

JK Cement Works, Muddapur (Unit: J.K. Cement Ltd)

CIN: L17229UP1994PLC017199

♦ Works: P.O. Muddapur - 587 122 Distt. Bagalkot (Karnataka) India

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No. JKCW/ENV/2022-23/ EC Compliance /2nd Half(PLANT)/89/22

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 Oct-2022 to Mar-2023 (2<sup>nd</sup> Half) for expansion of Cement Grinding Unit (2.5 MTPA to 3.5 MTPA) of JK Cement Works, Village-Muddapur, Taluka-Mudhol, District-Bagalkot (Karnataka)

Ref: MoEF Letter No. F.No. J-11011/263/2009-IA II (I) dated 26-06-2010

Dear Sir,

With reference to your above cited environmental clearance letters for expansion of Cement Grinding Unit (2.5 MTPA to 3.5 MTPA) of JK Cement Works, Village - Muddapur, Taluka- Mudhol, District - Bagalkot (Karnataka), we are sending here with point wise EC compliance report for the period from Oct-2022 to Mar-2022 (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 Annexure-1

2. AAQ Monitoring Annexure -2

3. Stack Emission Monitoring -Annexure -3

4. Noise Level Monitoring- Annexure -4

5. Fugitive emission Monitoring - Annexure -5

6. Water Quality Monitoring - Annexure 6

7. Environmental expenditures Annexure-7

8.CSR Report Annexure-8

Corporate Office

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JK STPER CEMENT BUILD SAFE



Manufacturing Units at :

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





### 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.

Reference: MoEF Letter No. F.No. J-11011/263/2009-IA II (I) dated 21-06-2010

A. SPECIFIC CONDITIONS:	Annexure-1
THE STEER TO CONTINUES.	Annexure-1

S.NO	CONDITION	REPLY
i)	All other necessary statutory clearances from the concerned departments including No Objection Certificate from the Karnataka State Pollution Control Board (KSPCB) shall be obtained prior to commencement of construction and / or operation.	Complied, we obtained statutory clearances from the Karnataka State Pollution Control Board (KSPCB) prior to commencement of construction i.e, CTE and CTO during operation. Consent to Operate from Karnataka Pollution Control Board is being renewed once in every Five years. Latest Consent to Operate granted by KSPCB vide Order No. AW-326481 dated 30-08-2021 which is valid till 30-06-2026.
ii)	Compliance to all the specific and general conditions stipulated for the existing plant by the Central/State Govt. shall be ensured and regular reports submitted to the Ministry and its regional Office at Bangalore.	Complying. All the specific and general conditions stipulated by the Central/State Govt for the existing plant are complying and six monthly compliance reports are being submitted to the Ministry and its Regional office at Bangalore, CPCB & KSPCB boards also.
iii)	Adequate pollution control measures viz. bag filters shall be provided to control emissions from various sources within 50 mg/Nm³. At no time, particulate emissions from the grinding unit shall exceed 50 mg/Nm³. Interlocking facility shall be provided in the pollution control equipments so that in the event of the pollution control equipment not working, the respective unit (s) is shut down automatically.	Complied, Adequate pollution control measures viz. bag filters have been provided to control emissions from various sources not exceeding 30 mg/Nm³ and interlocking facility has been facilitated in the pollution control equipment.
iv)	Cement grinding shall be carried out in closed circuit and shall have highly efficient reverse pulse jet type bag filters.	Complied, Cement grinding is being carried out in closed circuit and pulse jet bag filter has been installed.
v)	Ambient air quality monitoring stations (AAQMS) shall be set up as per statutory requirement in consultation with the Karnataka Pollution Control Board (KSPCB). Ambient air quality including ambient noise levels shall not exceed the standards stipulated under EPA or by the State authorities. Monitoring of ambient air quality shall be carried out regularly in consultation with KSPCB and must not	Complied, Ambient air quality monitoring stations (AAQMS) have been set up in consultation with the Karnataka Pollution Control Board (KSPCB). Ambient air quality including ambient noise levels is not exceeding the standards stipulated under EPA or by the State authorities. Ambient air quality is being carried out regularly in consultation with KSPCB and results are not exceeding the NAAQM standards, 2009.

Reference: MoEF Letter No. F.No. J-11011/263/2009-IA II (I) dated 21-06-2010

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	exceed the standards stipulated under EPA or by the State Authorities. Monitoring reports for ambient air, stack and fugitive emissions shall be submitted to the Ministry's regional Office at Bangalore, Central Pollution Control Board (CPCB) and KSPCB half-yearly. The instrument used for ambient air quality monitoring shall be calibrated time to time.	Ambient air, stack and fugitive emission monitoring reports are being submitted to Ministry's regional Office at Bangalore, Central Pollution Control Board (CPCB) and KSPCB half-yearly. The Instruments, used for ambient air quality/stack/noise/ fugitive monitoring are calibrated regularly from time to time.
vi)	The company shall install adequate dust collection and extraction system to control fugitive dust emissions at loading/unloading points and all the transfer points. Dust extraction system with bag filters at raw material handling areas shall be provided, collected in bag filters and recycled back to the process. Storage of raw material shall be in closed roof sheds. Water sprinkling arrangement shall be made in the raw material stock yard and cement bag loading areas.	Complied, we have installed adequate dust collection and extraction system to control fugitive dust emissions at loading/unloading points and all the transfer points. The dust, collected in bag filters is recycled back to the process. Raw material is being stored in closed roof sheds. water sprinkling in raw material stock yard and cement bag loading areas through water tankers. Dust sweeping machines also being used for paved roads.
vii)	Secondary fugitive emissions shall be controlled and shall be within the prescribed limits and regularly monitored. Guidelines / Code of Practice issued by the CPCB in this regard shall be followed. Transportation of raw materials shall be covered means.	Complying, Secondary fugitive emissions have been monitored periodically and controlled and well within the prescribed norms. CPCB guidelines have been adopted for code of practice to control fugitive emission. Raw materials are being transported through covered means.
viii)	Total ground water requirement shall not exceed 200 m³/day. No waste water shall be generated from the cement grinding unit.	Complying, Abstraction of ground water is not exceeding the permitted quantity. No waste water is being generated from the cement grinding unit.
ix)	All the solid waste viz. fly ash and dust etc. should be properly recycled and reutilized in the process itself.	Complying, All the solid wastes viz. fly ash and dust etc. are being properly recycled and re-utilized in the process itself. 100% fly ash, generated in Captive power plant, is used in the cement plant for manufacturing of cement.
x)	As proposed, green belt shall be developed in at least 34.5 ha of land area to land area to mitigate the impact of fugitive emissions in and around the expansion project as per the CPCB guidelines in consultation with the local DFO.	Complying, out of 104.55 ha, 48.12 Ha have been covered under green cover which is more than 33% area. additional plantation has been taken up to mitigate and reduce the impact of fugitive emissions. We are continuously developing the green belt in and

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		surrounding the area as per the CPCB guidelines and in consultation with the local DFO.
xi)	Proper housekeeping and adequate occupational health programs shall be taken up.	Complying, Proper housekeeping and adequate occupational health programs are being taken up time to time.
xii)	All the recommendations made in the charter on Corporate Responsibility for Environment Protection (CREP) for the cement plants shall be implemented.	Complying, Recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the cement plants are being implemented.
xiii)	Rainwater harvesting measures shall be adopted. The company must also harvest the rainwater from the roof tops and storm water drains to recharge the ground water and use the same water for the various activities of the project to conserve fresh water.	Complied, Rainwater harvesting measures in cement plant and residential colony have been adopted. We are harvesting the rainwater from the roof tops and storm water drains to recharge the ground water.
xiv)	At least 5% of the total cost of the project should be earmarked towards the corporate social responsibility and item-wise details along with time bound action plan should be prepared and submitted to the Ministry's Regional Office at Bangalore. Implementation of such program should be ensured accordingly in a time bound	Complying, item-wise details along with time bound action plan has been prepared and submitted to the Ministry's Regional Office at Bangalore.
xv)	manner.  The company shall provide housing for construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health	Complied, All facilities had been provided to labour during project time.
*	care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	
	NERAL CONDITION:	
i)	The project authorities must strictly adhere to the stipulations made by the Karnataka State Pollution Control Board and the State Government.	Noted.
ii)	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests.	Noted.
iii)	The gaseous emissions from various process	Noted.
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	units shall conform to the load/mass based standards notified by this Ministry on 19th may, 1993 and standard prescribed from time to time. The State Board may specify more stringent standards for the relevant parameters keeping in view the nature of the industry and its size and location.	
iv)	At least four ambient air quality monitoring stations should be established in the downward direction as well as where maximum ground level concentration of PM10, SO <sub>2</sub> and NOx are anticipated in consultation with the SPCB. Data on ambient air quality and stack emission shall be regularly submitted to this Ministry including its regional Office at Bangalore and the SPCB/CPCB once in six Months.	Complied, we have established five (AAQMS) monitoring stations and monitored data of ambient air quality and stack emission are being regularly submitted to the Ministry including its regional Office at Bangalore and the SPCB/CPCB once in six Months. Six monthly report of Ambient Air Quality, Stack emission and Fugitive emissions has been enclosed as Annexure- 2, 3, 5.
v)	Industrial wastewater shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December, 1993 or as amended from time to time. The treated wastewater shall be utilized for plantation purpose.	Complying, No waste water is generated from cement plant and the waste water, generated in captive power plant is collected in neutrilsation pit and treated properly and the treated waste water is being used for process itself.
vi)	The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (daytime) and 70 dBA (nighttime).	Complying, the noise levels in and around plant are well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels are also within the standards prescribed under EPA Rules, 1989 viz. 75 dBA (daytime) and 70 dBA (night time) as per Annexure- 4
Vii)	Occupational health surveillance of the workers should be done on a regular basis and records maintained as per the Factory Act.	Complying, Occupational health surveillance of the workers is being done on a regular basis and records are being maintained as per the Factory Act.
viii)	The company shall develop surface water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.	Complied.
ix)	The Project proponent shall also comply with all the environmental protection measures and safeguards recommended in	Complying, Environmental protection measures and safeguards recommended in the EIA/EMP report are being followed.

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	EC Compliance Report for the period	od October, 2022 to March, 2023
X)	the EIA/EMP report. Further, the company must undertake socio-economic development activities in the surrounding villages like community development programme, educational programs, drinking water supply and health care etc.  As proposed, Rs. 431 lakhs and Rs. 117.95 lakhs shall be earmarked towards capital cost and recurring cost/annum for environment pollution control measures to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. An	socio-economic development activities along with expenditure in the surrounding villages for community development Programmes, educational programs, drinking water supply and health care for the period October-2022 to March-2023 is enclosed as Annexure-8.  Complied. expenditure incurred on environmental pollution control measures taken up on environment management plan and the details of expenditure are enclosed as Annexure-7.
	implementation schedule for implementing all the conditions stipulated herein shall be submitted to the regional Office of the Ministry at Bangalore. The funds so provided shall not be diverted for any other purpose.	
xi)	A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad/Municipal Corporation, Urban Local Body and the local NGO, if any, from whom suggestions/representations, if any were received while processing the proposal. The clearance letter shall also be put on the web site of the company by the proponent.	Complied, a copy of clearance letter had been sent to concerned local bodies. No suggestions & representation were received, the same also displayed on the web site of the company.
xii)	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the regional Office of the MoEF at Bangalore, The respective Zonal Office of CPCB and the CECB. The criteria pollutant levels namely; PM <sub>10</sub> , SO <sub>2</sub> , NO <sub>x</sub> (ambient for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	Complying, Environment clearance conditions status and results of monitored data are being updated & uploaded on company website periodically. The same report is being sent to the regional Office of the MoEF at Bangalore and the respective Zonal Office of CPCB. The pollutants levels namely; PM <sub>10</sub> , SO <sub>2</sub> , NO <sub>x</sub> are displaying near the plant main gate of the company in the public domain.
xiii)	The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored	Complying, we are submitting six monthly reports on the status of the compliance of the stipulated environmental conditions and monitored data in soft copies only by e-mail

Reference: MoEF Letter No. F.No. J-11011/263/2009-IA II (I) dated 21-06-2010

EC Compliance Report for the period October, 2022 to March, 2023

	data (both in hard copies as well as by e-mail) to the Regional Office of this Ministry at Bangalore/CPCB/SPCB shall monitor the stipulated conditions.	and to the Regional Office of this Ministry at Bangalore and upload the same in Parivesh website. Also the same report is submitted to CPCB/SPCB as well.
xiv)	The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (protection) Rules, 19086, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental conditions and shall also be sent to the respective regional Office of the MoEF at Bangalore by e mail.	Complying, the environmental statement for each financial year ending 31st March in Form-V is being submitted by us to the concerned State Pollution Control Board and is also sent to the respective regional office of the MoEF at Bangalore by e mail. Environmental Statement Report (Form-V) for F.Y. 2021-22 was submitted to regulatory authority via. letter no. JKCW/ENV./CFO (Plant)/60/15 dated 05-09-2022.
xv)	The Project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB and may also be seen at website of the Ministry of Environment and Forests at http:/envfor.nic.in. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same should be forwarded to the regional office at Bangalore.	Complied, we had informed the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB and may also be seen at website of the Ministry of Environment and Forests at http://envfor.nic.in. This had been advertised within seven days from the date of issue of the clearance letter, in two local newspapers that are widely circulated in the region of which one was in the vernacular language of the locality concerned and a copy of the same had been forwarded to the regional office at Bangalore.
xvi)	Project authorities 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 and the date of commencing the land development work.	Complied, we had informed the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.

Yours faithfully

For J.K. Cement Works, Muddapur (Karnataka)

Uma Shankar Choudhary (Unit Head

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

CEMENT PLANT & 2X25 CPP MW

### HALF YEARIY AAQM REPORT (SO2, NO2, PM10, PM2.5), FOR THE MONTH OF OCTOBER-2022 TO MARCH-2023

(ALL VALUES IN MICROGRAMS / CUBIC METER)

				SO <sub>2</sub> NO <sub>2</sub>						PM <sub>10</sub>				PM2.5					
Ionth	SLNo.	Date	Week	Locations				Locations			Locations					Loca	itions		
				Admin Bld	Guest	Muddap	Bamanb udhini	Admin Bld	Guest House	Muddap ur	Bamanb udhini	Admin Bld	Guest House	Mudda	budhin	Admin	Guest	Mudda	Bamai
	1	1.10.2022	1.0	8.0	7.0	7.5	7.7	18.0	17.2	17.5	18.0	59.8	40.4	9 49 4	47.8	12.5	House 20.8	12.5	budhir 16.7
0	2	5,10,2022	lst	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
C	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
T	4	12.10.2022	2110	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
O B	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
E	6	19.10.2022	(0.50)	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
R	7	22.10.2022	441	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 29.10.2022	4th	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	3,41,2022		7.5 5.5	6.8 7.5	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
N	2	7.11.2022	İst	6.2	5.5	7.3	6.0 7.3	16.7	18.7	16.5	16.5	55.8 47.0	44.9 59.0	74.8	47.4	17.9	25.0	16.7	20.8
0	3	10.11.2022		8.2	6.7	8.8	8.8	17.8	17.0	18.0	18.0	52.8	47.7	57.6 68.4	45.9	12.5	29.2 33.3	23.8	25.0
V E	4	14.11.2022	2nd	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
M	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
В	6	21.11.2022	Jiu	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
E	7	24.11.2022	19191	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
R	8	28.11.2022	4th	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
Tiple:	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
D	2	7.12.2022	1 st	7.8	7.5	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
E	3	10.12.2022		7.8	8.0	7.0	8.0	18.8	18.0	18.0	15.0	51.0	57.5 52.7	85.1 61.3	41.0 52.4	33.3 29.2	37.5 17.9	25.8	25.0
E	4	14.12.2022	2nd	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	20.8
M	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
В	6	21.12.2022	J.G	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
E	7	24.12.2022	445	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
R	9	28.12.2022 31.12.2022	4th	8.0	8.0	7.7 8.3	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
	1	3.1.2023	1 369	7.0	8.0	6.8	5.5 7.7	18.0	18.0	19.0	17.5	52.1 89.5	48.0 79.0	53.2	57.0	29.2	33.3	31.7	33.3
J A	2	7.1.2023	lst	6.8	10.2	7.5	8.0	16.8	19.3	17.5	18.0	80.9	66.1	65.2	57.7 48.8	50.0 45.8	25.0 37.5	20.8	20.8
N	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
Ü	4	14.1.2023	Zilu	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
A	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
R	7	21.1.2023	2002	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
Y	8	28.1.2023	4th	6.8	6.8	7.0	7.5	18.5	18.0	18.0	20.3	65.4	60.2	65.4	56.2	24.6	16.7	25.0	12.5
F	1	3.2.2023		8.0	8.0	6.2	6.8	18.0	17.8	16.2	16.7	57.1	73.3 67.8	62.6	73.1	28.0	20.8	31.3	20.8
E	2	7.2.2023	Lst	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
В	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
R	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
U	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
A R	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
Y	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
	1	3.3.2023	İst	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
M	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
A	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
R	4	14.3.2023	Linu	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
C	5	17.3.2023	2-4	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
Н	6	21.3.2023	3rd	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	446	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	4th	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
	Min	niumum		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
	Ma	iximum		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
	A	verage		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
		Da							1.00	1		3. 7.0		00.0		20,7	10	20.7	1 20.3

Vanifatil Monitored by Vinit Kumar sharma Checked by



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### Plant AAQ sample

Name and Address of Customer: M/s. JK Cement Works, Muddapur

(Unit: J.K. Cement LTD.,)

Test Performed On: 20/02/2023

Muddapur -587122 Distt. Bagalkot

(Karnataka) India

Report Date: 26/02/2023

Date of Receipt of sample: 20/02/2023

Test Report No: SIRC/2023/02/4825

Test Completed on: 26/02/2023

Sample Packing: Absorbing solution Sealed Bottle and Filter

paper zip lock covered

S.N Parameters		Method	NAAQ standards		Lo	Location		
0	arameters	Method	2009	Site-1	Site-2	Site-3	Site-4	
1	Particulate Matter (PM10), μg/m3	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 (SO2), µg/m <sup>3</sup>	IS 5182 (P2):2001	80	12	16.5	9.5	21.3	
4	Nitrogen Dioxide (NO2), μg/m <sup>3</sup>	IS 5182 (P6):2006	80	15	12.5	25.4	29.3	
5	Ammonia (NH3), 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 (O3), 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)Pyerene(BaP), ng/m <sup>3</sup>	IS 5182 (Part 12):2004	01	BDL	BDL	BDL	BDL	
12	Benzene (C6H6), μg/m <sup>3</sup>	IS 5182 (Part11):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 As per NAAQMS Standards,

INFERENCE

Report Status: - - The measured values for the above parameters are within the standards

Marish AUTHORIZED SIGNATORY

> Sateesh G Muttagi Technical Manager

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

(Unit : J.K. Cement Ltd.)

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

				Stack locations						
SI. No.		Thern	nal Power Pla	int	K	iln / Raw Mi	II	DG Set		
	Month/Year	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			13.9	0.0	421.0				
2	Nov-22				17.2	0.0	410.0	-		
3	Dec-22				13.6	0.0	405.2	0 <b>x</b>		
4	Jan-23	Pla	ant Shutdown		20.9	0.0	539.0			
5	Feb-23			17.0	0.0	478.0	i.			
6	Mar-23				12.3	0.0	305.0			

		Stack locations SPM in mg/Nm3									
Sl. No.	Month/Year	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			

Vani Patil Monitored by

Vinit Kumar Sharma Checked by



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TEST REPORT

Name and Address of Customer:	<b>Report Date:</b> 05/03/2023
M/s. JK Cement Works, Muddapur (Unit: J.K. Cement LTD.,)	Date of Receipt of sample: 25/02/2023
Muddapur -587122 Distt. Bagalkot (Karnataka) India	Test Report No: SIRC/2023/02/4831
	Test Completed On: 27/02/2023
Test Performed On: 25/02/2023	Date of Monitoring: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, (m2)	19.63
Velocity, (m/s)	5.61
Flue gas Discharge, Nm3/hr	278012
Dust Emission, mg/Hr	2.6

### Results

S.No	Parameters	Unit	Results	Limits	Method
1	Particulate Matter	mg/Nm³	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

INFERENCE	As per MOEF 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

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TEST REPORT

Report Date: 05/03/2023
Date of Receipt of sample:23/02/2023
Test Report No: SIRC/2023/02/4832
Test Completed On: 25/02/2023
Date of Monitoring: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, (m2)	1.23
Velocity, (m/s)	5.21
Flue gas Discharge, Nm3/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	0/0	<1	NS	1S 11255 (P1) 2003

Note: NS: Not Specified

INFERENCE As per MOEF Standards,
Report Status: - - The measured values for the above parameters are within the standards.

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### TEST REPORT

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

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

### Stack Details

Stack Id	Cement Mill-1
Ambient Temperature ,(°C)	32
Stack Temperature, (°C)	112
Diameter, (m)	1.4
Cross Sectional Area in meter square, (m2)	1.23
Velocity, (m/s)	5.21
Flue gas Discharge, Nm³/hr	17801
Dust Emission, mg/Hr	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

INFERENCE	As per MOEF Standards, Report Status: The measured values for the above parameters are within the standards.
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TEST REPORT

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

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

Stack Details

Stack Id	Cement Mill-3
Ambient Temperature ,(°C)	32
Stack Temperature, (°C)	108
Diameter, (m)	3.75
Cross Sectional Area in meter square, (m2)	11.04
Velocity, (m/s)	5.65
Flue gas Discharge, Nm3/hr	179317.2
Dust Emission, mg/Hr	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

tandards,  - The measured values for the above parameters are within the standards.	INFERENCE
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TEST REPORT

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

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

Stack Details

Stack Id	Coal Mil
Ambient Temperature ,(°C)	29
Stack Temperature, (°C)	86
Diameter, (m)	1.80
Cross Sectional Area in meter square, (m2)	2.54
Velocity, (m/s)	5.23
Flue gas Discharge, Nm3/hr	34039.2
Dust Emission, mg/Hr	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

INFERENCE	As per MOEF Standards, Report Status: The measured values for the above parameters are within the standards.
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### TEST REPORT

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

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

### Stack Details

	and the second					
Stack Id	Clinker Cooler Stack					
Ambient Temperature ,(°C)	36					
Stack Temperature, (°C)	285					
Diameter, (m)	3.86					
Cross Sectional Area in meter square, (m2)	12.56					
Velocity, (m/s)	7.22					
Flue gas Discharge, Nm³/hr	173116.6					
Dust Emission, mg/Hr	1.23					
	N. MOND					

### 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

INFERENCE

As per MOEF Standards GSR 612 E dated 25.08 2014.

Report Status: - - The measured values for the above parameters are within the standards.

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Brazish.

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TEST REPORT

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

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

Stack Details

Crusher					
33					
59					
1.20					
1.13					
4.99					
18742.3					
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

INFERENCE	As per MOEF Standards,  Report Status: - The measured values for the above parameters are within the standards.
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### Annixule 4

## 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

00	7	6	on	4	Ç.	2	-	No.		
General Store	Plant main gate	Near Canteen	Near QC Lab.	Despatch gate	Lime Stone gate	Administrative Building	Boundary side	Location Name		
62.2	60.5	65.2	60.6	68.6	71,4	65.2	69.5	Day (dB) Leq	00	
60.7	58.2	62.5	58.4	65.2	68.5	63.8	66.8	Night (dB) Leq	Oct-22	
60.3	62.3	60.5	62.8	66.5	67.3	64.5	68.2	Day (dB) Leq	No	
56.4	58.2	58.5	60.3	63.8	64.3	62.2	65,4	Night (dB) Leq	Nov-22	
62.5	60.6	62.8	64.5	63.2	65.4	62.8	66.5	Day (dB) Leq	Dec-22	
58.8	57.6	60,4	62.8	61.6	63.5	60.7	63.6	Night (dB) Leq	-22	
64.6	65.5	60.7	66.8	62.5	67.8	61.2	65.6	Day (dB) Leq	Ja	
62.7	63,4	58.5	63.5	60,7	65.3	58.6	62.5	Night (dB) Leq	Jan-23	Ambient Noise
65.9	68.6	62.8	67.5	68.7	70.5	64.8	67.5	Day (dB) Leq	Feb-23	oise
63.8	66.2	60.7	64.6	65.6	68.5	62.7	65.3	Night (dB) Leq	-23	
62.6	67.9	64.7	63.8	65.5	72.5	62.7	68.5	Day (dB) Leq	Ma	
59.5	62.6	1.09	60.7	63.2	67.5	60.4	62.8	Night (dB) Leq	Mar-23	
60.3	60.5	60.5	60.6	62.5	65.4	61.2	65.6	Day (dB) Leq	Min	
56.4	57.6	58.5	58.4	60.7	63.5	58.6	62.5	Night (dB) Leq	Minimum	
65.9	68.6	65.2	67.5	68.7	72.5	65.2	69.5	Day (dB) Leq	Max	
63.8	66.2	62.5	64.6	65.6	68.5	63.8	66.8	Night (dB) Leq	Maximum	
63.0	64.2	62.8	64.3	65.8	69.2	63.5	67.6	Day (dB) Leq	Av	
60.3	61.0	60.1	61.7	63,4	66.3	61.4	64.4	Night (dB) Leq	Average	

17 18 19	17 18	17	17	ot	7.1	15	14	13	12	Ξ	10 Re	9	80 R	7	6	S	4	3	2	-	. 10.	2 01	0
Lruck Loading point- 4		Truck Loading point- 3	Truck Loading point- 2	Truck Loading point- 1	Cement silo Packer-4	Cement silo Packer-3	Cement silo Packer-2	Cement silo Packer-1	CM-2 weigh feeder	CM-1 weigh feeder	lear silo clinker loading poir	coal mill	Raw mill proporting hopper	Gypsum yard	Slag yard	Coal Yard	Power Plant	Kiln Platform	Kiln/ Cooler	Lime Stone Crusher		Location Name	
	73.7	75.6	72.4	70	78.5	76.5	72.6	80.4	72.2	70.4	74.3	72.7	70.8	62.8	60.7	64.3	50.6	79.6	80.5	78.6	Leq	(dB)	Oct-22
	74.5	72.8	68	73	80.5	73.6	72.4	80.6	73.7	70.2	68.5	72.8	68.5	63.7	62.5	60.6	50.2	78.5	80.6	82.5	Leq	(dB)	Oct-22 Nov-22 Dec-22
	75	74	70	75	81	78	76	82	75	72	70	73	70	6]	64	62	52	80	82	84	Leq	(dB)	Dec-22
	78	76	72	76	82	80	75	84	78	75	73	72	74	62	66	64	56	78	80	82	Leq	(dB)	Jan-23
	77	75	73	78	80	78	73	82	76	7.4	71	70	72	64	68	66	58	76	82	80	Leq	(dB)	Feb-23
	76	78	75	77	73	76	74	80	76	78	73	72	74	68	66	64	60	74	80	82	Leq	(dB)	Mar-23
	73.7	72.8	68	70	73	73.6	72.4	80	72.2	70.2	68.5	70	68.5	61	60.7	60.6	50.2	74	80	78.6	(dB) Leq	/dbyl as	Minimum
	78	78	75	78	82	80	76	84	78	78	74.3	73	74	68	68	66	60	80	82	84	(dB) Leq	/ABVI an	Maximum
	75.7	75.2	71.7	74.8	79.2	77.0	73.8	81.5	75.2	73.3	71.6	72.1	71.6	63.6	64.5	63.5	54.5	77.7	80.9	81.5	(dB) Leq	Japyraa	Average



Vinit Kumar Sharma Checked by

# 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

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

Van Patil Monitored by

Vinit Kumar Sharma Checked by Mount



#91/43,1stFloor,8th 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

Report Date:26/02/2023
Date of Receipt of sample:22/02/2023
Test Report No: SIRC/2023/02/4925-4932
Test Completed on:22/02/2023

RESULTS

Sample	Collected By	Sample Nature	Sample Location	Sample Condition on Receipt
5	SIRC	Fugitive Emission Monitoring	Mentioned Below	Satisfactory
Job Code		Locations	SPM (ug/m3)	Fugitive emission standard as per CPCB
4925	Near slag Stora	age shed	1645.3	
4926	Near Gypsum	Storage Shed	1232.5	
4927	Near Cement N	Mill Area	1303.3	
4928	Near Laterite S	Storage Area	1287.5	5000µg/m3
4929	Near Cement F	Plant Coal Storage Shed	1580.4	
4930	Near Lime Sto	ne Crusher area	1645.9	
4931	Near Packing I	Plant area	1298.4	
4932	Near CPP Coa	l storage shed	1249.9	2000µg/m3

AUTHORIZED SIGNATORY

Sateesh G Muttagi Technical Manager

- 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.

## 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	Temperature (°C) max	pH value	Oils and Grease (mg/L)
Permissible limit				
Oct-22				
Nov-22				
Dec-22		PLANT SHU	SHUT DOWN	
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	NI.

Vani Patil Monitored by

Vinit Kumbr Sharma
Checked by



#91/43,1stFloor,8th 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.

### STP WATER ANALYSIS REPORT

Name and Address of Customer:

M/s. JK Cement Works, Muddapur

(Unit: J.K.CementLTD.,) Muddapur -587122 Dist. Bagalkot (Karnataka) India Date of Receipt of sample: 25/02/2023

Test Performed On: 25/02/2023

Test Completed On: 05/03/2023

Report Date: 05/03/2023

Test Report No: SIRC/2023/02/4994

SI.	Parameters	Protocol	Re	sult	Standards As
No			STP In Let	STP Out Let	IS:3025
1.	рН	APHA 23rd 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 23rd Edition- 2017, 5210B	42	6.2	10
4.	COD, mg/lt	APHA 23rd Edition- 2017, 5220B	121	19.5	50
5.	Ammonical Nitrogen mg/lt	APHA 23rd Edition-2017, 4500 NH3C	3.6	1.7	05
5.	Phosphorous as P	APHA 23rd Edition-2017, 4500 P D	1.28	0.55	2
7.	Total Nitrogen mg/lt	APHA 23rd Edition-2017, 4500- NO3E, 4500 NH3C ,4500Norg	6.9	4.5	10
8.	Faecal Coliforms, cfu/100ml	APHA 23rd Edition-2017, 9222 D	Present	Absent	250

AUTHORIZEDSIGNATORY Dr. Siddalingeshwara K G Quality Manager

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- 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.
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  \*\*\*\*\*We Provide Environmental Services\*\*\*\*\*

### 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 (AFR purchase, Fly ash and Slag purchase) 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
TOTAL (Rs in Lakhs)	6217.43

Prepared by

Checked by

## JK CEMENT WORKS, MUDDAPUR

D	DETAILS OF CSR ACTIVITY UNDERTAKEN DURING OCTOBER-2022 TO MARCH-2023	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 contribututions	1,199,352
5	Rural development & other welfare activities	139,699
	Total	2648349

Prepared by

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