकर (3.30 MTPA X 2 चरण), 6 MTPA सीमेंट (3 MTPA X 2 चरण), 80 से 40 MW केएच पावर (20 x 2 चरण), 30 से 50 MW WHRS (25 X 2 चरण) तथा 500 से 2500 केवीए क डीजी सेटस के लिए पर्यावरण की अनुमति प्रदान की गई है ।

वास्ते जेकेसेम (सेन्ट्रल) लिमिटेड  
(आदित्य प्रताप सिंह)  
वरिष्ठ महाप्रबन्धक-परियोजना

**संलग्नक** - पर्यावरण स्वीकृति EC Identification No. EC 22A009MP110720, File No. IA-J-11011/224/2016-IA-II(I), दिनांक 02.03.2022 ।

**प्रतिलिपि-**

क्रमांक	कार्यालय का नाम	समग्री प्राप्त करने वाले के नाम/हस्ताक्षर
1.	मुख्य कार्यपालन अधिकारी, जिला पंचायत, पन्ना . 488 001	प्रा.प्र. 8-3-22

Sites: Kakra, Kantana, Jodi, Saptal, Devri-Purhiti, Devra, Tehsil - Amanganj, District - Panna, M.P. INDIA  
Village: Ingolia, Tehsil: Hamirpur, District: Hamirpur, U.P. INDIA

**Jaykaycem (Central) Ltd.**  
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E-mail: prashant.srivastava@jkcement.com

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

2.	महाप्रबंधक, जिला व्यापार एवं उद्योग केन्द्र, पन्ना. 488 001	
3.	सरपंच/सचिव, ग्राम पंचायत सिधोरा (ग्राम ककरा व सप्तई) जिला-पन्ना . 488 441	
4.	सरपंच/सचिव, ग्राम पंचायत पंचायत कमताना (ग्राम कमताना) जिला-पन्ना . 488 441	
5.	सरपंच/सचिव, ग्राम पंचायत पगरा (ग्राम जूड़ी) जिला-पन्ना . 488 441	
6.	सरपंच/सचिव, ग्राम पंचायत बिल्हा (ग्राम देवरी पुरोहित) जिला-पन्ना . 488 441	
7.	सरपंच/सचिव, ग्राम पंचायत देवरा (ग्राम देवरा) जिला-पन्ना. 488 441	

Sites: Kakra, Kantana, Jodi, Saptal, Devri-Purhiti, Devra, Tehsil - Amanganj, District - Panna, M.P. INDIA  
Village: Ingolia, Tehsil: Hamirpur, District: Hamirpur, U.P. INDIA

iii. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.

**Complied.** Six monthly compliance status report along with monitoring data is uploaded at company's website (Screenshot of company website is mentioned as below.)

**Environment Clearance (EC) Compliance Report for period from October' 2023 to March' 2024**  
**Environment Clearance vide no IA-J-11011/224/2016-IA. II (I) dated 02.03.2022**

JK Cement Works, Panna

Integrated Cement Plant

	Compliance report of Environment Clearance	Environment Clearance	Environmental Monitoring Report	Environment Statement Report
April 2023 to Sept 2023				

**Uploaded EC report in company's website**

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



- |    |   |  |
|----|---|--|
| v. | The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal. | <b>Complied.</b> Six monthly compliance status is being reported to the MoEF&CC website and Climate Change at environment clearance portal (Screenshot of parivesh portal is mentioned below.) |
|----|---|--|

**Environment Clearance (EC) Compliance Report for period from October' 2023 to March' 2024**  
**Environment Clearance vide no IA-J-11011/224/2016-IA. II (I) dated 02.03.2022**

**Parivesh**  
PARIVESH  
(JPC GREEN)

पर्यावरण, वन और जलवायु परिवर्तन मंत्रालय  
Ministry of Environment, Forest and Climate Change

**LIFE**  
Lifestyle for Environment

75  
आज़ादी का  
अमृत महोत्सव

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Dashboard | Environment Clearance ▾ Forest Clearance ▾ Wildlife Clearance ▾ CRZ Clearance ▾ Go To Home Logout Welcome Shri Anil Badgotri, PP

### List of Uploaded Compliances

Sr.No.	Proposal No. and Single Window No.	Compliance No. and Clearance ID	State and District	Year of Compliance	Period of Compliance	Remarks	Uploaded Date	Status	View
1	EC23A0000MP5720689A	EC/M/COMPLIANCE/28144100/2023  Clearance :	MADHYA PRADESH  PANNA	2023	01 Dec(01 Apr - 30 Sep)		30-11-2023	Submitted Successfully	<a href="#">View Report</a> <a href="#">View Documents</a>
2	EC23A0000MP5466096A	EC/M/COMPLIANCE/28156244/2023  Clearance :	MADHYA PRADESH  PANNA	2023	01 Dec(01 Apr - 30 Sep)		30-11-2023	Submitted Successfully	<a href="#">View Report</a> <a href="#">View Documents</a>

### EC Compliance report uploading in Parivesh portal

vi.	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 website of the company.	<b>Complied.</b> Environmental statement report for F.Y. 2022-23 has been submitted to the MPPCB in prescribed format and put on the website of the company (Email sent copy and company website screenshot are mentioned below.)
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**Environment Clearance (EC) Compliance Report for period from October' 2023 to March' 2024**  
**Environment Clearance vide no IA-J-11011/224/2016-IA. II (I) dated 02.03.2022**



**Jaykaycem (Central) Ltd.**  
(Wholly Owned Subsidiary of JK Cement Ltd.)  
Integrated Cement Manufacturing Unit  
Village : Harduaken, Tehsil: Amanganj,  
District: Panna, M.P., India, Pin - 488641  
CIN: U72800UP160791C000160  
Q: 9329141691  
✉ jk.panna@jkcement.com

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Ref: JK/CTO-(Plant)/2023-24/19/02 Date- 27.09.2023

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

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

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

Dear sir,

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

This is for your kind information and record, please.

Thanking you.  
 Yours faithfully,

For Jaykaycem (Central) Limited  
  
 Kapi Agrawal  
 (Unit Head)  
 Encl: As above

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



Integrated Cement Manufacturing Unit  
Village : Harduaken, Tehsil: Amanganj,  
District: Panna, M.P., India, Pin - 488641  
Q: 9329141691  
✉ jk.panna@jkcement.com



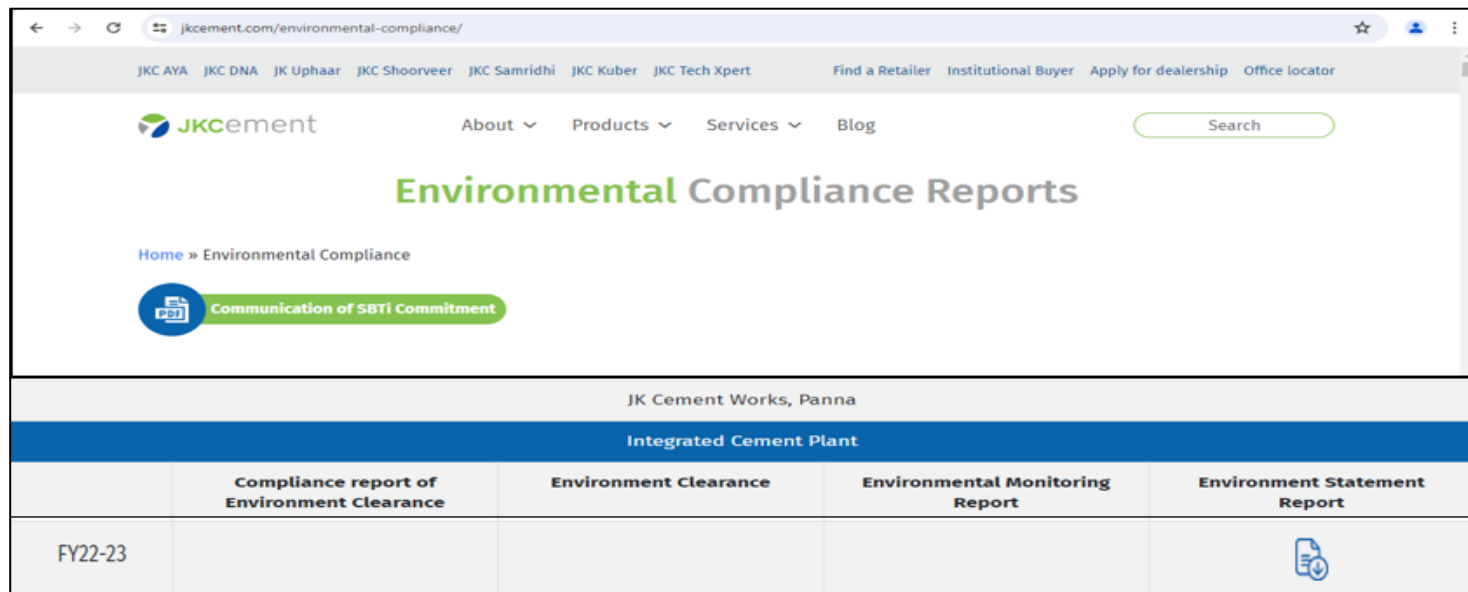
Grinding Unit :  
Village: Ingaoria, District : Hardikpur, Uttar Pradesh, India, Pin - 210211



Grinding Unit :  
Village: Ingaoria, District : Hardikpur, Uttar Pradesh, India, Pin - 210211

Registered Office : Kamla Tower, Nanpur-208001, U.P., India. ☎ +91-512-2371478 to 85 ☎ 91-512-2399854 ✉ www.jkcement.com

**Last Environment Statement report submission in MPPCB**



The screenshot shows the JK Cement website's 'Environmental Compliance Reports' page. It features a navigation bar with links to various JK Cement divisions and a search bar. The main heading is 'Environmental Compliance Reports'. Below it, there's a breadcrumb trail 'Home » Environmental Compliance' and a button for 'Communication of SBTi Commitment'. The page displays a table for 'JK Cement Works, Panna Integrated Cement Plant' with columns for 'Compliance report of Environment Clearance', 'Environment Clearance', 'Environmental Monitoring Report', and 'Environment Statement Report'. The row for 'FY22-23' shows a download icon for the Environment Statement Report.

**Environment Statement report uploading in Company website.**

vii.	The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the	<b>Complied.</b> Intimation regarding the date of financial closure, final approval of concerned authority, commencing the land development work and start of production have been
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# Environment Clearance (EC) Compliance Report for period from October' 2023 to March' 2024

Environment Clearance vide no IA-J-11011/224/2016-IA. II (I) dated 02.03.2022

	concerned authorities, commencing the land development work and start of production operation by the project.	submitted to the Ministry via. letter no. JAYKAYCEM/ENV./Corres./2022-23/03 dated 12.11.2022 (Email copy and letter copy are mentioned below).
	<p><b>Saurabh Kumar Yadav</b></p> <p>From: Saurabh Kumar Yadav Sent: 12 November 2022 18:53 To: rowz.bpl-mef@nic.in Cc: drind-moefcc@gov.in Subject: Information regarding date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by M/s. Jaykaycem (Central) Ltd located at Villages Devra, Hardua, Puraina, Sotipura &amp; Madaiyan, Tehsil: Amanganj (Old Pawai), Dist. Panna, Madhya Pradesh</p> <p>Attachments: DocScanner 12 Nov 2022 6-11 pm.pdf</p> <p>To: The Regional Office (WZ), Kendriya Paryavaran Bhawan, E-5, Arera Colony, Link Road-3, Ravi Shankar Nagar, Bhopal - 462 016 E-Mail: rowz.bpl-mef@nic.in</p> <p>Subject: Information regarding date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by M/s. Jaykaycem (Central) Ltd located at Villages Devra, Hardua, Puraina, Sotipura &amp; Madaiyan, Tehsil: Amanganj (Old Pawai), Dist. Panna, Madhya Pradesh</p> <p>Reference No.: Environment Clearance no IA-J-11011/224/2016-IA. II (I) dated 02.03.2022 (Condition no. X. Miscellaneous-vii)</p> <p>Dear sir,</p> <p>With reference to aforesaid subject, we would like to inform you that the date of financial closures will be 31.03.2023 and date of final approval of the project by the concerned authorities (i.e. Project approval in board of directors meeting), commencing the land development work and start of production operation by the project are 29.01.2023, 05.05.2023 and 02.11.2022 respectively.</p> <p>Copy of signed intimation letter is attached for your kind information and record, please.</p> <p>Thanking you, Yours faithfully,</p> <p>For Jaykaycem (Central) Limited</p> <p>Dr. Saurabh Kumar Dy. General Manager (Environment) JK CEMENT Jaykaycem Central Limited Village: Harduawaken, Tehsil: Amanganj, District: Panna Email: saurabh.yadav1@jkcement.com **Web: www.jkcement.com Mob: +91 9686502172</p>	<p><b>Jaykaycem (Central) Ltd.</b> (Wholly Owned Subsidiary of JK Cement Ltd.) Integrated Cement Manufacturing Unit Village: Harduawaken, Tehsil: Amanganj, District: Panna, M.P., India, Pin - 486441 CIN: U72305UP1987PLC009162 Q: 9229141591 E: jk.panna@jkcement.com</p> <p>Ref: JAYKAYCEM/ENV./Corres./2022-23/03 Date: 12.11.2022</p> <p>To: The Regional Office (WZ), Kendriya Paryavaran Bhawan, E-5, Arera Colony, Link Road-3, Ravi Shankar Nagar, Bhopal - 462 016 E-Mail: rowz.bpl-mef@nic.in</p> <p>Subject: Information regarding date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by M/s. Jaykaycem (Central) Ltd located at Villages Devra, Hardua, Puraina, Sotipura &amp; Madaiyan, Tehsil: Amanganj (Old Pawai), Dist. Panna, Madhya Pradesh</p> <p>Reference No.: Environment Clearance no IA-J-11011/224/2016-IA. II (I) dated 02.03.2022 (Condition no. X. Miscellaneous-vii)</p> <p>Dear sir,</p> <p>With reference to aforesaid subject, we would like to inform you that the date of financial closures will be 31.03.2023 and date of final approval of the project by the concerned authorities (i.e. Project approval in board of directors meeting), commencing the land development work and start of production operation by the project are 29.01.2023, 05.05.2023 and 02.11.2022 respectively.</p> <p>This is for your kind information and record, please.</p> <p>Thanking you, Yours faithfully,</p> <p>For Jaykaycem (Central) Limited</p> <p>Anil Badgotri (Authorized Signatory)</p> <p>CC: The Director, Ministry of Env., Forest and Climate Change, Indira Paryavaran Bhavan, Jor Bagh Road, Aligarj, New Delhi-11003</p> <p>Corporate Office Padmini Tower, 19 DDA Community Centre Delhi, India Q: +91-11-49528000 E: admin.jkcement@jkcement.com www.jkcement.com</p> <p>Grinding Unit Village Inghtha, District: Hamirpur, Uttar Pradesh, India, Pin - 210341</p> <p>Registered Office: Panna Tower, Hamirpur 208001, U.P., India. Q: +91-512-2371478 to 85 Q: +91-512-2396024 E: www.jkcement.com</p> <p><b>JK SUPER CEMENT BUILD SAFE</b> <b>JK SUPER STRONG BUILD SAFE</b></p>
viii.	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.	<p><b>Complied with 1<sup>st</sup> year CER Budget target and Compliance in Progress with 2<sup>nd</sup> year CER budget expenditure</b></p> <p>We would like to appraise you that our year wise expenditure under CER is following:</p> <p>1<sup>st</sup> year- November 22 to October 23- Rs. 744.72 Lakhs</p> <p>2<sup>nd</sup> year (November 23 to till March 2024)- Rs. 197.81 Lakh (2<sup>nd</sup> year will be completed in Oct. 24)</p> <p>Our total expenditure done from November 2022 to March 2024 is Rs. 942.52 Lakhs.</p>
ix.	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).	Agreed
x.	Concealing factual data or submission of false / fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.	Agreed
xi.	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Agreed
xii.	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	
xiii.	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite	

**Environment Clearance (EC) Compliance Report for period from October' 2023 to March' 2024**  
**Environment Clearance vide no IA-J-11011/224/2016-IA. II (I) dated 02.03.2022**

	data / information/monitoring reports.	
xiv.	Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	

Yours Sincerely

Yours Sincerely

For: JK Cement Limited



Kapil Agrawal

(Authorized signatory & Unit Head)

चन्द्रबदन तिवारी

विकृत

आवेदक

विरिन्द्र राय एवं अन्य - अनावेदक

II-156

c.J.

Order sheet [Contd]

Case No. .... of 20.....

Date of order or Proceeding	Order or proceeding with signature of Presiding Officer	Signature of parties or pleaders where necessary
05.12.2020	<p>आवेदक चन्द्रबदन तिवारी उपस्थिति।</p> <p>अनावेदक क्रमांक 01 व 02 अनुपस्थित।</p> <p>अनावेदक क्रमांक 03 व 04 की ओर से श्री मृणाल सिंह उपस्थित।</p> <p>अनावेदक क्रमांक 05 की ओर से श्री आर.के. निगम अधिवक्ता उपस्थित।</p> <p>इस अधिनिर्णय द्वारा आवेदन पत्र एवं अतिरिक्त आवेदन पत्रों का निराकरण किया जा रहा है।</p> <p>आवेदन पत्र संक्षेप में इस प्रकार है कि सीमेन्ट प्लांट हरदुआकेन, पुरैना, सोतीपुरा, मडैयन, ककरा, कमताना, सप्तई, जूडी, देवरी पुरोहित एवं देवरा के किसानों के हितों को अनदेखा कर उनकी जमीनों के भुगतान करने में भिन्नता रखी गयी है तथा लोक सुनवाई दिनांक 17.07.2019 नियमानुसार न की जाकर प्रस्तुत अपत्ति व सुझाव पर कोई कार्यवाही नहीं की गयी है। भारत सरकार के पर्यावरण एवं वन मंत्रालय द्वारा जारी नोटिफिकेशन के अनुसार ही पर्यावरण स्वीकृति की पात्रता है, जिसका अनावेदकगण द्वारा कोई पालन नहीं किया गया है। एकपक्षीय जन सुनवाई दिनांक 17.07.2019 को निरस्त किया जाये।</p> <p>अनावेदक क्रमांक 01 व 02 की ओर से जवाब संक्षेप में इस प्रकार है कि क्षेत्रीय कार्यालय सागर द्वारा लोक सुनवाई की संपूर्ण कार्यवाही भारत सरकार के नोटिफिकेशन दिनांक 14.09.2006 के प्रावधानानुसार बोर्ड मुख्यालय भोपाल से प्राप्त निर्देशों के परिपेक्ष्य में अपर कलेक्टर पन्ना की अध्यक्षता में सपन्न की गयी है। कार्यालय द्वारा पूरी पारदर्शिता अपनाते हुए कार्यवाही पूर्ण की गयी है। आवेदक के आरोप सत्य नहीं हैं।</p> <p>अनावेदक क्रमांक 03 व 04 की ओर से जवाब संक्षेप में इस प्रकार है कि लोक जनसुनवाई जनता के हितों को नजर अंदाज कर एक पक्षीय रूप से नहीं</p>	



की गयी है। पर्यावरणीय स्वीकृति हेतु लोक जनसुनवाई दिनांक 17.07.2019 को ग्राम देवरा तहसील अमानगंज जिला पन्ना में अपर कलेक्टर जिला पन्ना की अध्यक्षता में संपन्न हुई है। आवेदक द्वारा लगाये गये कथित आरोप पूर्णतः बिना किसी आधार के मात्र काल्पनिक है जो व्यक्तिगत हित को लेकर लेख किये गये हैं। आवेदक द्वारा जिस प्रकार का विवाद अध्यक्ष महोदय के समक्ष प्रस्तुत किया है उक्त विवाद विधिक सेवा प्राधिकरण (संशोधन) अधिनियम 2000 की धारा 22 (ख) के अन्तर्गत नहीं आता है। मेसर्स जेकेसेम(सेन्ट्रल) लिमिटेड कंपनी को जो कि कंपनी अधिनियम 1956 के अन्तर्गत रजिस्टर्ड है, से कथित विवाद जिस प्रकार लेख किया गया है उस कंपनी की संपत्ति का मूल्य दस लाख रुपये से भी बहुत अधिक है, इस कारण भी विधिक सेवा प्राधिकरण अधिनियम(संशोधन) 2000 की धारा 22(ग) के परंतुक 1 के अन्तर्गत भी आवेदन प्रचलन योग्य नहीं है। हस्तगत प्रस्तुत आपत्तियां भारत सरकार पर्यावरण वन एवं जल-वायु परिवर्तन मंत्रालय नई दिल्ली के समक्ष विचारणीय है। फलतः आवेदन पत्र आधारहीन तथा स्थाई लोक अदालत के समक्ष पोषणीय न होने से खारिज किया जावे।

अनावेदक क्रमांक 05 की ओर से जवाब संक्षेप में इस प्रकार है कि लोक सुनवाई दिनांक 17.07.2019 को ग्राम पंचायत देवरा में अपर कलेक्टर पन्ना एवं क्षेत्रीय अधिकारी प्रदूषण नियंत्रण बोर्ड सागर द्वारा जन सामान्य द्वारा प्रस्तुत आपत्तियों एवं सुझाव प्राप्त कर की गयी और उनके द्वारा पर्यावरण एवं वन एवं जल-वायु परिवर्तन मंत्रालय भारत सरकार नई दिल्ली को प्रतिवेदन प्रेषित किया गया। पर्यावरण वन एवं जल-वायु परिवर्तन मंत्रालय भारत सरकार द्वारा पर्यावरण स्वीकृति के संबंध में अंतिम निर्णय लिया जाना है। लोक सुनवाई पर्यावरण स्वीकृति संबंधी प्रारंभिक तथा अंतरिम कार्यवाही है। आवेदन पत्र में जो तथ्य प्रश्नगत किया गया है उसका कोई आचित्य व आधार नहीं है। फलतः आवेदन पत्र निरस्त किया जावे।

आवेदक की ओर से इस आशय का भी अंतरिम आवेदन पत्र प्रस्तुत है कि अनावेदक क्रमांक 03 व 04 से जेकेसेम(सेन्ट्रल) सीमेन्ट प्लांट का संपूर्ण नक्शा तलब कराया जावे।



अनावेदक क्रमांक 03 व 04 की ओर से जवाब संक्षेप में इस प्रकार है कि आवेदक दस्तावेज की मांग नहीं कर सकता है। प्रकरण की प्रचलनशीलता के संबंध में अपत्ति पूर्व से उल्लेखित है। फलतः आवेदन पत्र निरस्त किया जावे।

आवेदक की ओर से इस आशय का भी अंतरिम आवेदन पत्र प्रस्तुत है कि अनावेदकगण द्वारा आवासीय क्षेत्र व उत्खन्न क्षेत्र के वास्तविक तथ्यों को परियोजना व जवाब में छिपाया गया है। प्रकरण की अंतिम सुनवाई के पूर्व तथ्यों की जांच कराई जाकर, विधिक सम्यक कार्यवाही किये जाने का निवेदन किया।

अनावेदक क्रमांक 03 एवं 04 की ओर से जवाब संक्षेप में इस प्रकार है कि आवेदन पूर्णतः झूठा व बनावटी है। आवेदक येनकेन प्रकार प्रकरण को लंबित रखना चाहता है। आवेदक को किसी भी प्रकार की जांच इस फोरम में कराये जाने की अधिकारिता नहीं है। भारत सरकार पर्यावरण एवं वन मंत्रालय द्वारा जन सुनवाई दिनांक 17.07.2019 को सही पाकर पर्यावरणीय स्वीकृति दी गयी है। आवेदन पत्र सारहीन होने से निरस्त किया जावे।

अनावेदक क्रमांक 05 की ओर से जवाब संक्षेप में इस प्रकार है कि आवेदन पत्र के पद क्रमांक 01, 02, 03 में वर्णित तथ्य पूर्णतः मिथ्या व बनावटी है। आवेदक द्वारा प्रस्तुत मूल आवेदन पत्र प्रचलनशील नहीं है। आवेदक द्वारा आवेदन पत्र मूलरूप से पर्यावरण स्वीकृति के संबंध में की गई लोक सुनवाई दिनांक 17.07.2019 के संबंध में प्रस्तुत किया गया, जो इस फोरम में सुनवाई योग्य नहीं है। पर्यावरण स्वीकृति भी दी जा चुकी है। फलतः आवेदन पत्र सारहीन होने से निरस्त किया जावे।

अभिलेख से यह प्रकट है कि अनावेदकगण की ओर से आवेदक की ओर से प्रस्तुत आवेदन पत्र की प्रचलनशीलता पर अपत्ति की गयी है, उक्त परिप्रेक्ष्य में सर्वप्रथम प्रकरण की प्रचलनशीलता पर विचार किया जाना और उसका निराकरण किया जाना विधिसम्मत प्रतीत होता है।

आवेदक की ओर से प्रचलनशीलता पर लिखित तर्क प्रस्तुत किये गये हैं एवं अनावेदकगण की ओर से मौखिक तर्क प्रस्तुत किये गये हैं। आवेदक ने यह लिखित तर्क किया है कि उक्त विवाद आवास और भू-संपदा के विवाद से संबंधित हैं जो विधिक सेवा प्राधिकरण अधिनियम 1987 की धारा 22 बी. में



आवास और भू-संपदा सेवा के विवाद में शामिल है।

अभिलेख का अवलोकन व परिशीलन किया गया एवं लिखित व मौखिक तर्कों पर विचार किया गया।

विधिक सेवा प्राधिकरण अधिनियम 1987 की धारा 22 ए(बी) के आधीन निम्नांकित लोकोपयोगी सेवाएं निहित हैं—

1. हवा, सड़क अथवा जल के द्वारा यात्रियों अथवा माल के लिए परिवहन सेवा या
2. पोस्टल, टेलीफोन या दूरभाष सेवा या
3. किसी भी स्थापना द्वारा जनता को विद्युत प्रकाश या जल की आपूर्ति या
4. सार्वजनिक संरक्षण या स्वच्छता की प्रणाली या
5. अस्पताल या डिस्पेंसरी में सेवा या
6. बीमा सेवा या
7. आवासीय और संपदा या
8. बैंकिंग एवं वित्त

आवेदन पत्र के तथ्यों से यह प्रकट है कि आवेदक लोक जन सुनवाई दिनांक 17.07.2019 की कार्यवाही को विधिसंमत न बताते हुए उक्त कार्यवाही को निरस्त कराना चाहता है और भारत सरकार के पर्यावरण वन मंत्रालय के नोटिफिकेशन का पालन कराना चाहता है। आवेदन पत्र के तथ्यों से पक्षकारों के मध्य आवासीय और संपदा के संबंध में विवाद होना प्रथम दृष्टया प्रतीत नहीं होता है। सेवा प्रदाता की कमी का कोई मामला हो ऐसा भी आवेदन पत्र में लेख नहीं है।

लोकोपयोगी लोक अदालत को विधिक सेवा प्राधिकरण अधिनियम की धारा 22 क(ख) में वर्णित सेवाओं से उत्पन्न विवाद/मामलों की सुनवाई की क्षेत्राधिकारिता है। अभिलेख से यह प्रकट है कि लोक जन सुनवाई दिनांक 17.07.2019 के परिप्रेक्ष्य में पर्यावरण स्वीकृति प्रदाय की गयी है। आवेदक द्वारा लोक जनसुनवाई को चुनौती दी गयी है। अभिलेख पर जो साक्ष्य है उससे प्रथम दृष्टया ऐसा दर्शित नहीं होता है कि पक्षकारों के मध्य अधिनियम की धारा 22 क(ख) में वर्णित सेवाओं से उत्पन्न विवाद/मामला है। उक्त परिप्रेक्ष्य में इस प्रकम पर आवेदक की ओर से प्रस्तुत आवेदन पत्र नक्शा तलब कराये जाने व तथ्यों की जांच कराये जाने का भी कोई आधार दर्शित नहीं होता है,

उपरोक्तानुसार आवेदन पत्रों का निराकरण किया जाता है।

उभय पक्षकारगण को अधिनिर्णय की सत्य प्रति निःशुल्क प्रदाय की जावे।

प्रकरण का परिणाम पंजी में दर्ज कर प्रकरण नियमानुसार जमा किया जावे।

सही / -

(सदस्य)

स्थाई लोक अदालत  
लोक उपयोगी सेवा

सही / -

(सदस्य)

स्थाई लोक अदालत  
लोक उपयोगी सेवा

सही / -

(अध्यक्ष)

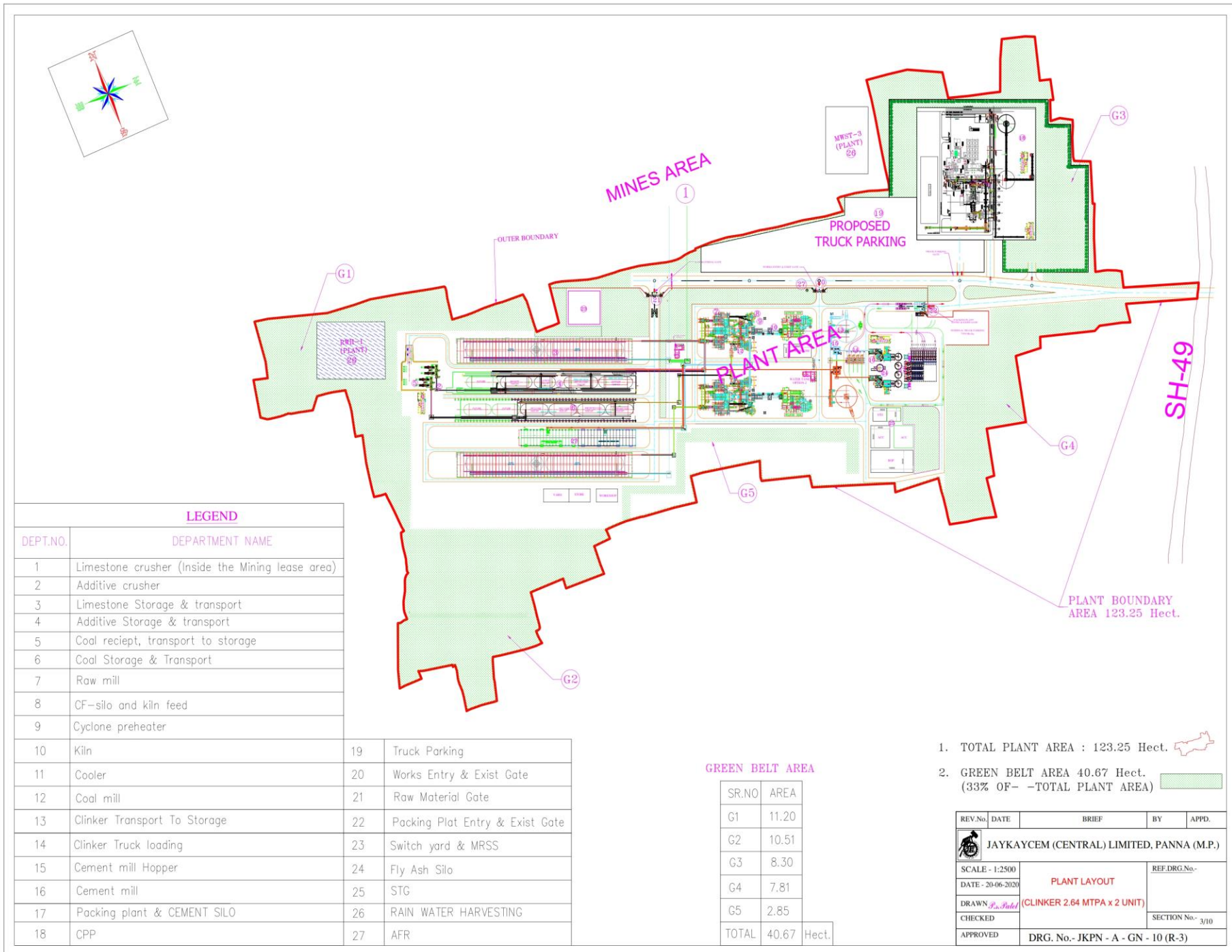
स्थाई लोक अदालत  
लोक उपयोगी सेवा

सत्य जति लिफ्ट  
5/12/2020  
अध्यक्ष  
लोक उपयोगी सेवाएं  
पटना (म.प्र.)



Jaykaycem (Central) Limited, Tehsil: Amanganj, District: Panna (MP)  
Revised Plant Layout as per EC Conditions

Annexure-1



मध्यप्रदेश शासन,  
जल संसाधन विभाग,  
वृहद परियोजना नियंत्रण मण्डल

कक्ष क्रमांक 411, चौधी मंजिल, जल संसाधन भवन,  
तुलसी नगर, भोपाल - 462003

Tel. 0755-2557255

Email-cbmbpl@gmail.com

भोपाल दिनांक /10/2020

पत्र क्र. वृ.प.नि.म./31/तक/रा.स्त.-910/2020/

प्रति,

मुख्य अभियंता,  
धसान केन कछार,  
जल संसाधन विभाग, सागर।

विषय :- मेसर्स जे.के.सेम (सेन्ट्रल) लि. कानपुर के ग्राम पुरैना हरदुआ तहसील अमानगंज जिला पन्ना में प्रस्तावित इन्टीग्रेटेड सीमेंट प्लांट के लिए केन नदी से आवंटित 0.79 मि.घ.मी. वार्षिक जल के लिए हस्ताक्षरित अनुबंध बाबत।

संदर्भ :- इस कार्याका पत्र क्र. वृ.प.नि.म./31/तक/रा.स्त.-910/2020/243 एवं 244 दिनांक 30.05.2020

—00—

मेसर्स जे.के.सेम (सेन्ट्रल) लि. कानपुर के ग्राम पुरैना हरदुआ तहसील अमानगंज जिला पन्ना में प्रस्तावित इन्टीग्रेटेड सीमेंट प्लांट के लिए इस कार्यालय के संदर्भित पत्र दिनांक 30.05.2020 द्वारा कम्पनी को केन नदी से 0.79 मि.घ.मी. वार्षिक जल आवंटित किया गया।

मेसर्स जे.के. सेम (सेन्ट्रल) लि. कानपुर एवं विभाग के मध्य दिनांक 21.10.2020 को प्रारूप -7 (क) में अनुबंध हस्ताक्षरित किया गया।

विभाग एवं कम्पनी के मध्य हस्ताक्षरित अनुबंध की प्रति सूचनार्थ एवं आवश्यक कार्यवाही हेतु संलग्न है।

सहपत्र:- उपरोक्तानुसार

(जी.पी. सोनी)

मुख्य अभियंता, बोधी एवं  
सदस्य सचिव, साधिकार समिति  
म.प्र.शासन, जल संसाधन विभाग  
भोपाल दिनांक 29/10/2020

पृ.क्र. वृ.प.नि.म./31/तक/रा.स्त.-910/2020/ 576

प्रतिलिपि :-

1. प्रमुख अभियंता, जल संसाधन विभाग, भोपाल (म.प्र.)
2. अधीक्षण यंत्री, जल संसाधन मण्डल, छतरपुर (म.प्र.)
3. कार्यपालन यंत्री, जल संसाधन संभाग, पवई, जिला पन्ना (म.प्र.)
- ✓ 4. मेसर्स जे.के. सेम (सेन्ट्रल) लि. माय होम्स रेसीडेन्सी, एस्सार पेट्रोल पम्प के सामने कटनी रोड़, अमानगंज, जिला पन्ना (म.प्र.) - 488441  
की ओर कृपया सूचनार्थ एवं आवश्यक कार्यवाही हेतु।

सहपत्र:- उपरोक्तानुसार

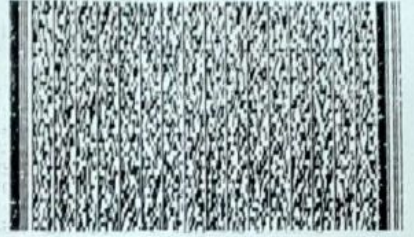
(जी.पी. सोनी)

मुख्य अभियंता, बोधी एवं  
सदस्य सचिव, साधिकार समिति  
म.प्र.शासन, जल संसाधन विभाग





Registration and Stamp Department  
Madhya Pradesh



Certificate of Stamp Duty

E-Stamp Details

E-Stamp Code 01010528092020001371  
Total E-Stamp Amount 500  
Govt. Stamp Duty (Rs.) 500 Municipality Duty (Rs.) 0  
Janpad Duty (Rs.) 0 Upkar Amount (Rs.) 0  
Exempted Amount(Rs.) 0  
E-Stamp Type NON-JUDICIAL  
Issue Date & Time 28/09/2020 11:38:26  
Service Provider or Issuer Details VIKAS SAHU/SP010541609201700028  
SP/SRO/DRO/HO Details A.M. ENTERPRISES, SHOP NO. 03, KUMARPURA, OLD VIDHAN SABHA, BHOPAL  
M.P. 462001, PH.NO. 0755-4018034, MOB. NO. 8337273211 HUZUR BHOPAL

Deed Details

Deed Type Agreement or Memorandum of an agreement  
Deed Instrument If not otherwise provided for- Five hundred rupees.  
Purpose Agreement

First Party Details

Organization Name WATER RESOURCES DEPARTMENT  
Address BHOPAL BHOPAL Madhya Pradesh INDIA  
Number of Persons 1

Second Party Details

Organization Name JAYKAYCEM (CENTRAL) LIMITED  
Address KAMLA TOWER, KANPUR-208001 BHOPAL Madhya Pradesh INDIA  
Number of Persons 1

THIS E-STAMP IS NOT IN RELATION TO THE AGREEMENT RELATED TO IMMOVABLE PROPERTY.

**AGREEMENT FORM FOR SUPPLY OF WATER TO  
Jaykaycem (Central) Ltd, Kanpur (U.P.)**

Form-7A

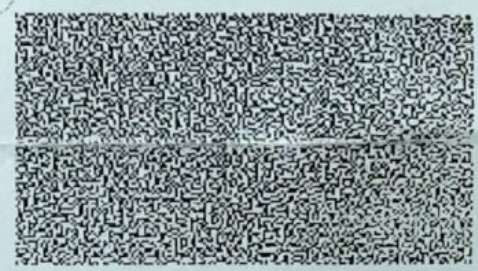
(See Rule 71-A)

This agreement made on this day 21<sup>st</sup> of October: 2020 between the Governor of Madhya Pradesh, acting through OFFICER ON SPECIAL DUTY(EXECUTIVE ENGINEER, CONTROL BOARD FOR MAJOR PROJECT Water Resources Department, Bhopal (M.P.) (hereinafter referred to as M.P.W.R.D.) which expression shall where the context so admits, includes his successors assigned in office of the first part and Jaykaycem (Central) Ltd, Kanpur (U.P.) a company registered under the Indian Companies Act 1955 (No. 1 of 1956) and having its registered office Kamla Tower, Kanpur,(U.P.)-208001 herein after referred to as "the Company", which expression shall unless excluded by or be repugnant to context meaning thereof be deemed to include its successors assigned of the other part.

Digitally signed by VIKAS  
SAHU  
Date: 2020.09.28 11:38:32  
IST

*(Signature)*  
21/10

(रामअवतार तिवारी)  
विशेष कर्तव्यस्थ अधिकारी  
ग्रहद परियोजना निर्वहण मंडल  
जल संसाधन विभाग, भोपाल





Whereas the company has applied to the Government for permission to draw **0.79 MCM per year / 2165 Cum.** of water per day from the **Ken RIVER** (hereinafter referred to as "the said natural or Government water source") for the use by the Company's Integrated 2.50 MPTA Cement & 35 MW Captive Power Plant to be located at **Village Harduaken, Maddiyan Puraina, Sotipura, Kakra, Kamtana, Saptai, Judi, Deoripurohit and Devra Tehsil Amanganj Distt. Panna (M.P.)** (herein after referred to as "the said Project") and laying underground and surface pipes and drains for discharge of the factory effluent).

And whereas the Government has agreed vide letter no. वृ.प.नि.मं./31/तक/रा.स्त.-910/2020/243, Dated 30/05/2020 to grant the aforesaid permission to the Company to use water from the said Government source at their own cost on the terms and conditions hereafter appearing.

And whereas prior to the execution of these presents the Company has deposited with the Government, the sum of **Rs 309183/- (Rs Three lakhs Nine Thousand One hundred Eighty Nine Only)** being the water rates and local fund cess for the quantity of water to be drawn by the company in three months (Water allocation fees equivalent to the amount of one month water tax and cess on the annual allocated quantity of water and security amount equivalent to the amount of two months charges of water tax and cess on the annual allocated quantity of water in cash) as per Rule No.71-A(3)(a)&(b) of Madhya Pradesh Irrigation Rules 1974.

And whereas it has been agreed that the said Sum of **Rs. 103063/- (Rs. One Lakhs Three Thousand Sixty Three Only)** deposited by the company against security amount shall not bear any interest (security amount equivalent to the amount of two months charges of water tax and cess on the annual allocated quantity of water).

Now this agreement witness as under:-

- (1) In consideration of the company duly making payment to the Government as hereinafter specified and duly observing and performing the covenants and conditions, both herein contained Government hereby give permission to the company to draw **0.79 MCM per year / 2165 Cum.** of water per day from the said natural or from the government water source to the company's said plant for term of 30 (Thirty) years commencing from the **21<sup>st</sup> October 2020** on the terms and conditions herein contained. The permission hereby granted shall be subject to the provision of Madhya Pradesh Irrigation Act, 1931 (3 of 1931) amendments thereof and M.P. irrigation rules 1974 amended thereof and further any executive orders issued in this behalf by the Government from time to time and for the time being in force.
- (2) The Company shall pay to the Government water rates for water drawn by it from said natural or Government water source at the rates fixed by Water Resources Department No. 18-1/91/मध्यम/31/797, Bhopal, Dated 30-11-2010 which is Rs. 1.55 (Rs. One Rupee Fifty five Paise only) per Cum/unit (Water rates effective from 01-01-2013)

Note: - The rates which are going to apply to the company must be shown and not other rates. For the quantities of water drawn in excess of the agreed quantities and

*(Signature)*  
21/10  
(रामअवतार तिवारी)  
विशेष कर्तव्यस्थ अधिकारी  
वृहद परियोजना नियंत्रण मंडल  
जल संसाधन विभाग, पोषल



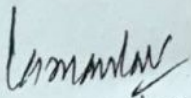
*(Signature)*  
21/10



for any other unauthorized drawl of water then 50% (Fifty percent) additional rates shall be charged in addition to the normal rates as specified above.

In addition to the payment of water rates as specified above, the company shall also pay the Water Resources Department Local fund cess or any other tax at the rates as fixed by the Government from time to time. Government here by reserves the right to revise the rates from time to time the said water rates and the local cess or other taxes to be paid by the company and the company shall pay such revised water rates and local cess or other taxes as may be fixed by the Government from time to time. Excepting the circumstances or short water supply specified in clause (15) the company shall in any event, pay water charges for at least 90% of the quantum of water allowed (as per the effective dates and quantum shown in para 24.3 of this agreement) to be drawn by it though the actual quantity of water drawn by the company is less than 90% of the quantum of water allowed to be drawn by under clause (1).

- (3) The company shall make its own arrangements at its own cost to use water either by construction of any civil engineering work which may include construction of pick up weir, barrage, dam, dug well, tube well etc. The design of such civil engineering facility will be prepared and submitted by the company for approval of the Water Resources Department. The concerning Chief Engineer will give his decision within thirty days to the Sadhikar samiti. The decision of Sadhikar samiti shall be final.
- (4) In the event of any emergency interruption in the water supply to the said Government water source resulting from a non Government Act (such as sudden reduction in inflow) the Executive Engineer shall give immediate written notice to the company. Upon receipt of such notice the company shall have no right to be compensated for any cessation in water supply nor will the company have any liability for payments for water charges, local fund cess or taxes, except those amounts then due but unpaid, until such time as the flow of water through the said natural water sources shall be restored to the level required to the provided by the Government hereunder.
- (5) Subject to the terms and conditions of this agreement nothing herein contained shall be deemed to imply any guarantee on the part of the Government the uninterruptability in the supply of water during an event of Force Majeure. The Government shall also not responsible for such non supply or inadequate supply of water as result of any event of Force Majeure or for damages or losses due to any event of Force Majeure. During an event of Force Majeure the company shall not be liable for payment of any water charges local fund cess or other taxes, except those pertaining to water already received by the company for which payment is due and unpaid, which amount shall remain due and payable in accordance with terms of this agreement. Force Majeure shall include droughts and other similar natural disasters, which are beyond the control of State Government.
- (6) The company/corporation shall pay adequate compensation to any person/persons affected due to submergence of land, property, public facilities etc. by the construction of the civil engineering works for creating the sources of water supply.

  
(राम अवतार तिवारी)  
विशेष कर्तव्यस्थ अधिकारी  
बृहद परियोजना नियंत्रण मंडल  
जल संसाधन विभाग, भोपाळ





- (7) The water from natural/Government water source shall be used by the company for the purposes of the company's said plant including water supply to the colony and shall not be misused by the company by sale of water to any other consumer in the event of any such sale of water by the company without prejudice to the Government's rights to revoke this license and the Government shall be entitled to recover from the company, the proceeds of such sale of water realized by the company.
- (8) The permission hereby granted shall not in any manner prejudicially affect the existing water rights vested in the upstream riparian owners nor shall it in anyway prejudice Government's right to hereafter launch or implement any new scheme or schemes of its own act, on or in connection with the present source of the said natural/Government water source. However Government of Madhya Pradesh hereby assures that any other water rights granted by them for the purpose of irrigation or any other industrial purposes shall be granted in a manner so as not to affect the availability of required water for the project throughout the term of this agreement.
- (9) The company shall not construct the civil engineering work, viz, pick-up weir, barrage, reservoir, dam, dug well, tube well and lifting arrangements etc. in the said water source unless the proposals, plant drawings, specifications, estimates and all other details thereof are previously submitted to and approved in writing by an officer authorized in that behalf by the Government and while granting its approval to the construction of the Civil Engineering work pick-up weir, barrage, lifting arrangements etc. Government may impose such conditions as it may in its absolute discretion think fit.
- (10) The arrangements for measurements of water drawn by the company from the said water source shall be made by the company in such a manner as may be directed by the Government or **Executive Engineer, Water Resources Division, Pawai Distt. Panna (M.P.)** (hereinafter referred to as the Executive Engineer). The automatic measuring device shall be installed and maintained by the company at its own cost after obtaining prior approval therein writing from the Government or the Executive Engineer. In the event of measuring device so installed by the company as aforesaid, ceases to function or goes out of order, the charges which the company would be liable to pay to Government in respect of consumption of water for the days measuring device does not work, shall be calculated alternatively on the basis of maximum hourly pumping capacity multiplied by the number of hours of operation of those pumps for which it will be obligatory for the company to maintain records.
- (11) The company shall treat the affluent (Discharge of water after use) for all the impurities ferrous and other chemicals and shall appropriately purify the water as per Central Government Public Health Environmental Engineering Organization, water supply manual, which specifies the standard of potable water.
- (12) Within thirty days from the date monthly demands are received by the company from Executive Engineer, the company shall pay to the Executive Engineer the amount of water rates and local fund cess for the water drawn by the company during the proceeding month. Interest at the rate of 24% (twenty four percent) and service charge at the rate of 1% (one percent) per annum shall be recovered if the payment is not done within three months from the date of the bill for water supplied.

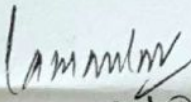
*Lamantav*  
(रामअवधारी गिहारी)  
विशेष कर्तव्यस्थ अधिकारी  
ग्रहद परियोजना नियंत्रण मंडल  
जल संग्रहण



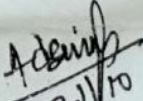
*Adarsh*  
21/11



- Nonpayment of the bills up to six months from the due date of payment shall be treated as the breach of agreement.
- (13) The company shall keep deposited with the Executive Engineer the said sum equivalent to Two times of assessed monthly bill in cash as security deposit up to the date of start of industrial production which may be converted into equivalent amount of Bank Guarantee after the date of start of industrial production and utilization of water as per effective dates shown in the table of para 24.3 of this agreement. This is because of security for due and proper payment of the water rates and local fund cess and irrigation dues and due observance and performance of the terms and conditions herein. In the event of failure by the company to duly pay the aforesaid dues, the outstanding dues from the company shall be adjusted against the said deposit on default of the company to punctually pay the water rates and local fund cess as aforesaid the Government shall without prejudice to its any other rights and remedies, be entitled to terminate this agreement forthwith.
- (14) Without prejudice to any other, its remedies and powers of the Government any sum due and payable by the company, under these presents shall be recoverable from the company in the same manner as an arrear of land revenue under the provisions of law for the time being in force in that behalf.
- (15) In the event of there being a shortage of water in the said natural / Government water source, the Executive Engineer shall serve a notice on the company explaining the possibility of the anticipated shortage. The company shall in such circumstances, reduce the consumption of water and will furnish to the Executive Engineer, a weekly return showing the actual quantum of water drawn by it.
- (16) No existing irrigation interests under the river, spring, channels and irrigation wells, shall be prejudiced. If in the opinion of the Government such existing interests are prejudiced, the company shall pay such compensation to the concerned person or persons whose interests are affected as may be determined by the Government.
- (17) The company shall at all times allow an officer of Water Resources Department of the Government of Madhya Pradesh authorized in that behalf, to inspect the measuring device as well as the water accounts and furnish to the Government copies of entries from the records maintained by the company.
- (18) Any notice or other documents to be given to or served upon the company thereunder, may be given or served on behalf of the Government by the Executive Engineer and any such notice or documents shall be deemed to have been duly given to or served upon the company if it is sent by registered post or delivered at the registered office of the company.
- (19) If the company commits a breach of any of the terms and conditions hereof, Government shall be entitled to terminate this agreement and there upon the company shall discontinue to draw water from the said natural water source without Government being liable for payment of any compensation whatsoever to the company.
- (20) On the expiry of term of this agreement, Government may renew this agreement for such further period and on such terms and conditions as the Government may in its absolute discretion deem fit.
- (21) The cost and incidental charges incurred in the execution of this agreement including stamp duty shall be borne and paid by the company.

  
(राम अरवतार तिवारी)  
विशेष कर्तव्यस्थ अधिकारी  
बृहद परियोजना नियंत्रण मंडल  
जल संसाधन विभाग, बीपाल



  
21/10



- (22) Order No/वृ.प.नि.मं./31/तक/रा.स्त.-910/2020/243, Dated 30/05/2020 of Chief Engineer, BODHI and Member Secretary, Sadhikar Samiti, Govt. of M.P. Water Resources Department, Bhopal and order No.18-1/91/मध्यम/31/ 797, Dated 30-11-2010 of Secretary, Control Board for Major Project and M.P. Gazette Notification (Extra Ordinary) No. 18-1-91-मध्यम-इक्तीस- 626, Dated 22-06-2013 of Deputy Secretary, Govt. of M.P. WRD. (for water allocation and executive instructions etc.) will also form the part of this agreement.

(23) **SETTLEMENT OF DISPUTES:**

(a) **Mutual Discussion** – the parties to this agreement agree that all disputes touching upon or arising out of this agreement including interpretation of any of the clauses of this agreement, the respective rights and obligation of the parties or non performance of obligation on the part of any party shall be amicably resolved by mutual negotiations.

(b) **Arbitration** – If after sixty day from the commencement of such negotiations, the parties have been unable to resolve amicably a dispute, such dispute or difference shall be referred to Arbitration under the provisions of the arbitration and conciliation Act, 1996. The award of the Arbitration panel shall be final and binding on the parties.

(24) **SPECIAL CONDITIONS:-**

- 24.1 If the Company fails to start industrial production within 48 months from the date of issue of water allocation order, then the Company shall pay water tax equivalent to 5% of the water tax and cess payable on the annual allocation of water. However, the Company will have the option of depositing the above fees on a monthly basis or in a single annual installment.
- 24.2 If in case, the Company fails to start industrial production up to 72 months from the date of issuance of water allocation order or the authorized extended period therefor, then the water allocation order shall be deemed to be cancelled and the security amount deposited by the company mentioned in Para 4 and clause no. 13 of this agreement shall stand forfeited.
- 24.3 It is hereby agreed that the Company will have an option to fix different dates for commencing industrial production in different units at this location. The details of agreed programme and water utilization (the period between two successive dates shall be six months or less) is given below:-

S. No.	Effective date of water drawl	Programme for Commissioning of units		Agreed quantity of water drawl per month in Cum.
		No. of Units agreed to be commissioned and their water requirement per unit	Total no. of units under operation and total water requirement	
1	2	3	4	5
1	30-09-2021	2165 Cum/day	2165 day Cum/Month	65833 Cum/Month

- 24.4 If the company fails to start production in successive units as shown in the table above, then the water tax and cess will be charged at the rate of 90% of the total quantity of annual allocated water.

*Amankar*  
(रामअवतार तिवारी)  
विशेष कर्तव्यस्थ अधिकारी  
बृहद परियोजना नियंत्रण मंडल  
जल संसाधन विभाग, बोपाल



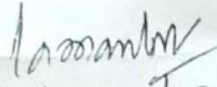
*Aditya*  
21/10



24.5 On starting of the industrial production the company may convert the security amount, deposited by the company mentioned in Para 4 and clause no. 13 of this agreement, and deposit the amount equivalent to two months water tax and cess as bank guarantee and the deposited security amount may be adjusted in current monthly water bills.

IN WITNESS WHERE OF **Ramavtar Tiwari, OFFICER ON SPECIAL DUTY (Executive Engineer), Control Board for Major Project, Water Resources Deptt. Bhopal (MP)**, has for and on behalf of the Governor of Madhya Pradesh hereto set his hand and affixed the seal of the office and the common seal of the OFFICER ON SPECIAL DUTY (Executive Engineer), Control Board for Major Project, Water Resources Deptt. Bhopal (MP) has been here up to affixed on the day and year first herein above written.

SIGNED

  
(रामअवतार तिवारी)  
विशेष कर्तव्यस्थ अधिकारी  
बृहद परियोजना नियंत्रण मंडल  
जल संसाधन विभाग, भोपाल


SEALED

DELIVERED

(by **Ramavtar Tiwari, OFFICER ON SPECIAL DUTY (Executive Engineer), Control Board for Major Project, Water Resources Deptt. Bhopal (MP)** for and on behalf of the Governor of Madhya Pradesh in the presence of

(1)

R. P. Soni  
C.B.M.P. Bhopal

  
21/10/2020

(2)

Rajendra Kumar Vamdeo  
Asst Grad-III  
C.B.M.P. Bhopal

R. Vamdeo  
21/10/2020

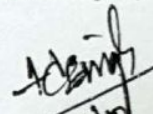
(THE COMMON SEAL OF M/s Jaytaceem (Central) Ltd, Hanpur (U.P.) was pursuant to the resolution of the Board of the Directors of the company dated the 23.02.2018 and Mr. Aditya Pratap Singh, General Manager (Projects) of the company who in token thereof have here to set their respective hand in presence of)

Witness:

Signature

(1)

Ram Pal Goyal

  
21/10

R. Pal  
21/10/2020



(2)

Sandeep Kumar Trivedi

Sandeep Trivedi  
21/10/2020

TEST REPORT CODE: VGL/W/24/01/15/031

TEST REPORT ISSUE DATE: 22.01.2024

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

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

**Location of Sample** : DEORA VILLAGE

**Sample Description** : GROUND WATER

**Date & Time of Sampling** : 13.01.2024 03:00 PM

**Sample Collected by** : MR. VIRENDRA KUMAR

**Environmental Condition (Temp. & RH)** : 23.0 °C & 62%

**Sample Packing** : SEALED

**Sample Id No.** : 031

**Laboratory Sample Receiving Date** : 15.01.2024

**Duration of Sample Analysis** : 15.01.2024 TO 22.01.2024

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

## TEST RESULTS

Sr. No.	Parameters	Test Method	Result	Unit	Limit as per IS 10500:1991 (Reaff:2012)	
					Desirable	Permissible
1.	pH at 25 °C	APHA 4500H+A+B	7.41	-	6.5-8.5	No relaxation
2.	Temperature	APHA 2550-A+B	23.5	°C	Not Specified	Not Specified
3.	Colour	APHA 2120-B	<5.0	Hazen	5	15
4.	Turbidity	APHA 2130-A+B	<1.0	NTU	1	5
5.	Odour	APHA 2150-B	Agreeable	-	Agreeable	Agreeable
6.	Alkalinity	APHA 2320-A+B	148.0	mg/L	200	600
7.	Total Dissolved Solids	APHA 2540-C	474.0	mg/L	500	2000
8.	Total Hardness	APHA 2340 A+C	164.0	mg/L	200	600
9.	Calcium	APHA 3500 Ca- A+B	46.0	mg/L	75	200
10.	Magnesium	APHA 3500 Mg A+B	12.0	mg/L	30	100
11.	Sodium	APHA 3500 Na, A+B	20.0	mg/L	-	-
12.	Phosphate	APHA 4500-PD	BDL	mg/L	-	-
13.	Sulfate	APHA 4500-SO42- E	30.5	mg/L	200	400
14.	Potassium	APHA 3500 K, A+B	10.0	mg/L	-	-

Page 1 of 3

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

Review By:



Dr. Ashok Kumar  
Technical Manager

Authorized Signatory,

Virat Global Lab

Authorized Signatory  
D. K. Yadav  
Lab In-charge

**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 CODE: VGL/W/24/01/15/031

TEST REPORT ISSUE DATE: 22.01.2024

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

**TEST RESULTS**

15.	Nitrate	APHA 4500-NO <sub>3</sub> - B	7.5	mg/L	45.0	-
16.	Free Residual Chlorine	APHA 4500-Cl B	<0.2	mg/L	0.2	1.0
17.	Chloride	APHA 4500 Cl A+B	30.8	mg/L	250	1000
18.	Boron	APHA 4500 B A+C	BDL	mg/L	0.5	1.0
19.	Copper	APHA 3111 A+B	BDL	mg/L	0.05	1.5
20.	Cadmium	APHA 3111 A+B	BDL	mg/L	0.003	No relaxation
21.	Iron	APHA 3500 Fe B	0.16	mg/L	0.3	No relaxation
22.	Lead	APHA 3111 A+B	BDL	mg/L	0.01	No relaxation
23.	Nickel	APHA 3111 A+B	BDL	mg/L	0.02	No relaxation
24.	Zinc	APHA 3111 A+B	BDL	mg/L	5	15
25.	Fluoride	APHA 4500-C	0.69	mg/L	1.0	1.5
26.	Hexavalent Chromium	APHA 3500 B	ND	mg/L	0.001	No relaxation
27.	Electrical Conductivity	APHA 2510 B	774	μS/cm	-	-

Page 2 of 3

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

**Review By:**



Dr. Ashok Kumar  
Technical Manager

**Authorized Signatory**  
**Virat Global Lab**



Dr. K. Verma  
Authorized Signatory  
Lab In-charge



TEST REPORT CODE: VGL/W/24/01/15/031

TEST REPORT ISSUE DATE: 22.01.2024


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

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

Page 3 of 3

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

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



TEST REPORT CODE: VGL/W/24/01/15/032

TEST REPORT ISSUE DATE: 22.01.2024

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

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

**Location of Sample** : NEAR ZERO POINT

**Sample Description** : GROUND WATER

**Date & Time of Sampling** : 13.01.2024 03:30 PM

**Sample Collected by** : MR. VIRENDRA KUMAR

**Environmental Condition (Temp. & RH)** : 22.5 °C & 65%

**Sample Packing** : SEALED

**Sample Id No.** : 032

**Laboratory Sample Receiving Date** : 15.01.2024

**Duration of Sample Analysis** : 15.01.2024 TO 22.01.2024

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

**TEST RESULTS**

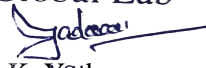
Sr. No.	Parameters	Test Method	Result	Unit	Limit as per IS 10500:1991 (Reaff:2012)	
					Desirable	Permissible
1.	pH at 25 °C	APHA 4500H+A+B	7.35	-	6.5-8.5	No relaxation
2.	Temperature	APHA 2550-A+B	23.5	°C	Not Specified	Not Specified
3.	Colour	APHA 2120-B	<5.0	Hazen	5	15
4.	Turbidity	APHA 2130-A+B	<1.0	NTU	1	5
5.	Odour	APHA 2150-B	Agreeable	-	Agreeable	Agreeable
6.	Alkalinity	APHA 2320-A+ B	144.0	mg/L	200	600
7.	Total Dissolved Solids	APHA2540-C	423.0	mg/L	500	2000
8.	Total Hardness	APHA 2340 A+C	138.0	mg/L	200	600
9.	Calcium	APHA 3500 Ca- A+B	26.0	mg/L	75	200
10.	Magnesium	APHA 3500 Mg A+B	17.8	mg/L	30	100
11.	Sodium	APHA 3500 Na, A+B	19.0	mg/L	-	-
12.	Phosphate	APHA 4500-PD	BDL	mg/L	-	-
13.	Sulfate	APHA 4500-SO42- E	24.5	mg/L	200	400
14.	Potassium	APHA 3500 K, A+B	8.0	mg/L	-	-

Page 1 of 3

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

Reviewed By

  
Dr. Ashok Kumar  
Technical ManagerAuthorized Signatory  
Virat Global Lab  
Authorized Signatory  
Lab In-charge

TEST REPORT CODE: VGL/W/24/01/15/032

TEST REPORT ISSUE DATE: 22.01.2024

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

**TEST RESULTS**

15.	Nitrate	APHA 4500-NO <sub>3</sub> - B	6.5	mg/L	45.0	-
16.	Free Residual Chlorine	APHA 4500-Cl B	<0.2	mg/L	0.2	1.0
17.	Chloride	APHA 4500 Cl A+B	30.4	mg/L	250	1000
18.	Boron	APHA 4500 B A+C	BDL	mg/L	0.5	1.0
19.	Copper	APHA 3111 A+B	BDL	mg/L	0.05	1.5
20.	Cadmium	APHA 3111 A+B	BDL	mg/L	0.003	No relaxation
21.	Iron	APHA 3500 Fe B	0.22	mg/L	0.3	No relaxation
22.	Lead	APHA 3111 A+B	BDL	mg/L	0.01	No relaxation
23.	Nickel	APHA 3111 A+B	BDL	mg/L	0.02	No relaxation
24.	Zinc	APHA 3111 A+B	BDL	mg/L	5	15
25.	Fluoride	APHA 4500-C	0.55	mg/L	1.0	1.5
26.	Hexavalent Chromium	APHA 3500 B	ND	mg/L	0.001	No relaxation
27.	Electrical Conductivity	APHA 2510 B	711.0	μS/cm	-	-

Page 2 of 3

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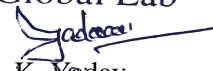
**Review By**

Dr. Ashok Kumar  
Technical Manager



**Authorized Signatory**  
Virat Global Lab

Dr. K. Yadav  
Authorized Signatory  
Lab In-charge



TEST REPORT CODE: VGL/W/24/01/15/032

TEST REPORT ISSUE DATE: 22.01.2024


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

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

Page 3 of 3

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

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



TEST REPORT CODE: VGL/W/24/01/15/033

TEST REPORT ISSUE DATE: 22.01.2024

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

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

**Location of Sample** : NEAR HR OFFICE

**Sample Description** : GROUND WATER

**Date & Time of Sampling** : 13.01.2024 03:50 PM

**Sample Collected by** : MR. VIRENDRA KUMAR

**Environmental Condition (Temp. & RH)** : 22.5 °C & 65%

**Sample Packing** : SEALED

**Sample Id No.** : 030

**Laboratory Sample Receiving Date** : 15.01.2024

**Duration of Sample Analysis** : 15.01.2024 TO 22.01.2024

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

**TEST RESULTS**

Sr. No.	Parameters	Test Method	Result	Unit	Limit as per IS 10500:1991 (Reaff:2012)	
					Desirable	Permissible
1.	pH at 25 °C	APHA 4500H+A+B	7.33	-	6.5-8.5	No relaxation
2.	Temperature	APHA 2550-A+B	24.0	°C	Not Specified	Not Specified
3.	Colour	APHA 2120-B	<5.0	Hazen	5	15
4.	Turbidity	APHA 2130-A+B	<1.0	NTU	1	5
5.	Odour	APHA 2150-B	Agreeable	-	Agreeable	Agreeable
6.	Alkalinity	APHA 2320-A+ B	144.0	mg/L	200	600
7.	Total Dissolved Solids	APHA2540-C	390.0	mg/L	500	2000
8.	Total Hardness	APHA 2340 A+C	152.0	mg/L	200	600
9.	Calcium	APHA 3500 Ca- A+B	38.0	mg/L	75	200
10.	Magnesium	APHA 3500 Mg A+B	13.9	mg/L	30	100
11.	Sodium	APHA 3500 Na, A+B	17.0	mg/L	-	-
12.	Phosphate	APHA 4500-PD	BDL	mg/L	-	-
13.	Sulfate	APHA 4500-SO42- E	29.5	mg/L	200	400
14.	Potassium	APHA 3500 K, A+B	10.0	mg/L	-	-

Page 1 of 3

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

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

TEST REPORT CODE: VGL/W/24/01/15/033

TEST REPORT ISSUE DATE: 22.01.2024

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

### TEST RESULTS

15.	Nitrate	APHA 4500-NO <sub>3</sub> - B	7.6	mg/L	45.0	-
16.	Free Residual Chlorine	APHA 4500-Cl B	<0.2	mg/L	0.2	1.0
17.	Chloride	APHA 4500 Cl A+B	32.0	mg/L	250	1000
18.	Boron	APHA 4500 B A+C	BDL	mg/L	0.5	1.0
19.	Copper	APHA 3111 A+B	BDL	mg/L	0.05	1.5
20.	Cadmium	APHA 3111 A+B	BDL	mg/L	0.003	No relaxation
21.	Iron	APHA 3500 Fe B	0.17	mg/L	0.3	No relaxation
22.	Lead	APHA 3111 A+B	BDL	mg/L	0.01	No relaxation
23.	Nickel	APHA 3111 A+B	BDL	mg/L	0.02	No relaxation
24.	Zinc	APHA 3111 A+B	BDL	mg/L	5	15
25.	Fluoride	APHA 4500-C	0.66	mg/L	1.0	1.5
26.	Hexavalent Chromium	APHA 3500 B	ND	mg/L	0.001	No relaxation
27.	Electrical Conductivity	APHA 2510 B	782.0	μS/cm	-	-

Page 2 of 3

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

**Authorized Signatory**  
Virat Global Lab  
  
Dr. K. Verma  
Authorized Signatory  
Lab In-charge

TEST REPORT CODE: VGL/W/24/01/15/033

TEST REPORT ISSUE DATE: 22.01.2024

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

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

Page 3 of 3

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

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



TEST REPORT CODE: VGL/W/23/11/30/039

TEST REPORT ISSUE DATE: 07.12.2023

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

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

**Location of Sample** : DEORA VILLAGE

**Sample Description** : GROUND WATER

**Date & Time of Sampling** : 28.11.2023 11:10 AM

**Sample Collected by** : ASHISH KUMAR

**Environmental Condition (Temp. & RH)** : 27.5 °C & 60%

**Sample Packing** : SEALED

**Sample Id No.** : 039

**Laboratory Sample Receiving Date** : 30.11.2023

**Duration of Sample Analysis** : 30.11.2023 TO 07.12.2023

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

### TEST RESULTS


Sr. No.	Parameters	Test Method	Result	Unit	Limit as per IS 10500:1991 (Reaff:2012)	
					Desirable	Permissible
1.	pH at 25 °C	APHA 4500H+A+B	7.58	-	6.5-8.5	No relaxation
2.	Temperature	APHA 2550-A+B	24.6	°C	Not Specified	Not Specified
3.	Colour	APHA 2120-B	<5.0	Hazen	5	15
4.	Turbidity	APHA 2130-A+B	<1.0	NTU	1	5
5.	Odour	APHA 2150-B	Agreeable	-	Agreeable	Agreeable
6.	Alkalinity	APHA 2320-A+B	174	mg/L	200	600
7.	Total Dissolved Solids	APHA 2540-C	478	mg/L	500	2000
8.	Total Hardness	APHA 2340 A+C	162	mg/L	200	600
9.	Calcium	APHA 3500 Ca- A+B	52.0	mg/L	75	200
10.	Magnesium	APHA 3500 Mg A+B	9.5	mg/L	30	100
11.	Sodium	APHA 3500 Na, A+B	21.0	mg/L	-	-
12.	Phosphate	APHA 4500-SO42- E	BDL	mg/L	-	-
13.	Sulfate	APHA 4500-PD	33.4	mg/L	200	400
14.	Potassium	APHA 3500 K, A+B	11.0	mg/L	-	-

Page 1 of 3


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#### Review By:

  
Dr. Ashok Kumar  
Technical Manager

Virat Global Lab  
Authorized Signatory

  
Authorised Signatory  
D. K. Yadav  
Lab In-charge

TEST REPORT CODE: VGL/W/23/11/30/039

TEST REPORT ISSUE DATE: 07.12.2023

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

**TEST RESULTS**

15.	Nitrate	APHA 4500-NO <sub>3</sub> - B	7.9	mg/L	45.0	-
16.	Free Residual Chlorine	APHA 4500-Cl B	<0.2	mg/L	0.2	1.0
17.	Chloride	APHA 4500 Cl A+B	36.8	mg/L	250	1000
18.	Boron	APHA 4500 B A+C	BDL	mg/L	0.5	1.0
19.	Copper	APHA 3111 A+B	BDL	mg/L	0.05	1.5
20.	Cadmium	APHA 3111 A+B	BDL	mg/L	0.003	No relaxation
21.	Iron	APHA 3500 Fe B	0.18	mg/L	0.3	No relaxation
22.	Lead	APHA 3111 A+B	BDL	mg/L	0.01	No relaxation
23.	Nickel	APHA 3111 A+B	BDL	mg/L	0.02	No relaxation
24.	Zinc	APHA 3111 A+B	BDL	mg/L	5	15
25.	Fluoride	APHA 4500-C	0.63	mg/L	1.0	1.5
26.	Hexavalent Chromium	APHA 3500 B	ND	mg/L	0.001	No relaxation
27.	Electrical Conductivity	APHA 2510 B	788	μS/cm	No relaxation	No relaxation

Page 2 of 3

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Dr. Ashok Kumar  
Technical Manager

**Virat Global Lab  
Authorized Signatory**

Authorised Signatory

D. K. Yadav  
Lab In-charge

TEST REPORT CODE: VGL/W/23/11/30/039

TEST REPORT ISSUE DATE: 07.12.2023


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

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

Page 3 of 3

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



TEST REPORT CODE: VGL/W/23/11/30/040

TEST REPORT ISSUE DATE: 07.12.2023

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

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

**Location of Sample** : NEAR ZERO POINT

**Sample Description** : GROUND WATER

**Date & Time of Sampling** : 28.11.2023 11:35 AM

**Sample Collected by** : ASHISH KUMAR

**Environmental Condition (Temp. & RH)** : 27.5 °C & 60%

**Sample Packing** : SEALED

**Sample Id No.** : 040

**Laboratory Sample Receiving Date** : 30.11.2023

**Duration of Sample Analysis** : 30.11.2023 TO 07.12.2023

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

### TEST RESULTS

Sr. No.	Parameters	Test Method	Result	Unit	Limit as per IS 10500:1991 (Reaff:2012)	
					Desirable	Permissible
1.	pH at 25 °C	APHA 4500H+A+B	7.22	-	6.5-8.5	No relaxation
2.	Temperature	APHA 2550-A+B	23.7	°C	Not Specified	Not Specified
3.	Colour	APHA 2120-B	<5.0	Hazen	5	15
4.	Turbidity	APHA 2130-A+B	<1.0	NTU	1	5
5.	Odour	APHA 2150-B	Agreeable	-	Agreeable	Agreeable
6.	Alkalinity	APHA 2320-A+B	158	mg/L	200	600
7.	Total Dissolved Solids	APHA 2540-C	448	mg/L	500	2000
8.	Total Hardness	APHA 2340 A+C	144	mg/L	200	600
9.	Calcium	APHA 3500 Ca- A+B	42.0	mg/L	75	200
10.	Magnesium	APHA 3500 Mg A+B	11.6	mg/L	30	100
11.	Sodium	APHA 3500 Na, A+B	19.0	mg/L	-	-
12.	Phosphate	APHA 4500-SO42- E	BDL	mg/L	-	-
13.	Sulfate	APHA 4500-PD	24.0	mg/L	200	400
14.	Potassium	APHA 3500 K, A+B	8.0	mg/L	-	-

Page 1 of 3

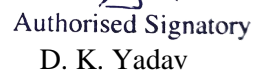
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- The above Results are related to the tested sample only.

#### Reviewed by:

  
Dr. Ashok Kumar  
Technical Manager

Virat Global Lab  
Authorized Signatory

  
Authorised Signatory  
D. K. Yadav  
Lab In-charge

TEST REPORT CODE: VGL/W/23/11/30/040

TEST REPORT ISSUE DATE: 07.12.2023

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

**TEST RESULTS**

15.	Nitrate	APHA 4500-NO <sub>3</sub> - B	6.9	mg/L	45.0	-
16.	Free Residual Chlorine	APHA 4500-Cl B	<0.2	mg/L	0.2	1.0
17.	Chloride	APHA 4500 Cl A+B	32.8	mg/L	250	1000
18.	Boron	APHA 4500 B A+C	BDL	mg/L	0.5	1.0
19.	Copper	APHA 3111 A+B	BDL	mg/L	0.05	1.5
20.	Cadmium	APHA 3111 A+B	BDL	mg/L	0.003	No relaxation
21.	Iron	APHA 3500 Fe B	0.20	mg/L	0.3	No relaxation
22.	Lead	APHA 3111 A+B	BDL	mg/L	0.01	No relaxation
23.	Nickel	APHA 3111 A+B	BDL	mg/L	0.02	No relaxation
24.	Zinc	APHA 3111 A+B	BDL	mg/L	5	15
25.	Fluoride	APHA 4500-C	0.48	mg/L	1.0	1.5
26.	Hexavalent Chromium	APHA 3500 B	ND	mg/L	0.001	No relaxation
27.	Electrical Conductivity	APHA 2510 B	738.0	μS/cm	No relaxation	No relaxation

Page 2 of 3

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**Reviewed By:**



Dr. Ashok Kumar  
Technical Manager

**Virat Global Lab  
Authorized Signatory**

Authorised Signatory

D. K. Yadav  
Lab In-charge

TEST REPORT CODE: VGL/W/23/12/30/040

TEST REPORT ISSUE DATE: 07.12.2023


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

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

Page 3 of 3

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



TEST REPORT CODE: VGL/W/23/11/30/041

TEST REPORT ISSUE DATE: 07.12.2023

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

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

**Location of Sample** : NEAR HR OFFICE

**Sample Description** : GROUND WATER

**Date & Time of Sampling** : 28.11.2023 11:45 AM

**Sample Collected by** : ASHISH KUMAR

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

**Sample Packing** : SEALED

**Sample Id No.** : 041

**Laboratory Sample Receiving Date** : 30.11.2023

**Duration of Sample Analysis** : 30.11.2023 TO 07.12.2023

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

### TEST RESULTS

Sr. No.	Parameters	Test Method	Result	Unit	Limit as per IS 10500:1991 (Reaff:2012)	
					Desirable	Permissible
1.	pH at 25 °C	APHA 4500H+A+B	7.49	-	6.5-8.5	No relaxation
2.	Temperature	APHA 2550-A+B	24.5	°C	Not Specified	Not Specified
3.	Colour	APHA 2120-B	<5.0	Hazen	5	15
4.	Turbidity	APHA 2130-A+B	<1.0	NTU	1	5
5.	Odour	APHA 2150-B	Agreeable	-	Agreeable	Agreeable
6.	Alkalinity	APHA 2320-A+B	164	mg/L	200	600
7.	Total Dissolved Solids	APHA 2540-C	473	mg/L	500	2000
8.	Total Hardness	APHA 2340 A+C	180	mg/L	200	600
9.	Calcium	APHA 3500 Ca- A+B	56.0	mg/L	75	200
10.	Magnesium	APHA 3500 Mg A+B	10.2	mg/L	30	100
11.	Sodium	APHA 3500 Na, A+B	18.0	mg/L	-	-
12.	Phosphate	APHA 4500-SO42- E	BDL	mg/L	-	-
13.	Sulfate	APHA 4500-PD	31.5	mg/L	200	400
14.	Potassium	APHA 3500 K, A+B	9.0	mg/L	-	-

Page 1 of 3

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#### Reviewed By:

  
D. Ashok Kumar  
Technical Manager

Virat Global Lab  
Authorized Signatory

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 CODE: VGL/W/23/11/30/041

TEST REPORT ISSUE DATE: 07.12.2023

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

**TEST RESULTS**

15.	Nitrate	APHA 4500-NO <sub>3</sub> - B	7.1	mg/L	45.0	-
16.	Free Residual Chlorine	APHA 4500-Cl B	<0.2	mg/L	0.2	1.0
17.	Chloride	APHA 4500 Cl A+B	34.0	mg/L	250	1000
18.	Boron	APHA 4500 B A+C	BDL	mg/L	0.5	1.0
19.	Copper	APHA 3111 A+B	BDL	mg/L	0.05	1.5
20.	Cadmium	APHA 3111 A+B	BDL	mg/L	0.003	No relaxation
21.	Iron	APHA 3500 Fe B	0.18	mg/L	0.3	No relaxation
22.	Lead	APHA 3111 A+B	BDL	mg/L	0.01	No relaxation
23.	Nickel	APHA 3111 A+B	BDL	mg/L	0.02	No relaxation
24.	Zinc	APHA 3111 A+B	BDL	mg/L	5	15
25.	Fluoride	APHA 4500-C	0.52	mg/L	1.0	1.5
26.	Hexavalent Chromium	APHA 3500 B	ND	mg/L	0.001	No relaxation
27.	Electrical Conductivity	APHA 2510 B	770.0	μS/cm	No relaxation	No relaxation

Page 2 of 3

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Review By:



D. Ashok Kumar  
Technical Manager

Virat Global Lab  
Authorized Signatory

Authorised Signatory  
D. K. Yadav  
Lab In-charge

TEST REPORT CODE: VGL/W/23/11/30/041

TEST REPORT ISSUE DATE: 07.12.2023


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

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

Page 3 of 3

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



**2 नव स्वदेश पन्ना- जिला**  
**रीवा, गुरुवार 15 अक्टूबर 2020**

**पर्यावरण स्वीकृति के संबंध में आम सूचना**

पर्यावरण, वन और जलवायु परिवर्तन मंत्रालय (एम.ओ.ई.एफ.सी.सी.) भारत सरकार नई दिल्ली ने ई.आई.ए. अधिसूचना 2006 के अधीन मेसर्स जेके सेम सेन्ट्रल लिमिटेड ग्रामो-हरदुआकेन, पुरैना, सोतीपुरा व मडैयन तहसील अमानगंज जिला पन्ना (म.प्र.) की प्रस्तावित सीमेंट प्लांट की ग्रीनफील्ड इंटीग्रेटेड सीमेंट परियोजना के लिए पर्यावरण की अनुमति प्रदान की गई है। यह विज्ञापन आम जनता के सूचनार्थ है। पर्यावरण स्वीकृति पत्र क्रमांक IA-J-11011/224/2016-IA-II (I) दिनांक 14.10.2020 की प्रति म.प्र. प्रदूषण नियंत्रण बोर्ड अरेरा कालोनी, पर्यावरण परिसर, भोपाल (म.प्र.) और एम.ओ.ई.एफ.सी. की वेबसाइट [www.parivesh.nic.in](http://www.parivesh.nic.in) पर भी उपलब्ध है।

परियोजना प्राधिकारी  
जेके सेम सेन्ट्रल लिमिटेड

राज एक्सप्रेस

**पन्ना एक्सप्रेस**

सतना

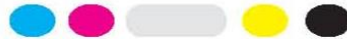
गुरुवार, 15 अक्टूबर 2020

12

**पर्यावरण स्वीकृति के संबंध में आम सूचना**

पर्यावरण वन और जलवायु परिवर्तन मंत्रालय (एम.ओ.ई.एफ.सी.सी.) भारत सरकार नई दिल्ली ने ई.आई.ए. अधिसूचना 2006 के अधीन मेसर्स जेके सेम सेन्ट्रल लिमिटेड ग्रामो-हरदुआकेन, पुरैना, सोतीपुरा व मडैयन तहसील अमानगंज जिला पन्ना (म.प्र.) की प्रस्तावित सीमेंट प्लांट की ग्रीन फील्ड इंटीग्रेटेड सीमेंट परियोजना के लिए पर्यावरण की अनुमति प्रदान की गई है। यह विज्ञापन आम जनता के सूचनार्थ है। पर्यावरण स्वीकृति पत्र क्रमांक IA-J-11011/224/2016-IA-II(I) दिनांक 14.10.2020 की प्रति म.प्र. प्रदूषण नियंत्रण बोर्ड अरेरा कालोनी पर्यावरण परिसर भोपाल म.प्र. और एम.ओ.ई.एफ.सी.सी. की वेबसाइट [www.parivesh.nic.in](http://www.parivesh.nic.in) पर उपलब्ध है।

परियोजना प्राधिकारी  
जेके सेम सेन्ट्रल लिमिटेड



## Jaykaycem (Central) Ltd.

GSTIN-23AABCJ4401G2Z6

CIN:U72305UP1987PLC009162

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

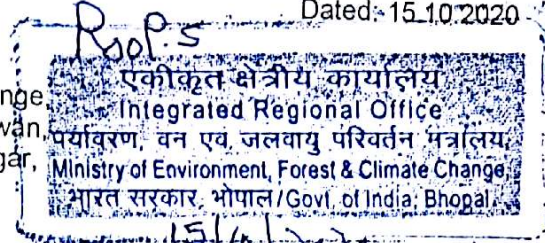
Ref. No. PN/EMD/MoEF/F 01/024

To,

Regional Officer,

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

Dated: 15.10.2020



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

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

Sir,

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

Thanking you with regards

Yours faithfully,

For M/s. Jaykaycem (Central) Limited

Aditya Pratap Singh  
Authorized Signatory

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

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

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

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



Phone : +91-512-2371479 to 81. Fax : +91-512-2399854. E-mail : admin@jkcements.com



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

EI285081351IN IVR:6973285  
SP C.T.T.NAGAR H.O (462003)  
Counter No:7,15/10/2020,14:32  
To:ANUMIBHAGIY ADHIKARI,GUNOR  
PIN:488059, Gunour S.O  
From:JAYKAYCEM C,REVERA TOWN  
Wt:75gms  
Amt:47.20(Cash)Tax:7.20

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

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

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

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

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

EI285081365IN IVR:6973285  
SP C.T.T.NAGAR H.O (462003)  
Counter No:7,15/10/2020,14:32  
To:SARPANCH SACHIV,-  
PIN:488448, Shahnagar S.O  
From:JAYKAYCEM C,REVERA TOWN  
Wt:85gms  
Amt:47.20(Cash)Tax:7.20

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

EI285081484IN IVR:6973285  
SP C.T.T.NAGAR H.O (462003)  
Counter No:7,15/10/2020,14:32  
To:THE COLLECTOR SB,-  
PIN:488001, Panna MDG S.O  
From:JAYKAYCEM C,REVERA TOWN  
Wt:80gms  
Amt:47.20(Cash)Tax:7.20  
(Track on www.indiapost.gov.in)  
(Dial 18002666868) (Wear Mask, Stay Safe)

EI285081232IN IVR:6973285  
SP C.T.T.NAGAR H.O (462003)  
Counter No:7,15/10/2020,14:32  
To:SARPANCH  
PIN:488441, Amanganj S.O  
From:JAYKAYCEM C,REVERA TOWN  
Wt:85gms  
Amt:47.20(Cash)Tax:7.20

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

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

47.20/-



### SERVICE ORDER

<b>Vendor Details</b> <b>Code : 1108942</b> Vimta Labs Limited Life Sciences Facility Plot No. 5 Alexandria Knowledge Park Genome Valley Shameerpet Hyderabad-500078 Andhra Pradesh Mob.: 09985986899 Email id : env-projects@vimta.com <b>GST No: 36AAACV7244E1ZE</b>	<b>Bill To address</b> <b>JK CEMENT WORKS, PANNA</b> A Unit of JK Cement Ltd. Village Harduwaken, Tehsil Amanganj, PIN - 488441, Distt. Panna (M.P.) <b>GST No: 23AABCJ0355R4ZC</b> <b>PAN No: AABCJ4401G</b>	<b>PO NO: 4600099519</b> <b>PO Date: 05.01.2024</b> Quotation Reference: Ver. No.: 0 Our Reference:
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With reference to your quotation and subsequent negotiations, we are pleased to place this Service Order on you for the supply/service of following items subject to terms and conditions stated below and printed overleaf/attached with this document.

S No.	Item Code & PR NO.	Item Description	Unit	Quantity	Rate Per Unit (INR)	Amount (INR)
0001	2000128256	SERVICE ENGINEER VISITING CHARGES Site Visit charges for finalizing the locations at inlet and outlet port holes of 3 nos. bag house (Cement mill, Coal mill and Raw mill) and 1 no. Cooler Esp for Performance monitoring of pollution control devices.  Rate included all charges (TRAVELLING, LODGING, BOARDING, LOCAL CONVEYANCE) as per quotation ref no VLL/11/F/23-24/NOIDA-0096. <b>Tax Code : GD GST: IN : IGST (18%)</b> <b>Delivery Date : 31.01.2024</b> <b>Service Line :</b>				0
		1. 900013 SERVICE ENGINEER VISITING CHARGES SERVICE ENGINEER VISITING CHARGES FOR SERVICE / MAINTENANCE ENGINEER	D	1.000	25000.00	0 25,000.00
0002	2000126637	Performance monitoring of PCE Performance monitoring of Pollution Control Equipment i.e. 1. Raw Mill Bag house 2. Coal Mill Bag house 3. ESP 4. Cement Mill Bag House  Note: 1. To <(>&<)> fro travel of service engineer, instrumentation carrying Rs. 20000/- included in the PO. 2. Local Conveance, lodging boarding at guest house is under JKCL scope. 3. additional charges bayond 7 days work Rs. 25000/- per day charges applicable if required.  <b>Tax Code : GD GST: IN : IGST (18%)</b> <b>Delivery Date : 31.01.2024</b>				0

This is an electronically signed document and does not require any physical signature.

Page : 1 of 6



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

**JK SUPER CEMENT**  
**BUILD SAFE**

Manufacturing Units at:  
Nimbahera, Mangrol, Gotan (Rajasthan) | Muddapur (Karnataka)  
Jharli (Haryana) | Katni (M.P.) | Aligarh (U.P.) | Balasinor (Gujarat)

**JK CEMENT WallMaxX**  
White Cement Wall Putty



Vendor Code: 1108942 - Vimta Labs Limited

PO NO: 4600099519

	Service Line :				
	1. 900047 STACK AIR SAMPLING & MONITORING STACK SAMPLING & MONITORING BY THIRD PARTY AS PER GUIDELINES	NO	24.000	6458.33	0 154,999.92
	2. 900012 TRAVEL CHARGES OF VISITOR/CONSULTANCY TRAVEL CHARGES OF VISITOR/CONSULTANCY/SERVICE ENGINEER WITH ALL CONVEYNCS	LOT	1.000	20000.00	0 20,000.00
				Gross Value:	199999.92
				Discount :	0.00
				Total Amount:	199,999.92
				IGST	35999.99
				Total PO value:	235,999.91
Total (in Words) :		TWO LAKH THIRTY FIVE THOUSAND NINE HUNDRED NINETY NINE Rupees NINETY ONE Paise Only			

#### Header Text:

##### Special Note:

1. All the Contract <(>&<)> Contract manpower Should have Standard PPE with IS specification safety Shoe , Helmet <(>&<)> others required PPE.

2. All the lifting tools <(>&<)> Tackles will use by contractor must have TPI certificates from competent person of MP Factory rules and same shall be checked at security gate prior to entry into plant.

##### Note:

Violation of Safety will impose penalty on the contractor.

a) Violation of non-compliance of SOP and unsafe act- Rs 500/ Per Occurrence

b) Violation of work permit # Rs 1000/ Per Occurrence

c) Violation of Working at Height Safety # Rs 2000/ Per Occurrence

d) Major injury / temporary disability- Rs 2.5 Lakhs Per Occurrence

e) Permanent disability / Fatality- Rs 5 Lakhs and necessary disciplinary action shall be taken against the concerned contractor's site engineer / in charge (Per Occurrence).

##### SAFETY REQUIREMENT:

You shall ensure and declare that you shall take all required safety precautions in carrying out the work awarded under this Work order as per attached

ANNEXURE -as per contractor obligation integral part of this order.

AS PER RATE, BILL WILL BE PASSED AFTER ACCOUNT AND USER VERIFICATION/ APPROVAL ONLY.

1. Taxes: GST shall be paid extra as applicable. TDS shall be deducted as applicable.

2. Payment: Payment shall be made as agreed after completion of job and submission of Bill/ invoice duly certified by our user department. Kindly sent bill directly to concern person/department for timely processing of payment.

##### 3. Special Note:

a. Payment shall be released on actual work duly certified by user department.

b. Traveling charges vendor scope

c. Travel Day charges vendor scope

d. Accommodation JKCL scope , Fooding and other expenses vendor scope.

e. All tools and tackle, All PPE in Contractors scope.

f. PF, ESIC, WC Policy, Insurance of all the workman in Contractors scope.

g. Hydra, Crane, Consumables, Scaffolding as agreed

##### 4. Duration and Deputation Dates:

For exact deputation date we request you to please contact end user

##### Terms of Delivery:

2 DAYS SITE VISIT + 2 DAYS TRAVELLING

##### Terms of Payment: 07 days credit from Dt of receipt material/services

1. Within 7 days after completion of work <(>&<)> submission of invoice.

#### Important Terms & Conditions:

This is an electronically signed document and does not require any physical signature.

Page : 2 of 6



##### Registered Office

Kamla Tower, Kanpur - 208001, U.P., India

+91-512-2371478 to 85

+91-512-2399854

www.jkcement.com



##### Manufacturing Units at:

Nimbahera, Mangrol, Gotan (Rajasthan) | Muddapur (Karnataka)

Jharli (Haryana) | Katni (M.P.) | Aligarh (U.P.) | Balasinor (Gujarat)



# JK Cement Limited, Panna

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## Heat Stress Analysis Report

**Key finding-** Summarize the main take way from the analysis. This include

- Identification of specific area with high heat stress potential e.g. kiln zone and clinker cooler
- Evaluation of work practice that contribute to worker heat stress.
- Assessment of current control measure and their effectiveness.

### **Criteria-**

**Physiological test-** As per factory act in house medical examination facilities available in our OHC to workers and operators.

### **Working guideline of heat stress-**

**1.Walk around inspection-** During the walk around inspection we determine the building and operation characteristics whether engineering control are functional properly.

**2.Work load assessment-** To determine under condition of high temp and heavy work load activity.

**3.Cool rest area-** Shelter room available at kiln zone with all the facilities (like: water cooler ,fans, good sitting place) are available for the prevention of heat stress.

### **Sampling method-**

During inspection of the heat area of plant we have to done the method of measurement of body temperature, environment measurement, **wet bulb glob temperature index** and another thermal index are available and worked properly as per guideline and factory act.

### **Engineering controls**

There are five major type of engineering control to be followed to reduce heat stress in hot working environment.

#### **1.General ventilation**

#### **2. Air cooling**

#### **3. Air conditioning**

#### **4. Local air cooling**



## 5. Fans

1. **General ventilation**- in our plant we have used to dilute hot air with cooler air.
2. **Air treatment**- we have air Treatment facilities with different from of ventilation because it reduces the temperature of air by removing heat from air.
3. **Air conditioning**- in our plant we have used method of air cooling but it is expensive to install and operate.
4. **local air cooling**- in our plant we have providing local Air-cooling facilities. It can be effective in reducing air temperature is specific areas.
5. **fans**- another way to reduce heat stress is to increase the air flow or convection using fans (as long as the air temperature is less than the worker skin temperature)

## Fluid replace arrangement-

We have providing Cooling drinking water and other cooling liquid like glucose and energy drink electrolytes is available near rest room to encourage them to drink small amount frequently, e.g. one cup every 20 minutes and 10-12 liter of water intake advisable.

Fluid replacement strategies are primarily designed to counter dehydration and electrolytes loss.

## Administrative controls

Following administrative controls to be follow to reduce heat stress.

1. Reduce the physical demands of work e.g. excessive lifting and heavy object.
2. Provided recovery area like air conditioning room
3. Scheduled shifts e.g. early morning, day shift and night work
4. Used relief workers
5. Pre -employment medical examination with physical fitness.

## Continues improvement-

- Regular reviewing WBGT reading and worker feedback.
- Updating control measure needed based on changing condition or new technology.

## Good work Practice-

- We have providing good work practice training for the prevention of heat stress to the workers and operators.
- **As per NIOSH (1986)** state conduct good heat stress training program include:
  - A. Providing Knowledge of the hazard of heat stress
  - B. Providing Awareness of first aid procedure for potential health effect of heat stroke

- C. Providing good practice for using of protecting cloths and equipment. (**heat resistance suit**)
- D. Provide awareness to using danger drugs during and alcohol in hot work environment.
- E. We have provided emergency & medical facilities 24\*7 hours at our plant premise's with ambulance facilities.



Submitted by-  
**Dr. Pradeep kumar Sharma**  
**MBBBS (AFIH)**  
**Reg. no. 10156**