

No. JKCW/ENV/2022-23/ EC Compliance/2<sup>nd</sup> Half(PLANT)/89/23

Date- 19-05-2023

To  
The Scientist-F  
Ministry of Environment & Forest  
Govt. of India, Indira Paryavaran Bhavan  
Aliganj, New Delhi- 110 003.

Sub: **Half Yearly Environmental Clearance Compliance report for the period from Oct-22 to Mar-23 (2<sup>nd</sup> Half) for Change in product mix to manufacture cement based adhesive without increasing the production capacity for JK Cement Works, Village- Muddapur, Taluka- Mudhol, District- Bagalkot (Karnataka)**

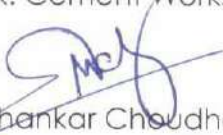
Ref: **MoEF letter no. J-11011/263/2009-IA II (I) dated 26-09-2012**

Dear Sir,

With reference to your above cited environmental clearance letter for Change in product mix to manufacture cement based adhesive without increasing the production capacity for JK Cement Works, Village- Muddapur, Taluka- Mudhol, District- Bagalkot (Karnataka), we are sending here with enclosed point wise EC compliance report for the period from **Oct-22 to Mar-23 (2<sup>nd</sup> Half)** for your kind information and record please, along with **Annexure-1 to 8.**

Thanking you

Yours faithfully  
For J.K. Cement Works

  
Umashankar Choudhary  
(Unit Head)

 Enclosures as above:

- |                                                   |                                                      |
|---------------------------------------------------|------------------------------------------------------|
| 1. EC Compliance Report <b>Annexure-1</b>         | 5. Fugitive emission Monitoring - <b>Annexure -5</b> |
| 2. AAQ Monitoring <b>Annexure -2</b>              | 6. Water Quality Monitoring - <b>Annexure 6</b>      |
| 3. Stack Emission Monitoring - <b>Annexure -3</b> | 7. Environmental expenditures <b>Annexure-7</b>      |
| 4. Noise Level Monitoring- <b>Annexure -4</b>     | 8. CSR Report <b>Annexure-8</b>                      |

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**JK SUPER  
CEMENT**  
BUILD SAFE

Manufacturing Units at:

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

**JK CEMENT**  
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CC:

- 1- The Addl. Principal Chief Conservator of Forest (C), Ministry of Environment & Forest, Regional Office (South Zone), Koramangala, Bangalore
- 2- Chairman, Central Pollution Control Board, Parivesh Bhavan, East Arjun Nagar, New Delhi
- 3- Scientist 'D' & Incharge, Central Pollution Control Board, Nisarga Bhavan, Bengaluru
- 4- Member Secretary, Karnataka Pollution Control Board, Church Street, Bangalore
- 5- The Environmental officer, Karnataka State Pollution Control Board, Bagalkot – 587102



**Subject:** Expansion of Cement Grinding Unit (2.50 MTPA to 3.5 MTPA) at Village Muddapur, Taluka-Mudhol, District Bagalkot, Karnataka by M/s J.K.cement works, (Unit: JK Cement Ltd). Reg Change in product mix to manufacture cement based adhesive without increasing the production capacity.

**Reference:** MoEF Letter No. F.No.J-11011/263/2009-IA II (I) dated 26.09.2012

**Environmental Clearance Compliance Report (October, 2022 to March, 2023)**

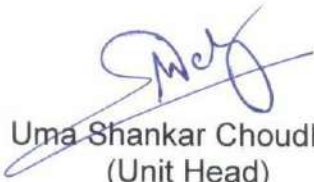
**Annexure-1**

<b>S.N.</b>	<b>Conditions</b>	<b>Reply</b>
3 (i)	The overall capacity of the plant shall remain 3.5 MTPA.	Agreed and complying.
3 (ii)	There shall be no increase in the water consumption and land requirement.	Agreed, we are not consuming more than permitted water consumption and land requirement has not been increased.
3(iii)	The company shall comply with all the conditions stipulated vide Ministry's letter of even number dated 21 <sup>st</sup> June, 2010.	We are complying with all the conditions stipulated vide Ministry's letter of even number dated 21 <sup>st</sup> June, 2010.
4	In case of change in the scope of the project, fresh proposal for environmental clearance shall be submitted to the Ministry.	Noted and agreed.
5	This issues with the prior approval of competent authority.	Noted.

Thanking you,

Yours Faithfully

J.K. Cement Works, Muddapur (Karnataka)



Uma Shankar Choudhary  
(Unit Head)



**J.K. Cement WORKS, MUDDAPUR (KARNATAKA)**


CEMENT PLANT &amp; 2X25 CPP MW

HALF YEARLY AAQM REPORT (SO<sub>2</sub>, NO<sub>2</sub>, PM<sub>10</sub>, PM<sub>2.5</sub>), FOR THE MONTH OF OCTOBER-2022 TO MARCH-2023

( ALL VALUES IN MICROGRAMS / CUBIC METER )

Month	Sl.No.	Date	Week	SO <sub>2</sub>				NO <sub>2</sub>				PM <sub>10</sub>				PM <sub>2.5</sub>			
				Locations				Locations				Locations				Locations			
				Admin Bld	Guest House	Muddapur	Bamanbuddhini	Admin Bld	Guest House	Muddapur	Bamanbuddhini	Admin Bld	Guest House	Muddapur	Bamanbuddhini	Admin Bld	Guest House	Muddapur	Bamanbuddhini
OCTOBER	1	1.10.2022	1st	8.0	7.0	7.5	7.7	18.0	17.2	17.5	18.0	59.8	40.4	49.4	47.8	12.5	20.8	12.5	16.7
	2	5.10.2022		7.7	8.0	8.0	6.8	17.0	18.0	18.0	16.8	56.6	45.3	44.6	44.8	17.5	22.9	20.8	20.8
	3	8.10.2022	2nd	9.5	7.7	6.8	8.0	19.3	17.7	16.8	18.0	64.6	49.1	36.3	45.6	13.3	12.5	16.7	18.8
	4	12.10.2022		8.0	6.8	7.0	7.5	18.7	16.8	17.0	17.5	62.9	47.1	40.7	48.1	16.7	20.8	18.8	21.7
	5	15.10.2022	3rd	8.2	8.2	6.8	8.2	17.8	18.2	16.8	18.0	70.1	50.0	46.3	53.0	14.2	22.9	10.0	23.3
	6	19.10.2022		9.0	7.0	7.3	6.7	19.0	17.7	17.3	16.8	60.3	48.0	51.0	43.3	18.8	16.7	17.5	20.8
	7	22.10.2022	4th	8.3	8.0	6.8	7.0	18.3	18.0	16.8	17.5	68.1	50.4	49.4	54.3	14.2	12.5	15.8	16.7
	8	26.10.2022		9.0	7.0	8.2	7.5	18.0	17.0	18.2	17.5	59.5	49.6	46.3	47.1	20.5	20.8	18.3	13.7
	9	29.10.2022		7.5	6.8	7.0	8.2	16.5	16.8	17.7	18.7	67.3	46.1	43.3	41.3	11.7	15.4	16.7	16.7
NOVEMBER	1	3.11.2022	1st	5.5	7.5	6.0	6.0	16.7	18.7	16.5	16.5	55.8	44.9	74.8	47.4	17.9	25.0	16.7	20.8
	2	7.11.2022		6.2	5.5	7.3	7.3	16.8	17.3	18.3	18.3	47.0	59.0	57.6	45.9	12.5	29.2	23.8	25.0
	3	10.11.2022	2nd	8.2	6.7	8.8	8.8	17.8	17.0	18.0	18.0	52.8	47.7	68.4	43.3	20.8	33.3	17.9	29.2
	4	14.11.2022		7.0	11.0	6.8	6.8	17.0	18.0	17.5	17.5	63.3	44.7	57.1	40.2	12.5	20.8	20.8	22.1
	5	17.11.2022	3rd	8.0	9.8	7.3	7.3	18.0	18.3	17.5	17.5	60.5	50.6	46.6	33.7	20.8	31.3	20.8	25.0
	6	21.11.2022		6.8	9.0	6.8	6.8	16.8	17.2	18.0	18.0	55.1	59.9	56.5	41.3	16.7	29.2	16.7	33.3
	7	24.11.2022	4th	8.0	8.5	7.2	7.2	18.0	18.0	17.8	17.8	63.7	45.6	61.8	46.6	20.8	32.5	20.8	20.8
	8	28.11.2022		7.5	6.8	8.0	8.0	17.5	17.0	18.8	18.8	42.6	50.2	65.6	40.7	16.0	20.8	23.3	29.2
	9	30.11.2022		7.0	7.3	9.0	7.0	17.0	17.5	19.0	17.0	52.6	56.0	49.9	52.4	12.5	23.3	16.7	24.2
DECEMBER	1	3.12.2022	1st	7.8	6.8	7.7	7.5	17.8	16.7	17.5	18.0	53.3	55.5	50.2	46.2	23.3	25.0	27.1	20.8
	2	7.12.2022		8.0	7.5	6.0	5.5	18.0	17.5	17.3	15.0	51.0	57.5	85.1	41.0	33.3	37.5	25.8	25.0
	3	10.12.2022	2nd	7.8	8.0	7.0	8.0	18.8	18.0	18.0	17.3	60.4	52.7	61.3	52.4	29.2	17.9	20.8	20.8
	4	14.12.2022		8.0	6.8	8.5	6.8	18.0	16.8	18.3	16.8	67.6	54.0	42.7	50.3	20.8	33.3	20.8	22.5
	5	17.12.2022	3rd	8.3	7.8	5.5	8.0	18.3	17.8	17.3	15.8	56.8	63.4	62.9	44.0	22.9	20.8	21.7	15.4
	6	21.12.2022		6.2	6.8	6.7	5.8	17.5	16.8	17.8	14.2	50.8	57.8	46.8	57.9	25.0	46.7	29.2	37.5
	7	24.12.2022	4th	8.0	7.5	6.2	6.8	18.0	17.5	16.8	14.2	55.7	49.8	58.4	50.1	41.7	37.5	20.8	33.3
	8	28.12.2022		8.0	8.0	7.7	8.2	18.2	18.0	18.5	18.3	57.8	55.7	64.6	53.4	28.0	20.8	25.0	20.8
	9	31.12.2022		8.0	8.0	8.3	5.5	18.0	18.0	19.0	17.5	52.1	48.0	53.2	57.0	29.2	33.3	31.7	33.3
JANUARY	1	3.1.2023	1st	7.0	8.0	6.8	7.7	17.7	18.5	16.5	17.8	89.5	79.0	65.2	57.7	50.0	25.0	20.8	20.8
	2	7.1.2023		6.8	10.2	7.5	8.0	16.8	19.3	17.5	18.0	80.9	66.1	60.0	48.8	45.8	37.5	25.0	25.0
	3	10.1.2023	2nd	9.7	6.7	5.8	6.8	19.7	16.7	15.8	16.8	75.2	57.1	68.1	55.0	37.5	29.2	33.3	16.7
	4	14.1.2023		6.2	7.0	6.7	8.0	16.2	17.0	16.7	18.7	69.8	63.1	51.6	63.1	29.2	20.8	37.5	29.2
	5	17.1.2023	3rd	7.2	6.5	8.0	7.5	17.7	16.8	18.7	17.5	73.3	69.4	64.8	59.0	27.5	33.3	41.7	20.8
	6	21.1.2023		8.0	7.3	6.7	7.2	17.0	18.0	17.3	18.0	68.1	67.1	58.2	65.5	20.8	41.7	29.2	16.7
	7	24.1.2023	4th	8.0	8.0	8.0	10.3	18.5	18.0	18.0	20.3	65.4	60.2	65.4	56.2	24.6	16.7	25.0	12.5
	8	28.1.2023		6.8	6.8	7.0	7.5	16.8	17.5	16.8	17.5	57.1	73.3	62.6	67.7	28.0	20.8	31.3	20.8
FEBRUARY	1	3.2.2023	1st	8.0	8.0	6.2	6.8	18.0	17.8	16.2	16.7	61.8	67.8	68.9	73.1	25.0	33.3	41.7	33.3
	2	7.2.2023		7.7	7.7	8.0	7.0	17.0	17.7	18.0	17.5	75.9	61.2	76.6	70.6	29.2	37.5	33.3	37.5
	3	10.2.2023	2nd	9.8	8.0	9.2	6.8	19.3	18.0	19.2	16.8	69.3	72.6	91.7	72.8	33.3	41.7	50.0	29.2
	4	14.2.2023		8.0	10.3	8.0	8.0	18.7	19.8	18.0	18.0	77.5	65.9	69.0	69.0	31.3	40.0	37.5	41.7
	5	17.2.2023	3rd	8.2	7.7	9.3	7.0	17.8	17.5	19.0	16.8	73.9	75.2	75.8	84.2	33.3	45.8	35.4	45.8
	6	21.2.2023		9.0	8.0	8.3	6.5	19.0	18.7	18.2	16.5	69.6	64.2	70.0	65.1	37.5	37.5	37.5	25.0
	7	24.2.2023	4th	8.3	9.0	10.0	7.5	18.3	18.8	19.3	17.5	71.0	60.0	76.6	70.0	45.8	29.2	45.8	33.3
	8	28.2.2023		9.0	7.2	8.0	6.7	18.0	17.8	18.0	16.7	79.9	71.9	61.5	61.0	38.0	50.0	25.0	36.7
MARCH	1	3.3.2023	1st	7.5	7.7	8.0	7.7	17.5	17.7	18.0	17.7	79.7	79.1	85.7	66.0	37.5	32.5	41.7	29.2
	2	7.3.2023		8.2	9.0	7.5	6.7	18.7	19.0	16.3	16.7	87.4	68.2	64.7	71.8	41.7	28.3	33.3	33.3
	3	10.3.2023	2nd	10.0	6.7	8.0	8.0	20.0	16.7	16.7	18.0	65.0	84.6	75.7	69.7	33.3	41.7	35.4	25.0
	4	14.3.2023		8.0	8.0	6.7	6.8	18.0	17.3	17.3	16.8	72.8	74.0	62.4	75.3	38.3	33.3	34.6	37.5
	5	17.3.2023	3rd	7.3	7.0	8.0	7.0	17.5	17.5	18.0	17.5	69.6	68.0	68.8	69.4	31.3	28.3	35.0	33.4
	6	21.3.2023		6.7	8.0	7.2	8.0	16.7	18.7	18.0	18.0	59.4	78.2	64.4	73.3	25.0	42.5	29.2	31.8
	7	24.3.2023	4th	7.3	6.7	6.7	7.3	18.2	16.7	16.7	17.3	64.2	91.6	56.5	67.1	29.2	49.2	20.8	30.7
	8	28.3.2023		8.2	7.8	6.3	8.0	18.2	17.7	17.0	18.0	69.4	80.9	68.3	81.1	32.0	41.7	32.5	45.4
Minimum				5.5	5.5	5.5	5.5	16.2	16.7	15.8	14.2	42.6	40.4	36.3	33.7	11.7	12.5	10.0	12.5
Maximum				10.0	11.0	10.0	10.3	20.0	19.8	19.3	20.3	89.5	91.6	91.7	84.2	50.0	50.0	50.0	45.8
Average				7.8	7.7	7.4	7.3	17.9	17.7	17.6	17.4	64.6	60.3	60.8	56.5	26.4	29.8	26.7	26.3

  
 Vinit Kumar Sharma  
 Monitored by

  
 Vinit Kumar Sharma  
 Checked by



# SCIENTIFIC & INDUSTRIAL RESEARCH CENTRE

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Recognized by MoEF & CC.

ISO 9001:2015 & ISO 45001:2018 Certified Laboratory.

## Plant AAQ sample

<b>Name and Address of Customer:</b> M/s. JK Cement Works, Muddapur (Unit : J.K. Cement LTD.,) Muddapur -587122 Distt. Bagalkot (Karnataka) India				<b>Report Date:</b> 26/02/2023			
				<b>Date of Receipt of sample:</b> 20/02/2023			
				<b>Test Report No:</b> SIRC/2023/02/4825			
				<b>Test Completed on:</b> 26/02/2023			
<b>Test Performed On:</b> 20/02/2023				<b>Sample Packing:</b> Absorbing solution Sealed Bottle and Filter paper zip lock covered			
S.N o	Parameters	Method	NAAQ standards 2009	Location			
				Site-1	Site-2	Site-3	Site-4
1	Particulate Matter (PM10), µg/m <sup>3</sup>	IS 5182 (P23):2006	100	68.5	58	52.4	73
2	Particulate Matter (PM2.5), µg/m <sup>3</sup>	40CFR Part 53& 58	60	33	25.7	40.5	45.2
3	Sulfur Dioxide (SO <sub>2</sub> ), µg/m <sup>3</sup>	IS 5182 (P2):2001	80	12	16.5	9.5	21.3
4	Nitrogen Dioxide (NO <sub>2</sub> ), µg/m <sup>3</sup>	IS 5182 (P6):2006	80	15	12.5	25.4	29.3
5	Ammonia (NH <sub>3</sub> ), µg/m <sup>3</sup>	Method 401, Air Sampling	400	18.4	10.4	30.4	24
6	Carbon Monoxide (CO), mg/m <sup>3</sup>	Non-Dispersive Infra-Red Method	04	ND	ND	ND	ND
7	Ozone (O <sub>3</sub> ), µg/m <sup>3</sup>	Method 411, Air Sampling	180	9.6	6.5	16.1	18.5
8	Lead (Pb), µg/m <sup>3</sup>	EPA compendium method IO 3.2	1.0	BDL	BDL	BDL	BDL
9	Nickel (Ni), ng/m <sup>3</sup>	EPA compendium method IO 3.2	20	BDL	BDL	BDL	BDL
10	Arsenic (As), ng/m <sup>3</sup>	EPA compendium method IO 3.2	06	BDL	BDL	BDL	BDL
11	Benzo(a)Pyrene(BaP), ng/m <sup>3</sup>	IS 5182 (Part 12):2004	01	BDL	BDL	BDL	BDL
12	Benzene (C <sub>6</sub> H <sub>6</sub> ), µg/m <sup>3</sup>	IS 5182 (Part 11):2006	05	BDL	BDL	BDL	BDL

Note: Site-1: Near Administration Building Site-2: Near Guest House Site-3: Near D Block & Site-4: Dispatch Gate  
BDL: Below detectable limit, ND: Not Detected

<b>INFERENCE</b>	As per NAAQMS Standards, Report Status: - - The measured values for the above parameters are within the standards
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## AUTHORIZED SIGNATORY

Sateesh G Muttagi  
Technical Manager

### NOTE

1. The results listed refer only to the tested samples & applicable parameters. Endorsement of product is neither inferred nor implied.
2. Samples will be destroyed after specified retention time.
3. This report is not to be reproduced wholly or in part & cannot be used as evidence in the court of law & should not be used in any advertising media without our special permission in writing.
4. Sample(s) not drawn by us unless otherwise stated.
5. Total liability of our laboratory is limited to the invoice amount. Any dispute arising out of this report is subjected to Bangalore Jurisdiction only.

\*\*\*\*\*We Provide Environmental Services\*\*\*\*\*



**J.K. Cement WORKS, MUDDAPUR (KARNATAKA)**

(Unit : J.K. Cement Ltd.)

Stack monitoring report of Cement plant &amp; 2x25 MW Thermal power plant for October-2022 to March-2023

Sl. No.	Month/Year	Stack locations						
		Thermal Power Plant			Kiln / Raw Mill			DG Set
		SPM in mg/Nm3	SO2 in mg/Nm3	NOx in mg/Nm3	SPM in mg/Nm3	SO2 in mg/Nm3	NOx in mg/Nm3	SPM in mg/Nm3
1	Oct-22	Plant Shutdown			13.9	0.0	421.0	-
2	Nov-22				17.2	0.0	410.0	-
3	Dec-22				13.6	0.0	405.2	-
4	Jan-23				20.9	0.0	539.0	-
5	Feb-23				17.0	0.0	478.0	-
6	Mar-23				12.3	0.0	305.0	-

Sl. No.	Month/Year	Stack locations						
		SPM in mg/Nm3						
		CM-3 (Slag Cement Mill)	Coal crusher	LSC	CM-1	CM-2	Cooler	Coal Mill
1	Oct-22	7.2	13.0	9.6	13.28	16.00	7.4	13.0
2	Nov-22	13.2	7.5	16.2	7.1	13.2	9.5	11.2
3	Dec-22	14.1	9.7	10.0	10.2	29.6	12.3	15.3
4	Jan-23	11.0	13.3	13.4	8.27	13.06	15.1	17.3
5	Feb-23	17.4	11.0	12.1	7.3	11.8	10.1	10.5
6	Mar-23	16.4	13.2	10.9	7.3	11.9	8.5	17.1

  
Vinit Patil  
Monitored by

  
Vinit Kumar Sharma  
Checked by



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Recognized by MoEF &CC.

ISO 9001:2015 &ISO 45001:2018Certified Laboratory.

## TEST REPORT

<b>Name and Address of Customer:</b>  M/s. JK Cement Works, Muddapur (Unit : J.K. Cement LTD.,) Muddapur -587122 Distt. Bagalkot (Karnataka) India	<b>Report Date:</b> 05/03/2023
	<b>Date of Receipt of sample:</b> 25/02/2023
	<b>Test Report No:</b> SIRC/2023/02/4831
	<b>Test Completed On:</b> 27/02/2023
<b>Test Performed On:</b> 25/02/2023	<b>Date of Monitoring:</b> 24/02/2023

Sample Collected By	Sample Nature	Stack ID	Sample Packing:
SIRC	STACK	RAW MILL	Thimble in zip lock covered

## Stack Details

Stack Id	RAW MILL
Ambient Temperature ,(°C)	34
Stack Temperature, (°C)	166
Diameter, (m)	7.54
Cross Sectional Area in meter square, (m <sup>2</sup> )	19.63
Velocity, (m/s)	5.61
Flue gas Discharge, Nm <sup>3</sup> /hr	278012
Dust Emission , mg/Hr	2.6

## Results

S.No	Parameters	Unit	Results	Limits	Method
1	Particulate Matter	mg/Nm <sup>3</sup>	10.5	30	IS 11255 (P1) 2003
2	Moisture	%	<1	NS	IS 11255 (P1) 2003
3	Sulphur Dioxide	mg/Nm <sup>3</sup>	ND	100	IS 11255 (P2) 2003
4	Oxides of nitrogen	mg/Nm <sup>3</sup>	388	800	Flue gas analyzer

Note: ND: Not Detected, NS: Not Specified

<b>INFERENCE</b>	As per MOEF Standards, <b>Report Status:</b> -- The measured values for the above parameters are within the standards.
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**AUTHORIZED SIGNATORY**

Sateesh G Muttagi  
Technical Manager

## NOTE

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# SCIENTIFIC & INDUSTRIAL RESEARCH CENTRE

#91/43,1<sup>st</sup>Floor,8<sup>th</sup> cross Goraguntepalya,Yeshwantpur Industrial area,Bangalore-560022.

E-mail:sircbangalore@yahoo.com.www.sircblr.in

Mob: 8494900231, 8892972297, 9632917186.

Recognized by MoEF &CC.

ISO 9001:2015 &ISO 45001:2018Certified Laboratory.

## TEST REPORT

<b>Name and Address of Customer:</b>	<b>Report Date:</b> 05/03/2023
M/s. JK Cement Works, Muddapur (Unit : J.K. Cement LTD.,) Muddapur -587122 Distt. Bagalkot (Karnataka) India	<b>Date of Receipt of sample:</b> 23/02/2023
	<b>Test Report No:</b> SIRC/2023/02/4832
	<b>Test Completed On:</b> 25/02/2023
<b>Test Performed On:</b> 23/02/2023	<b>Date of Monitoring:</b> 22/02/2023

Sample Collected By	Sample Nature	Stack ID	Sample Packing:
SIRC	STACK	Cement Mill-2	Thimble in zip lock covered

### Stack Details

Stack Id	Cement Mill-2
Ambient Temperature ,(°C)	30
Stack Temperature, (°C)	122
Diameter, (m)	1.4
Cross Sectional Area in meter square, (m <sup>2</sup> )	1.23
Velocity, (m/s)	5.21
Flue gas Discharge, Nm <sup>3</sup> /hr	18101.2
Dust Emission , mg/Hr	0.19

### Results

S.No	Parameters	Unit	Results	Limits	Method
1	Particulate Matter	mg/Nm <sup>3</sup>	11.3	30	IS 11255 (P1) 2003
2	Moisture	%	<1	NS	IS 11255 (P1) 2003

Note: NS: Not Specified

<b>INFERENCE</b>	As per MOEF Standards, <b>Report Status:</b> - - The measured values for the above parameters are within the standards.
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**AUTHORIZED SIGNATORY**

Sateesh G Muttagi

Technical Manager

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## TEST REPORT

<b>Name and Address of Customer:</b>	<b>Report Date:</b> 05/03/2023
<b>M/s. JK Cement Works, Muddapur</b> (Unit : J.K. Cement LTD.,) Muddapur -587122 Distt. Bagalkot (Karnataka) India	<b>Date of Receipt of sample:</b> 24/02/2023
	<b>Test Report No:</b> SIRC/2022/08/4833
	<b>Test Completed On:</b> 28/02/2023
<b>Test Performed On:</b> 25/02/2023	<b>Date of Monitoring:</b> 23/02/2023

<b>Sample Collected By</b>	<b>Sample Nature</b>	<b>Stack ID</b>	<b>Sample Packing:</b>
SIRC	STACK	Cement Mill-1	Thimble in zip lock covered

### Stack Details

<b>Stack Id</b>	Cement Mill-1
<b>Ambient Temperature ,(<sup>0</sup>C)</b>	32
<b>Stack Temperature, (<sup>0</sup>C)</b>	112
<b>Diameter, (m)</b>	1.4
<b>Cross Sectional Area in meter square, (m<sup>2</sup>)</b>	1.23
<b>Velocity, (m/s)</b>	5.21
<b>Flue gas Discharge, Nm<sup>3</sup>/hr</b>	17801
<b>Dust Emission , mg/Hr</b>	0.12

### Results

S.No	Parameters	Unit	Results	Limits	Method
1	Particulate Matter	mg/Nm <sup>3</sup>	6.9	30	IS 11255 (P1) 2003
2	Moisture	%	<1	NS	IS 11255 (P1) 2003

Note: NS: Not Specified

<b>INFERENCE</b>	As per MOEF Standards, <b>Report Status:</b> - - The measured values for the above parameters are within the standards.
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### AUTHORIZED SIGNATORY

Sateesh G Muttagi  
Technical Manager

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## TEST REPORT

<b>Name and Address of Customer:</b>	<b>Report Date:</b> 05/03/2023
M/s. JK Cement Works, Muddapur (Unit : J.K. Cement LTD.,) Muddapur -587122 Distt. Bagalkot (Karnataka) India	<b>Date of Receipt of sample:</b> 24/02/2023
	<b>Test Report No:</b> SIRC/2022/08/4834
	<b>Test Completed On:</b> 28/02/2023
<b>Test Performed On:</b> 25/02/2023	<b>Date of Monitoring:</b> 23/02/2023

<b>Sample Collected By</b>	<b>Sample Nature</b>	<b>Stack ID</b>	<b>Sample Packing:</b>
SIRC	STACK	Cement Mill-3	Thimble in zip lock covered

### Stack Details

<b>Stack Id</b>	Cement Mill-3
<b>Ambient Temperature ,(<sup>0</sup>C)</b>	32
<b>Stack Temperature, (<sup>0</sup>C)</b>	108
<b>Diameter, (m)</b>	3.75
<b>Cross Sectional Area in meter square, (m<sup>2</sup>)</b>	11.04
<b>Velocity, (m/s)</b>	5.65
<b>Flue gas Discharge, Nm<sup>3</sup>/hr</b>	179317.2
<b>Dust Emission , mg/Hr</b>	2.7

### Results

S.No	Parameters	Unit	Results	Limits	Method
1	Particulate Matter	mg/Nm <sup>3</sup>	14.1	30	IS 11255 (P1) 2003
2	Moisture	%	<1	NS	IS 11255 (P1) 2003

Note: NS: Not Specified

<b>INFERENCE</b>	As per MOEF Standards, <b>Report Status:</b> -- The measured values for the above parameters are within the standards.
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### AUTHORIZED SIGNATORY

Sateesh G Muttagi  
Technical Manager

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## TEST REPORT

<b>Name and Address of Customer:</b>  <b>M/s. JK Cement Works, Muddapur</b> (Unit : J.K. Cement LTD.,) Muddapur -587122 Distt. Bagalkot (Karnataka) India	<b>Report Date:</b> 05/02/2023
	<b>Date of Receipt of sample:</b> 26/03/2023
	<b>Test Report No:</b> SIRC/2023/02/4835
	<b>Test Completed On:</b> 01/03/2023
<b>Test Performed On:</b> 27/02/2023	<b>Date of Monitoring:</b> 25/02/2023

<b>Sample Collected By</b>	<b>Sample Nature</b>	<b>Stack ID</b>	<b>Sample Packing:</b>
SIRC	STACK	Coal Mil	Thimble in zip lock covered

### Stack Details

<b>Stack Id</b>	Coal Mil
<b>Ambient Temperature, (°C)</b>	29
<b>Stack Temperature, (°C)</b>	86
<b>Diameter, (m)</b>	1.80
<b>Cross Sectional Area in meter square, (m<sup>2</sup>)</b>	2.54
<b>Velocity, (m/s)</b>	5.23
<b>Flue gas Discharge, Nm<sup>3</sup>/hr</b>	34039.2
<b>Dust Emission, mg/Hr</b>	0.6

### Results

S.No	Parameters	Unit	Results	Limits	Method
1	Particulate Matter	mg/Nm <sup>3</sup>	15.3	30	IS 11255 (P1) 2003
2	Moisture	%	<1	NS	IS 11255 (P1) 2003

Note: NS: Not Specified

<b>INFERENCE</b>	As per MOEF Standards, <b>Report Status:</b> - - The measured values for the above parameters are within the standards.
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### AUTHORIZED SIGNATORY

Sateesh G Muttagi  
Technical Manager

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## TEST REPORT

<b>Name and Address of Customer:</b>	<b>Report Date:</b> 05/03/2023
<b>M/s. JK Cement Works, Muddapur</b> (Unit : J.K. Cement LTD.,) Muddapur -587122 Distt. Bagalkot (Karnataka) India	<b>Date of Receipt of sample:</b> 25/02/2023
	<b>Test Report No:</b> SIRC/2023/02/4836
	<b>Test Completed On:</b> 27/02/2023
<b>Test Performed On:</b> 25/02/2023	<b>Date of Monitoring:</b> 24/02/2023

<b>Sample Collected By</b>	<b>Sample Nature</b>	<b>Stack ID</b>	<b>Sample Packing:</b>
SIRC	STACK	Clinker Cooler Stack	Thimble in zip lock covered

### Stack Details

<b>Stack Id</b>	Clinker Cooler Stack
<b>Ambient Temperature ,(<sup>0</sup>C)</b>	36
<b>Stack Temperature, (<sup>0</sup>C)</b>	285
<b>Diameter, (m)</b>	3.86
<b>Cross Sectional Area in meter square, (m<sup>2</sup>)</b>	12.56
<b>Velocity, (m/s)</b>	7.22
<b>Flue gas Discharge, Nm<sup>3</sup>/hr</b>	173116.6
<b>Dust Emission , mg/Hr</b>	1.23

### Results

S.No	Parameters	Unit	Results	Limits	Method
1	Particulate Matter	mg/Nm <sup>3</sup>	5.8	30	IS 11255 (P1) 2003
2	Moisture	%	<1	NS	IS 11255 (P1) 2003

Note: ND: Not Detected, NS: Not Specified

<b>INFERENCE</b>	<b>As per MOEF Standards GSR 612 E dated 25.08 2014.</b> <b>Report Status:</b> - - The measured values for the above parameters are within the standards.
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**AUTHORIZED SIGNATORY**

Sateesh G Muttagi

Technical Manager

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## TEST REPORT

<b>Name and Address of Customer:</b>	<b>Report Date:</b> 05/02/2023
<b>M/s. JK Cement Works,</b>	<b>Date of Receipt of sample:</b> 26/03/2023
<b>Muddapur</b>	<b>Test Report No:</b> SIRC/2023/02/4837
(Unit: J.K. Cement LTD.,)	<b>Test Completed On:</b> 01/03/2023
Muddapur -587122	<b>Date of Monitoring:</b> 25/02/2023
Distt. Bagalkot (Karnataka) India	
<b>Test Performed On:</b> 27/02/2023	

<b>Sample Collected By</b>	<b>Sample Nature</b>	<b>Stack ID</b>	<b>Sample Packing:</b>
SIRC	STACK	Limestone Crusher	Thimble in zip lock covered

### Stack Details

<b>Stack Id</b>	Crusher
<b>Ambient Temperature ,(°C)</b>	33
<b>Stack Temperature, (°C)</b>	59
<b>Diameter, (m)</b>	1.20
<b>Cross Sectional Area in meter square, (m<sup>2</sup>)</b>	1.13
<b>Velocity, (m/s)</b>	4.99
<b>Flue gas Discharge, Nm<sup>3</sup>/hr</b>	18742.3
<b>Dust Emission , mg/Hr</b>	0.25

### Results

S. No	Parameters	Unit	Results	Limits	Method
1	Particulate Matter	mg/Nm <sup>3</sup>	12.7	30	IS 11255 (P1) 2003

<b>INFERENCE</b>	As per MOEF Standards, <b>Report Status:</b> - - The measured values for the above parameters are within the standards.
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### AUTHORIZED SIGNATORY

Sateesh G Muttagi  
Technical Manager

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**J.K. Cement WORKS, MUDDAPUR (KARNATAKA)**  
(Unit: J.K. Cement Ltd.)

**Half Yearly Noise monitoring report of Cement & Power Plant for the month of October-2022 to March-2023**

Ambient Noise																			
Sl. No.	Location Name	Oct-22		Nov-22		Dec-22		Jan-23		Feb-23		Mar-23		Minimum		Maximum		Average	
		Day (dB) Leq	Night (dB) Leq	Day (dB) Leq	Night (dB) Leq	Day (dB) Leq	Night (dB) Leq	Day (dB) Leq	Night (dB) Leq	Day (dB) Leq	Night (dB) Leq	Day (dB) Leq	Night (dB) Leq	Day (dB) Leq	Night (dB) Leq	Day (dB) Leq	Night (dB) Leq	Day (dB) Leq	Night (dB) Leq
1	Boundary side	69.5	66.8	68.2	65.4	66.5	63.6	65.6	62.5	67.5	65.3	68.5	62.8	65.6	62.5	69.5	66.8	67.6	64.4
2	Administrative Building	65.2	63.8	64.5	62.2	62.8	60.7	61.2	58.6	64.8	62.7	62.7	60.4	61.2	58.6	65.2	63.8	63.5	61.4
3	Lime Stone gate	71.4	68.5	67.3	64.3	65.4	63.5	67.8	65.3	70.5	68.5	72.5	67.5	65.4	63.5	72.5	68.5	69.2	66.3
4	Despatch gate	68.6	65.2	66.5	63.8	63.2	61.6	62.5	60.7	68.7	65.6	65.5	63.2	62.5	60.7	68.7	65.6	65.8	63.4
5	Near QC Lab.	60.6	58.4	62.8	60.3	64.5	62.8	66.8	66.8	67.5	64.6	63.8	60.7	60.6	58.4	67.5	64.6	64.3	61.7
6	Near Canteen	65.2	62.5	60.5	58.5	62.8	60.4	60.7	58.5	62.8	60.7	64.7	60.1	60.5	58.5	65.2	62.5	62.8	60.1
7	Plant main gate	60.5	58.2	62.3	58.2	60.6	57.6	65.5	63.4	68.6	66.2	67.9	62.6	60.5	57.6	68.6	66.2	64.2	61.0
8	General Store	62.2	60.7	60.3	56.4	62.5	58.8	64.6	62.7	65.9	63.8	62.6	59.5	60.3	56.4	65.9	63.8	63.0	60.3

Sl. No.	Location Name	Oct-22 (dB) Leq	Nov-22 (dB) Leq	Dec-22 (dB) Leq	Jan-23 (dB) Leq	Feb-23 (dB) Leq	Mar-23 (dB) Leq	Minimum (dB) Leq	Maximum (dB) Leq	Average (dB) Leq
		(dB) Leq	(dB) Leq	(dB) Leq	(dB) Leq	(dB) Leq	(dB) Leq	(dB) Leq	(dB) Leq	(dB) Leq
1	Lime Stone Crusher	78.6	82.5	84	82	80	82	78.6	84	81.5
2	Kiln Cooler	80.5	80.6	82	80	82	80	80	82	80.9
3	Kiln Platform	79.6	78.5	80	78	76	74	74	80	77.7
4	Power Plant	50.6	50.2	52	56	58	60	50.2	60	54.5
5	Coal Yard	64.3	60.6	62	64	66	64	60.6	66	63.5
6	Slag yard	60.7	62.5	64	66	68	66	60.7	68	64.5
7	Gypsum yard	62.8	63.7	61	62	64	68	61	68	63.6
8	Raw mill proportioning hopper	70.8	68.5	70	74	72	74	68.5	74	71.6
9	coal mill	72.7	72.8	73	72	70	72	70	73	72.1
10	Near silo clinker loading point	74.3	68.5	70	73	71	73	68.5	74.3	71.6
11	CM-1 weigh feeder	70.4	70.2	72	75	74	78	70.2	78	73.3
12	CM-2 weigh feeder	72.2	73.7	75	78	76	76	72.2	78	75.2
13	Cement silo Packer-1	80.4	80.6	82	84	82	80	80	84	81.5
14	Cement silo Packer-2	72.6	72.4	76	75	73	74	72.4	76	73.8
15	Cement silo Packer-3	76.5	73.6	78	80	78	76	73.6	80	77.0
16	Cement silo Packer-4	78.5	80.5	81	82	80	73	73	82	79.2
17	Truck Loading point- 1	70	73	75	76	78	77	70	78	74.8
18	Truck Loading point- 2	72.4	68	70	72	73	75	68	75	71.7
19	Truck Loading point- 3	73.6	72.8	74	76	75	78	72.8	78	75.2
20	Truck Loading point- 4	73.7	74.5	75	78	77	76	73.7	78	75.7
21	Slag mill weigh feeder	68.5	66.5	68	70	71	73	66.5	73	69.5

Monitored by  
  
Vinil Kumar Sharma

Checked by  
  
Vinil Kumar Sharma

**J.K. Cement WORKS, MUDDAPUR (KARNATAKA)**

(Unit : J.K. Cement Limited)

Half Yearly Fugitive Emission Monitoring Report of Cement plant for the month of October-2022 to March-2023

SL. NO.	MONTH/YEAR	SPM (microgram/m <sup>3</sup> )							
		Gypsum Yard	Slag Yard	Flyash Yard	Cement mill	Lime stone unloading hopper	Lime stone crushing Site	Coal Yard	Packing Plant
1	Oct-22	902.8	752.6	867.0	1055.9	583.3	574.6	695.5	1030.6
2	Nov-22	897.4	821.6	1046.8	931.6	565.6	580.6	906.0	861.1
3	Dec-22	1004.5	1012.8	937.8	1082.8	579.2	597.9	1056.1	1146.5
4	Jan-23	901.2	811.2	1015.3	968.1	713.4	603.6	1031.4	1278.7
5	Feb-23	737.7	940.9	1323.1	1045.2	811.6	1059.8	1247.8	1331.8
6	Mar-23	1056.4	1231.8	1459.4	1215.5	1007.3	953.8	1139.8	1188.9
	Minimum	737.74	752.58	866.99	931.65	565.60	574.60	695.51	861.05
	Maximum	1056.45	1231.84	1459.39	1215.51	1007.30	1059.81	1247.76	1331.82
	Average	916.67	928.48	1108.24	1049.87	710.08	728.38	1012.75	1139.60

  
Vinit Patel  
Monitored by

  
Vinit Kumar Sharma  
Checked by



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## TEST REPORT

<b>Name and Address of Customer:</b>	<b>Report Date:</b> 26/02/2023
<b>M/s. JK Cement Works, Muddapur</b>	<b>Date of Receipt of sample:</b> 22/02/2023
(Unit : J.K. Cement LTD.,) Muddapur -587122 Distt. Bagalkot (Karnataka) India	<b>Test Report No:</b> SIRC/2023/02/4925-4932
<b>Test Performed On:</b> 22/02/2023	<b>Test Completed on:</b> 22/02/2023

## RESULTS

Sample Collected By	Sample Nature	Sample Location	Sample Condition on Receipt
SIRC	Fugitive Emission Monitoring	Mentioned Below	Satisfactory

Job Code	Locations	SPM (ug/m3)	Fugitive emission standard as per CPCB
4925	Near slag Storage shed	1645.3	5000µg/m3
4926	Near Gypsum Storage Shed	1232.5	
4927	Near Cement Mill Area	1303.3	
4928	Near Laterite Storage Area	1287.5	
4929	Near Cement Plant Coal Storage Shed	1580.4	
4930	Near Lime Stone Crusher area	1645.9	
4931	Near Packing Plant area	1298.4	2000µg/m3
4932	Near CPP Coal storage shed	1249.9	

## AUTHORIZED SIGNATORY

Sateesh G Muttagi  
Technical Manager

## NOTE

1. The results listed refer only to the tested samples & applicable parameters. Endorsement of product is neither inferred nor implied.
2. Samples will be destroyed after specified retention time.
3. This report is not to be reproduced wholly or in part & cannot be used as evidence in the court of law & should not be used in any advertising media without our special permission in writing.
4. Sample(s) not drawn by us unless otherwise stated.
5. Total liability of our laboratory is limited to the invoice amount. Any dispute arising out of this report is subjected to Bangalore Jurisdiction only.

\*\*\*\* We Provide Environmental Services \*\*\*\*



Annexure-6

**J.K. Cement WORKS, MUDDAPUR (KARNATAKA)**

(Unit: J.K. Cement Ltd.)

**EFFLUENT WATER ANALYSIS REPORT (Monthly Average) FOR THE MONTH OF OCTOBER-2022 TO MARCH-2023**

Constituents	Suspended Solids (mg/L)	Temperature (°C) max	pH value	Oils and Grease (mg/L)
Permissible limit				
Oct-22	PLANT SHUT DOWN			
Nov-22				
Dec-22				
Jan-23				
Feb-23				
Mar-23				
Half Avg	#DIV/0!	#DIV/0!	#DIV/0!	Nil
Half Minimum	0.0	0.00	0.00	Nil
Half Maximum	0.0	0.00	0.00	Nil

  
Vani Patil  
Monitored by

  
Vinit Kumar Sharma  
Checked by



# SCIENTIFIC & INDUSTRIAL RESEARCH CENTRE

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Recognized by MoEF & CC.

ISO 9001:2015 & ISO 45001:2018 Certified Laboratory.

## STP WATER ANALYSIS REPORT

<b>Name and Address of Customer:</b>  <b>M/s. JK Cement Works, Muddapur</b>  (Unit: J.K.CementLTD.,) Muddapur -587122 Dist. Bagalkot (Karnataka) India			<b>Date of Receipt of sample:</b> 25/02/2023		
			<b>Test Performed On:</b> 25/02/2023		
			<b>Test Completed On:</b> 05/03/2023		
			<b>Report Date:</b> 05/03/2023		
			<b>Test Report No:</b> SIRC/2023/02/4994		
Sl. No	Parameters	Protocol	Result		Standards As per IS :3025
			STP In Let	STP Out Let	
1.	pH	APHA 23 <sup>rd</sup> Edition-2017, 4500H+B	7.33	8.2	6.5-9.0
2.	Total Suspended Solids	APHA 23 <sup>rd</sup> Edition-2017, 2540 D	25	12	20
3.	BOD, mg/lt, 3 days at 270 C	APHA 23 <sup>rd</sup> Edition- 2017, 5210B	42	6.2	10
4.	COD, mg/lt	APHA 23 <sup>rd</sup> Edition- 2017, 5220B	121	19.5	50
5.	Ammonical Nitrogen mg/lt	APHA 23 <sup>rd</sup> Edition-2017, 4500 NH <sub>3</sub> C	3.6	1.7	05
6.	Phosphorous as P	APHA 23 <sup>rd</sup> Edition-2017, 4500 P D	1.28	0.55	2
7.	Total Nitrogen mg/lt	APHA 23 <sup>rd</sup> Edition-2017, 4500- NO <sub>3</sub> E, 4500 NH <sub>3</sub> C, 4500Norg	6.9	4.5	10
8.	Faecal Coliforms, cfu/100ml	APHA 23 <sup>rd</sup> Edition-2017, 9222 D	Present	Absent	250

**AUTHORIZED SIGNATORY**

Dr. Siddalingeshwara K G

Quality Manager

### NOTE

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### Annexure-7

#### EXPENDITURE ON THE ENVIRONMENTAL MANAGEMENT PLAN FOR PERIOD FROM OCTOBER 2022 TO MARCH 2023

DESCRIPTION	Expenditure (in Lakh)
Air Pollution Control in Kiln, Cooler, cement mill, coal mill, and LS crusher (main equipment) including stacks, Bag filters along with ventilation system for the control of fugitive dust emissions from the plant including stacks/ Cost of equipment for controlling emission like bag house, ESP, Bag filter etc., Operational cost/electricity cost, Operation & Maintenance cost.	1146.51
Fly ash Silo's and ash handling systems.	57.53
Emission Monitoring equipment (including online emission monitoring equipment (CEMS) at sources and ambient air quality in the vicinity) and laboratory.	20.89
Green Belt Development, Sewage Treatment plant and Water Harvesting Schemes for plant.	45.08
Extra expenditure on green purchase (Purchase of green fuel, recycled materials or any other such purchase ( <u>AFR purchase, Fly ash and Slag purchase</u> ) to reduce environmental footprint.	4185.03
Other environmental management costs (AFR system operation, odour control, environmental training/Award, SNCR system CPP, Environmental License Fees).	762.38
<b>TOTAL (Rs in Lakhs)</b>	<b>6217.43</b>

  
Prepared by

  
Checked by



## Annexure-8

## JK CEMENT WORKS, MUDDAPUR

DETAILS OF CSR ACTIVITY UNDERTAKEN DURING OCTOBER-2022 TO MARCH-2023		
SL NO	Particulars	Amount (RS)
1	Health Camp at nearby village Halki	85,000
2	Running and maintenance of Sir Padampat School	1,165,243
3	Education aid and support	59,055
4	Pooja/ Fair/Festival/temple contributions	1,199,352
5	Rural development & other welfare activities	139,699
Total		2648349

Prepared by



Checked By

