

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

CIN: L17229UP1994PLC017199

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No.JKCW/ENV/2022-23/ EC Compliance/2nd Half(PLANT)/89/21

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-2022 to Mar-2023 (2nd Half) for JK Cement Works, Village- Muddapur, Taluka-Mudhol, District- Bagalkot (Karnataka)

Ref: MoEF Letter F. No. J-11011/489/2006-1A. II (I)/dtd.14-09-2007

Dear Sir,

With reference to aforesaid subject and reference matter, we are here by sending the enclosed pointwise environmental clearance compliance report for the period Oct-2022 to Mar-2023 (2^{nd} Half) of JK Cement Works, Muddapur, (Unit: JK Cement Ltd) (Cement Plant -2.20 MTPA Clinker & 2.50 MTPA OPC and Captive Power Plant 2 x 25 MW, for JK Cement Works, Village-Muddapur, Taluka-Mudhol, District-Bagalkot, Karnataka, along with Annexure-1 to 8.

This for your kind perusal and acknowledge the receipt.

Thanking you

Yours faithfully

For J.K. Cement Works

Umashankar Chaudhary

(Unit Head)

Enclosures as above:

- 1. EC Compliance Report Annexure-1
- 2. AAQ Monitoring Annexure -2
- 3. Stack Emission Monitoring -Annexure -3
- 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 SUPER CEMENT



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, 1st & 2nd Floors, Nisarga Bhavan, A-Block, Thimmaiah, Main Road, 7thD Cross, Shivanagar, Opp. Pushpanjali Theatre, Bengaluru
- 4- Member Secretary, Karnataka Pollution Control Board, Church Street, Bangalore
- 5- The Environmental officer, Karnataka State Pollution Control Board, Bagalkot 587102

Reference: - MoEF vide Letter F. No. J-11011 / 489 / 2006-1A. II (I) / dated. 14th September 2007

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

A. Specific Conditions:

Annexure-1

Electrostatic precipitator (ESP) to cooler, Bag House to Raw mill, Bag filter to coal kiln burner and pre-calciner shall be provided. Online gas analyzer for O₂, CO, emission at kiln inlet and power House out let and on line dust monitor to kiln and cooler shall be provided. A closed clinker system shall be adopted to control fugitive emission. Water sprinkler shall be done in raw material stock yard and cement bag loading areas.

Complied. Electrostatic precipitator (ESP) to cooler, Bag House to Raw mill, Bag filter to coal kiln burner and pre calciner have been provided. Online gas analyzer for O2, CO, emission at kiln inlet and online dust monitor to kiln and cooler have been provided. A closed clinker system has been adopted to control fugitive emission. Water sprinkler is done in raw material stock yard and cement bag loading areas.

ii. The total water requirement from Ghatprabha River source shall not exceed 1046.4 m³/day. The treated waste water shall be recycled and reused in the process and or for dust suppression, green belt development and other plant related activities etc. The Effluent generated by CPP will also be used in the cement manufacturing process. No process waste water shall be discharged outside the factory premises and zero discharge shall be adopted. Domestic effluent treated in sewage treatment plant (STP) shall be used for green belt development within the plant and colony areas.

Complied, the water requirement from Ghataprabha river is not exceeding the specified quantity. Dry manufacturing process has been adopted for cement manufacturing so no waste water is generated in cement plant. The treated waste water, generated in CPP, is being used for dust suppression, green belt development, other plant related activities /process. So, no process waste water is being discharged outside the factory premises and zero discharge is being adopted. Domestic effluent treated in sewage treatment plant (STP) is used for green belt development within the plant and colony areas.

iii. The fly ash and bottom ash generated from the power plant shall be used in the process itself for manufacturing PPC. All the cement dust collected from the pollution control devices shall be recycled and reuse in the process and used for cement manufacturing. The fly ash utilization shall be as per the provision stipulated in the fly ash notification of September, 1999 and amended in august, 2003. STP sludge shall be

Complied. The fly ash and bottom ash generated from the power plant is being used in the manufacturing of PPC, however our CPP is not in operation since 02.11.2021. The cement dust collected from the pollution control devices is recycled back in the cement manufacturing. The fly ash utilization is as per the

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A	used as manure for green belt development. Used oil shall be sold to authorized recycler / re processor only.	provision stipulated in the fly ash notification of September, 1999 and amended in august, 2003. Quarterly & Annual report on fly ash utilization is being submitted to SPCB/MoEF/CEA. STP sludge is utilizing as manure for green belt development. Used oil/waste oil in our kiln is being handed over to authorized recycler/re-processor only.
iv.	High calorific hazardous waste shall be utilized in the cement plant.	Complying. We obtained permission from KSPCB for co-processing various Hazardous and Non-Hazardous wastes vide KSPCB authorization no. 327139 dated 29th September 2021, for co-processing in our kiln and the same is practiced.
V.	As proposed in EIA / EMP, green belt shall be developed in 80 ha. (66%) out of total 120 ha. As per the CPCB Guidelines to mitigate the effect of air emission in consultation with local DFO.	As a part of green belt development, we have received a certificate from forest department via. Letter no. B2.GFL/Mines/2007-08/597 dated 30-08-2007 regarding availability of local Flora and Fauna in Mudhol Taluka.
385		Green belt has been developed in phased manner so far we have covered 46.03% of green cover @ 118.94 acres out of 258.37 Acres in plant and colony. As 66% is misprinted and it is corrected in the amendment taken on 2010 EC.
Gene	eral Condition :	
i.	The project authorities shall adhere to the stipulation made by Karnataka State Pollution Control Board and State Government.	Noted.
ii.	No further Expansion or modification of the plant shall be carried out without prior approval of	Agreed. We have obtained environmental clearance for

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	Ministry or rules made there under.	expansion of Cement Grinding Unit (2.50 MTPA to 3.5 MTPA) via. MoEF Letter No. F.No. J-11011/263/2009-IA II (I) dated 21-06-2010 and also obtained permission for manufacturing the cement based adhesive without increasing the production capacity from MoEF via F. No. J 11011/263/2009- IA II (I) dated 26 September 2012.
iii.	The gaseous and particulate matter emission from various units shall confirm to the standards prescribed by the KSPCB. Interlocking facilities shall be provided in the pollution control so that in the event of the pollution control equipment not working, the respective unit(s) is shutdown automatically.	Complying, we have provided online monitoring instruments at all major stacks and the gaseous and particulate matter emissions from within the standards as prescribed by the Ministry/KSPCB. Interlocking facilities have been provided in pollution control equipment.
iv.	One Ambient Air Quality Monitoring station shall be installed in down wind direction. Ambient air quality including Ambient Noise Level shall not exceed the standard stipulated under EPA or by the state authorities. Monitoring of Ambient air quality and stack emission shall be carried out regularly in consultation with KSPCB and report submitted to the KSPCB quarterly and to the Ministry Regional Office at Bangalore Half Yearly.	Complied, 4 No's of AAQ stations are installed to monitor Ambient air quality including ambient Noise level is not exceeding the standard stipulated under EPA or by the state authorities. In consultation with KSPCB Environmental Monitoring of Ambient Air Quality and Stack Emission are being carried out. The reports are being submitted to the KSPCB Monthly, Quarterly & Half Yearly and Regional Office of Ministry at Bangalore on Half Yearly.
V.	The Company shall install adequate dust collection and extraction system to control fugitive dust handling (Unloading, conveying, transporting, and stacking) vehicular movement, bagging and packing areas etc. Asphalting / concreting of roads and water spray all around the stock yard and loading / unloading areas shall	Complied, we have installed adequate dust collection and extraction system to control fugitive dust handling. Asphalting / concreting of roads and water spray all around the stock yard and loading / unloading areas are being carried

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	be carried out to control fugitive emission. Covered sheds for storage of raw materials and fully covered conveyors for transportation of materials shall be provided besides coal, cement, fly ash and clinker shall be stored in silos.	out to control fugitive emission. Covered sheds for storage of raw materials and fully covered conveyors for transportation of materials have been provided besides coal. Cement, fly ash and clinker are stored in silos.
vi.	Prior permission from the State Ground water Board, Central Ground Water Authority (SGWB / CGWA) regarding drawl of ground water shall be obtained.	Permission to abstract Ground water is obtained from Karnataka Ground Water Authority, Bangalore via. Letter no. KGWA/GW/NOC/32/2020-21/4323 dated 30.03.2021.
vii.	The company must harvest the rain water from the roof tops and storm water drains recharge the ground water and use the same water for the various activities of the project to conserve fresh water.	Complying, rain water harvesting structures have been adopted from roof tops. Storm water drains are paved for recharging the ground water in colony and cement plant.
vIII.	The company shall undertake eco-development measures including community welfare measures in the project areas.	Complying, we are undertaking eco- development measures under CSR, the expenditure incurred from October-22 to March-23 for community welfare is enclosed as Annexure-8. Additionally, RDF/Plastic from nearby ULB's and Hazardous wastes, non- Hazardous wastes is being used for Manufacturing of PPC/Slag cement.
ix.	The overall noise levels in and around the plant area shall be kept well within the standards (85dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall confirm to the standards prescribed under Environments (Protection) Act, 1986 Rules 1989 viz 75 dBA (Day Time) and 70 dBA at (Night Time).	Complying, the overall noise levels in and around the plant area is well within the standards (85dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels are well within the standard prescribed under Environments (Protection) Act, 1986 Rules 1989 viz 75 dBA (Day Time) and 70 dBA (Night Time). Ambient noise level monitoring report for the Period

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		October-2022 to March-2023 is enclosed as Annexure-4
х.	All recommendations made in the Corporate Responsibilities for Protection (CREP) for 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.
1.	Cement Plants, which are not complying with notified standards, shall do the following to meet the standards: • Augmentation of existing Air Pollution Control Devices -by July 2003 • Replacement of existing Air Pollution Control Devices -by July 2004	Complying.
2	Cement Plants located in critically polluted or urban areas (including 5-km distance outside urban boundary) will meet 100 mg/Nm3 limit of particulate matter by December 2004 and continue working to reduce the emission of particulate matter to 50 mg/Nm3	We are maintaining the emission level below 30 mg/Nm³ for particulate matter as per MoEF Notification Vide GSR 612(E) dated 25.08.2014.
3	The new cement kilns to be accorded NOC/Environmental Clearance w.e.f. 01.04.2003 will meet the limit of 50 mg/Nm³ for particulate matter emissions	The emission level of particulate matter is maintaining below 30 mg/Nm ³ for kiln/raw mill as per the prescribed standards.
4	CPCB will evolve load based standards by December 2003	MoEF & CC has released notification on load based standards on 10 th May 2016, for cement plants with coprocessing for rotary kiln (Raw mill, kiln and precalciner system put together) not exceeding 0.125kg/tonne of clinker and complying the same.
5	CPCB and NCBM will evolve SO2 and NOx emission standards by June 2004	Emission standards (for SO ₂ & NO _x) are notified by MoEF&CC vide notifications G.S.R. 612(E) dt. 25/08/2014, G.S.R. 496(E) dt. 09/05/2016 and G.S.R. 497(E) dt. 10/05/2016 are complying. Additionally We have installed DeNOx system (SNCR) to control NO _x

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		emissions
6	The Cement industries will control fugitive emissions from all the raw material and products storage and transfer points by December 2003. However, the feasibility for the control of fugitive emissions from limestone and coal storage areas will be decided by the National Task Force (NTF). The NTF shall submit its recommendations within three months	The fugitive dust emissions are controlling by implementing the below practices. Raw materials, product sheds, transfer points and belt conveyors are fully covered. Bag filters are installed at all transfer points. Concreted Roads are paved to suppress the dust emissions.
7	CPCB, NCBM, BIS and Oil refineries will jointly prepare the policy on use of petroleum coke as fuel in cement kiln by July 2003	Complied. We are using petroleum coke as a fuel in cement kiln after obtaining permission from KSPCB.
8	After performance evaluation of various types of continuous monitoring equipment and feedback from the industries and equipment manufacturers, NTF will decide feasible unit operations/sections for installation of continuous monitoring equipment. The industry will install the Continuous Monitoring Systems (CMS) by December 2003	Complied. We have already installed online continuous emission monitoring stations (OCEMS) at all major stacks and the data is connected to CPCB and KSPCB servers.
9	Trippings in kiln ESP to be minimized by July 2003 as per the recommendation of NTF	Reverse Air Bag House has been installed at Raw Mill/kiln in place of ESP for minimization of Kiln tripping.
10	Industries will submit the target date to enhance the utilization of waste material by April 2003	Complied, utilization of various wastes in kiln as a supplementary fuel.
11	NCBM will carry out a study on hazardous waste utilization in cement kiln by December 2003	Complied. Hazardous and other waste from various industries is being co processed in cement kiln.
12	Cement industries will carry out feasibility study and submit target dates to CPCB for co- generation of power by July 2003	Captive power plant of 50 MW has been installed to cater our plant and colony requirements, also 5MW Solar Plant has been installed as green energy.
xi.	Proper housekeeping and adequate occupational health program shall be taken up.	Complying, Proper housekeeping and adequate occupational health programmes are being taken up.

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xii.	A separate Environmental Management cell to carry out various management and monitoring function shall be set up under control of Sr. Executive.	Complied, a separate Environmental Management cell has been established headed by Unit Head to carry out Environmental monitoring and various management function.
xiii.	Rs.8.70 crores earmarked for environmental pollution measures shall be suitable used to implement the condition stipulated by the Ministry of Environment and Forest as well as the State Government. The fund so provided shall not be diverted for any other purpose.	Complied, expenditure incurred on environmental pollution control measures taken up on environment management plan and the details of expenditure are enclosed as Annexure-7.
xiv.	The Regional of this Ministry at Bangalore / CPCB / KSPCB shall monitor the stipulated condition. A six monthly compliance report and monitor data along with statistical interpretation shall be submitted to them regularly.	Complying, six monthly compliance report along with statistical interpretation of environmental monitoring data is submitting regularly to The Regional office of Ministry at Bangalore, CPCB & KSPCB.
XV.	The project authorities shall inform the Regional office as well as the Ministry, the date of financial closure and final approval of the project by concerned authorities and the date of commencing the land development work.	Complied, The Project has been successfully commissioned and informed to the Regional office of Ministry.
xvi.	The project proponent shall inform the public that the project has been accorded environmental clearance by Ministry and copies of the clearance letter are available with the Karnataka Pollution Control Board / committee and may be seen at website of the Ministry of Environment and Forests at http: www.envfor.nic.in. This should be advertised within seven days from the date of issues of 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 shall be forwarded to the regional office at Bangalore.	Complied, we had informed to the public that the project has been accorded environmental clearance by Ministry and copies of the clearance letter are available with the Karnataka Pollution Control Board / committee and may be seen at website of the Ministry of Environment and Forests at http: www.envfor.nic.in.
6.0	The Ministry or any other competent authority may stipulate any further condition(s) on	Noted.

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

	receiving reports from the project authorities. The above conditions shall be monitored by the Regional offices of this Ministry located of Bangalore.	
7.0	The Ministry may revoke or suspend the clearance if implementation of any of the above condition is not satisfactory.	Noted.
8.0	Any other condition or alteration in the above conditions shall to be implemented by the project authorities in a time bound manner.	Noted.
9.0	The above conditions shall be enforced, inter-alia under the provisions of The Water (Prevention and control of pollution) Act, 1974, the Air Act. 1981, The Environment Protection Act 1986 and The Public Liability Insurance Act, 1991 along with their amendments and rules.	Noted.

Thanking you,

Yours Faithfully

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 ₂ NO ₂							PN	110		PM2.5				
Ionth	SLNo.	Date	Week	Locations					Loc	ations		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
0	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
B	6	19.10.2022	(Cases)	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		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	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	29.10.2022 3.41.2022		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
N	2	7.11.2022	İst	5.5	7.5	7.3	7.3	16.7	18.7	16.5	16.5	55.8	44.9	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	18.3	47.0 52.8	59.0 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	2.4	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	210	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		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
Nov.	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 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	2002	7.8	8.0	7.0	8.0	18.0	17.5	17.3	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
C	-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	Sid	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	4.90	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	8 9	28.12.2022 31.12.2022	4th	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
	1	3.1.2023	1 000	8.0 7.0	8.0	8.3 6.8	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
J A	2	7.1.2023	lst	6.8	10.2	7.5	8.0	16.8	19.3	17.5	17.8 18.0	89.5 80.9	79.0 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	25.0
Ü	4	14.1.2023	Znd	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		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	24.1.2023 28.1.2023	4th	6.8	8.0 6.8	7.0	10.3 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	16.8	17.5	16.8	17.5	57.1	73.3 67.8	62.6	73.1	28.0	20.8	31.3	20.8
Е	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	33.3
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	- Mu	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	6	21.2.2023	1505.00	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
R	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
1	8	28.2.2023	0.00	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	177	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	Lilli	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	2.1	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	4.4	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	-
	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	49.2	32.5	30.7 45.4
	Mir	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				1,500	1.000		- 600	2.2.55		W. T. W.	.00.5	00.0	20.0	20.4	27.0	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	S.N Parameters Method		NAAQ standards	Location					
0	- manieters	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 ³	40CFR Part 53& 58	60	33	25.7	40.5	45.2		
3	Sulfur Dioxide (SO2), µg/m ³	IS 5182 (P2):2001	80	12	16.5	9.5	21.3		
4	Nitrogen Dioxide (NO2), µg/m ³	IS 5182 (P6):2006	80	15	12.5	25.4	29.3		
5	Ammonia (NH3), μg/m ³	Method 401, Air Sampling	400	18.4	10.4	30.4	24		
6	Carbon Monoxide (CO), mg/m ³	Non-Dispersive Infra-Red Method	04	ND	ND	ND	ND		
7	Ozone (O3), µg/m ³	Method 411, Air Sampling	180	9.6	6.5	16.1	18.5		
8	Lead (Pb), μg/m ³	EPA compendium method IO 3.2	1.0	BDL	BDL	BDL	BDL		
9	Nickel (Ni), ng/m ³	EPA compendium method IO 3.2	20	BDL	BDL	BDL	BDL		
10	Arsenic (As), ng/m ³	EPA compendium method IO 3.2	06	BDL	BDL	BDL	BDL		
11	Benzo(a)Pyerene(BaP), ng/m ³	IS 5182 (Part 12):2004	01	BDL	BDL	BDL	BDL		
12	Benzene (C6H6), μg/m ³	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	9 .			
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					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:	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/2023/02/4831
	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 ³	ND	100	IS 11255 (P2) 2003
4	Oxides of nitrogen	mg/Nm ³	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 ³	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 (Unit: J.K. Cement LTD.,)	Date of Receipt of sample: 24/02/2023		
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	ollected By Sample Nature Sta		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 ³	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 ³	14.1	30	IS 11255 (P1) 2003
2	Moisture	%	<1	NS	IS 11255 (P1) 2003

Note: NS: Not Specified

MOEF Standards, t Status: 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 ³	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
(Kaliataka) iilila	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 ³	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

Report Date: 05/02/2023
Date of Receipt of sample:26/03/2023
Test Report No: SIRC/2023/02/4837
The state of the s
Test Completed On: 01/03/2023
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 ³	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	
58.8	57.6	60,4	62.8	61.6	63.5	60.7	63.6	Night (dB) Leq	Dec-22	
64.6	65.5	60.7	66.8	62.5	67.8	61.2	65.6	Day (dB) Leq	Ji	
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 17 18 20	17 17 18	17	17	16		15	14	13	12	Ξ	10 No	9	8 R	7	6	S	4	3	2	_		5	0
THURS FORMING BOHRS 4	Truck codmin point A	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	7.4	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	harr (cm)	(AB) I an	Minimum
-	78	78	75	78	82	80	76	84	78	78	74.3	73	74	68	68	66	60	80	82	84	herr (cm)	(dB) I ao	Maximum
200	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	(dr) red	(AB) I an	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 ³)			
SL. NO.	MONTH/YEAR	Gypsum Yard	Slag Yard	Flyash Yard	Cement mill	Lime stone unloading hopper	Lime stone crushing Site	Coal Yard	10=11
1	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	
S	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
T-4 C-14 1 20/00/2000
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

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.

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	N.I.

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 rd 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

NOTE

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- 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*****

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
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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