JK Cement Works, Panna
(Formerly known as Jaykaycem (Central) Ltd. now amalgamated)
A Unit of JK Cement Ltd.
CIN: L17229UP1994PLC017199
Village - Harduwaken, Tehsil - Amanganj
District - Panna, State - Madhya Pradesh, India - 488 441
9329141591 jkc.panna@jkcement.com
www.jkcement.com

Ref.No.: JKCEMENT/ENV./EC/PLANT/2024-25/01/22 Date: 28.11.2024

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

Subject: **Submission of Half Yearly Environmental Clearance Compliance Status Report for period from April 2024 to September 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.o 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.
3- MoEF & CC notification no. S.O. 5845 (E) 26.11.2018.

Dear Sir,

With reference to above stated Environment Clearances (ECs) and MoEF &CC notification no. S.O. 5845 (E) 26.11.2018, we are submitting Half Yearly Environment Clearance Compliance Status Report for period from **April 2024 to September 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.o 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.

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www.jkcement.com

Thanking you,

Yours Sincerely
For: J K Cement Limited.

Kapil Agrawal
(Unit Head)

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

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

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.	**Complied.** We are complying with emission limit of 20 mg/Nm3.

Stack	Standard value (in mg/Nm3)	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24
Cement mill	**20 mg/Nm^3**	10.60	11.90	8.15	11.27	6.30	7.82
Coal mill		5.65	6.20	11.25	7.91	3.41	4.17
Cooler		6.75	11.70	8.84	10.08	13.04	14.63
Raw mill Kiln		11.46	12.50	7.20	7.92	13.68	13.98

ii.	Air cooled condenser shall be used in the captive power plant in place of water-cooled system.	**Agreed**. In first phase, CPP has not been installed. We assure that CPP will be installed with Air cooled condenser in the captive power plant.
iii.	Project proponent is permitted to abstract up to 2140 KLD ground water, for next 15 months from the date of issue of the Environment Clearance after obtaining requisite permission from the concerned Competent Authority. Thereafter, water from mine pit and Ken River shall be used and ground water abstraction is not permitted.	**Complied**. We have obtained NOC for ground water abstraction of 2140 KLD for industrial purpose vide NOC No. CGWA/NOC/IND/ORIG/2022/16811 valid from 15.10.2022 to 14.10.2025. Copy is mentioned below.

Ministry of Jal Shakti
Department of Water Resources, River Development & Ganga Rejuvenation
Central Ground Water Authority

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

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

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

8. Ground Water Abstraction Permitted:

Fresh Water		Saline Water		Dewatering		Total	
m³/day	m³/year	m³/day	m³/year	m³/day	m³/year	m³/day	m³/year
2140.00	706200.00						

9. Details of ground water abstraction /Dewatering structures

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

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

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

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

No. of Piezometers	Monitoring Mechanism		
	Manual	DWLR**	DWLR With Telemetry
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, जामनगर हाउस, मानसिंह रोड, नई दिल्ली - 110011 / 18/11, Jamnagar House, Mansingh Road, New Delhi-110011
Phone: (011) 23383543 Fax: 23382081, 23386743
Website: cgwa-noc.gov.in

"पानी बचाओ, जीवन बचाओ"
SAVE WATER - SAVE LIFE

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.	**Complied.** Total water requirement is not exceeding 5125 KLD. The per day average ground water & Ken river water consumption are 60 KLD and 1036 KLD respectively during the period from Apr-24 to Sep-24.

Months	Total Water withdrawal (in KL)			
	Borewell	KL/Day	River	KL/Day
Apr-24	851	28	52013	1734
May-24	1681	54	52255	1686
Jun-24	1083	36	54009	1800
Jul-24	927	30	31399	1013
Aug-24	3094	100	0	0
Sep-24	3262	109	0	0
Total	**10898**	**60**	**189676**	**1036**

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.	**Complied** Plant was commissioned on 02nd November 2022. Monitoring was conducted on 26.10.2024 and result is awaited. Last Dioxins and furans was monitored on 21.03.2024 by Vimta lab Limited. Report copy attached below.

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- Harduwaken, tehsil- Amanganj,
Distt. -Panna. (M.P)-48844
INDIA.

Report Number : VLL/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%Pet Coke & 30% Indian coal
Calciner: 95% Indian Coal + 05% Petcoke
Fuel (TPH): Coal (TPH)& Petcoke (TPH):Kiln-16TPH,Calciner: 42 TPH, AFR Feed-05TPH
Fuel Mix : Kiln: 70% Petcoke+ 30% Coal;
Calciner: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_2, NOx, HCl, HF, CO, Dyanid TOC.
Kiln Feed(10.00 - 17.30)Hrs : 651TPH
Sample Collected by Vimta Labs Ltd.

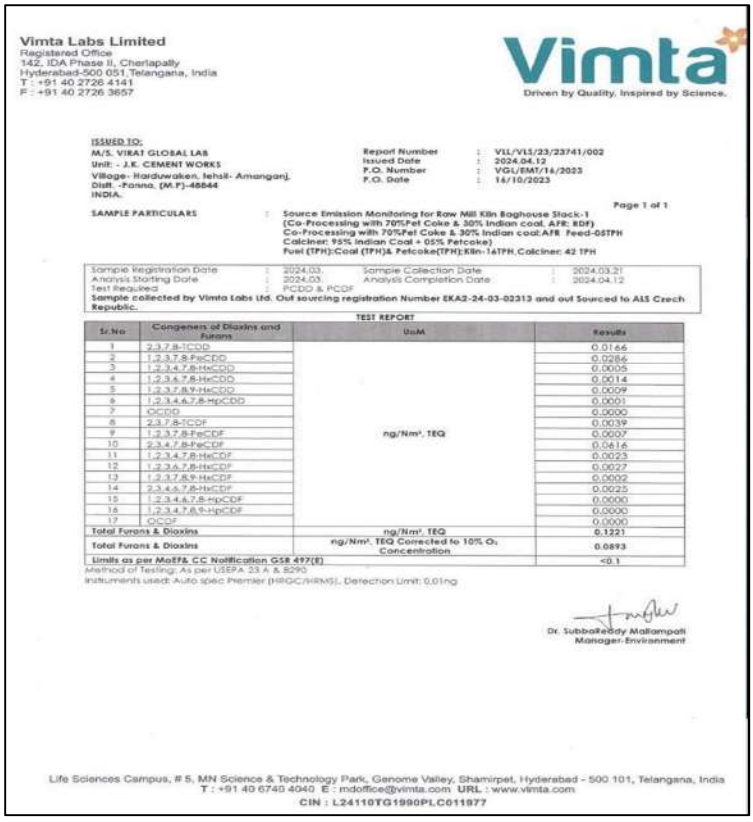
TEST REPORT

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 Hight	m	-	183	--
3	Flue gas temperature	°C	-	81	--
4	Oxygen as O_2	%	USEPA Method -3	6.0	--
5	Velocity	m/sec	USEPA Method -3	9.85	--
6	Volumetric flow rate	Nm³/Sec	USEPA Method -3	185.83	--
7	Particulate Matter	mg/Nm³	USEPA method-5	18.0	<30
8	Sulphur Dioxide	mg/Nm³	USEPA method -6C	13.5	<100
9	Oxides of Nitrogen, NOx as NO_2	mg/Nm³	USEPA method -7E	402.5	<800
10	Hydrogen Chloride as HCl	mg/Nm³	USEPA method -26	3.2	<10
11	Hydrogen Fluoride as HF	mg/Nm³	USEPA method -13	<0.1	<1.0
12	Carbon Monoxide as CO	mg/Nm³	USEPA method -3A	62.5	<100
13	Total Organic Compounds as TOC	mg/Nm³	USEPA method -40 & MM5(10)	2.8	<10

All the Values are represented at 10% O_2

Dr. Subbareddy Mallampati
Manager-Environment

Life Sciences Campus, # 5, MN Science & Technology Park, Genome Valley, Shamirpet, Hyderabad - 500 101, Telangana, India
T : +91 40 6740 4040 E : mdoffice@vimta.com URL : www.vimta.com
CIN : L24110TG1990PLC011977



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ISSUED TO:
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Unit: - J.K. CEMENT WORKS
Village- Harduwaken, tehsil- Amanganj,
Distt. -Panna. (M.P)-48844
INDIA.

Report Number : VLL/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%Pet Coke & 30% Indian coal, AFR: RDF)
Co-Processing with 70%Pet Coke & 30% Indian coal:AFR Feed-05TPH
Calciner: 95% Indian Coal + 05% Petcoke)
Fuel (TPH):Coal (TPH)& Petcoke(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/Nm³, 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/Nm³, TEQ	0.1221
Total Furans & Dioxins		ng/Nm³, TEQ Corrected to 10% O_2 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

Dr. Subbareddy Mallampati
Manager-Environment

Life Sciences Campus, # 5, MN Science & Technology Park, Genome Valley, Shamirpet, Hyderabad - 500 101, Telangana, India
T : +91 40 6740 4040 E : mdoffice@vimta.com URL : www.vimta.com
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 2024-25, (Up to Sep-2024) a total of 96208 No. of saplings have been planted in 38.48 Ha. in and around the periphery of the plant area which is 31.22% 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. Some pictures are mention below.

Cover Shed for Gypsum

Impervious flooring in stock yards

Cover Shed for Pet-Coke

Garland drain

Rain water harvesting pond (30000m3 capacity)

River reservoir (40000 m3 capacity)

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.

Internal road

Connecting roads to the Highway

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.

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.	**Complied.** We have taken Performance monitoring of pollution control equipment through NABL approved lab and report sent to Regional Office of the MoEF &CC. by email on dated 02.08.2024. Email copy as well as performance monitoring report is enclosed as **Annexure-.1.**
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.	**Complied.** We have already deposited Rs. 289.90 Lakh via. E Cheque no. CTY3061751 dated 19.08.2023 as per fund allocated for implementation of approved Wild Life Conservation Plan (WLCP) approval Letter no. V.Pra/Ma.Chi./8847 dated 13.12.2019 for JK Cement Limited Integrated Cement Plant Project. Acknowledgement copy of amount deposition is given below: However, we are following 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.

JKcement

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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 रू मध्यप्रदेश टाइगर फाउंडेशन सोसाईटी के भारतीय स्टेट बैंक मुख्य शाखा टी.टी. नगर भोपाल के बचत खाता क्रमांक 10571048460 आई.एफ.एस.सी SBIN0001308 में जमा करने हेतु निर्देशित किया गया था, उक्त तारतम्य में जेके सीमेंट लिमिटेड द्वारा 289.90 लाख रू० का भुगतान ई चैक 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।

बास्ते जेकेसेम (सेंट्रल) लिमिटेड

कपिल अग्रवाल
यूनिट हेड
जेके सीमेंट लि०

Corporate Office: Prism Tower, 5th Floor, Nirvanya Estate, Gwal Pahari, Gurugram - 122102, Haryana, +0124-6919000, admin.pcpmm@jkcement.com, www.jkcement.com

JK SUPER CEMENT BUILD SAFE | JK SUPER STRONG BUILD SAFE

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

Registered Office: Kamla Tower, Kanpur-208001, U.P., India. +91-512-2371478 to 80, +91-512-2399864, www.jkcement.com

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

Dated: 18.04.2024

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

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

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

Dear Sir,

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

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

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

Thanking you,

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

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

Corporate Office: Prism Tower, 5th Floor, Nirvanya Estate, Gwal Pahari, Gurugram - 122102, Haryana, +0124-6919000, admin.pcpmm@jkcement.com, www.jkcement.com

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Registered Office: Kamla Tower, Kanpur-208001, U.P., India. +91-512-2371478 to 80, +91-512-2399864, www.jkcement.com

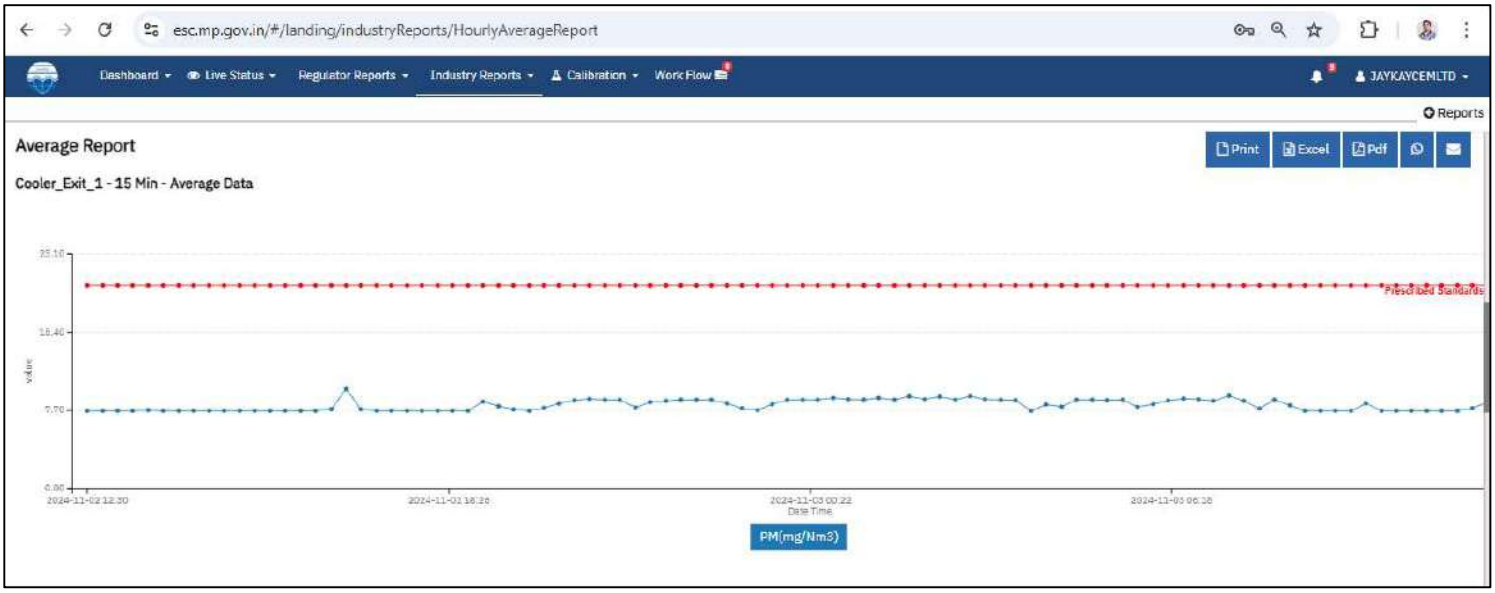
xii	Limestone from the mines to the cement plant shall be transported through overhead conveyor belt within a period of two years from date of issue of the Environment Clearance.	**Compliance in progress** ➢ We are transporting limestone from Kakra mine crusher to Cement plant through Overland Covered 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 57th meeting of the Expert Appraisal Committee - (Industry-1 sector), scheduled on 25 April, 2024, 61st meeting of the Expert Appraisal Committee - (Industry-1 sector), scheduled on 18th June, 2024 and 67th meeting of the Expert Appraisal Committee - (Industry-1 sector), scheduled on 15th October, 2024

xiii.	Hot air dryer shall not be installed. Flue gases of preheater shall be used to dry the slag/bottom ash.	**Compliance on progress.** 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 57th meeting of the Expert Appraisal Committee - (Industry-1 sector), scheduled on 25 April, 2024, 61st meeting of the Expert Appraisal Committee - (Industry-1 sector), scheduled on 18th June, 2024 and 67th meeting of the Expert Appraisal Committee - (Industry-1 sector), scheduled on 15th October, 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.	**Complied** 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.	**Complied.** 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. Pictures of CEMS analysers are given below. CAAQMS have also been installed at 04 Nos. of locations of plant and online data connectivity is done at CPCB & MPPCB portal. Pictures of CAAQMS analysers are given below. We are calibration these analysers time to time through external agency. Calibration copies are enclosed as **Annexure no-2.**

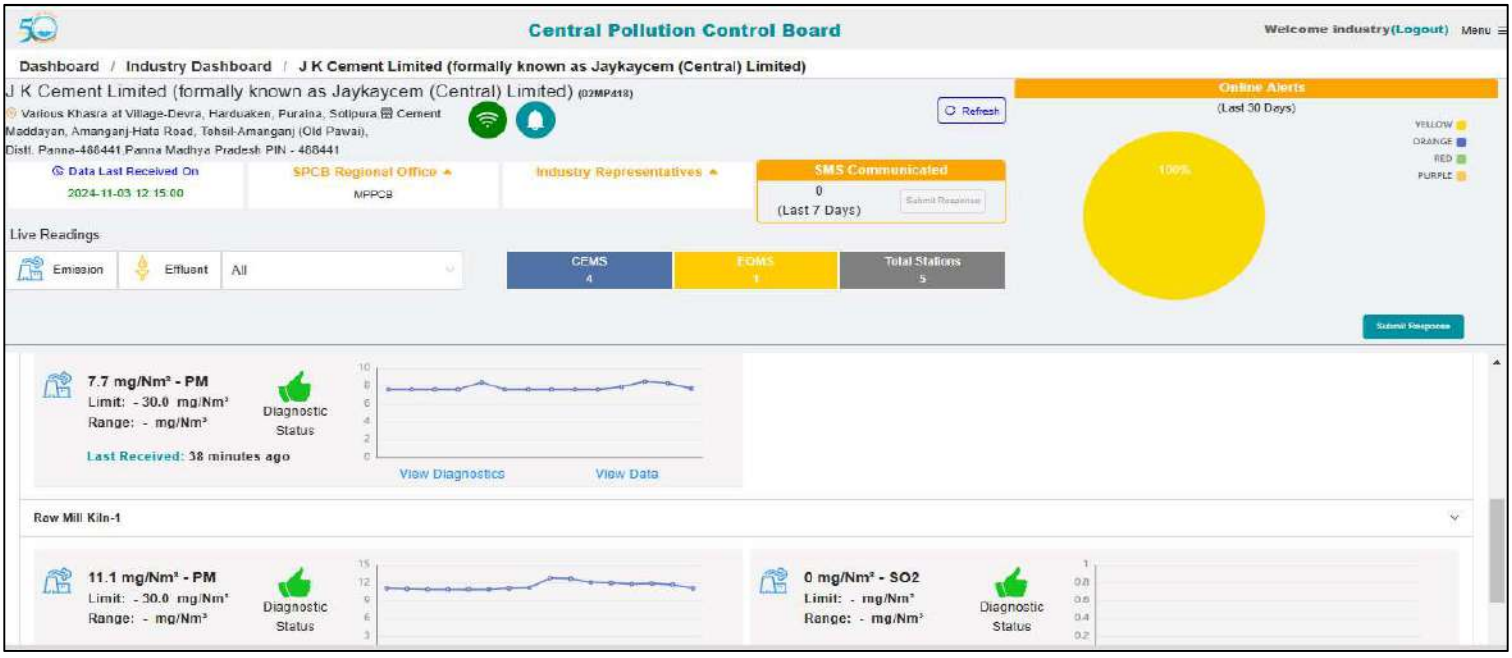
1- CEMS:

Cooler _ Mill Stack Analyser

Raw _ Mill Stack Analyser



Online data uploading in MPPCB server



Online data uploading in CPCB server

2-CAAQMS

CAAQMs near Reservoir

CAAQMs near Zero Point

CAAQMs behind Store

CAAQMs near Guest house

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.	**Complied.** Fugitive emission is being monitored by approved lab in every quarter in the plant premises. Latest quarterly monitoring reports of fugitive emission are enclosed as **Annexure-3.**

Sources/Locations	Parameter	Results (in µg/m3)	
		May-24	Sep-24
Near packing Plant area	SPM	312.1	389.0
Near Gypsum yard		288.5	352.0
Near Raw Mill		290.2	345.0
Near Coal Mill		263.9	415.0
Near Cement Mill		274.1	312.0
Near Clinker Silo		296.5	389.0
Near Coal Shed		270.8	548.0
Near Lime Stone Shed		301.5	326.0

iii.	The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.	**Complied.** It has been provided with APCDs in **Cement Bag cleaning system** Pictures are mentioned below.

Cement Bag cleaning system

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.	**Complied.** Raw materials are transporting through covered vehicles and fly ash in closed bulker. Some pictures are mentioned below.

Closed bulker for transport of flyash

Covered Truck

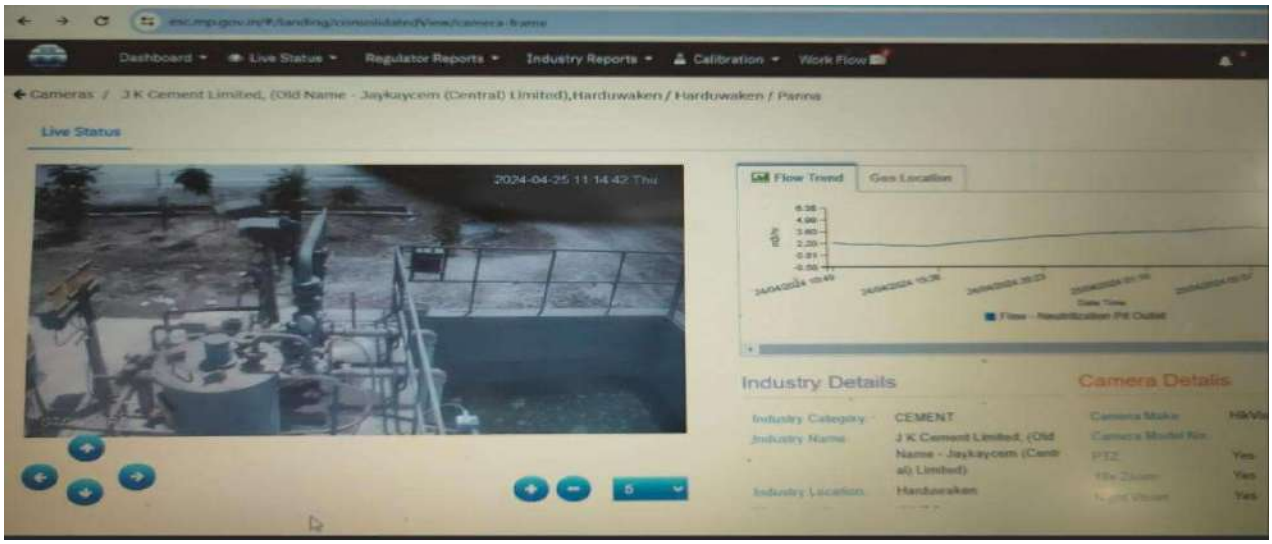
Covered belt conveyors

v.	The project proponent shall provide wind shelter fence and chemical spraying on the raw material stock piles;	**Complied.** We would like to share that covered sheds have been provided for all the raw materials.

vi.	Ventilation system shall be designed for adequate air changes as per the prevailing norms for all tunnels, motor houses, cement bagging plants.	**Complied.** Ventilation system with sufficient no. of bag filters for all tunnels, motor houses, cement bagging plant have been provided.
III. Water quality monitoring and preservation		
i.	The project proponent shall install 24x7 continuous effluent monitoring system with respect to standard prescribed in Environment (Protection) Rules 1986 vide G.S.R. No. 612 (E) dated 25th August 2014 (Cement) and subsequent amendment dated 9th May, 2016 (Cement) and 10th May, 2016 (in case of Co-processing Cement) as amended from time to time; S.O. 3305 (E) dated 7th December 2015 (Thermal Power Plants) as amended from time to time) and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.	**Complied.** 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. Flow meter and camera are installed at outlet of neutralization pit (Picture are mentioned below.

WHRS Flow meter and Camera have been installed:

Connected to SPCB and CPCB online servers



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.	**Complied**. 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 **Annexure- 4** .
iii.	Sewage Treatment Plant shall be provided for treatment of domestic waste water to meet the prescribed standards.	**Complied** Total 07 Nos. of STPs have been installed. ➢ 5 KLD Capacity- 03Nos ➢ 10 KLD Capacity- 01 Nos ➢ 25 KLD Capacity-02 Nos. ➢ 300 KLD Capacity- 01 no. Sewage Treatment plant test report enclosed as **Annexure-5**. Some pictures are given below:

STP With Capacity 300KLD

STP Admin Building 5 KLD

STP With Capacity 25 KLD

STP Admin Building 10 KLD

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

Storm Water Drain

Reservoir (40000m3)

v.	Water meters shall be provided at the inlet to all unit processes in the cement plant	**Complied.** Water meters have been installed at the inlet to all unit processes. Some pictures are given below.

WHRS meter/DM inlet

Fireline Meter

Cooler spray meter

Packing plant meter

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.	**Complied** • Dual Flush Toilets have been installed. • Aerator Faucets are provided in taps. • Sewage treatment plant is installed and treated water of sewage is being used in plant activities. • WHRS treated waste water is being used in mill.

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)
Apr-24	871	29.0	1161	38.7
May-24	1375	44.3	719	23.2
Jun-24	1214	40.5	944	31.5
Jul-24	1212	39.1	1133	36.5
Aug-24	833	26.9	1876	60.5
Sep-24	884	29.5	862	28.7

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.	**Complied.** Noise quality is being monitored and report is mentioned below.

Locations	Month	Limit dB (A)	Results (in dB (A))					
			Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24
Near Guest House Area	**Day time**	**75**	60.6	58.4	52.4	50.3	53.2	54.8
	Night time	**70**	51.2	50.2	49.4	49.1	49.9	48.5
Near Security Barrack	**Day time**	**75**	64.4	63.1	60.5	57.8	59.1	55.9
	Night time	**70**	57.6	49.3	51.5	49.5	50.2	50.9
Near Zero Point Area	**Day time**	**75**	66.3	64.2	65.3	65.8	67.1	70.8
	Night time	**70**	58.6	57.3	51.4	51.9	52.7	55.9
Near Reservoir	**Day time**	**75**	64.8	63.3	58.2	55.2	51.6	52.9
	Night time	**70**	49.8	43.2	44.2	44.0	45.6	46.3
Near Main Gate	**Day time**	**75**	71.1	68.3	69.5	69.9	71.2	72.4
	Night time	**70**	65.3	60.3	61.6	61.9	62.4	65.1
Near CCR building	**Day time**	**75**	65.8	62.4	69.2	69.5	70.5	71.9
	Night time	**70**	53.7	51.2	55.6	57.1	63.8	67.5
Harduaken Village	**Day time**	**55**	53.4	51.3	51.9	51.3	51.0	52.8
	Night time	**45**	42.9	39.7	39.9	40.2	40.5	40.9
Sotipura Village	**Day time**	**55**	52.2	50.1	51.9	50.3	51.8	52.3
	Night time	**45**	42.4	38.8	41.8	41.2	40.1	40.3
Devra Village	**Day time**	**55**	53.2	49.3	50.3	50.6	51.2	53.5
	Night time	**45**	43.5	41.2	40.3	40.1	39.4	41.2
Kakra Village	**Day time**	**55**	51.9	48.3	51.7	51.1	51.9	53.2
	Night time	**45**	40.4	39.4	38.2	39.3	39.9	41.3
Pagra Village	**Day time**	**55**	50.7	47.7	50.7	50.2	51.2	52.9
	Night time	**45**	43.6	40.3	40.5	40.1	40.9	41.2

V. Energy Conservation measures		
i.	Waste heat recovery system shall be provided for kiln and cooler.	**Complied.** A Waste heat recovery system (WHRS) of 25 MW has been installed.
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.	**Complied** Our average power consumption (Apr-2024 to September-2024) for manufacture of OPC & PPC and thermal energy are following: • OPC= 76.08Kwh/ MT • PPC= 53.07Kwh/MT • Thermal energy consumption- 721.60 Kcal/kg Clinker We have done following efforts to reduce the thermal energy consumption: 1- False air reduction done From Currently 8 % to 6.3 %. 2- TAD NOx reduction damper is opened from 50 % to 80 % to Optimized Recuperation efficiency. 3- Shift Wise Comparison of Heat to optimize SHC per shift (Optimizer Data Provided per shift). 4- TAD male female joints near PC Covered completely result in temperature drop across TAD duct is 25 degree. 5- Online Heat Balance with Actual CV based SHC is provided in CCR to monitor the current Specific Heat. 6- Optimized Fine coal temperature from 60 to 65 degree by reducing False air across Coal Mill Circuit. 7- Optimized Raw meal Temperature from 75 to 80 degree by reducing False air across Raw Mill Circuit. 8- Linear pile maintained by stacking of Coal to Reduce variation of its CV. 9- Flap gate of Cyclone From 1 no to 4th cyclone from Top is made free. 10- Cooler Fan Specific air input is maintained at 1.85 Nm3/kg of Clinker @ 10000 TPD as per HMBD by TKII. We have installed state of the art technology to conserve energy and meet GOI's targets for GHG emissions.
iii.	Provide solar power generation on roof tops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly.	**Complied**. Solar power generation on admin building roof top has been installed and solar lights have also been provided in streets (Some picture are mentioned below.

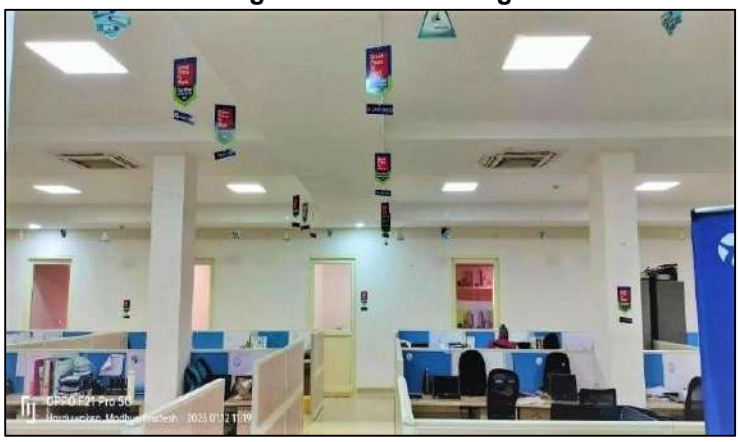
Solar power generation on admin building of roof top:

Solar lights have provided in streets

iv.	Provide the project proponent for LED lights in their offices and residential areas.	**Complied.** LED lights have been provided in offices and residential areas (Some picture are mentioned below.)

LED Lights in Admin building

LED Lights in Project building

LED Lights in CCR building	LED Lights in Guest house
	

VI. Waste management		
i.	Used refractories shall be recycled as far as possible.	**Complied.** In FY 2024-25 (Apr-24 to Sept-2024), we have collected and sold qty. 48.43 MT used refractories to M/s Refcast And Ceramics Industries, Nagpur.
VII. Green Belt		
i.	The project proponent shall prepare GHG emissions inventory for the plant and shall submit the program for reduction of the same including carbon sequestration including plantation.	**Complied.** First baseline data of GHG emission for FY 2023-24 is following: 1- Scope 1 Emission- 1974792 tCO2e 2- Scope 2 Emission- 82995 tCO2e 3- Scope 1&2 Emission- 2057787 tCO2e **Program for further reduction of GHG emission is following:** We will work on below mentioned work to further reduce of GHG emission: 1- Increase use of green power. 2- Increase renewable power generation. 3- Increase the capacity of waste heat recovery system (WHRS). As of now 25 MW WHRS has been installed. 4- Improve thermal and electrical energy efficiency. 5- Encourage rail transportation in near future. 6- Increase electric and CNG vehicle. 7- Increase replacement of virgin raw materials and fuels with alternative raw material and other substitute. 8- Reduce clinker ratio. 9- Increase production of blended cement.
VIII. Public hearing and human health issues		

i.	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	**Complied** Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan is prepared and implemented. Onsite emergency plan was approved by DISH vide OSEP NO: RE30052412223371 dated 01.07.2024. Approval of onsite emergency plan is mentioned below.

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

OSEP NO : RE30052412223371 Category : Under Section 2CCB

To,
The Occupier,
JK Cement works Panna (Unit Of JK Cement Limited) (FAC2223371),
JK Cement works Panna (Unit Of JK Cement Limited) Harduwaken, Amanganj, Panna,
Pincode : ,
Dist.:Panna (M.P.)

Sub:-On-Site Emergency Plan.
Ref:- Your documents duly verified by the occupier & on the subject Dated 01/07/2024

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 ***08/07/2024*** to ***07/07/2026*** :-

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

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

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

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

ENCLOSED:-Copy of on site emergency plan

Indore
Dated : 08/07/2024

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

Validity unknown
Digitally Signed by [illegible] (DIRECTORATE OF INDUSTRIAL HEALTH AND SAFETY)
Date : 10-Jul-2024 [illegible] IST

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

On-site Emergency Site Plan Copy

ii.	The Project Proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms of Factory Act.	**Complied.** Based on the procedure mentioned in "Industrial and Occupational Health" by S.K. Haldar, our doctors' team have conducted heat stress analysis for the workmen who work in high temperature work zone in the plant. An analysis report is prepared and enclosed as **Annexure-6**. However, we are also providing Personal Protection Equipment (PPE) as per the norms of Factory Act.
iii.	Occupational health surveillance of the workers shall be done on a regular basis and records maintained.	**Complied.** Occupational health surveillance of the employees & workers are being carrying out on a regular basis. In FY 2024-25 during (Apr-24 to Sep-24) total 416 nos PME is carried out for employees & and Contact workers. Report of some of them is given below

JKCement

Occupational Health Center
JK Cement Works, Amanganj
Employee Health Card

Print Date : 05-Nov-2024 12:28 PM
Page No. : 1 of 3

Employee Details :	
Report No : Aman/PMC/2024/00289	Employee Name : ADITYA KUMAR VISHWAKARMA (MAN00086)
Category : Agency Employees	Agency / Plant/Site : Manish Awasthi-Panna
Department : PROCESS	Dispensary : Amanganj
Designation : Attender	Contact # : 8223867204
Blood Group :	Age : 23

PeriodicCheckup Details :

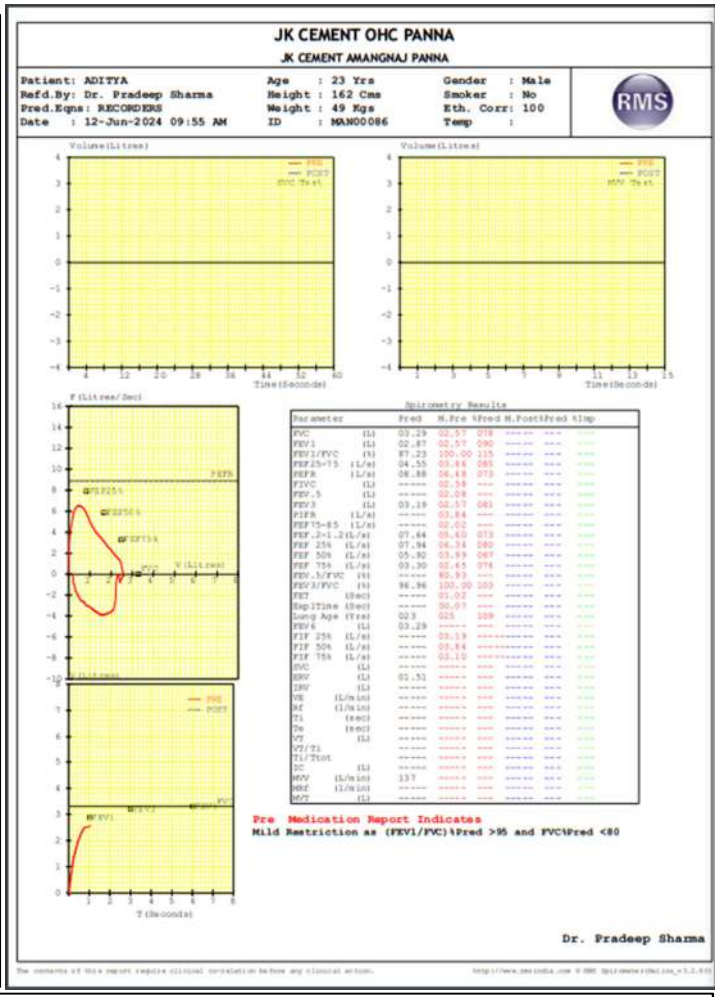
Medical CheckUp Date : 12-Jun-2024 **Fitness Status : Fit**

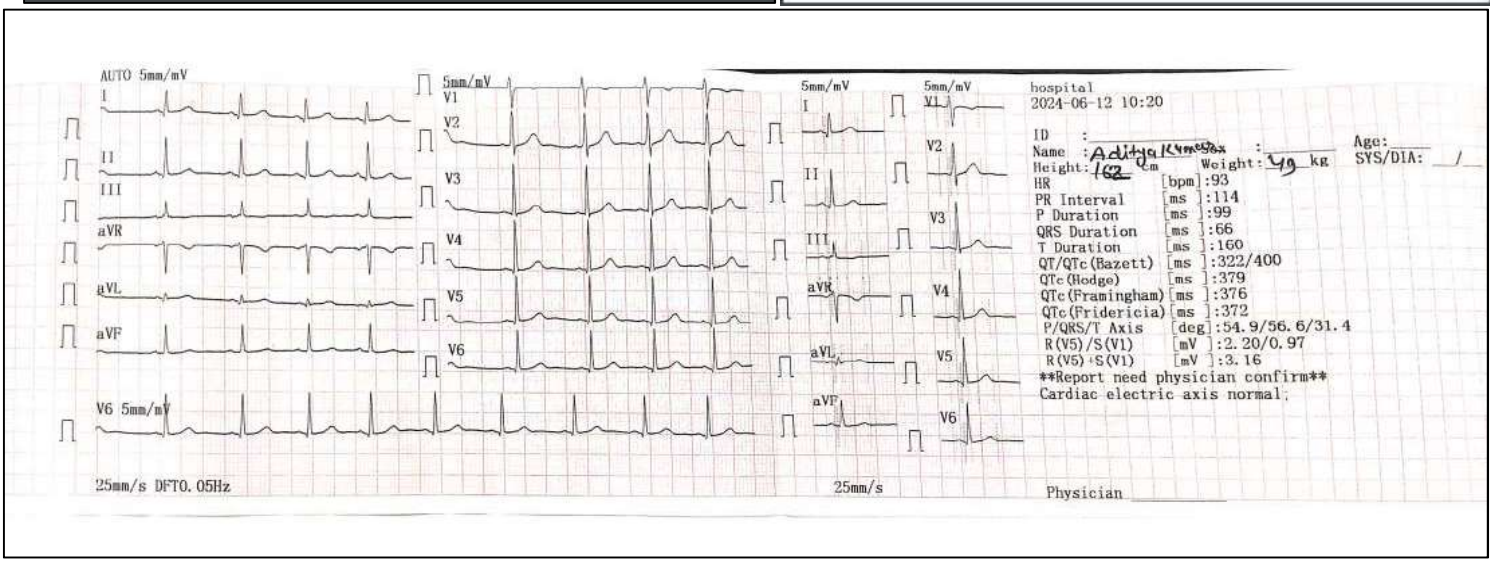
Validity Date : 13-Jun-2025

Check Up For	Results	Unit	Reference Interval
Physical Examination			
X-Ray (Chest)	-		
HEIGHT	162	CM	
WEIGHT	49	KG	
B.M.I	18.67	Kg/m2	18 - 25 Kg/m2
Pulse	78	B/M	
BLOOD PRESSURE	124/76	mmHg	
SPO2	98	%	
Respiration Rate	20	B/M	18 - 22 B/M
Temperature	97.5	°F	
THORAT DISEASE/MUMES	Normal		
SKIN DISEASE	Normal		
Heart Sound	S1S2+		
ECG	Normal		
LUNGS DISEASE(SELF OR FAMILY HISTORY)	Normal		
SPIROMETERY	-		
AUDIOMETERY	Normal		
EYE-VISION	NORMAL		
COLOUR VISION-LEFT	N/6		
COLOUR VISION-RIGHT	N/6		
Bio Chemistry			

(C.M.O/M.O)

This Report Not Valid For Medico - Legal Purpose





Employee Health Certificate

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.

S.No.	Activities	Expenditure till Oct.-2023 **(in Lakhs)**	Expenditure from November 23 to September-24 **(in Lakhs)**	Total Expenditure **((in Lakhs)**
1	Health (Health, Check-up, Camp, Sports etc.)	211.73	56.93	268.66
2	Education (Books, Bags, Stationary etc.)	54.80	262.93	317.73
3	Sanitation (Domestic water, Toilets etc.)	40.99	7.09	48.08
4	Skill Development (Training centre etc.)	8.21	6.35	14.56
5	Infrastructure (Road, Community Centers, etc.)	132.0	395.43	527.43
6	Other Local Social Need	45.32	36.51	81.83
7	Greenery Development Nearby Area	251.66	145.35	397.01
Total		**744.71**	**910.59**	**1655.30**

Corporate Environment Responsibility (CER) Expenditure Report of Cement Plant

Conducted road sfety program and helmet distribution

Environment Awareness session at near School

Bridge construction at Kakra village.

Support 25 orphaned children with financial help

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) : +91-512-2399854
Telefax : +91-512-2332665
E-mail : prabhat.srivastava@jkcement.com

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

JAYKAYCEM (CENTRAL) LIMITED

CORPORATE ENVIRONMENT POLICY

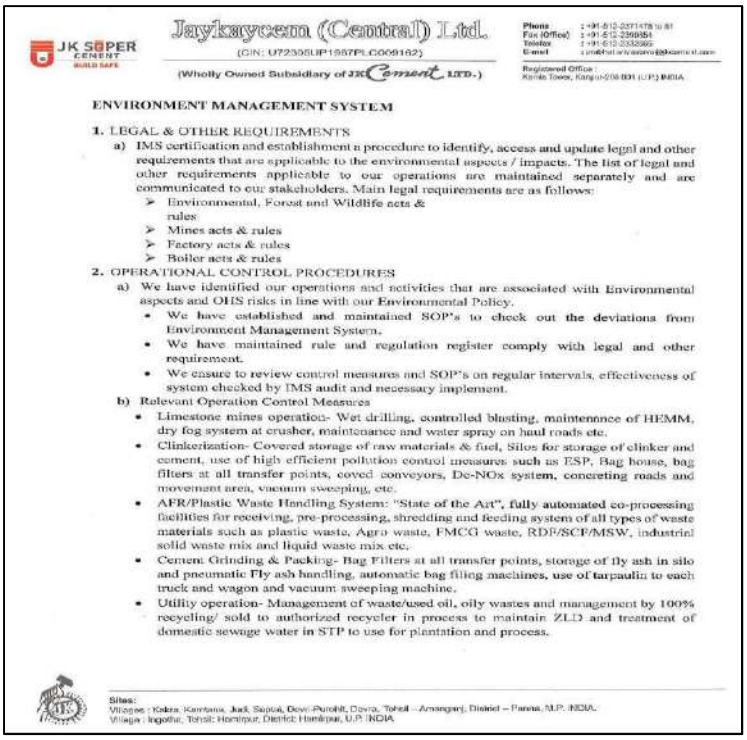
"Jaykaycem (Central) Limited" is an energy and environmental conscious organization. Our environment policy is representation of Company's vision towards sustainable Development and green business ambitions to make net positive contributions to People, Planet and Stakeholders and compliance of all applicable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

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

For Jaykaycem (Central) Ltd.

Date: 25th May 2021

Ajay Kumar Saraogi
Managing Director

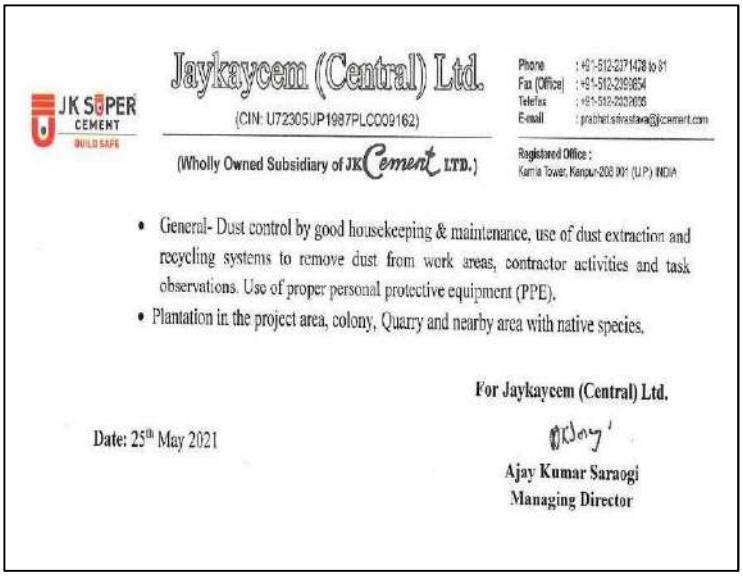


Jaykaycem (Central) Ltd.
(CIN: U72305UP1987PLC009162)
(Wholly Owned Subsidiary of JK Cement LTD.)

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, maintennnce of HEMM, dry fog system at crusher, maintenance and water spray on haul roads etc.
      - Clinkerization- Covered storage of raw materials & fuel, Silos for storage of clinker and cement, use of high efficient pollution control measures such as ESP, Bag house, bag filters at all transfer points, coved conveyors, De-NOx system, concreting roads and movement area, vacuum sweeping, etc.
      - AFR/Plastic Waste Handling System: "State of the Art", fully automated co-processing facilities for receiving, pre-processing, shredding and feeding system of all types of waste materials such as plastic waste, Agro waste, FMCG waste, RDF/SCF/MSW, industrial solid waste mix and liquid waste mix etc.
      - Cement Grinding & Packing- Bag Filters at all transfer points, storage of fly ash in silo and pneumatic Fly ash handling, automatic bag 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, Kantone, Jadi, Sapai, Devi Purohit, Devra, Tehsil – Amanganj, District – Panna, M.P. INDIA.
Village : Ingotha, Tehsil: Hamirpur, District: Hamirpur, U.P. INDIA



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

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

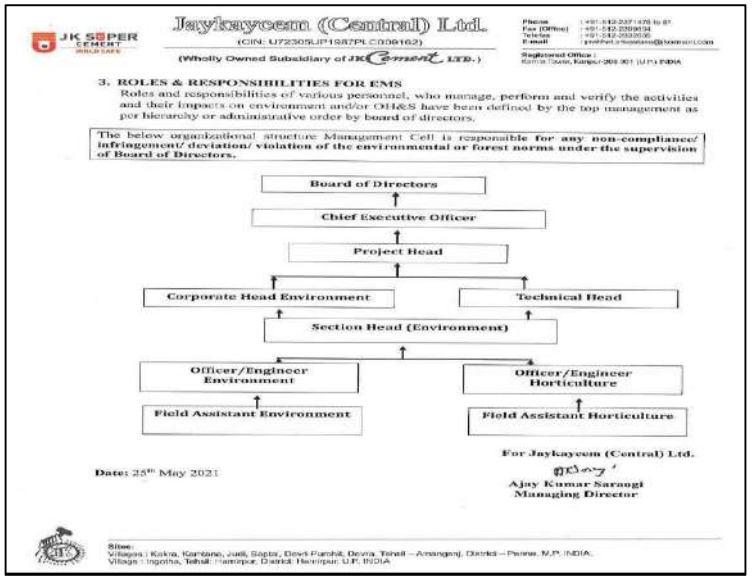
Registered Office : Kamla Tower, Kanpur-208 001 (U.P.) INDIA

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

For Jaykaycem (Central) Ltd.

Date: 25th May 2021

Ajay Kumar Saraogi
Managing Director



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

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.

- Board of Directors
  - Chief Executive Officer
    - Project Head
      - Corporate Head Environment
        - Section Head (Environment)
          - Officer/Engineer Environment
            - Field Assistant Environment
          - Officer/Engineer Horticulture
            - Field Assistant Horticulture
      - Technical Head

For Jaykaycem (Central) Ltd.

Date: 25th May 2021

Ajay Kumar Saraogi
Managing Director

Sites:
Villages : Kakra, Kantone, Jadi, Sapai, Devi 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.	**Complied.** A Separate Environmental Cell both at the project and company head quarter level, with qualified personnel has been set up under the control of senior Executive, who is directly reporting to the head of the organization.
X. Miscellaneous		
i.	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which on shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.	**Complied.** Published in two local newspapers namely Nav Swadesh and Nav Bharat on dated 08.03.2022 and also displayed at company's website. (Advertisement copy are mentioned below.)

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 वेबसाईट www.parivesh.nic.in पर भी उपलब्ध है।

परियोजना प्राधिकारी
जेके सेम सेन्ट्रल लिमिटेड

राज एक्सप्रेस

पन्ना एक्सप्रेस

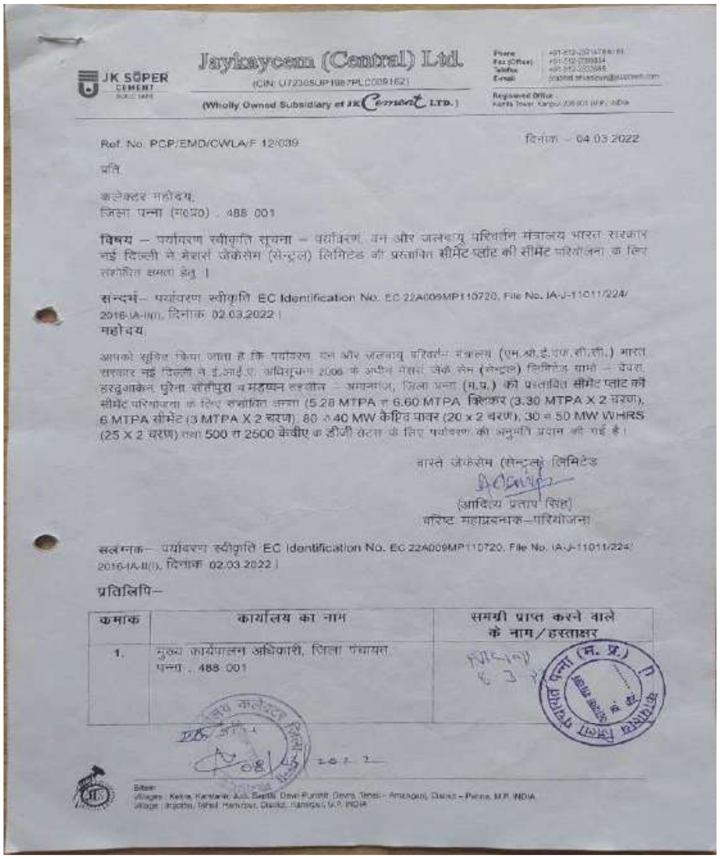
सतना गुरुवार, 15 अक्टूबर 2020 12

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 वेबसाईट www.parivesh.nic.in पर उपलब्ध है।

परियोजना प्राधिकारी
जेके सेम सेन्ट्रल लिमिटेड

ii.	The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.	**Complied.** Copy of the EC has been submitted to concerned vide letter No. PCP/EMD/CWLA/F12/039 dated 04.03.2022 (Acknowledgement copy are mentioned below.)



Jaykaycem (Central) Ltd.
(CIN: U72306UP1987PLC009162)
(Wholly Owned Subsidiary of JK Cement LTD.)

Ref. No. PCP/EMD/CWLA/F 12/039

दिनांक – 04.03.2022

प्रति

कलेक्टर महोदय,
जिला पन्ना (म0प्र0) . 488 001

विषय – पर्यावरण स्वीकृति सूचना – पर्यावरण, वन और जलवायु परिवर्तन मंत्रालय भारत सरकार नई दिल्ली से 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 से ई.आई.ए. अधिसूचना 2006 के अधीन मेसर्स जेके सेम (सेन्ट्रल) लिमिटेड ग्रामों – देवरा, हरदुआकेन, पुरैना, सौतीपुरा व महद्यन तहसील – 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 कैप्टिव पावर (20 x 2 चरण), 30 से 50 MW WHRS (25 X 2 चरण) तथा 500 से 2500 केवीए के डीजी सेटों के लिए पर्यावरण की अनुमति प्रदान की गई है।

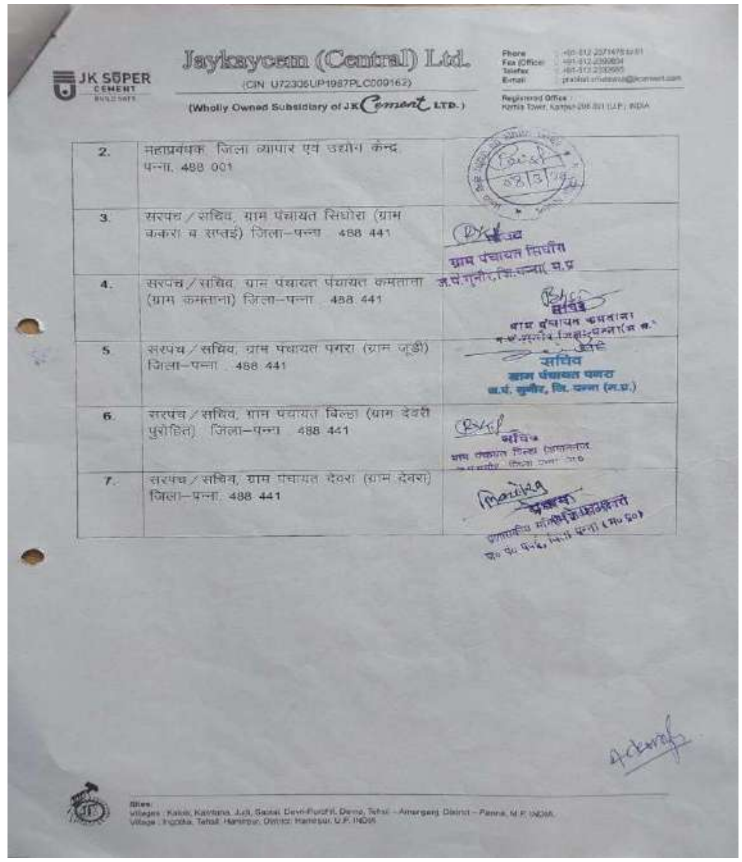
वास्ते जेकेसेम (सेन्ट्रल) लिमिटेड

(आदित्य प्रताप सिंह)
वरिष्ठ महाप्रबन्धक–परियोजना

सलग्नक– 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	



Jaykaycem (Central) Ltd.
(CIN: U72306UP1987PLC009162)
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2.	महाप्रबंधक, जिला व्यापार एवं उद्योग केन्द्र पन्ना, 488 001	
3.	सरपंच/सचिव, ग्राम पंचायत सिघोरा (ग्राम ककरा व सप्तई) जिला–पन्ना . 488 441	ग्राम पंचायत सिघौरा
4.	सरपंच/सचिव, ग्राम पंचायत पंचायत कमताना (ग्राम कमताना) जिला–पन्ना . 488 441	सरपंच ग्राम पंचायत कमताना
5.	सरपंच/सचिव, ग्राम पंचायत पगरा (ग्राम जूडी) जिला–पन्ना . 488 441	सचिव ग्राम पंचायत पगरा ज.पं. गुनौर, जि. पन्ना (म.प्र.)
6.	सरपंच/सचिव, ग्राम पंचायत बिल्हा (ग्राम देवरी पुरोहित) जिला–पन्ना . 488 441	सचिव
7.	सरपंच/सचिव, ग्राम पंचायत देवरा (ग्राम देवरा) जिला–पन्ना . 488 441	

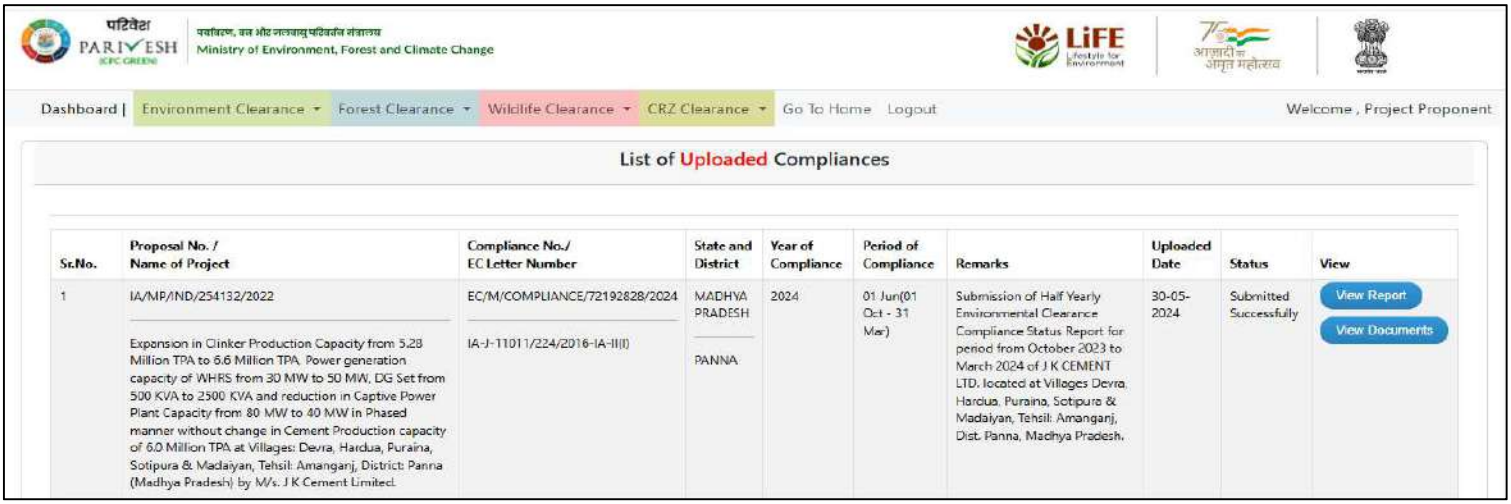
Acknowledgement copy

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

<u>Uploaded EC report in company's website</u>

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.	**Complied.** 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.	**Complied.** 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.)



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.	**Complied.** Environmental statement report for F.Y. 2023-24 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.)

JKcement

JK Cement Works, Panna
(Formerly known as Jaykaycem (Central) Ltd. now amalgamated)
A Unit of JK Cement Ltd.
CIN: L17229UP1994PLC017199
Village - Harduaken, Tehsil - Amanganj
District - Panna, State - Madhya Pradesh, India - 488 441
93291141591 jkc.panna@jkcement.com
www.jkcement.com

Ref: JK/CTO-(PLANT)/2024-25/19/07 **Date- 13.09.2024**

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

Subject: **Environment Statement Report (Form-V) for FY. 2023-24 of M/s J K Cement Limited, Plot No. Various Khasra at Village - Devra, Harduaken, Puraina, Sotipura, Maddayan, Amanganj-Hatta Road, Tehsil: Amanganj, Distt: Panna (M.P.) – 488441.**

Reference No.:

1. Environment Clearance vide letter no. IA-J-11011/224/2016-IA-II(I) dated 02.03.2022.
2. Consent No: AWH-56455, Valid up to - (Air/Water) – 30.06.2025, (Hazardous) - 30.06.2027.

Dear sir,

With reference to aforesaid subject, please find herewith enclosed Environment Statement Report (Form-V) for **FY.2023-24** of M/s J K Cement Limited, Plot No. Various Khasra at Village - Devra, Harduaken, Puraina, Sotipura, Maddayan, Amanganj-Hatta Road, Tehsil: Amanganj, Distt: Panna (M.P.) – 488441.

This is for your kind information and record, please.

Thanking you.
Yours faithfully,
For J K Cement Limited, Panna

Kapil Agrawal
(Unit Head)
Encl: As above

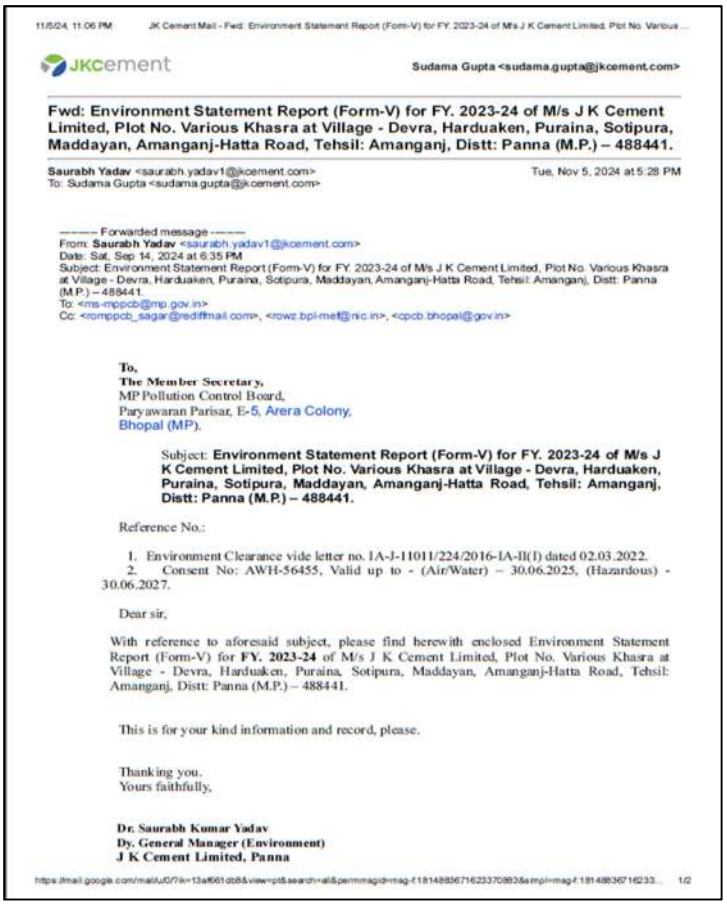
CC: 1- The Regional Office (WZ), MoEF&CC, Kendriya Paryavaran Bhawan, Bhopal – 462 016
2- Regional Officer, Regional Office, MP Pollution Control Board, Makronia, Sagar (MP)

Corporate Office
Prism Tower, Ground Floor, Nirvanlya Estate, Gwal Pahari, Gurugram, Haryana - 122102, India
+0124-6919000
admin.prism@jkcement.com
www.jkcement.com
CIN: L17229UP1994PLC017199

JK SUPER CEMENT BUILD SAFE
WallMax X

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

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



11/5/24, 11:06 PM JK Cement Mail - Fwd: Environment Statement Report (Form-V) for FY. 2023-24 of M/s J K Cement Limited, Plot No. Various ...

JKcement

Sudama Gupta <sudama.gupta@jkcement.com>

Fwd: Environment Statement Report (Form-V) for FY. 2023-24 of M/s J K Cement Limited, Plot No. Various Khasra at Village - Devra, Harduaken, Puraina, Sotipura, Maddayan, Amanganj-Hatta Road, Tehsil: Amanganj, Distt: Panna (M.P.) – 488441.

Saurabh Yadav <saurabh.yadav1@jkcement.com> Tue, Nov 5, 2024 at 5:28 PM
To: Sudama Gupta <sudama.gupta@jkcement.com>

---------- Forwarded message ---------
From: **Saurabh Yadav** <saurabh.yadav1@jkcement.com>
Date: Sat, Sep 14, 2024 at 6:35 PM
Subject: Environment Statement Report (Form-V) for FY. 2023-24 of M/s J K Cement Limited, Plot No. Various Khasra at Village - Devra, Harduaken, Puraina, Sotipura, Maddayan, Amanganj-Hatta Road, Tehsil: Amanganj, Distt: Panna (M.P.) – 488441.
To: <ms-mppcb@mp.gov.in>
Cc: <romppcb_sagar@rediffmail.com>, <rowz.bpl-mef@nic.in>, <cpcb.bhopal@gov.in>

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

Subject: **Environment Statement Report (Form-V) for FY. 2023-24 of M/s J K Cement Limited, Plot No. Various Khasra at Village - Devra, Harduaken, Puraina, Sotipura, Maddayan, Amanganj-Hatta Road, Tehsil: Amanganj, Distt: Panna (M.P.) – 488441.**

Reference No.:

1. Environment Clearance vide letter no. IA-J-11011/224/2016-IA-II(I) dated 02.03.2022.
2. Consent No: AWH-56455, Valid up to - (Air/Water) – 30.06.2025, (Hazardous) - 30.06.2027.

Dear sir,

With reference to aforesaid subject, please find herewith enclosed Environment Statement Report (Form-V) for **FY. 2023-24** of M/s J K Cement Limited, Plot No. Various Khasra at Village - Devra, Harduaken, Puraina, Sotipura, Maddayan, Amanganj-Hatta Road, Tehsil: Amanganj, Distt: Panna (M.P.) – 488441.

This is for your kind information and record, please.

Thanking you.
Yours faithfully,

Dr. Saurabh Kumar Yadav
Dy. General Manager (Environment)
J K Cement Limited, Panna

https://mail.google.com/mail/u/0?ik=13af661db8&view=pt&search=all&permmsgid=msg-f:1814883671623370883&simpl=msg-f:1814883671623... 1/2

Last Environment Statement report submission in MPPCB

jkcement.com/environmental-compliance/

JKC AWA | JKC DNA | JK Uphaar | JKC Shoorveer | JKC Samridhi | JKC Kudler | JKC Tech Xpert | Find a Retailer | Institutional Buyer | Apply for dealership | Office locator

JKcement About Products Services Blog Search

Environmental Compliance Reports

Home » Environmental Compliance

Communication of SEIL Commitment

JK Cement Works, Panna

Integrated Cement Plant

	Compliance report of Environment Clearance	Environment Clearance	Environmental Monitoring Report	Environment Statement Report	Bio Medical Waste
Oct 2023 - March 2024					
Jan'23- Dec'23					
August'24					
FY 23-24					

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 concerned authorities, commencing the land development work and start of production operation by the project.	**Complied.** Intimation regarding the date of financial closure, final approval of concerned authority, commencing the land development work and start of production have been submitted to the Ministry via. letter no. JAYKAYCEM/ENV. /Corres./2022-23/03 dated 12.11.2022 & JKCEMENT/ENV./CORRES./2024-25/07/10 dated 13.06.2024.

JK Cement Ltd.
CIN: L17229UP1994PLC017199
Registered Office
Kamla Tower, Kanpur - 208001, U.P., India
+91-512-2371478 to 85 +91-512-2399854
www.jkcement.com

Ref. No. JKCEMENT/ENV./CORRES./2024-25/07/10 **Dated: 13.06.2024**

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

Subject: Information regarding date of final approval of the project (Unit-2) by the concerned authorities and commencing the land development work by M/s J K Cement Ltd located at Villages Devra, Hardua, Puraina, Sotipura & Madaiyan, Tehsil: Amanganj (Old Pawai), Dist. Panna, Madhya Pradesh.

Reference No.: Environment Clearance no IA-J-11011/224/2016-IA. II (I) dated 02.03.2022 (Condition no. X. Miscellaneous- vii).

Dear sir,

With reference to aforesaid subject, we would like to inform you that the date of final approval of the project (Unit-2) by the concerned authorities (i.e. Project approval in board of directors meeting) and commencing the land development work by the project are 20.01.2024 and 24.04.2024 respectively.

This is for your kind information and record, please.

Thanking you.
Yours faithfully,

For J K Cement Limited, Panna

Kapil Agrawal
(Unit Head)

Encl: As above

CC: The Director, Ministry of Env., Forest and Climate Change, Indira Paryavaran Bhawan Jorbagh Road, New Delhi – 110 003.

Corporate Office
Padam Tower, 19 DDA Community Centre
Okhla, Phase - 1, New Delhi - 110020, India
+011-49220000
admin.padamtower@jkcement.com
www.jkcement.com

JK SUPER CEMENT BUILD SAFE
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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	**Complied with 1st year CER Budget target and Compliance in Progress with 2nd year CER budget expenditure.** We would like to appraise you that our year wise expenditure under CER is following: 1st year- November 22 to October 23- Rs. 744.71 Lakhs 2nd year -(November 23 to till September-2024)- Rs. 910.59 Lakh (2nd year will be completed in Oct. 24) Our total expenditure done from November 2022 to September 2024 is Rs. 1655.30 Lakhs.
ix	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).	Agreed
x	Concealing factual data or submission of false / fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.	Agreed
xi	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Agreed
xii	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	Agreed
xiii	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.	Agreed
xiv	Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	Noted

Environment Clearance vide no. IA-J-11011/224/2016-IA.II(I) dated 14.10.2020		
Specific Condition		
S. No.	**EC Conditions**	**EC Compliance Status**
i.	Project proponent shall comply with the outcome of the court case pending before the Lok Adalat, Panna. **(Specific Condition –i)**	**Complied.** The Court case has been disposed off by the Lok Adalat, Panna. Dispose off copy enclosed as **Annexure-7.**

<table>
<tr><td>ii.</td><td>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.</td><td>Complied.
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 Annexure-8.</td></tr>
<tr><td>iii.</td><td>Plant shall operate on ZLD. (Specific Condition –ix)</td><td>Complied.
Plant is being operated on ZLD. The Waste water generated from the Waste Heat Recovery System (WHRS) is used in the mill spray.</td></tr>
<tr><td>iv.</td><td>Energy Conservation measures (ii)
Maximize utilization of alternate fuels and Coprocessing to achieve best practice norms</td><td>Complied
We have consumed following wastes since Apr-2024 to Sept-2024.
<u>Non- Hazardous waste</u>
<table>
<tr><th>S.No</th><th>Waste Name</th><th>Consumed (Qty.) MT</th></tr>
<tr><td>1</td><td>RICE HUSK</td><td>18.89</td></tr>
<tr><td>2</td><td>PLASTIC WASTE</td><td>38.75</td></tr>
<tr><td>3</td><td>RDF</td><td>21273.81</td></tr>
<tr><td>4</td><td>DOLACHAR</td><td>95.84</td></tr>
<tr><td colspan="2">Total</td><td>21427.29 (MT)</td></tr>
</table>
<u>Hazardous waste</u>
<table>
<tr><th>S.No</th><th>Waste Name</th><th>HW category.</th><th>Consumed (Qty.) MT</th></tr>
<tr><td>1</td><td>Iron Sludge</td><td>26.1</td><td>861.57</td></tr>
<tr><td colspan="3">Total</td><td>861.57 MT</td></tr>
</table></td></tr>
<tr><td>v.</td><td>Waste management-(i)
Kitchen waste shall be composted or converted t biogas for further use.</td><td>Complied
We have installed waste composter of capacity 150 Kg/Day and compost is used in horticulture. Picture are mentioned below.</td></tr>
</table>

Waste composter

Yours Sincerely

For: JK Cement Limited. Panna,

Kapil Agrawal
(Authorized signatory & Unit Head)

Annexure-1

JKCement

Sudama Gupta <sudama.gupta@jkcement.com>

Submission of performance monitoring reports of pollution control equipment's for J K Cement Ltd. located at Villages Devra, Hardua, Puraina, Sotipura & Madaiyan, Tehsil: Amanganj(Old Pawai), Dist. Panna, Madhya Pradesh.

Saurabh Yadav <saurabh.yadav1@jkcement.com> Fri, Aug 2, 2024 at 5:15 PM
To: rowz.bpl-mef@nic.in
Cc: dirind-moefcc@gov.in, Kapil Agrawal <kapil.agrawal@jkcement.com>, Sudama Gupta <sudama.gupta@jkcement.com>

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

Subject: Submission of performance monitoring reports of pollution control equipments for J K Cement Ltd. located at Villages Devra, Hardua, Puraina, Sotipura & Madaiyan, Tehsil: Amanganj (Old Pawai), Dist. Panna, Madhya Pradesh.

Reference No.: Environment Clearance no IA-J-11011/224/2016-IA. II (I) dated 02.03.2022 (Condition no. A. Specific Conditions - X).

Dear sir,
With reference to aforesaid subject, please find herewith enclosed performance monitoring reports of pollution control equipments for J K Cement Ltd. located at Village - Devra, Harduaken, Puraina, Sotipura, Madaiyan, Tehsil - Amanganj District Panna (Madhya Pradesh) 488441.

This is for your kind information and record, please.

With Regards,
Dr. Saurabh Kumar
Dy. General Manager (Environment)

J K Cement Limited
Village- Harduwaken, Tahsil- Amanganj,
District- Panna
Email- saurabh.yadav1@jkcement.com Web:- www.jkcement.com
Mob.:- +91 9686502172

Submission of performance monitoring reports of pollution control equipment's.pdf
4258K

JK Cement Works, Panna
(Formerly known as Jaykaycem (Central) Ltd. now amalgamated)
A Unit of JK Cement Ltd.
CIN: L17229UP1994PLC017199
Village - Harduwaken, Tehsil - Amanganj
District - Panna, State - Madhya Pradesh, India - 488 441
9329141591 jkc.panna@jkcement.com
www.jkcement.com

Ref. No. JKCEMENT/ENV./CORRES./2024-25/07/11 **Dated: 01.08.2024**

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

Subject: Submission of performance monitoring reports of pollution control equipment's for J K Cement Ltd. located at Villages Devra, Hardua, Puraina, Sotipura & Madaiyan, Tehsil: Amanganj (Old Pawai), Dist. Panna, Madhya Pradesh.

Reference No.: Environment Clearance no IA-J-11011/224/2016-IA. II (I) dated 02.03.2022 (Condition no. A. Specific Conditions - X).

Dear sir,

With reference to aforesaid subject, please find herewith enclosed performance monitoring reports of pollution control equipment's for J K Cement Ltd. located at Village - Devra, Harduaken, Puraina, Sotipura, Madaiyan, Tehsil - Amanganj District Panna (Madhya Pradesh) 488441.

This is for your kind information and record, please.

Thanking you.
Yours faithfully,

For J K Cement Limited, Panna

Kapil Agrawal
(Unit Head)

Encl: As above

CC: The Director, Ministry of Env., Forest and Climate Change, Indira Paryavaran Bhawan Jorbagh Road, New Delhi – 110 003.

Performance Monitoring Reports of Air Pollution Control Device's (APCD).

Sponsor:

JKCement

Cement Division, Unit-Panna.

Report Prepared by:

Vimta
Driven by Quality. Inspired by Science.

Vimta Labs Ltd.
142, IDA, Phase-II, Cherlapally
Hyderabad–500 051
env@vimta.com, www.vimta.com
(QCI/NABET Accredited EIA Consultancy Organization,
NABL Accredited & ISO 17025 Certified and MoEF &CC Recognized Laboratory)

PREFACE

J K CEMENTS LIMITED.
Cement Division, Unit- Panna.

Performance Monitoring Reports of Air Pollution Control Device's (APCD).

For and on behalf of VIMTA Labs Limited

Approved by : **Lavanya Bende**

Signed : B. Lavanya

Designation : **Senior Scientist– Environment**

Date : 2024/07/19

This report has been prepared by Vimta Labs Limited with all reasonable skill, care, and diligence within the terms of the contract with the client, incorporating our General Terms and Conditions of Business and taking account of the resources devoted to it by agreement with the client.

We disclaim any responsibility to the client and others in respect of any matters outside the scope of the above.

1.0 Introduction

JK Cement Ltd. is one of India's leading manufacturers of Grey Cement and one of the leading White Cement manufacturers in the World. Over four decades, the Company has partnered India's multi-sectoral infrastructure needs on the strength of its product excellence, customer orientation and technology leadership. JK Cement's operations commenced with commercial production at its flagship grey cement unit at Panna, Madhya Pradesh in November 2022. The Company has an installed Grey Cement capacity of 3.0 MnTPA & Clinker capacity 3.3 MnTPA & WHRS 25 MW as on date, making it one of the top cement manufacturers in the Country.

2.0 Background

Cement, power, chemical, textile and various other industries are indicators of country's progress, however all these industries have adverse impact on environment through emission of pollutants. India, like many other countries, has put in place a regulatory regime to control industrial emissions into air. For industries it is very difficult to follow these regimes due to continuous varying emission level depending on various factors like variation in per day production based on market demand, load, operating hours, season etc. and conventional emission monitoring system represent the emission level of particular time period only.

Continuous emission monitoring system (CEMS) has become necessity to monitor & regulate emission level. CEMS refers to the instrumentation and associated computing hardware and software used to measure pollutant levels in exhaust gas from industrial sources at a higher frequency (e.g., once or more per minute). Most PM CEMS device technologies employ indirect measurement principles and therefore require calibration before use. For instance, light scattering CEMS technology, which is commonly used to measure PM emissions, calculates the concentration of pollutants based on changes in the optical properties of stack gas. Calibration

(performance & reliability) of CEMS ensures the complete integrity & reliability of data acquired from CEMS.

JK Cement Ltd, Situated at Village Harduwaken, Tehsil Amanganj , Distt Panna Madhya Pradesh, has put Particulate matter for APCD monitoring of particulate matter emission level. Performance monitoring of APCD Performance monitoring of PCE was performed by M/s. Vimta Labs Limited, Hyderabad. To comply the regulatory requirement M/s Vimta Labs Limited was follow Central Pollution Control Board specifications and guidelines for continuous emissions monitoring systems (CEMS) for Particulate Matter (PM) measurement with special reference to emission trading programs (CPCB/e- PUBLICATION/2013-14) and 1st Revised Guidelines for Continuous emission monitoring systems in September 2018. Standard reference method of Isokinetic sampling technique was adopted for comparison study of online data received from Stacks.

3.0 Standard Reference Method (SRM)

Particulate matter is withdrawn Iso-kinetically from the duct/stack and collected in a Micro Glass fibre thimble maintained at duct/stack temperature. The particulate matter, which includes any material that collects in the Filter thimble, is determined gravimetrically after the removal of uncombined moisture. The Iso-kinetic flow rate is calculated from the arrived flue gas velocity inside the duct/stack at respective traverse points, which is calculated based on the measured parameters like temperature, moisture, molecular weight, velocity head at respective traverse points and static head.

4.0 Calibration Procedure:

Particulate matter emission level of 4 stacks (stationary source of emission) installed in plant was measured by standard reference method of Isokinetic sampling technique. Total three measurements were carried out in each stack of Concern Mills (wherever possible). Micro Glass Fiber Filter thimbles are used for dust collection. And were conditioned at 120°C to constant

weighing before & after sampling. Data acquired from APCD for each stack during Real time period of Iso-kinetic sampling was collected. Since in every study each collected data is associated with some inherent error due to various unavoidable factors, therefore to standard reference method of Iso-kinetic sampling method. As per CPCB/e-Publication/2013-14 guideline, maximum acceptable limit for %RMSPE is less than 30. If %RMSE is more than 30.

5.0 Instruments:

For this study, Iso-kinetic sampling train for Particulate Matter was carried out in different stacks in J K Cement Works Panna, in Panna district, Madhya Pradesh, by stack sampling kit VSS- 1 of Envirotech Instruments Private Limited. Dust sample was collected in Whatman glass fiber thimbles.

6.0 Gaseous Composition Measurement

The measurement of the O_2, & CO_2 was carried out with the Portable Combustion Flue Gas Analyzer Make of MRU GmBH Model Optima 7 with according to USEPA Method 30&34.

FIGURE-1
PORTABLE COMBUSTION GAS ANALYSER

7.0 Exhaust Gas Volume Stream

7.1 Velocity

The velocity profile was measured using S-type Pitot tube according to USEPA-guideline method no.2.

TABLE-1
INSTRUMENT DETAILS FOR VELOCITY MEASUREMENT

Parameter	Instrument and its Specification
S- Type Pitot tube	• Envirotech Stack Sampling Kit • Validated with calibration Report
Dynamic pressure	• Incline cum vertical manometer • Envirotech Stack Sampling Kit • Accuracy: ± 1 [%] of measuring range
Static pressure	• Incline cum vertical manometer • Envirotech Stack Sampling Kit • Accuracy: ± 1 [%] of measuring range
Ambient pressure	• Digital Barometer, Testo 511, Germany • Range: 300 – 1200 hPa [mbar] • Accuracy: ± 3 hPa

7.2 Exhaust gas temperature

During the whole measuring period the temperature of the exhaust gas was measured in multi- points of the cross-section area of the stack with a K type thermocouple in connection with a display unit.
Envirotech Stack Sampling Kit

TABLE-2
INSTRUMENT DETAILS OF TEMPERATURE MEASUREMENT

Parameter	Device and its Specification
Temperature	• Digital Thermo Meter • Range: 0 - 1300 [°C] • Accuracy: ± 0.3% + 1°C

8.0 Measurement of Particulate Matter (PM):

Envirotech Iso-kinetic Source Sampling Kit Model APM 620 was used to collect dust Sample Iso-kinetically as Per USEPA Method 5 with valid calibration report of Manometer, Orifice Meter, Dry Gas Meter, Sampling Nozzle, Vacuum gauge, Temp indicator, Pitot tube. Sample was collected in Glass Fiber Filter. Hot gas was dried using silica Gel and cooled less than 20^0 C before entering to metering Device (Dry Gas Meter). Initial & Final Weight of Filter Thimble was taken at site Laboratory by using Digital Balance.

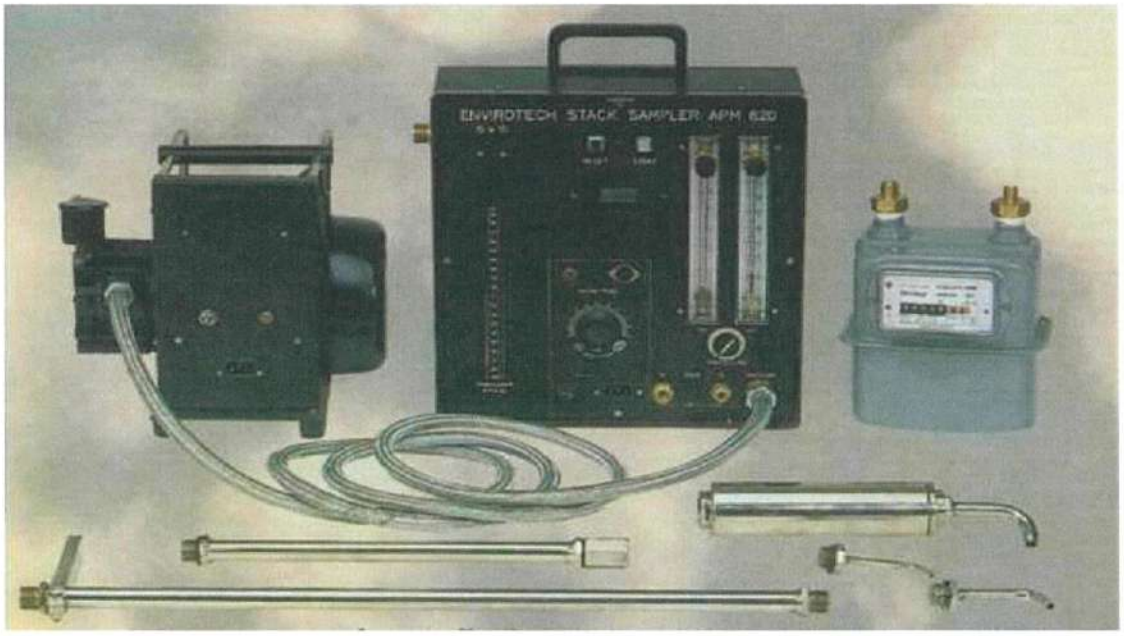

FIGURE-2

STACK EMISSION MONITORING KIT

9.0 QA /QC for Dust Measurement during sampling

The instruments used for measurement are duly calibrated as per applicable norms as mentioned in ISO/IEC: 17025.

Calibrated S-type Pitot tube, manometer, digital thermometer, Rota meter, dry gas meter & vacuum gauges were used.

For QA/QC Leak Check was done before & after sampling of each port hole at pressure of (-15) inch Hg & was found 100% leak Proof.
Iso-kinetic Percentage was in between 90-110 % at Each Port Hole & over all Iso-kinetic Percentage was also in the same range. Field Blank sample was taken care at site.

10.0 Results & Discussion:

Results obtained from APCD & Iso-kinetic sampling are summarized in Table-3 and Regression trend data are given in below.

TABLE-3
SUMMARY OF REGRESSION ANALYSIS

Sr. No	Stack Identity	PM (mg/nm3)	EFFENCICY
01	Cement Mill-1 Outlet	7.3	
02	Cement Mill-1 Inlet	292000	99.99
03	RABH kiln -1 Outlet	7.76	99.94
04	RABH ESP-1 Inlet	13900	
05	Cooler ESP Outlet	8.9	99.80
06	Cooler ESP Inlet	4500	
07	Coal Mill-1 Outlet	7.9	99.99
08	Coal Mill-1 Inlet	122333	

ISSUED TO:

M/S. J K Cement Works Panna,
A-Unit of J K Cement Ltd.
Village Harduwaken, Tehsil Amanganj,
Distt- Panna, MP-488441 India.

Report Number	:	**VLL/VLS/24/04577/001**
Issue Date	:	**2024.06.22**
P.O. Number	:	**4600099519**
P.O. Date	:	**05.01.2024**

Sample Registration Date	: 2024.06.07	Sampling Date	: 2024.05.29
Analysis Starting Date	: 2024.06.07	Analysis Completion Date	: 2024.06.21

Samples collected by Vimta Labs Ltd.

TEST REPORT

Plant Name & Address	:	J K Cement Works, Panna A-Unit of J K Cement Ltd.
Sampling Location	:	Cement Mill-1(BAG HOUSE) OUTLET
Test protocol	:	IS:11255 Part-1,2003, IS: Part-3, 2008, USEPA Method No. 3A, 6C & 10B
Stack Height	:	54.0 m
Height of Sampling Point	:	40.0 m
Stack Diameter at Test Location	:	3.40 m

S.no	Test Id	Time (Hrs)	Temp. (°C)	Velocity (m/s)	Flow Rate (Nm^3/S)	Particulate Matter (mg/Nm^3)
1	1st	16:00	87	15.4	107.45	8.7
2	2nd	16:50	89	15.0	104.08	6.7
3	3rd	17:45	88	15.2	105.76	6.5

Name & Designation of Authorized Signatory

B. Lavanya

Lavanya Bende
Senior Environment

ISSUED TO:

M/S. J K Cement Works Panna,
A-Unit of J K Cement Ltd.
Village Harduwaken, Tehsil Amanganj,
Distt- Panna, MP-488441 India.

Report Number	:	**VLL/VLS/24/04577/002**
Issue Date	:	**2024.06.22**
P.O. Number	:	**4600099519**
P.O. Date	:	**05.01.2024**

Sample Registration Date	:	2024.06.07	Sampling Date	:	2024.05.29
Analysis Starting Date	:	2024.06.07	Analysis Completion Date	:	2024.06.21

Samples collected by Vimta Labs Ltd.

TEST REPORT

Plant Name & Address	:	J K Cement Works, Panna A-Unit of J K Cement Ltd.
Sampling Location	:	Cement Mill-1 (BAG HOUSE) INLET
Test protocol	:	IS:11255 Part-1,2003, IS: Part-3, 2008, USEPA Method No. 3A, 6C & 10B
Stack Diameter at Test Location	:	4.2 m

S.no	Test Id	Time (Hrs)	Temp. (°C)	Velocity (m/s)	Flow Rate (Nm^3/S)	Particulate Matter (g/Nm^3)
1	1st	16:00	93	25.7	254.79	289
2	2nd	16:50	95	27.4	270.16	268
3	3rd	17:45	94	26.8	264.97	319

Name & Designation of Authorized Signatory

B. Lavanya

Lavanya Bende
Senior Environment

ISSUED TO:

M/S. J K Cement Works Panna,
A-Unit of J K Cement Ltd.
Village Harduwaken, Tehsil Amanganj,
Distt- Panna, MP-488441 India.

Report Number	:	**VLL/VLS/24/04577/003**
Issue Date	:	**2024.06.22**
P.O. Number	:	**4600099519**
P.O. Date	:	**05.01.2024**

Sample Registration Date	:	2024.06.07	Sampling Date	:	2024.05.30
Analysis Starting Date	:	2024.06.07	Analysis Completion Date	:	2024.06.21

Sample Collected by Vimta Labs Ltd.

TEST REPORT

Plant Name & Address	:	J K Cement Works, Panna A-Unit of J K Cement Ltd.
Sampling Location	:	RAW MILL KILN -1 STACK (RMBH OUTLET)
Test protocol	:	IS:11255 Part-1',2003, IS: Part-3, 2008, USEPA Method No. 3A, 6C & 10B
Stack Height	:	183.0 m
Height of Sampling Point	:	140.0 m
Stack Diameter at Test Location	:	5.42 m

S.no	Test Id	Time (Hrs)	Temp. (°C)	Velocity (m/s)	Flow Rate (Nm^3/S)	Particulate Matter (mg/Nm^3)
1	1st	11:00	91	10.6	182.19	6.1
2	2nd	11:55	93	11.0	188.03	8.0
3	3rd	12:50	91	10.5	180.47	9.2

Name & Designation of Authorized Signatory

B. Lavanya

Lavanya Bende
Senior Environment

ISSUED TO:

M/S. J K Cement Works Panna,
A-Unit of J K Cement Ltd.
Village Harduwaken, Tehsil Amanganj,
Distt- Panna, MP-488441 India.

Report Number	:	**VLL/VLS/24/04577/004**
Issue Date	:	**2024.06.22**
P.O. Number	:	**4600099519**
P.O. Date	:	**05.01.2024**

Sample Registration Date	:	2024.06.07	Sampling Date	:	2024.05.30
Analysis Starting Date	:	2024.06.07	Analysis Completion Date	:	2024.06.21

Sample Collected by Vimta Labs Ltd.

TEST REPORT

Plant Name & Address	:	J K Cement Works, Panna A-Unit of J K Cement Ltd.
Sampling Location	:	RAW MILL KILN -1 STACK (RMBH INLET)
Test protocol	:	IS:11255 Part-1,2003, IS: Part-3, 2008, USEPA Method No. 3A, 6C & 10B
Stack Diameter at Test Location	:	6.0 m

S.no	Test Id	Time (Hrs)	Temp. (°C)	O2 (%V/V)	CO2 (%V/V)	Velocity (m/s)	Flow Rate (Nm^3/S)	Particulate Matter (gm/Nm^3)
1	1st	11:00	161	3.19	32.12	8.9	153.81	13.70
2	2nd	11:55	165	3.16	32.10	9.5	162.68	15.4
3	3rd	12:50	166	3.10	31.07	9.6	164.02	12.6

Name & Designation of Authorized Signatory

B. Lavanya

Lavanya Bende
Senior Environment

ISSUED TO:

M/S. J K Cement Works Panna,
A-Unit of J K Cement Ltd.
Village Harduwaken, Tehsil Amanganj,
Distt- Panna, MP-488441 India.

Report Number	:	**VLL/VLS/24/04577/005**
Issue Date	:	**2024.06.22**
P.O. Number	:	**4600099519**
P.O. Date	:	**05.01.2024**

Sample Registration Date	:	2024.06.07	Sampling Date	:	2024.05.31
Analysis Starting Date	:	2024.06.07	Analysis Completion Date	:	2024.06.21

Sample Collected by Vimta Labs Ltd.

TEST REPORT

Plant Name & Address	:	J K Cement Works, Panna A-Unit of J K Cement Ltd.
Sampling Location	:	Cooler ESP-1 OUTLET
Test protocol	:	IS:11255 Part-1,2003, IS: Part-3, 2008, USEPA Method No. 3A, 6C & 10B
Stack Height	:	72.0 m
Height of Sampling Point	:	40.0 m
Stack Diameter at Test Location	:	4.82 m

S.no	Test Id	Time (Hrs)	Temp. (°C)	Velocity (m/s)	Flow Rate (Nm^3/S)	Particulate Matter (mg/Nm^3)
1	1st	11:30	76	7.9	113.38	8.7
2	2nd	12:20	77	8.2	117.35	9.1
3	3rd	13:05	79	8.0	113.84	8.8

Name & Designation of Authorized Signatory

B. Lavanya

Lavanya Bende
Senior Environment

ISSUED TO:

M/S. J K Cement Works Panna,
A-Unit of J K Cement Ltd.
Village Harduwaken, Tehsil Amanganj,
Distt- Panna, MP-488441 India.

Report Number	:	**VLL/VLS/24/04577/006**
Issue Date	:	**2024.06.22**
P.O. Number	:	**4600099519**
P.O. Date	:	**05.01.2024**

Sample Registration Date	:	2024.06.07	Sampling Date	:	2024.05.31
Analysis Starting Date	:	2024.06.07	Analysis Completion Date	:	2024.06.21

Sample Collected by Vimta Labs Ltd.

TEST REPORT

Plant Name & Address	:	J K Cement Works, Panna A-Unit of J K Cement Ltd.
Sampling Location	:	Cooler ESP-1 INLET
Test protocol	:	IS:11255 Part-1,2003, IS: Part-3, 2008, USEPA Method No. 3A, 6C & 10B
Stack Diameter at Test Location	:	5.0 m

S.no	Test Id	Time (Hrs)	Temp. (^{0}C)	Velocity (m/s)	Flow Rate (Nm^3/S)	Particulate Matter (gm/Nm^3)
1	1st	11:30	169	9.5	117.46	4.5
2	2nd	12:20	171	9.9	121.86	3.9
3	3rd	13:05	174	9.7	118.60	5.1

Name & Designation of Authorized Signatory

B. Lavanya

Lavanya Bende
Senior Environment

ISSUED TO:

M/S. J K Cement Works Panna,
A-Unit of J K Cement Ltd.
Village Harduwaken, Tehsil Amanganj,
Distt- Panna, MP-488441 India.

Report Number	:	**VLL/VLS/24/04577/007**
Issue Date	:	**2024.06.22**
P.O. Number	:	**4600099519**
P.O. Date	:	**05.01.2024**

Sample Registration Date	:	2024.06.07	Sampling Date	:	2024.06.01
Analysis Starting Date	:	2024.06.07	Analysis Completion Date	:	2024.06.21

Sample Collected by Vimta Labs Ltd.

TEST REPORT

Plant Name & Address	:	J K Cement Works, Panna A-Unit of J K Cement Ltd.
Sampling Location	:	Coal Mill-1(BAG HOUSE) OUTLET)
Test protocol	:	IS:11255 Part-1,2003, IS: Part-3, 2008, USEPA Method No. 3A, 6C & 10B
Stack Height	:	78.0 m
Height of Sampling Point	:	40.0 m
Stack Diameter at Test Location	:	2.3 m

S.no	Test Id	Time (Hrs)	Temp. (°C)	Velocity (m/s)	Flow Rate (Nm^3/S)	Particulate Matter (mg/Nm^3)
1	1st	14:10	73	18.1	55.18	8.5
2	2nd	15:00	72	17.8	54.43	7.2
3	3rd	15:50	74	18.0	54.72	8.0

Name & Designation of Authorized Signatory

B. Lavanya

Lavanya Bende
Senior Environment

ISSUED TO:

M/S. J K Cement Works Panna,
A-Unit of J K Cement Ltd.
Village Harduwaken, Tehsil Amanganj,
Distt- Panna, MP-488441 India.

Report Number	:	VLL/VLS/24/04577/008
Issue Date	:	2024.06.22
P.O. Number	:	4600099519
P.O. Date	:	05.01.2024

Sample Registration Date	:	2024.06.07	Sampling Date	:	2024.06.01
Analysis Starting Date	:	2024.06.07	Analysis Completion Date	:	2024.06.21

Sample Collected by Vimta Labs Ltd.

TEST REPORT

Plant Name & Address	:	J K Cement Works, Panna A-Unit of J K Cement Ltd.
Sampling Location	:	Coal Mill-1 (BAG HOUSE)- INLET
Test protocol	:	IS:11255 Part-1,2003, IS: Part-3, 2008, USEPA Method No. 3A, 6C & 10B
Stack Diameter at Test Location	:	2.2 m

S.no	Test Id	Time (Hrs)	Temp. (°C)	Velocity (m/s)	Flow Rate (Nm^3/S)	Particulate Matter (gm/Nm^3)
1	1st	14:10	77	24.3	64.07	116.1
2	2nd	15:00	79	25.0	65.54	127.2
3	3rd	15:50	78	24.7	64.94	123.7

Name & Designation of Authorized Signatory

B. Lavanya

Lavanya Bende
Senior Environment

ISSUED TO:

M/S. J K Cement Works Panna,
A-Unit of J K Cement Ltd.
Village Harduwaken, Tehsil Amanganj,
Distt- Panna, MP-488441 India.

Report Number	:	**VLL/VLS/24/04577/009**
Issue Date	:	**2024.06.22**
P.O. Number	:	**4600099519**
P.O. Date	:	**05.01.2024**

Sample Registration Date	:	2024.06.07	Sampling Date	:	2024.06.01
Analysis Starting Date	:	2024.06.07	Analysis Completion Date	:	2024.06.21

Sample Collected by Vimta Labs Ltd.

TEST REPORT

Plant Name & Address	:	J K Cement Works, Panna A-Unit of J K Cement Ltd.
Sampling Location	:	Efficiency Details
Test protocol	:	IS:11255 Part-1,2003, IS: Part-3, 2008, USEPA Method No. 3A, 6C & 10B
Stack Diameter at Test Location	:	2.2 m

Sr.no	Test Location	Date & Time (Hrs)	APC Device	Efficiency (%)
1	Cement Mill Stack	29.05.2024 16:00- 18:30 hrs	BAG HOUSE	99.99
2	RABH Klin Stack	30.05.2024 11:00 to 14:00 hrs	BAG HOUSE	99.94
3	Cooler ESP stack	31.05.2024 11:30 hrs to 14:30 hrs	ESP	99.80
4	Coal Mill Stack	01.06.2024 14:10 hrs to 16:30 hrs	BAG FILTER	99.99

Name & Designation of Authorized Signatory

B. Lavanya

Lavanya Bende
Senior Environment

Annexure-2

SICK
Sensor Intelligence.

CALIBRATION REPORT-DUST MONITOR

Customer: JK Cement Limited		Model: MKIII		SICK INDIA PVT LTD
Date: 30.08.2024		Equipment Number: MKIII, Make: LAND AMETEK (S.N.- 265597) Raw Mill & Kiln Bag House		Done by: Mayank Sharma
Manual Sampling Done by Mr. Rajkumar		Details of Manual sampling company details JK Cement Limited Make: Vayu Bodhak India, Model: SERRAX SKM150(SI.No.223 DTF 22)		
S. No	Manual sampling Results in (mg/Nm3)	Instrument Reading before calibration in mg/Nm3	Instrument Reading after calibration in mg/Nm3	% Of Error after calibration
1	13.68	14.71	13.71	0.219

With reference to the manual sampling results instrument was calibrated.

Validity of the calibration: 6 months

SICK INDIA PRIVATE LIMITED

215, Western Edge II, W. E. Highway, Borivali(E), Mumbai - 400 066. Tel : +91-22-6119 8900 Fax : +91-22-6119 8933
Email : info@sick-india.com Website : www.sick-india.com CIN : U32109MH2005PTC192559

SICK
Sensor Intelligence.

CALIBRATION REPORT FOR CEMS GAS ANALYZER

JK CEMENT LIMITED	Model: ULTRAMAT 23	SICK INDIA PVT LTD
Calibration Date: 29.08.2024	Equipment Number: (S.N: NN-554)	Done by: Mayank Sharma

1. Model No: ULTRAMAT 23

2. Customer Name: J K CEMENT WORKS, PANNA
Village Harduwaken, Tehsil Amanganj,
PIN - 488441, Distt. Panna (M.P.)

3. Instrument Tag No: RABH Stack (SO2/NOx/CO) Analyzer

4. Calibration Due Date: 28.02.2025

S.N.	Cylinder No	Expiry date of calibration cylinder	Component	Cylinder Value (unit)	Before Calibration Value	After Calibration Value	Remarks
1	16243960	28.07.2025	SO2	4115 PPM	4196 PPM	4117 ppm	**Calibrated**
2	16243979	28.07.2025	NO	4227 PPM	4301 PPM	4226 ppm	**Calibrated**
3	16244079	28.07.2025	CO	2.0 %	2.05 %	2.0 %	**Calibrated**

For Sick India Pvt Ltd

CALIBRATION REPORT-DUST MONITOR

Customer: JK Cement Limited		Model: MKIII		SICK INDIA PVT LTD
Date: 30.08.2024		Equipment Number: MKIII, Make: LAND AMETEK Clinker Cooler		Done by: Mayank Sharma
Manual Sampling Done by Mr. Rajkumar		Details of Manual sampling company details JK Cement Limited Make: Vayu Bodhak India, Model: SERRAX SKM150(SI.No.223 DTF 22)		
S. No	Manual sampling Results in (mg/Nm3)	Instrument Reading before calibration in mg/Nm3	Instrument Reading after calibration in mg/Nm3	% Of Error after calibration
1	13.04	13.37	13.10	0.460

With reference to the manual sampling results instrument was calibrated.

Validity of the calibration: 6 months

SICK INDIA PRIVATE LIMITED

215, Western Edge II, W. E. Highway, Borivali(E), Mumbai - 400 066. Tel : +91–22–6119 8900 Fax : +91–22-6119 8933
Email : info@sick-india.com Website : www.sick-india.com CIN : U32109MH2005PTC192559

CALIBRATION REPORT-DUST MONITOR

Customer: JK Cement Limited		Model: SP-100		SICK INDIA PVT LTD
Date: 30.08.2024		Equipment Number: SP-100, Make: SICK (S.No.-21418402) Coal Mill		Done by: Mayank Sharma
Manual Sampling Done by Mr. Rajkumar		Details of Manual sampling company details JK Cement Limited Make: Vayu Bodhak India, Model: SERRAX SKM150(SI.No.223 DTF 22)		
S. No	Manual sampling Results in (mg/Nm3)	Instrument Reading before calibration in mg/Nm3	Instrument Reading after calibration in mg/Nm3	% Of Error after calibration
1	12.99	12.3	12.97	-0.153

With reference to the manual sampling results instrument was calibrated.

Validity of the calibration: 6 months

SICK INDIA PRIVATE LIMITED

215, Western Edge II, W. E. Highway, Borivali(E), Mumbai - 400 066. Tel : +91–22–6119 8900 Fax : +91–22-6119 8933
Email : info@sick-india.com Website : www.sick-india.com CIN : U32109MH2005PTC192559

CALIBRATION REPORT-DUST MONITOR

Customer: JK Cement Limited		Model: SP-100		SICK INDIA PVT LTD
Date: 30.08.2024		Equipment Number: SP-100, Make: SICK (S.No.-21418403) Cement Mill		Done by: Mayank Sharma
Manual Sampling Done by Mr. Rajkumar		Details of Manual sampling company details JK Cement Limited Make: Vayu Bodhak India, Model: SERRAX SKM150(SI.No.223 DTF 22)		
S. No	Manual sampling Results in (mg/Nm3)	Instrument Reading before calibration in mg/Nm3	Instrument Reading after calibration in mg/Nm3	% Of Error after calibration
1	6.30	5.80	6.32	0.317

With reference to the manual sampling results instrument was calibrated.

Validity of the calibration: 6 months

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CONTINUOUS AMBIENT AIR QUALITY MONITORING STATION (CAAQMS)

CALIBRATION REPORT

Customer Name : J K Cement Ltd. Panna, M P. **Date:** 05.10.2024
Station Name : CAAQMS 1
Station Location : NEAR Reservoir

Calibration Standards:

Particulars	Make	Serial No.	Concentration
SO2 Gas Cylinder	Vadilal Gases	06805	48 PPM
NOx Gas Cylinder	Vadilal Gases	285395	52.9 PPM
CO Gas Cylinder	Vadilal Gases	295248	89 PPM

Calibration Results (Gas Analysers):

Gas Analyser	Range	Zero Calibration				Span Calibration					Remark
		Zero Reading		Background		Span Value	Span Reading		Coefficient		
		Old	New	Old	New		Old	New	Old	New	
SO2	0-500	2.1	0.0	37.6	38.9	100 PPB	104	100.0	1.40	1.21	OK
NOX	0-500	2.8	0.0	12.5	15.3	100 PPB	96	100.0	1.06	1.19	OK
CO	0-50	-0.020	0.0	0.100	0.080	02 PPM	2.11	2.0	0.937	0.90	OK

* GAS ANALYSER CALIBRATION DONE IN PPB EXCEPT CO. CO IS IN PPM.

Foil calibration -	Zero value - 0.0	Foil value - 1215 ug/m3

PM Analysers	Range	Amplification Factor		Remark
		Old Value	New Value	
PM 10	0-1000	7013	6978	Ok
PM 2.5	0-1000	6994	7103	Ok

Calibration Done by Thermo Fisher Scientific Pvt. Ltd.

Thermo Fisher Scientific India Pvt. Ltd. Mumbai

Thermo Fisher Scientific India Pvt. Ltd. Plot No. C-327 TTC Industrial Area Pawane, Navi Mumbai - 400 705. INDIA +91-22-4157 8800 tel +91-22-4157 8888 tel www.thermofisher.com
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CONTINUOUS AMBIENT AIR QUALITY MONITORING STATION (CAAQMS)

CALIBRATION REPORT

Customer Name : J K Cement Ltd. Panna, M P. **Date:** 04.10.2024
Station Name : CAAQMS 2
Station Location : NEAR Zero Point

Calibration Standards:

Particulars	Make	Serial No.	Concentration
SO2 Gas Cylinder	Phoenix	AL6196	48 PPM
NOx Gas Cylinder	Phoenix	AL6235	49 PPM
CO Gas Cylinder	Phoenix	AL6248	189 PPM

Calibration Results (Gas Analysers):

Gas Analyser	Range	Zero Calibration				Span Calibration					Remark
		Zero Reading		Background		Span Value	Span Reading		Coefficient		
		Old	New	Old	New		Old	New	Old	New	
SO2	0-500	1.6	0.0	34.8	31.9	100 PPB	107	100	1.21	0.94	OK
NOX	0-500	-2.1	0.0	7.9	5.8	100 PPB	102	100	1.41	1.40	OK
CO	0-50	-0.030	0.0	0.090	0.060	02 PPM	1.98	2.0	0.76	0.96	OK

* GAS ANALYSER CALIBRATION DONE IN PPB EXCEPT CO. CO IS IN PPM.

Foil calibration -	Zero value - 0.0	Foil value - 1195 ug/m3

PM Analysers	Range	Amplification Factor		Remark
		Old Value	New Value	
PM 10	0-1000	7103	7120	Ok
PM 2.5	0-1000	7076	6988	Ok

Calibration Done by Thermo Fisher Scientific Pvt. Ltd.

Thermo Fisher Scientific India Pvt. Ltd. Mumbai

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CONTINUOUS AMBIENT AIR QUALITY MONITORING STATION (CAAQMS)

CALIBRATION REPORT

Customer Name : J K Cement Ltd. Panna, M P. **Date:** 05.10.2024
Station Name : CAAQMS 3
Station Location : NEAR Store

Calibration Standards:

Particulars	Make	Serial No.	Concentration
SO2 Gas Cylinder	Vadilal Gases	067993	53 PPM
NOx Gas Cylinder	Phoenix	AL6235	49 PPM
CO Gas Cylinder	Vadilal Gases	295245	94 PPM

Calibration Results (Gas Analysers):

Gas Analyser	Range	Zero Calibration				Span Calibration					Remark
		Zero Reading		Background		Span Value	Span Reading		Coefficient		
		Old	New	Old	New		Old	New	Old	New	
SO2	0-500	2.7	0.0	40.7	43.1	100 PPB	104.5	100.0	1.72	1.65	OK
NOX	0-500	-2.0	0.0	3.9	1.9	100 PPB	96	100.0	0.98	1.01	OK
CO	0-50	0.060	0.0	-0.020	0.040	02 PPM	1.99	2.0	0.932	0.959	OK

* GAS ANALYSER CALIBRATION DONE IN PPB EXCEPT CO. CO IS IN PPM.

Foil calibration -	Zero value - 0.0	Foil value - 1249 ug/m3

PM Analysers	Range	Amplification Factor		Remark
		Old Value	New Value	
PM 10	0-1000	6984	6966	Ok
PM 2.5	0-1000	7063	6912	Ok

Calibration Done by Thermo Fisher Scientific Pvt. Ltd.

Thermo Fisher Scientific India Pvt. Ltd. ★ Mumbai

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CONTINUOUS AMBIENT AIR QUALITY MONITORING STATION (CAAQMS)

CALIBRATION REPORT

Customer Name : J K Cement Ltd. Panna, M P. **Date:** 08.10.2024
Station Name : CAAQMS 4
Station Location : NEAR Guest House

Calibration Standards:

Particulars	Make	Serial No.	Concentration
SO2 Gas Cylinder	Phoenix	14033	45 PPM
NOx Gas Cylinder	Phoenix	6240	50 PPM
CO Gas Cylinder	Phoenix	6209	186 PPM

Calibration Results (Gas Analysers):

Gas Analyser	Range	Zero Calibration				Span Calibration					Remark
		Zero Reading		Background		Span Value	Span Reading		Coefficient		
		Old	New	Old	New		Old	New	Old	New	
SO2	0-500	-0.7	0.0	25.2	24.5	100 PPB	103	100.0	0.85	0.80	OK
NOX	0-500	-2.2	0.0	3.1	0.9	100 PPB	96	100.0	1.09	1.20	OK
CO	0-50	-0.020	0.0	0.090	0.070	02 PPM	2.02	2.0	0.89	0.79	OK

* GAS ANALYSER CALIBRATION DONE IN PPB EXCEPT CO. CO IS IN PPM.

Foil calibration -	Zero value - 0.0	Foil value - 1254 ug/m3

PM Analysers	Range	Amplification Factor		Remark
		Old Value	New Value	
PM 10	0-1000	6988	7076	Ok
PM 2.5	0-1000	7013	7159	Ok

Calibration Done by Thermo Fisher Scientific Pvt. Ltd.

Thermo Fisher Scientific India Pvt. Ltd. ★ Mumbai

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Annexure-3

VIRAT GLOBAL LAB

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

TEST REPORT CODE: VGL/FE/24/05/17/N-001 TEST REPORT ISSUE DATE: 10.05.2024

TEST REPORT (FUGITIVE EMISSION)

Name & Address of Customer	:	**M/s. J K CEMENT WORKS, PANNA,** **(A UNIT OF JK CEMENT LIMITED.)** VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ, DISTT. - PANNA, (M.P)
Sampling Location	:	**NEAR GYPSUM YARD**
Duration of Sampling	:	01.05.2024 TO 01.05.2024
Time of Sampling	:	08:00 AM TO 04:00 PM
Sample Done By	:	VGL STAFF
Packing Condition	:	SEALED
Environmental Condition	:	TEMP.(^{0}C)- 25.3 & RH (%)- 57.0
Method of Sampling	:	IS:5182
Sample Receiving Date	:	04.05.2024
Sample Processing Date	:	05.05.2024 TO 10.05.2024
Equipment Used	:	HIGH VALUME SAMPLER

TEST RESULTS

SL. NO.	PARAMETERS	TEST METHOD	RESULTS	UNIT	SPECIFICATION / LIMIT (AS PER CPCB)
1	Suspended Particulate Matter (SPM)	IS 5182 (Part-4)	288.5	µg/m3	600

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

Review By:

Dr. Ashok Kumar
Technical Manager

Virat Global Lab
Authorized Signatory

Authorised Signatory

D. K. Yadav
Lab In-charge

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
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TEST REPORT CODE: VGL/FE/24/05/17/N-002 TEST REPORT ISSUE DATE: 10.05.2024

TEST REPORT (FUGITIVE EMISSION)

Name & Address of Customer	:	**M/s. J K CEMENT WORKS, PANNA,** **(A UNIT OF JK CEMENT LIMITED.)** VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ, DISTT. - PANNA, (M.P)
Sampling Location	:	**NEAR PACKING PLANT**
Duration of Sampling	:	01.05.2024 TO 01.05.2024
Time of Sampling	:	08:20 AM TO 04:20 PM
Sample Done By	:	VGL STAFF
Packing Condition	:	SEALED
Environmental Condition	:	TEMP.(^{0}C)- 25.3 & RH (%)- 57.0
Method of Sampling	:	IS:5182
Sample Receiving Date	:	04.05.2024
Sample Processing Date	:	05.05.2024 TO 10.05.2024
Equipment Used	:	HIGH VALUME SAMPLER

TEST RESULTS

SL. NO.	PARAMETERS	TEST METHOD	RESULTS	UNIT	SPECIFICATION / LIMIT (AS PER CPCB)
1	Suspended Particulate Matter (SPM)	IS 5182 (Part-4)	312.1	µg/m3	600

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

Review By:

Dr. Ashok Kumar
Technical Manager

Virat Global Lab
Authorized Signatory
Authorised Signatory

D. K. Yadav
Lab In-charge

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TEST REPORT CODE: VGL/FE/24/05/17/N-003 TEST REPORT ISSUE DATE: 10.05.2024

TEST REPORT (FUGITIVE EMISSION)

Name & Address of Customer	:	**M/s. J K CEMENT WORKS, PANNA,** **(A UNIT OF JK CEMENT LIMITED.)** VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ, DISTT. - PANNA, (M.P)
Sampling Location	:	**NEAR RAW MILL**
Duration of Sampling	:	01.05.2024 TO 01.05.2024
Time of Sampling	:	08:50 AM TO 04:50 PM
Sample Done By	:	VGL STAFF
Packing Condition	:	SEALED
Environmental Condition	:	TEMP.(^{0}C)- 25.3 & RH (%)- 57.0
Method of Sampling	:	IS:5182
Sample Receiving Date	:	04.05.2024
Sample Processing Date	:	05.05.2024 TO 10.05.2024
Equipment Used	:	HIGH VALUME SAMPLER

TEST RESULTS

SL. NO.	PARAMETERS	TEST METHOD	RESULTS	UNIT	SPECIFICATION / LIMIT (AS PER CPCB)
1	Suspended Particulate Matter (SPM)	IS 5182 (Part-4)	290.2	µg/m3	600

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

Review By:

Dr. Ashok Kumar
Technical Manager

Authorized Signatory

Virat Global Lab
Authorised Signatory

D. K. Yadav
Lab In-charge

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

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TEST REPORT CODE: VGL/FE/24/05/17/N-004 TEST REPORT ISSUE DATE: 10.05.2024

TEST REPORT (FUGITIVE EMISSION)

Name & Address of Customer	:	**M/s. J K CEMENT WORKS, PANNA,** **(A UNIT OF JK CEMENT LIMITED.)** VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ, DISTT. - PANNA, (M.P)
Sampling Location	:	**NEAR COAL MILL**
Duration of Sampling	:	02.05.2024 TO 02.05.2024
Time of Sampling	:	09:00 AM TO 05:00 PM
Sample Done By	:	VGL STAFF
Packing Condition	:	SEALED
Environmental Condition	:	TEMP.(^{0}C)- 25.3 & RH (%)- 57.0
Method of Sampling	:	IS:5182
Sample Receiving Date	:	04.05.2024
Sample Processing Date	:	05.05.2024 TO 10.05.2024
Equipment Used	:	HIGH VALUME SAMPLER

TEST RESULTS

SL. NO.	PARAMETERS	TEST METHOD	RESULTS	UNIT	SPECIFICATION / LIMIT (AS PER CPCB)
1	Suspended Particulate Matter (SPM)	IS 5182 (Part-4)	263.9	µg/m3	600

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

Review By:

Dr. Ashok Kumar
Technical Manager

Virat Global Lab
Authorized Signatory
Authorized Signatory

D. K. Yadav
Lab In-charge

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TEST REPORT CODE: VGL/FE/24/05/17/N-005 TEST REPORT ISSUE DATE: 10.05.2024

TEST REPORT (FUGITIVE EMISSION)

Name & Address of Customer	:	**M/s. J K CEMENT WORKS, PANNA,** **(A UNIT OF JK CEMENT LIMITED.)** VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ, DISTT. - PANNA, (M.P)
Sampling Location	:	**NEAR CEMENT MILL**
Duration of Sampling	:	02.05.2024 TO 02.05.2024
Time of Sampling	:	05:00 PM TO 01:00 AM
Sample Done By	:	VGL STAFF
Packing Condition	:	SEALED
Environmental Condition	:	TEMP.(^{0}C)- 25.3 & RH (%)- 57.0
Method of Sampling	:	IS:5182
Sample Receiving Date	:	04.05.2024
Sample Processing Date	:	05.05.2024 TO 10.05.2024
Equipment Used	:	HIGH VALUME SAMPLER

TEST RESULTS

SL. NO.	PARAMETERS	TEST METHOD	RESULTS	UNIT	SPECIFICATION / LIMIT (AS PER CPCB)
1	Suspended Particulate Matter (SPM)	IS 5182 (Part-4)	274.1	µg/m3	600

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Review By:

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Technical Manager

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TEST REPORT CODE: VGL/FE/24/05/17/N-006 TEST REPORT ISSUE DATE: 10.05.2024

TEST REPORT (FUGITIVE EMISSION)

Name & Address of Customer	:	**M/s. J K CEMENT WORKS, PANNA,** **(A UNIT OF JK CEMENT LIMITED.)** VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ, DISTT. - PANNA, (M.P)
Sampling Location	:	**NEAR CLINKER SILO**
Duration of Sampling	:	03.05.2024 TO 03.05.2024
Time of Sampling	:	05:20 PM TO 01:20 AM
Sample Done By	:	VGL STAFF
Packing Condition	:	SEALED
Environmental Condition	:	TEMP.(^{0}C)- 25.3 & RH (%)- 57.0
Method of Sampling	:	IS:5182
Sample Receiving Date	:	04.05.2024
Sample Processing Date	:	05.05.2024 TO 10.05.2024
Equipment Used	:	HIGH VALUME SAMPLER

TEST RESULTS

SL. NO.	PARAMETERS	TEST METHOD	RESULTS	UNIT	SPECIFICATION / LIMIT (AS PER CPCB)
1	Suspended Particulate Matter (SPM)	IS 5182 (Part-4)	296.5	µg/m3	600

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Review By:

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Technical Manager

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TEST REPORT CODE: VGL/FE/24/05/17/N-007 TEST REPORT ISSUE DATE: 10.05.2024

TEST REPORT (FUGITIVE EMISSION)

Name & Address of Customer	:	**M/s. J K CEMENT WORKS, PANNA,** **(A UNIT OF JK CEMENT LIMITED.)** VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ, DISTT. - PANNA, (M.P)
Sampling Location	:	**NEAR COAL SHED**
Duration of Sampling	:	03.05.2024 TO 03.05.2024
Time of Sampling	:	05:50 PM TO 01:50 AM
Sample Done By	:	VGL STAFF
Packing Condition	:	SEALED
Environmental Condition	:	TEMP.(^{0}C)- 25.3 & RH (%)- 57.0
Method of Sampling	:	IS:5182
Sample Receiving Date	:	04.05.2024
Sample Processing Date	:	05.05.2024 TO 10.05.2024
Equipment Used	:	HIGH VALUME SAMPLER

TEST RESULTS

SL. NO.	PARAMETERS	TEST METHOD	RESULTS	UNIT	SPECIFICATION / LIMIT (AS PER CPCB)
1	Suspended Particulate Matter (SPM)	IS 5182 (Part-4)	270.8	µg/m3	600

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Review By:

Dr. Ashok Kumar
Technical Manager

Virat Global Lab
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TEST REPORT CODE: VGL/FE/24/05/17/N-008 TEST REPORT ISSUE DATE: 10.05.2024

TEST REPORT (FUGITIVE EMISSION)

Name & Address of Customer	:	**M/s. J K CEMENT WORKS, PANNA,** **(A UNIT OF JK CEMENT LIMITED.)** VILLAGE-HARDUWAKEN, TEHSIL- AMANGANJ, DISTT. - PANNA, (M.P)
Sampling Location	:	**NEAR LIME STONE SHED**
Duration of Sampling	:	03.05.2024 TO 03.05.2024
Time of Sampling	:	06:00 PM TO 02:00 AM
Sample Done By	:	VGL STAFF
Packing Condition	:	SEALED
Environmental Condition	:	TEMP.(^{0}C)- 25.3 & RH (%)- 57.0
Method of Sampling	:	IS:5182
Sample Receiving Date	:	04.05.2024
Sample Processing Date	:	05.05.2024 TO 10.05.2024
Equipment Used	:	HIGH VALUME SAMPLER

TEST RESULTS

SL. NO.	PARAMETERS	TEST METHOD	RESULTS	UNIT	SPECIFICATION / LIMIT (AS PER CPCB)
1	Suspended Particulate Matter (SPM)	IS 5182 (Part-4)	301.5	µg/m3	600

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

Review By:

Dr. Ashok Kumar
Technical Manager

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TEST REPORT

Sample Number:	**VTL/FD/01**	**Report No.:**	**VTL/FD/2409160001**
Name & Address of the Party	**M/s JK Cement Works, Panna (A Unit Of JK Cement Ltd.) Village-Harduwaken Tehsil-Amanganj PIN-488441 Dist-Panna**	**Format No.:**	**7.8 F 02**
		Party Reference No.:	**NIL**
		Report Date:	**25/09/2024**
Sample Description :	**Fugitive Emission Monitoring**	**Period of Analysis:**	**16-25/09/2024**
		Receipt Date	**16/09/2024**

General Information:-

Sampling Location	**: Gypsum Yard Area**
Sample collected by	**: VTL Team**
Sampling Equipment used	**: HVS**
Instrument Code	**: VTL/HVS/01**
Latitude	**: --**
Longitude	**: --**
Meteorological condition during monitoring	**: Clear sky**
Date of Sampling	**: 02/09/2024**
Time of Sampling	**: 07:30 to 15:30 Hrs.**
Ambient Temperature (^{0}C)	**: Min. 28°C, Max. 32°C**
Surrounding Activity	**: Human, Vehicular& Plant Activities**
Method of Sampling	**: IS-5182 & CPCB Guidelines**
Sampling Duration	**: 8 hrs.**
Parameter Required	**: As Per Work Order**

Results

S. No.	Parameter	Protocol	Result	Unit	Limit
1.	Suspended Particulate Matter (SPM)	VTL/STP/02/STP/01	352.0	µg/m3	5000

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

Checked By

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TEST REPORT

Sample Number:	**VTL/FD/02**	**Report No.:**	**VTL/FD/2409160002**
Name & Address of the Party	**M/s JK Cement Works, Panna (A Unit Of JK Cement Ltd.) Village-Harduwaken Tehsil-Amanganj PIN-488441 Dist-Panna**	**Format No.:**	**7.8 F 02**
		Party Reference No.:	**NIL**
		Report Date:	**25/09/2024**
Sample Description :	**Fugitive Emission Monitoring**	**Period of Analysis:**	**16-25/09/2024**
		Receipt Date	**16/09/2024**

General Information:-

Sampling Location	**: Packing Plant Area**
Sample collected by	**: VTL Team**
Sampling Equipment used	**: HVS**
Instrument Code	**: VTL/HVS/01**
Latitude	**: --**
Longitude	**: --**
Meteorological condition during monitoring	**: Clear sky**
Date of Sampling	**: 02-03/09/2024**
Time of Sampling	**: 18:00 to 02:00 Hrs.**
Ambient Temperature (^{0}C)	**: Min. 25°C, Max. 28°C**
Surrounding Activity	**: Human, Vehicular& Plant Activities**
Method of Sampling	**: IS-5182 & CPCB Guidelines**
Sampling Duration	**: 8 hrs.**
Parameter Required	**: As Per Work Order**

Results

S. No.	Parameter	Protocol	Result	Unit	Limit
1.	Suspended Particulate Matter (SPM)	VTL/STP/02/STP/01	389.0	µg/m3	5000

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

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TEST REPORT

Sample Number:	**VTL/FD/03**	**Report No.:**	**VTL/FD/2409160003**
Name & Address of the Party	**M/s JK Cement Works, Panna (A Unit Of JK Cement Ltd.) Village-Harduwaken Tehsil-Amanganj PIN-488441 Dist-Panna**	**Format No.:**	**7.8 F 02**
		Party Reference No.:	**NIL**
		Report Date:	**25/09/2024**
Sample Description :	**Fugitive Emission Monitoring**	**Period of Analysis:**	**16-25/09/2024**
		Receipt Date	**16/09/2024**

General Information:-

Sampling Location	**: Raw Mill Area**
Sample collected by	**: VTL Team**
Sampling Equipment used	**: HVS**
Instrument Code	**: VTL/HVS/01**
Latitude	**: --**
Longitude	**: --**
Meteorological condition during monitoring	**: Clear sky**
Date of Sampling	**: 03/09/2024**
Time of Sampling	**: 07:30 to 15:30 Hrs.**
Ambient Temperature (^{0}C)	**: Min. 29°C, Max. 33°C**
Surrounding Activity	**: Human, Vehicular& Plant Activities**
Method of Sampling	**: IS-5182 & CPCB Guidelines**
Sampling Duration	**: 8 hrs.**
Parameter Required	**: As Per Work Order**

Results

S. No.	Parameter	Protocol	Result	Unit	Limit
1.	Suspended Particulate Matter (SPM)	VTL/STP/02/STP/01	345.0	µg/m3	5000

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

Checked By

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TEST REPORT

Sample Number:	**VTL/FD/04**	**Report No.:**	**VTL/FD/2409160004**
Name & Address of the Party	**M/s JK Cement Works, Panna (A Unit Of JK Cement Ltd.) Village-Harduwaken Tehsil-Amanganj PIN-488441 Dist-Panna**	**Format No.:**	**7.8 F 02**
		Party Reference No.:	**NIL**
		Report Date:	**25/09/2024**
Sample Description :	**Fugitive Emission Monitoring**	**Period of Analysis:**	**16-25/09/2024**
		Receipt Date	**16/09/2024**

General Information:-

Sampling Location	**: Coal Mill Area**
Sample collected by	**: VTL Team**
Sampling Equipment used	**: HVS**
Instrument Code	**: VTL/HVS/01**
Latitude	**: --**
Longitude	**: --**
Meteorological condition during monitoring	**: Clear sky**
Date of Sampling	**: 03-04/09/2024**
Time of Sampling	**: 18:00 to 02:00 Hrs.**
Ambient Temperature (^{0}C)	**: Min. 24°C, Max. 29°C**
Surrounding Activity	**: Human, Vehicular& Plant Activities**
Method of Sampling	**: IS-5182 & CPCB Guidelines**
Sampling Duration	**: 8 hrs.**
Parameter Required	**: As Per Work Order**

Results

S. No.	Parameter	Protocol	Result	Unit	Limit
1.	Suspended Particulate Matter (SPM)	VTL/STP/02/STP/01	415.0	µg/m3	2000

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TEST REPORT

Sample Number:	VTL/FD/05	**Report No.:**	VTL/FD/2409160005
Name & Address of the Party	M/s JK Cement Works, Panna (A Unit Of JK Cement Ltd.) Village-Harduwaken Tehsil-Amanganj PIN-488441 Dist-Panna	**Format No.:**	7.8 F 02
		Party Reference No.:	NIL
		Report Date:	25/09/2024
Sample Description :	Fugitive Emission Monitoring	**Period of Analysis:**	16-25/09/2024
		Receipt Date	16/09/2024

General Information:-

Sampling Location	: Cement Mill Area
Sample collected by	: VTL Team
Sampling Equipment used	: HVS
Instrument Code	: VTL/HVS/01
Latitude	: --
Longitude	: --
Meteorological condition during monitoring	: Clear sky
Date of Sampling	: 04/09/2024
Time of Sampling	: 07:30 to 15:30 Hrs.
Ambient Temperature (^{0}C)	: Min. 28°C, Max. 35°C
Surrounding Activity	: Human, Vehicular& Plant Activities
Method of Sampling	: IS-5182 & CPCB Guidelines
Sampling Duration	: 8 hrs.
Parameter Required	: As Per Work Order

Results

S. No.	Parameter	Protocol	Result	Unit	Limit
1.	Suspended Particulate Matter (SPM)	VTL/STP/02/STP/01	312.0	µg/m3	5000

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

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TEST REPORT

Sample Number:	**VTL/FD/06**	**Report No.:**	**VTL/FD/2409160006**
Name & Address of the Party	**M/s JK Cement Works, Panna (A Unit Of JK Cement Ltd.) Village-Harduwaken Tehsil-Amanganj PIN-488441 Dist-Panna**	**Format No.:**	**7.8 F 02**
		Party Reference No.:	**NIL**
		Report Date:	**25/09/2024**
Sample Description :	**Fugitive Emission Monitoring**	**Period of Analysis:**	**16-25/09/2024**
		Receipt Date	**16/09/2024**

General Information:-

Sampling Location	**: Clinker Silo Area**
Sample collected by	**: VTL Team**
Sampling Equipment used	**: HVS**
Instrument Code	**: VTL/HVS/01**
Latitude	**: --**
Longitude	**: --**
Meteorological condition during monitoring	**: Clear sky**
Date of Sampling	**: 04-05/09/2024**
Time of Sampling	**: 18:00 to 02:00 Hrs.**
Ambient Temperature (^{0}C)	**: Min. 25°C, Max. 28°C**
Surrounding Activity	**: Human, Vehicular& Plant Activities**
Method of Sampling	**: IS-5182 & CPCB Guidelines**
Sampling Duration	**: 8 hrs.**
Parameter Required	**: As Per Work Order**

Results

S. No.	Parameter	Protocol	Result	Unit	Limit
1.	Suspended Particulate Matter (SPM)	VTL/STP/02/STP/01	389.0	µg/m3	5000

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

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TEST REPORT

Sample Number:	**VTL/FD/07**	**Report No.:**	**VTL/FD/2409160007**
Name & Address of the Party	**M/s JK Cement Works, Panna (A Unit Of JK Cement Ltd.) Village-Harduwaken Tehsil-Amanganj PIN-488441 Dist-Panna**	**Format No.:**	**7.8 F 02**
		Party Reference No.:	**NIL**
		Report Date:	**25/09/2024**
Sample Description :	**Fugitive Emission Monitoring**	**Period of Analysis:**	**16-25/09/2024**
		Receipt Date	**16/09/2024**

General Information:-

Sampling Location	**: Coal shed Area**
Sample collected by	**: VTL Team**
Sampling Equipment used	**: HVS**
Instrument Code	**: VTL/HVS/01**
Latitude	**: --**
Longitude	**: --**
Meteorological condition during monitoring	**: Clear sky**
Date of Sampling	**: 05/09/2024**
Time of Sampling	**: 07:30 to 15:30 Hrs.**
Ambient Temperature (^{0}C)	**: Min. 28°C, Max. 37°C**
Surrounding Activity	**: Human, Vehicular& Plant Activities**
Method of Sampling	**: IS-5182 & CPCB Guidelines**
Sampling Duration	**: 8 hrs.**
Parameter Required	**: As Per Work Order**

Results

S. No.	Parameter	Protocol	Result	Unit	Limit
1.	Suspended Particulate Matter (SPM)	VTL/STP/02/STP/01	548.0	µg/m3	2000

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

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TEST REPORT

Sample Number:	**VTL/FD/08**	**Report No.:**	**VTL/FD/2409160008**
Name & Address of the Party	**M/s JK Cement Works, Panna (A Unit Of JK Cement Ltd.) Village-Harduwaken Tehsil-Amanganj PIN-488441 Dist-Panna**	**Format No.:**	**7.8 F 02**
		Party Reference No.:	**NIL**
		Report Date:	**25/09/2024**
Sample Description :	**Fugitive Emission Monitoring**	**Period of Analysis:**	**16-25/09/2024**
		Receipt Date	**16/09/2024**

General Information:-

Sampling Location	**: Lime Stone Shed Area**
Sample collected by	**: VTL Team**
Sampling Equipment used	**: HVS**
Instrument Code	**: VTL/HVS/01**
Latitude	**: --**
Longitude	**: --**
Meteorological condition during monitoring	**: Clear sky**
Date of Sampling	**: 05-06/09/2024**
Time of Sampling	**: 18:00 to 02:00 Hrs.**
Ambient Temperature (^{0}C)	**: Min. 24°C, Max. 26°C**
Surrounding Activity	**: Human, Vehicular& Plant Activities**
Method of Sampling	**: IS-5182 & CPCB Guidelines**
Sampling Duration	**: 8 hrs.**
Parameter Required	**: As Per Work Order**

Results

S. No.	Parameter	Protocol	Result	Unit	Limit
1.	Suspended Particulate Matter (SPM)	VTL/STP/02/STP/01	326.0	µg/m3	5000

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

Checked By

VIBRANT TECHNO LAB PRIVATE LIMITED JAIPUR

RK Yadav
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TEST REPORT CODE: VGL/W/24/06/17/N-031 TEST REPORT ISSUE DATE: 24.05.2024

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	:	13.05.2024 05:00 PM
Sample Collected by	:	VGL STAFF
Environmental Condition (Temp. & RH)	:	25.5 °C & 58%
Sample Packing	:	SEALED
Sample Id No.	:	031
Laboratory Sample Receiving Date	:	17.05.2024
Duration of Sample Analysis	:	18.05.2024 TO 24.05.2024
Method of Sampling	:	APHA 1060B & 9060A

TEST RESULTS

Sr. No.	Parameters	Test Method	Result	Unit	Limit as per IS 10500:1991 (Reaff:2012)	
					Desirable	Permissible
1.	pH at 25 °C	APHA 4500H+A+B	7.24	-	6.5-8.5	No relaxation
2.	Temperature	APHA 2550-A+B	25.9	°C	Not Specified	Not Specified
3.	Colour	APHA 2120-B	<5.0	Hazen	5	15
4.	Turbidity	APHA 2130-A+B	<1.0	NTU	1	5
5.	Odour	APHA 2150-B	Agreeable	-	Agreeable	Agreeable
6.	Alkalinity	APHA 2320-A+ B	152.0	mg/L	200	600
7.	Total Dissolved Solids	APHA2540-C	456.0	mg/L	500	2000
8.	Total Hardness	APHA 2340 A+C	188.0	mg/L	200	600
9.	Calcium	APHA 3500 Ca- A+B	40.1	mg/L	75	200
10.	Magnesium	APHA 3500 Mg A+B	21.4	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	31.4	mg/L	200	400
14.	Potassium	APHA 3500 K, A+B	9.0	mg/L	-	-

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Review By:
Dr. Ashok Kumar
Technical Manager

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

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TEST REPORT CODE: VGL/W/24/06/17/N-031 TEST REPORT ISSUE DATE: 24.05.2024

TEST REPORT (WATER)
PART – A (CHEMICAL)

TEST RESULTS

15.	Nitrate	APHA 4500-NO3- B	8.2	mg/L	45.0	-
16.	Free Residual Chlorine	APHA 4500-Cl B	<0.2	mg/L	0.2	1.0
17.	Chloride	APHA 4500 Cl A+B	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	0.19	mg/L	0.3	No relaxation
22.	Lead	APHA 3111 A+B	BDL	mg/L	0.01	No relaxation
23.	Nickel	APHA 3111 A+B	BDL	mg/L	0.02	No relaxation
24.	Zinc	APHA 3111 A+B	BDL	mg/L	5	15
25.	Fluoride	APHA 4500-C	0.55	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	685	µS/cm	No relaxation	No relaxation

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TEST REPORT CODE: VGL/W/24/06/17/N-031 TEST REPORT ISSUE DATE: 24.05.2024

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	

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

Review By:

Dr. Ashok Kumar
Technical Manager

Virat Global Lab
Authorized Signatory
Authorised Signatory

Sayeed Ahmad
Quality Manager

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An Analytical Laboratory

Recognized by MoEF & CC, Accredited by ISO/IEC-17025:2017 (NABL)

(An ISO 9001:2015, 14001:2015 & 45001:2018 Certified Company)

TEST REPORT CODE: VGL/W/24/06/17/N-032 TEST REPORT ISSUE DATE: 24.05.2024

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	:	15.05.2024 09:30 AM
Sample Collected by	:	VGL STAFF
Environmental Condition (Temp. & RH)	:	25.0 ^{0}C & 57%
Sample Packing	:	SEALED
Sample Id No.	:	032
Laboratory Sample Receiving Date	:	17.05.2024
Duration of Sample Analysis	:	18.05.2024 TO 24.05.2024
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 ^{0}C	APHA 4500H+A+B	7.74	-	6.5-8.5	No relaxation
2.	Temperature	APHA 2550-A+B	25.4	^{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	152.0	mg/L	200	600
7.	Total Dissolved Solids	APHA2540-C	396.0	mg/L	500	2000
8.	Total Hardness	APHA 2340 A+C	144.0	mg/L	200	600
9.	Calcium	APHA 3500 Ca- A+B	28.0	mg/L	75	200
10.	Magnesium	APHA 3500 Mg A+B	18.0	mg/L	30	100
11.	Sodium	APHA 3500 Na, A+B	18.0	mg/L	-	-
12.	Phosphate	APHA 4500-PD	BDL	mg/L	-	-
13.	Sulfate	APHA 4500-SO42- E	22.5	mg/L	200	400
14.	Potassium	APHA 3500 K, A+B	9.0	mg/L	-	-

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Review By:

Dr. Ashok Kumar
Technical Manager

Virat Global Lab
Authorized Signatory

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D. K. Yadav
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TEST REPORT CODE: VGL/W/24/06/17/N-032 TEST REPORT ISSUE DATE: 24.05.2024

TEST REPORT (WATER)
PART – A (CHEMICAL)

TEST RESULTS

15.	Nitrate	APHA 4500-NO3- B	7.2	mg/L	45.0	-
16.	Free Residual Chlorine	APHA 4500-Cl B	<0.2	mg/L	0.2	1.0
17.	Chloride	APHA 4500 Cl A+B	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	0.21	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	0.36	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	612	µS/cm	No relaxation	No relaxation

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TEST REPORT CODE: VGL/W/24/06/17/N-032 TEST REPORT ISSUE DATE: 24.05.2024

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	

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Technical Manager

Virat Global Lab
Authorized Signatory

Authorised Signatory

Sayeed Ahmad
Quality Manager

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TEST REPORT CODE: VGL/W/24/06/17/N-033 TEST REPORT ISSUE DATE: 24.05.2024

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	:	15.05.2024 09:30 AM
Sample Collected by	:	VGL STAFF
Environmental Condition (Temp. & RH)	:	25.0 °C & 57%
Sample Packing	:	SEALED
Sample Id No.	:	033
Laboratory Sample Receiving Date	:	17.05.2024
Duration of Sample Analysis	:	18.05.2024 TO 24.05.2024
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	7.31	-	6.5-8.5	No relaxation
2.	Temperature	APHA 2550-A+B	26.0	°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	152.0	mg/L	200	600
7.	Total Dissolved Solids	APHA2540-C	405.0	mg/L	500	2000
8.	Total Hardness	APHA 2340 A+C	160.0	mg/L	200	600
9.	Calcium	APHA 3500 Ca- A+B	32.2	mg/L	75	200
10.	Magnesium	APHA 3500 Mg A+B	19.3	mg/L	30	100
11.	Sodium	APHA 3500 Na, A+B	16.0	mg/L	-	-
12.	Phosphate	APHA 4500-PD	BDL	mg/L	-	-
13.	Sulfate	APHA 4500-SO42- E	25.4	mg/L	200	400
14.	Potassium	APHA 3500 K, A+B	8.0	mg/L	-	-

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Review By:

Dr. Ashok Kumar
Technical Manager

Virat Global Lab
Authorized Signatory

Authorised Signatory
D. K. Yadav
Lab In-charge

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TEST REPORT CODE: VGL/W/24/06/17/N-033 TEST REPORT ISSUE DATE: 24.05.2024

TEST REPORT (WATER)
PART – A (CHEMICAL)

TEST RESULTS

15.	Nitrate	APHA 4500-NO3- B	8.2	mg/L	45.0	-
16.	Free Residual Chlorine	APHA 4500-Cl B	<0.2	mg/L	0.2	1.0
17.	Chloride	APHA 4500 Cl A+B	36.0	mg/L	250	1000
18.	Boron	APHA 4500 B A+C	BDL	mg/L	0.5	1.0
19.	Copper	APHA 3111 A+B	BDL	mg/L	0.05	1.5
20.	Cadmium	APHA 3111 A+B	BDL	mg/L	0.003	No relaxation
21.	Iron	APHA 3500 Fe B	0.19	mg/L	0.3	No relaxation
22.	Lead	APHA 3111 A+B	BDL	mg/L	0.01	No relaxation
23.	Nickel	APHA 3111 A+B	BDL	mg/L	0.02	No relaxation
24.	Zinc	APHA 3111 A+B	BDL	mg/L	5	15
25.	Fluoride	APHA 4500-C	0.58	mg/L	1.0	1.5
26.	Hexavalent Chromium	APHA 3500 B	ND	mg/L	0.001	No relaxation
27.	Electrical Conductivity	APHA 2510 B	638	µS/cm	No relaxation	No relaxation

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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	

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VIRAT GLOBAL LAB Lucknow

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Technical Manager

Virat Global Lab
Authorized Signatory

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Sayeed Ahmad
Quality Manager

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TEST REPORT

VIBRANT
"Experience the unimaginable"

Sample Number:	VTL/ W/02-03	Report No.:	VTL/W/2408300041-42
Name & Address of the Party:	M/s JK Cement Works, Panna (A Unit Of JK Cement Ltd.) Koni-Simariya Limestone Mine Village-Harduwaken Tehsil-Amanganj PIN-488441 Dist-Panna	Format No.:	7.8 F-01
		Party Reference No.:	NIL
		Report Date:	20/09/2024
Sample Description:	Ground Water	Period of Analysis:	30/08/2024 to 20/09/2024
		Receipt Date:	30/08/2024
Sample Collected by:	Vibrant Techno Lab Representative	Sampling Date:	25/08/2024
Preservation:	Suitable Preservation	Sampling Quantity:	2.0Ltr.+ 250 ml
Parameter Required:	As Per Work Order	Sampling Type:	Grab
Sampling and Analysis Protocol:	APHA 24th Edition 2023		

S.No.	Parameters	Test-Method	Near Zero Point	Near HR Office	Unit	Limits of IS:10500-2012	
						Requirement (Acceptable Limits)	Permissible Limit in the Absence of Alternate Source
1.	pH (at 25°C)	IS 3025 (Part 11) : 2022	7.34	7.43	--	6.5 to 8.5	No Relaxation
2.	Colour	IS 3025 (Part 4) : 2021	*BLQ(**LOQ 1.0)	*BLQ(**LOQ 1.0)	Hazen	5	15
3.	Turbidity	IS 3025 (Part 10) : 2023	*BLQ(**LOQ 1.0)	*BLQ(**LOQ 1.0)	NTU	1	5
4.	Odour	IS 3025 (Part 5) : 2018	Agreeable	Agreeable	--	Agreeable	Agreeable
5.	Temperature	IS 3025 (Part 9) : 2023	24.7	25.1	--	--	--
6.	Total Hurdness as $CaCO_3$	IS 3025 (Part 21) : 2009, RA : 2019	195.0	210.0	mg/l	200	600
7.	Calcium as Ca	IS 3025 (Part 40) : 1991, RA : 2019	42.0	51.0	mg/l	75	200
8.	Alkalinity as $CaCO_3$	IS 3025 (Part 23) : 2023	74.0	83.1	mg/l	200	600
9.	Sodium	APHA, 24th Edition, 3500 Na, A+B	60.0	76.0	mg/l	--	--
10.	Residual free Chlorine	IS 3025 (Part 26) : 2021 Clause 7.0	*BLQ(**LOQ 0.2)	*BLQ(**LOQ 0.2)	mg/l	0.2	1
11.	Phosphate	IS 3025 (Part 31)	*BLQ(**LOQ 0.02)	*BLQ(**LOQ 0.02)	mg/l	--	--
12.	Magnesium as Mg	APHA, 24th Edition, 3500 Mg B, Calculation Method	21.92	20.11	mg/l	30	100
13.	Total Dissolved Solids	IS 3025 (Part 16) :2023	510.0	635.0	mg/l	500	2000
14.	Sulphate as SO_4	IS 3025 (Part 24/Sec 1) : 2022 Clause 5.0	31.82	38.94	mg/l	200	400
15.	Fluoride as F	APHA, 24th Edition, 4500F-D : 2023	0.27	0.35	mg/l	1.0	1.5
16.	Nitrate as NO_3	IS 3025 (Part 34/Sec 1) : 2023 Clause 6.4	10.82	14.26	mg/l	45	No Relaxation
17.	Iron as Fe	APHA 24th Edition, 3111 B, 2023	0.17	0.22	mg/l	1.0	No Relaxation
18.	Potassium	APHA 24th Edition, 3500 K, A+B	6.58	9.45	mg/l	--	--
19.	Boron	APHA, 24th Edition, 4500 B-C : 2023	*BLQ(**LOQ 0.2)	*BLQ(**LOQ 0.2)	mg/l	0.5	2.4
20.	Hexavalent Chromium as Cr+6	APHA, 24th Edition, 3500 Cr- B	*BLQ(**LOQ 0.02)	*BLQ(**LOQ 0.02)	mg/l	0.05	No Relaxation
21.	Nickel	APHA, 24th Edition, 3111 B : 2023	*BLQ(**LOQ 0.2)	*BLQ(**LOQ 0.2)	mg/l	0.02	No Relaxation
22.	Electrical Conductivity	IS 3025 (Part 14)	790	990	µs/cm	--	--
23.	Zinc as Zn	APHA, 24th Edition, 3111 B : 2023	*BLQ(**LOQ 0.2)	*BLQ(**LOQ 0.2)	mg/l	5	15
24.	Copper as Cu	APHA, 24th Edition, 3111 B : 2023	*BLQ(**LOQ 0.02)	*BLQ(**LOQ 0.02)	mg/l	0.05	1.5
26.	Cadmium as Cd	APHA, 24th Edition, 3111 B : 2023	*BLQ(**LOQ 0.002)	*BLQ(**LOQ 0.002)	mg/l	0.003	No Relaxation
27.	Lead as Pb	APHA, 24th Edition, 3111 B : 2023	*BLQ(**LOQ 0.005)	*BLQ(**LOQ 0.005)	mg/l	0.01	No Relaxation
28	Total Coliform	IS 15185 : 2016, RA 2021	Absent	Absent	Per 100 ml	Shall not be Detectable in Any 100 ml sample	
29	E. Coli	IS 15185 : 2016, RA 2021	Absent	Absent	Per 100 ml		

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

VIBRANT TECHNO LAB PRIVATE LIMITED JAIPUR

Checked By

RK Yadav
Lab Incharge
Authorized Signatory

Approved & Certified EPA 1986 Recognised, ISO:9001 and OHSAS:45001 Certified

Term & conditions PTO

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Annexure-4

VIBRANT
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TEST REPORT

Sample Number:	VTL/WW/02	**Report No.:**	VTL/WW/2409160002
Name & Address of Party:	M/s JK Cement Works, Panna (A Unit Of JK Cement Ltd.) Village-Harduwaken Tehsil-Amanganj PIN-488441 Dist-Panna	**Format No.:**	7.8 F 01
		Party Reference No.:	NA
		Report Date:	25/09/2024
		Period of Analysis:	16-25/09/2024
Sample Description:	Waste Water	**Receipt Date:**	16/09/2024
Sample Collected by	VTL Team	**Sampling Date:**	10/09/2024
Preservation:	Suitable Preservation	**Sampling Type:**	Grab
Method of Sampling:	APHA 24th Edition	**Sample Quantity:**	2.0 Ltr.
Sample Location:	Guest House STP Outlet		

Test Results

S. No.	Parameter	Test Method	Results	Unit	Limits
1.	pH (at 25 ^{0}C)	IS 3025 (P-11): 2022	7.12	--	6.5 to 9.0
2.	Total Suspended Solids	IS 3025 (P-17): 2022	35.6	mg/l	100
3.	Oil &Grease	IS 3025 (P-39):2021	*BLQ(**LOQ-4.0)	mg/l	10
4.	BOD (3days at 27 °c)	IS 3025(P-44):2023	15.1	mg/l	30
5.	Chemical Oxygen Demand (COD)	IS: 3025 (P-58): 2023	60.5	mg/l	250
6.	Fecal Coliform	APHA 23rd Ed. 9221 C 2023	94	MPN/100 ml	<1000

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

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TEST REPORT

Sample Number:	VTL/WW/03	**Report No.:**	VTL/WW/2409160003
Name & Address of Party:	M/s JK Cement Works, Panna (A Unit Of JK Cement Ltd.) Village-Harduwaken Tehsil-Amanganj PIN-488441 Dist-Panna	**Format No.:**	7.8 F 01
		Party Reference No.:	NA
		Report Date:	25/09/2024
Sample Description:	Waste Water	**Period of Analysis:**	16-25/09/2024
Sample Collected by	VTL Team	**Receipt Date:**	16/09/2024
Preservation:	Suitable Preservation	**Sampling Date:**	10/09/2024
Method of Sampling:	APHA 24th Edition	**Sampling Type:**	Grab
Sample Location:	Guest House STP Inlet	**Sample Quantity:**	2.0 Ltr.

Test Results

S. No.	Parameter	Test Method	Results	Unit
1.	pH (at 25 °C)	IS 3025 (P-11): 2022	6.82	--
2.	Total Suspended Solids	IS 3025 (P-17): 2022	52.10	mg/l
3.	Oil &Grease	IS 3025 (P-39):2021	*BLQ(**LOQ-4.0)	mg/l
4.	BOD (3days at 27 °c)	IS 3025(P-44):2023	32.50	mg/l
5.	Chemical Oxygen Demand (COD)	IS: 3025 (P-58): 2023	128.0	mg/l
6.	Fecal Coliform	APHA 23rd Ed. 9221 C 2023	542	MPN/100 ml

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

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TEST REPORT

Sample Number:	VTL/WW/04	**Report No.:**	VTL/WW/2409160004
Name & Address of Party:	M/s JK Cement Works, Panna (A Unit Of JK Cement Ltd.) Village-Harduwaken Tehsil-Amanganj PIN-488441 Dist-Panna	**Format No.:**	7.8 F 01
		Party Reference No.:	NA
		Report Date:	25/09/2024
		Period of Analysis:	16-25/09/2024
Sample Description:	Waste Water	**Receipt Date:**	16/09/2024
Sample Collected by	VTL Team	**Sampling Date:**	10/09/2024
Preservation:	Suitable Preservation	**Sampling Type:**	Grab
Method of Sampling:	APHA 24th Edition	**Sample Quantity:**	2.0 Ltr.
Sample Location:	Security Barack STP Inlet		

Test Results

S. No.	Parameter	Test Method	Results	Unit
1.	pH (at 25 ^{0}C)	IS 3025 (P-11): 2022	7.19	--
2.	Total Suspended Solids	IS 3025 (P-17): 2022	29.3	mg/l
3.	Oil &Grease	IS 3025 (P-39):2021	*BLQ(**LOQ-4.0)	mg/l
4.	BOD (3days at 27 °c)	IS 3025(P-44):2023	42.0	mg/l
5.	Chemical Oxygen Demand (COD)	IS: 3025 (P-58): 2023	102.0	mg/l
6.	Fecal Coliform	APHA 23rd Ed. 9221 C 2023	348	MPN/100 ml

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

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TEST REPORT

Sample Number:	VTL/WW/05	**Report No.:**	VTL/WW/2409160005
Name & Address of Party:	M/s JK Cement Works, Panna (A Unit Of JK Cement Ltd.) Village-Harduwaken Tehsil-Amanganj PIN-488441 Dist-Panna	**Format No.:**	7.8 F 01
		Party Reference No.:	NA
		Report Date:	25/09/2024
		Period of Analysis:	16-25/09/2024
Sample Description:	Waste Water	**Receipt Date:**	16/09/2024
Sample Collected by	VTL Team	**Sampling Date:**	10/09/2024
Preservation:	Suitable Preservation	**Sampling Type:**	Grab
Method of Sampling:	APHA 24th Edition	**Sample Quantity:**	2.0 Ltr.
Sample Location:	Security Barrack STP Outlet		

Test Results

S. No.	Parameter	Test Method	Results	Unit	Limits
1.	pH (at 25 °C)	IS 3025 (P-11): 2022	7.44	--	6.5 to 9.0
2.	Total Suspended Solids	IS 3025 (P-17): 2022	22.2	mg/l	100
3.	Oil &Grease	IS 3025 (P-39):2021	*BLQ(**LOQ-4.0)	mg/l	10
4.	BOD (3days at 27 °c)	IS 3025(P-44):2023	22.0	mg/l	30
5.	Chemical Oxygen Demand (COD)	IS: 3025 (P-58): 2023	60.0	mg/l	250
6.	Fecal Coliform	APHA 23rd Ed. 9221 C 2023	79	MPN/100 ml	<1000

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

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TEST REPORT

Sample Number:	VTL/WW/06	Report No.:	VTL/WW/2409160006
Name & Address of Party:	M/s JK Cement Works, Panna (A Unit Of JK Cement Ltd.) Village-Harduwaken Tehsil-Amanganj PIN-488441 Dist-Panna	Format No.:	7.8 F 01
		Party Reference No.:	NA
		Report Date:	25/09/2024
		Period of Analysis:	16-25/09/2024
Sample Description:	Waste Water	Receipt Date:	16/09/2024
Sample Collected by	VTL Team	Sampling Date:	10/09/2024
Preservation:	Suitable Preservation	Sampling Type:	Grab
Method of Sampling:	APHA 24th Edition	Sample Quantity:	2.0 Ltr.
Sample Location:	Admin Building STP Inlet		

Test Results

S. No.	Parameter	Test Method	Results	Unit
1.	pH (at 25 ^{0}C)	IS 3025 (P-11): 2022	6.82	--
2.	Total Suspended Solids	IS 3025 (P-17): 2022	41.0	mg/l
3.	Oil &Grease	IS 3025 (P-39):2021	*BLQ(**LOQ-4.0)	mg/l
4.	BOD (3days at 27 °c)	IS 3025(P-44):2023	26.0	mg/l
5.	Chemical Oxygen Demand (COD)	IS: 3025 (P-58): 2023	70.0	mg/l
6.	Fecal Coliform	APHA 23rd Ed. 9221 C 2023	343	MPN/100 ml

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

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TEST REPORT

Sample Number:	VTL/WW/07	**Report No.:**	VTL/WW/2409160007
Name & Address of Party:	M/s JK Cement Works, Panna (A Unit Of JK Cement Ltd.) Village-Harduwaken Tehsil-Amanganj PIN-488441 Dist-Panna	**Format No.:**	7.8 F 01
		Party Reference No.:	NA
		Report Date:	25/09/2024
Sample Description:	Waste Water	**Period of Analysis:**	16-25/09/2024
Sample Collected by	VTL Team	**Receipt Date:**	16/09/2024
Preservation:	Suitable Preservation	**Sampling Date:**	10/09/2024
Method of Sampling:	APHA 24th Edition	**Sampling Type:**	Grab
Sample Location:	Gate Complex STP Inlet	**Sample Quantity:**	2.0 Ltr.

Test Results

S. No.	Parameter	Test Method	Results	Unit
1.	pH (at 25 °C)	IS 3025 (P-11): 2022	6.75	--
2.	Total Suspended Solids	IS 3025 (P-17): 2022	35.0	mg/l
3.	Oil &Grease	IS 3025 (P-39):2021	*BLQ(**LOQ-4.0)	mg/l
4.	BOD (3days at 27 °c)	IS 3025(P-44):2023	35.7	mg/l
5.	Chemical Oxygen Demand (COD)	IS: 3025 (P-58): 2023	82.4	mg/l
6.	Fecal Coliform	APHA 23rd Ed. 9221 C 2023	540	MPN/100 ml

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

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TEST REPORT

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Sample Number:	VTL/WW/08	Report No.:	VTL/WW/2409160008
Name & Address of Party:	M/s JK Cement Works, Panna (A Unit Of JK Cement Ltd.) Village-Harduwaken Tehsil-Amanganj PIN-488441 Dist-Panna	Format No.:	7.8 F 01
		Party Reference No.:	NA
		Report Date:	25/09/2024
Sample Description:	Waste Water	Period of Analysis:	16-25/09/2024
Sample Collected by	VTL Team	Receipt Date:	16/09/2024
Preservation:	Suitable Preservation	Sampling Date:	10/09/2024
Method of Sampling:	APHA 24th Edition	Sampling Type:	Grab
Sample Location:	Admin building STP Outlet	Sample Quantity:	2.0 Ltr.

Test Results

S. No.	Parameter	Test Method	Results	Unit	Limits
1.	pH (at 25 ^{0}C)	IS 3025 (P-11): 2022	7.56	--	6.5 to 9.0
2.	Total Suspended Solids	IS 3025 (P-17): 2022	14.9	mg/l	100
3.	Oil &Grease	IS 3025 (P-39):2021	*BLQ(**LOQ-4.0)	mg/l	10
4.	BOD (3days at 27 °c)	IS 3025(P-44):2023	15.8	mg/l	30
5.	Chemical Oxygen Demand (COD)	IS: 3025 (P-58): 2023	54.6	mg/l	250
6.	Fecal Coliform	APHA 23rd Ed. 9221 C 2023	84	MPN/100 ml	<1000

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

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TEST REPORT

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Sample Number:	VTL/WW/09	**Report No.:**	VTL/WW/2409160009
Name & Address of Party:	M/s JK Cement Works, Panna (A Unit Of JK Cement Ltd.) Village-Harduwaken Tehsil-Amanganj PIN-488441 Dist-Panna	**Format No.:**	7.8 F 01
		Party Reference No.:	NA
		Report Date:	25/09/2024
Sample Description:	Waste Water	**Period of Analysis:**	16-25/09/2024
Sample Collected by	VTL Team	**Receipt Date:**	16/09/2024
Preservation:	Suitable Preservation	**Sampling Date:**	10/09/2024
Method of Sampling:	APHA 24th Edition	**Sampling Type:**	Grab
Sample Location:	Gate Complex STP Outlet	**Sample Quantity:**	2.0 Ltr.

Test Results

S. No.	Parameter	Test Method	Results	Unit	Limits
1.	pH (at 25 ^{0}C)	IS 3025 (P-11): 2022	7.57	--	6.5 to 9.0
2.	Total Suspended Solids	IS 3025 (P-17): 2022	15.9	mg/l	100
3.	Oil &Grease	IS 3025 (P-39):2021	*BLQ(**LOQ-4.0)	mg/l	10
4.	BOD (3days at 27 °c)	IS 3025(P-44):2023	14.9	mg/l	30
5.	Chemical Oxygen Demand (COD)	IS: 3025 (P-58): 2023	50.7	mg/l	250
6.	Fecal Coliform	APHA 23rd Ed. 9221 C 2023	70	MPN/100 ml	<1000

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

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TEST REPORT

Sample Number:	VTL/WW/10	Report No.:	VTL/WW/2409160010
Name & Address of Party:	M/s JK Cement Works, Panna (A Unit Of JK Cement Ltd.) Village-Harduwaken Tehsil-Amanganj PIN-488441 Dist-Panna	Format No.:	7.8 F 01
		Party Reference No.:	NA
		Report Date:	25/09/2024
Sample Description:	Waste Water	Period of Analysis:	16-25/09/2024
Sample Collected by	VTL Team	Receipt Date:	16/09/2024
Preservation:	Suitable Preservation	Sampling Date:	10/09/2024
Method of Sampling:	APHA 24th Edition	Sampling Type:	Grab
Sample Location:	CCR STP Outlet	Sample Quantity:	2.0 Ltr.

Test Results

S. No.	Parameter	Test Method	Results	Unit	Limits
1.	pH (at 25 ^{0}C)	IS 3025 (P-11): 2022	7.63	--	6.5 to 9.0
2.	Total Suspended Solids	IS 3025 (P-17): 2022	16.3	mg/l	100
3.	Oil &Grease	IS 3025 (P-39):2021	*BLQ(**LOQ-4.0)	mg/l	10
4.	BOD (3days at 27 °c)	IS 3025(P-44):2023	14.9	mg/l	30
5.	Chemical Oxygen Demand (COD)	IS: 3025 (P-58): 2023	49.8	mg/l	250
6.	Fecal Coliform	APHA 23rd Ed. 9221 C 2023	63	MPN/100 ml	<1000

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

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TEST REPORT

Sample Number:	VTL/WW/11	**Report No.:**	VTL/WW/2409160011
Name & Address of Party:	M/s JK Cement Works, Panna (A Unit Of JK Cement Ltd.) Village-Harduwaken Tehsil-Amanganj PIN-488441 Dist-Panna	**Format No.:**	7.8 F 01
		Party Reference No.:	NA
		Report Date:	25/09/2024
Sample Description:	Waste Water	**Period of Analysis:**	16-25/09/2024
Sample Collected by	VTL Team	**Receipt Date:**	16/09/2024
Preservation:	Suitable Preservation	**Sampling Date:**	10/09/2024
Method of Sampling:	APHA 24th Edition	**Sampling Type:**	Grab
Sample Location:	CCR STP Inlet	**Sample Quantity:**	2.0 Ltr.

Test Results

S. No.	Parameter	Test Method	Results	Unit
1.	pH (at 25 ^{0}C)	IS 3025 (P-11): 2022	6.98	--
2.	Total Suspended Solids	IS 3025 (P-17): 2022	46.4	mg/l
3.	Oil &Grease	IS 3025 (P-39):2021	*BLQ(**LOQ-4.0)	mg/l
4.	BOD (3days at 27 °c)	IS 3025(P-44):2023	32.0	mg/l
5.	Chemical Oxygen Demand (COD)	IS: 3025 (P-58): 2023	79.0	mg/l
6.	Fecal Coliform	APHA 23rd Ed. 9221 C 2023	350	MPN/100 ml

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

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TEST REPORT

Sample Number:	VTL/WW/12	**Report No.:**	VTL/WW/2409160012
Name & Address of Party:	M/s JK Cement Works, Panna (A Unit Of JK Cement Ltd.) Village-Harduwaken Tehsil-Amanganj PIN-488441 Dist-Panna	**Format No.:**	7.8 F 01
		Party Reference No.:	NA
		Report Date:	25/09/2024
Sample Description:	Waste Water	**Period of Analysis:**	16-25/09/2024
Sample Collected by	VTL Team	**Receipt Date:**	16/09/2024
Preservation:	Suitable Preservation	**Sampling Date:**	10/09/2024
Method of Sampling:	APHA 24th Edition	**Sampling Type:**	Grab
Sample Location:	Labour Colony STP Outlet	**Sample Quantity:**	2.0 Ltr.

Test Results

S. No.	Parameter	Test Method	Results	Unit	Limits
1.	pH (at 25 ^{0}C)	IS 3025 (P-11): 2022	7.61	--	6.5 to 9.0
2.	Total Suspended Solids	IS 3025 (P-17): 2022	39.0	mg/l	100
3.	Oil &Grease	IS 3025 (P-39):2021	*BLQ(**LOQ-4.0)	mg/l	10
4.	BOD (3days at 27 °c)	IS 3025(P-44):2023	23.8	mg/l	30
5.	Chemical Oxygen Demand (COD)	IS: 3025 (P-58): 2023	74.0	mg/l	250
6.	Fecal Coliform	APHA 23rd Ed. 9221 C 2023	63	MPN/100 ml	<1000

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

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Sample Number:	VTL/WW/13	**Report No.:**	VTL/WW/2409160013
Name & Address of Party:	M/s JK Cement Works, Panna (A Unit Of JK Cement Ltd.) Village-Harduwaken Tehsil-Amanganj PIN-488441 Dist-Panna	**Format No.:**	7.8 F 01
		Party Reference No.:	NA
		Report Date:	25/09/2024
Sample Description:	Waste Water	**Period of Analysis:**	16-25/09/2024
Sample Collected by	VTL Team	**Receipt Date:**	16/09/2024
Preservation:	Suitable Preservation	**Sampling Date:**	10/09/2024
Method of Sampling:	APHA 24th Edition	**Sampling Type:**	Grab
Sample Location:	Labour Colony STP Inlet	**Sample Quantity:**	2.0 Ltr.

Test Results

S. No.	Parameter	Test Method	Results	Unit
1.	pH (at 25 ^{0}C)	IS 3025 (P-11): 2022	6.42	--
2.	Total Suspended Solids	IS 3025 (P-17): 2022	62.6	mg/l
3.	Oil &Grease	IS 3025 (P-39):2021	*BLQ(**LOQ-4.0)	mg/l
4.	BOD (3days at 27 °c)	IS 3025(P-44):2023	45.0	mg/l
5.	Chemical Oxygen Demand (COD)	IS: 3025 (P-58): 2023	130.0	mg/l
6.	Fecal Coliform	APHA 23rd Ed. 9221 C 2023	240	MPN/100 ml

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

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Sample Number:	VTL/WW/14	**Report No.:**	VTL/WW/2409160014
Name & Address of Party:	M/s JK Cement Works, Panna (A Unit Of JK Cement Ltd.) Village-Harduwaken Tehsil-Amanganj PIN-488441 Dist-Panna	**Format No.:**	7.8 F 01
		Party Reference No.:	NA
		Report Date:	25/09/2024
Sample Description:	Waste Water	**Period of Analysis:**	16-25/09/2024
Sample Collected by	VTL Team	**Receipt Date:**	16/09/2024
Preservation:	Suitable Preservation	**Sampling Date:**	10/09/2024
Method of Sampling:	APHA 24th Edition	**Sampling Type:**	Grab
Sample Location:	Project office STP Inlet	**Sample Quantity:**	2.0 Ltr.

Test Results

S. No.	Parameter	Test Method	Results	Unit
1.	pH (at 25 °C)	IS 3025 (P-11): 2022	6.82	--
2.	Total Suspended Solids	IS 3025 (P-17): 2022	32.2	mg/l
3.	Oil &Grease	IS 3025 (P-39):2021	*BLQ(**LOQ-4.0)	mg/l
4.	BOD (3days at 27 °c)	IS 3025(P-44):2023	41.6	mg/l
5.	Chemical Oxygen Demand (COD)	IS: 3025 (P-58): 2023	73.4	mg/l
6.	Fecal Coliform	APHA 23rd Ed. 9221 C 2023	49	MPN/100 ml

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

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SC-40, 3rd Floor, Narayan Vihar S, Ajmer Road, Jaipur Raj. 302020
9929108691, 9810205356, 8005707098, 9549956601
0141-2954638
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www.vibranttechnolab.com

TEST REPORT

VIBRANT
"Experience the unimaginable"

Sample Number:	VTL/WW/15	**Report No.:**	VTL/WW/2409160015
Name & Address of Party:	M/s JK Cement Works, Panna (A Unit Of JK Cement Ltd.) Village-Harduwaken Tehsil-Amanganj PIN-488441 Dist-Panna	**Format No.:**	7.8 F 01
		Party Reference No.:	NA
		Report Date:	25/09/2024
Sample Description:	Waste Water	**Period of Analysis:**	16-25/09/2024
Sample Collected by	VTL Team	**Receipt Date:**	16/09/2024
Preservation:	Suitable Preservation	**Sampling Date:**	10/09/2024
Method of Sampling:	APHA 24th Edition	**Sampling Type:**	Grab
Sample Location:	Project office STP Outlet	**Sample Quantity:**	2.0 Ltr.

Test Results

S. No.	Parameter	Test Method	Results	Unit	Limits
1.	pH (at 25 ^{0}C)	IS 3025 (P-11): 2022	7.29	--	6.5 to 9.0
2.	Total Suspended Solids	IS 3025 (P-17): 2022	14.3	mg/l	100
3.	Oil &Grease	IS 3025 (P-39):2021	*BLQ(**LOQ-4.0)	mg/l	10
4.	BOD (3days at 27 °c)	IS 3025(P-44):2023	19.8	mg/l	30
5.	Chemical Oxygen Demand (COD)	IS: 3025 (P-58): 2023	50.4	mg/l	250
6.	Fecal Coliform	APHA 23rd Ed. 9221 C 2023	58	MPN/100 ml	<1000

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

VIBRANT TECHNO LAB PRIVATE LIMITED JAIPUR

Checked By

RK Yadav
Lab Incharge
Authorized Signatory

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Annexure-6

JK Cement Limited, Panna

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 expansive 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

स्वच्छपेठ — स्थायी लोक अदालत लोकउपयोगी सेवा आ.क्र. 12/2019

चन्द्रबदन तिवारी — आवेदक

विरुद्ध

बीरेन्द्र राय एवं अन्य — अनावेदकगण

Annexure-7

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	आवेदक चन्द्रबदन तिवारी उपस्थिति। अनावेदक कमांक 01 व 02 अनुपस्थित। अनावेदक कमांक 03 व 04 की ओर से श्री मृणाल सिंह उपस्थित। अनावेदक कमांक 05 की ओर से श्री आर.के. निगम अधिवक्ता उपस्थित। इस अधिनिर्णय द्वारा आवेदन पत्र एवं अंतिरिम आवेदन पत्रों का निराकरण किया जा रहा है। आवेदन पत्र सक्षेप में इस प्रकार है कि सीमेन्ट प्लान्ट 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। अनावेदक कमांक 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 कार्यावाही पूर्ण की गयी हैं। आवेदक के आरोप सत्य नहीं है। अनावेदक कमांक 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	

	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 है। 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 रूपये 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 कमांक 05 की ओर से जवाब संक्षेप मे इस प्रकार है कि लोक सुनवाई दिनांक 17.07.2019 को ग्राम पंचायत देवरा मे 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 अंतिरिम 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 कमांक 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 नही 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 जावें।

अनावेदक क्रमांक 05 की ओर से जवाब संक्षेप में इस प्रकार है कि आवेदन पत्र कें 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 है एवं अनावेदकगण की ओर से मौखिक तर्क प्रस्तुत किये गये है। आवेदक ने यह लिखित तर्क किया है कि उक्त विबाद 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 निम्नाकिंत लोकोपयोगी सेवाएं निहित है–

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 डिस्पेसंरी में सेवा या
6. बीमा सेवा या
7. आवासीय और संपदा या
8. बैंकिग एवं वित्त

आवेदन पत्र के तथ्यों से यह प्रकट है कि आवेदक लोक जन सुनवाई दिनांक 17.07.2019 की कार्यवाही को विधिसंगत न बताते हुए उक्त कार्यवाही को निरस्त कराना चाहता है और भारत सरकार के पर्यावरण वन मंत्रलाय 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 सें उत्पन्न <u>विवाद/मामलों</u> 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 <u>विवाद/मामला</u> 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/-	सही/-	सही/-
(सदस्य)	**(सदस्य)**	**(अध्यक्ष)**
स्थाई लोक अदालत	स्थाई लोक अदालत	स्थाई लोक अदालत
लोक उपयोगी सेवा	लोक उपयोगी सेवा	लोक उपयोगी सेवा

सत्य प्रतिलिपि

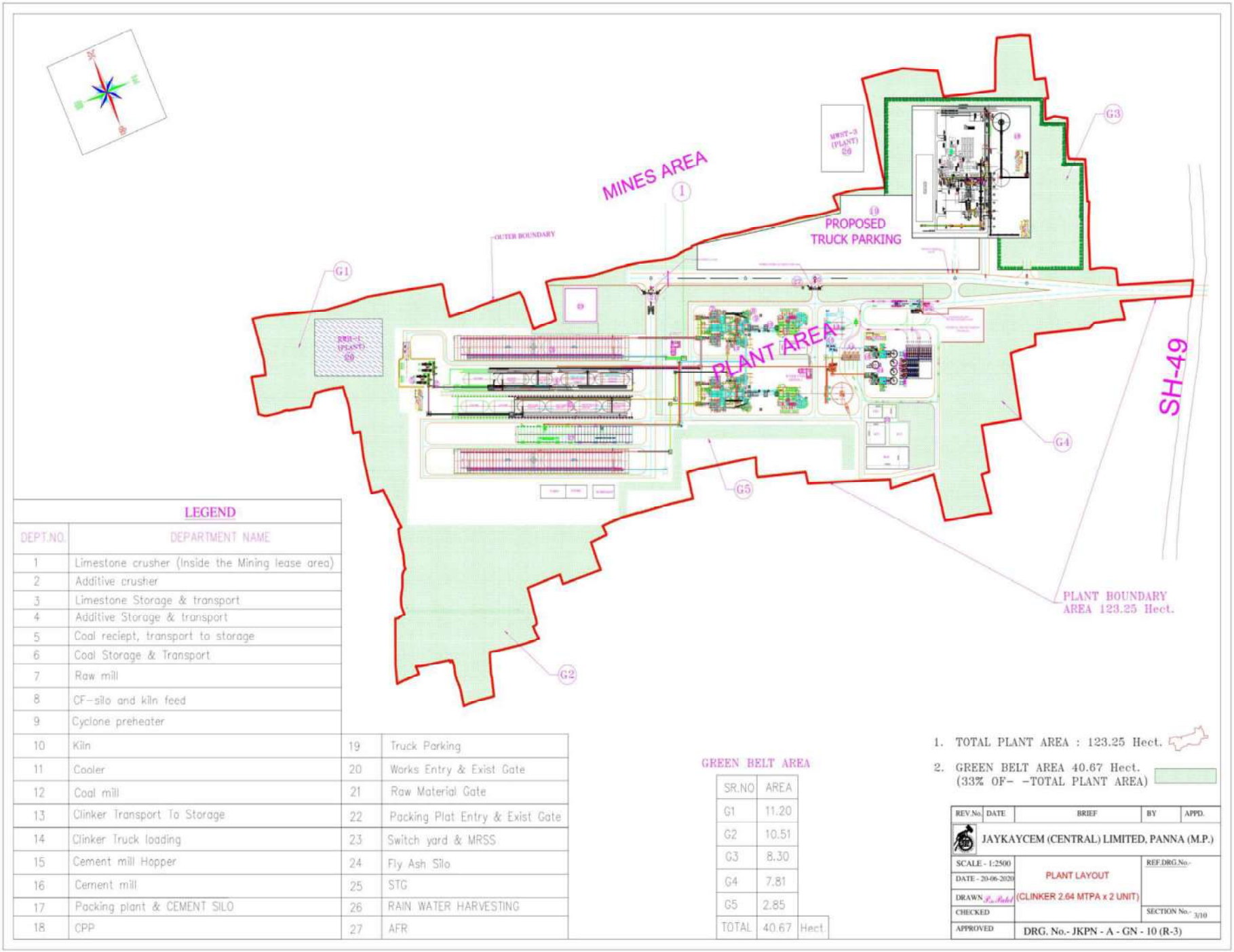
5/12/2020

अध्यक्ष
लोकोपयोगी सेवाएं
पन्ना (म.प्र.)

Jaykaycem (Central) Limited, Tehsil: Amanganj, District: Panna (MP)

Revised Plant Layout as per EC Conditions

Annexure-8



LEGEND			
DEPT.NO.	DEPARTMENT NAME		
1	Limestone crusher (Inside the Mining lease area)		
2	Additive crusher		
3	Limestone Storage & transport		
4	Additive Storage & transport		
5	Coal reciept, transport to storage		
6	Coal Storage & Transport		
7	Raw mill		
8	CF-silo and kiln feed		
9	Cyclone preheater		
10	Kiln	19	Truck Parking
11	Cooler	20	Works Entry & Exist Gate
12	Coal mill	21	Raw Material Gate
13	Clinker Transport To Storage	22	Packing Plat Entry & Exist Gate
14	Clinker Truck loading	23	Switch yard & MRSS
15	Cement mill Hopper	24	Fly Ash Silo
16	Cement mill	25	STG
17	Packing plant & CEMENT SILO	26	RAIN WATER HARVESTING
18	CPP	27	AFR

GREEN BELT AREA

SR.NO	AREA	
G1	11.20	
G2	10.51	
G3	8.30	
G4	7.81	
G5	2.85	
TOTAL	40.67	Hect.

1. TOTAL PLANT AREA : 123.25 Hect.
2. GREEN BELT AREA 40.67 Hect. (33% OF- -TOTAL PLANT AREA)

REV.No.	DATE	BRIEF	BY	APPD.

JAYKAYCEM (CENTRAL) LIMITED, PANNA (M.P.)

SCALE - 1:2500	PLANT LAYOUT (CLINKER 2.64 MTPA x 2 UNIT)	REF.DRG.No.-
DATE - 20-06-2020		
DRAWN		SECTION No.- 3/10
CHECKED		
APPROVED	DRG. No.- JKPN - A - GN - 10 (R-3)	