

JK Cement Works, Muddapur

(Unit: J.K. Cement Ltd) CIN: L17229UP1994PLC017199

+91-8350-289607 ⊕9 www.jkcement.com

No.JKCW/ENV/2022/ EC Compliance/1st Half(PLANT)/89/17

Date- 19-11-2022

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

Sub: Half Yearly Environmental Clearance Compliance report for the period from Apl-2022 to Sept-2022 (1nd 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 Apl-2022 to Sept-2022 (1st 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 Ch

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

- Padam Tower, 19 DDA Community Centre Okhla, Phase - 1, New Delhi - 110020, India
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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 April - 2022 to Sept- 2022

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 on line 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. The cement dust collected from the pollution control devices is recycled back in the cement manufacturing. The fly ash utilization is as per the provision stipulated in the fly ash notification of September,

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	used as manure for green belt development. Used oil shall be sold to authorized recycler / re processor only.	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 29 th 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.
		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.
Gen	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 Ministry or rules made there under.	Agreed. We have obtained environmental clearance for expansion of Cement Grinding Unit (2.50 MTPA to 3.5 MTPA) via. MoEF

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

	Le compliance Report for the period Apr	11 - 2022 to Sept- 2022
	i.	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 be carried out to control fugitive emission. Covered sheds for storage of raw materials and	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 out to control fugitive emission. Covered sheds for storage of raw

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	fully covered conveyors for transportation of	materials and fully covered
	materials shall be provided besides coal, cement, fly ash and clinker shall be stored in silos.	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 April- 22 to Sept-22 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 April-2022 to Sept-2022 is enclosed as Annexure-4

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	ze compliance report for the period Apr	
X.	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 NOx emissions
6	The Cement industries will control fugitive	The fugitive dust emissions are

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	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	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 .
xi.	Proper housekeeping and adequate occupational health program shall be taken up.	Complying, Proper housekeeping and adequate occupational health programmes are being taken up.
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

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	EC Compliance Report for the period Apr	II - 2022 to Sept- 2022
		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 receiving reports from the project authorities. The above conditions shall be monitored by the Regional offices of this Ministry located of	Noted.

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EC Compliance Report for the period April - 2022 to Sept- 2022

	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)

Annexuse-2

J.K. Cement WORKS, MUDDAPUR (KARNATAKA)

CEMENT PLANT & 2X25 CPP MW

QUARTERLY AAQM REPORT (SO2, NO2, PM10, PM2.5), FOR THE MONTH OF APRIL-2022 TO SEPTEMBER-2022

(ALL VALUES IN MICROGRAMS / CUBIC METER) SO2 NO. PM 10 PM2.5 Month Sl. No. Date Week Locations Locations Locations Locations В D (A B (D B C D 01.4.2022 8.0 7.2 6.8 17.0 18.0 17.8 18.2 32.5 59.3 59.9 30.6 20.8 258 22.8 253 lst 05.4.2022 8.0 18.0 18.0 18.0 16.8 66.2 63.4 40.8 42.5 33.3 28.3 25.6 23.5 A 08.4.2022 6.8 7.6 7.2 6.3 168 167 17.8 16.7 70.1 68.8 35.6 33.2 29.2 20.5 2nd p 4 12.4.2022 6.7 7.0 8.0 7.0 16.7 17.7 18.2 17.6 72.7 38.7 35.6 37.5 33.3 23.7 68.8 20.5 15.4.2022 6.2 63 6.3 17.3 17.5 16.5 17.8 72.8 61.1 45.3 42.8 25.0 20.8 18.8 22.8 3rd 19 4 2022 6 8.0 7.0 18.0 195 18.5 61.9 58.0 36.5 34.4 375 292 258 20.6 22.4.2022 6.8 8.0 6.8 6.5 16.7 18.0 17.6 17.2 68.6 65.8 43.6 41.8 25.0 31.3 22.4 18.4 4th 8 26.4.2022 8.0 6.7 7.3 7.0 18.0 16.7 16.8 16.5 72.3 60.8 47.5 43.5 29.2 25.0 230 20.8 Q 29.4.2022 8.3 8.0 18.0 18.2 18.0 18.2 77.1 72.0 42.8 40.6 37.5 37.5 21.8 19.0 3.5.2022 63 78 190 183 173 18.6 76.7 68.6 65.5 29.2 33.3 30.6 354 1st 6.5.2022 6.8 8.3 8.0 17.7 18.5 18.2 71.4 64 2 37.5 65 8 70.6 375 28.5 33.3 10.5.2022 6.2 6.0 6.7 7.6 16.5 16.5 17.7 17.5 79.1 70.4 25.0 69.1 68.5 20.8 292 2nd M 4 13.5.2022 17.5 17.7 17.8 169 816 77 3 73.5 70.2 250 290 30.0 28.0 17.5.2022 7.5 a 8.0 6.7 8.0 18.0 17.2 18.0 18.4 74.1 60.3 64.5 72.8 292 32.0 28.0 3rd 30.0 У 6 20.5.2022 7.3 7.7 7.5 19.2 17.8 18.8 17.2 65.2 74.6 34.6 86.5 68.5 252 28 5 24.5.2022 7.8 7.3 8.0 17.5 8.1 18.0 17.7 17.8 77.6 69.8 72.3 76.1 32.8 27.0 30.0 36.0 27.5.2022 8 4th 17.0 18.0 16.6 70.7 74.4 70.2 71.6 333 28.0 32.0 32.0 9 31.5.2022 7.7 7.4 17.7 18.6 75 1 173 60.2 30.0 32.0 30.0 30.5 3.6.2022 7.8 7.5 8.5 8.0 18.0 17.8 19.5 18.0 81.5 77.6 40.3 45.5 20.8 20.8 25 0 16.7 1st 7.6.2022 8.3 9.2 8.2 19.0 18.0 18 5 188 73.5 80.7 37.9 56.8 18.7 16.7 20.8 20.8 J 10.6.2022 85 7.8 80 177 19.0 18.0 17.0 29.1 18.7 45.2 47.7 2nd 8.3 14.6 175 250 11 4 14.6.2022 8.0 8.0 9.0 18.0 18.3 190 17.8 459 44.5 470 52.7 6.2 8.3 23.3 n 17.6.2022 8.5 8.2 8.2 9.0 18.0 18.0 18.2 19.0 59.5 47.2 35.3 574 10.4 12.5 20.8 18.8 e 21.6.2022 6 8.8 19.0 195 175 18.8 436 16.8 30.9 48.8 12.5 19.2 25.0 12.5 24.6.2022 8.2 7.3 8.0 168 177 18.0 28.2 15.7 390 52.5 8.3 9.6 33.3 22 9 4th 8 28.6.2022 7.5 8.0 9.2 6.7 17.5 18.5 19.2 62.3 433 45.4 46.5 16.7 16.7 20.8 16.7 1.7.2022 7.7 5.7 6.3 6.0 17.7 16.0 16.0 17.0 56.8 57.2 61.0 57.8 29.2 23.0 242 20.8 1st 5.7.2022 8.8 7.2 77 7.7 18.8 17.5 17.3 177 52.6 16.7 41.3 56.7 50.6 29.6 20.8 25.0 3 8.7.2022 6.8 6.8 68 80 16.8 18.0 18.2 16.7 66.2 55.1 49.9 47.8 20.8 20.8 18.7 29.7 2nd 4 12.7.2022 7.8 7.0 7.3 6.0 17.8 16.8 17.0 17.3 57.7 61.1 64.1 53.5 25.8 29.2 25.0 22.0 u 5 15.7.2022 8.0 8.5 77 8.3 18.8 18.7 44.1 1 18.7 18.3 57.1 57.9 50.3 12.5 250 16.7 22.5 3rd 6 19.7.2022 7.5 y 8.0 8.0 6.7 17.8 18.8 17.8 16.7 67.7 59.4 59.4 61.0 16.7 292 15.8 18.8 22.7.2022 6.7 8.0 18.2 17.3 17.7 18.0 48.3 66.5 54.8 12.5 62.0 20.8 20.4 22.1 8 26.7.2022 4th 8.0 7.2 7.6 92 18.0 17.7 17.6 19.2 58.1 60.8 65.1 58.9 16.7 17.5 229 20.8 9 29.7.2022 8.0 8.0 8.8 18.0 18.0 17.8 18.0 63.7 67.5 67.1 59.4 27.5 16.7 19.6 25.0 1 2.8.2022 8.0 6.8 6.8 6.8 18.0 17.0 16.8 17.3 40.7 36.8 35.8 45.0 179 8.3 4.2 9.2 Ist 2 5.8.2022 7.5 80 8.3 17.5 80 18.0 18.3 18.0 47.9 40.3 30.5 34.2 4.2 6.7 12.5 8.3 A 3 9.8.2022 7.7 82 7.7 9.6 18.3 19.0 17.7 19.2 42.3 34.6 39.9 39.9 12.5 14.6 7.5 13.3 2nd u 4 12.8.2022 8.3 9.2 8.3 7.2 19.2 18.5 18.3 17.7 48.6 47.0 45.7 48.1 12.5 8.3 12.9 13.3 g 5 16.8.2022 90 8.7 8.3 7.5 19.0 19.0 19.2 18.0 45.4 32.2 43.3 39.1 7.5 8.3 12.9 133 u 3rd 6 19.8.2022 7.7 6.8 7.3 8.0 17.7 S 16.7 18.2 18.0 37.7 34.8 48.1 41.6 8.3 12.5 10.0 10.4 7 t 23.8.2022 7.3 7.3 6.5 6.7 17.3 17.3 17.2 16.7 38.9 31.8 33.3 39.8 11.3 6.2 5.0 8.3 8 4th 26.8.2022 94 7.0 7.3 19.2 83 16.8 17.5 19.6 43.2 32.1 30.9 45.0 12.5 12.5 9.2 9.2 9 30.8.2022 8.2 8.0 7.0 7.5 18.2 18.0 18.0 18.0 42.0 44.0 46.9 41.8 16.7 25.0 13.3 9.6 1 7.7 5.7 04.9.2022 6.8 6.0 17.7 16.7 S 16.8 17.0 54.8 40.0 50.9 37.8 12.5 12.5 21.7 146 1st 2 e 07.9.2022 6.3 7.3 7.7 7.7 177 177 48.0 45.9 41.4 47.7 17.5 20.8 18.8 20.8 11.9.2022 p 6.8 6.2 8.0 8.0 16.8 16.8 180 16.7 50.4 48 9 33.0 48.8 16.7 15.8 16.7 2nd 4 14.9.2022 8.0 8.5 8.8 7.3 180 18.5 19.8 17.3 16.7 56 1 32 0 45.9 333 18.8 12.5 8.3 e 18.9.2022 6.8 7.8 6.8 8.3 17.8 18.8 16.8 18.3 52.7 30.8 50.5 32.5 14.2 14.6 10.0 3rd m 21.9.2022 7.7 6.7 8.0 6.7 17.8 17.3 17.5 16.7 59.6 393 35.1 43.7 18.8 17.5 20.8 146 b 24 9 2022 78 8.7 8.2 8.0 18.0 19.0 18.7 18.0 53.3 46.9 42.1 38 4 14.2 15.8 22.9 20.8 e 8 28.9.2022 7.2 75 88 97 178 17.5 18.8 192 57.9 55.6 40.0 48 1 205 18.3 19.6 16.7 Avg. 7.6 7.5 7.6 7.6 17.9 17.8 17.9 17.8 58.7 52.9 48.6 49.9 20.5 20.9 20.5 20.5 Min. 5.7 6.2 6.0 6.0 16.5 16.0 16.0 16.5 28.2 15.7 30.5 30.6 4.2 6.2 42 8.3 Max 9.4 9.2 9.2 9.6 19.2 19.5 19.8 19.6 86.5 80.7 73.5 76.1 37.5 37.5 33.3 36.0

Note:- Location A-Near Admin Bld

Location B-Guest House Location C-Muddapur Location D-Bamanbudhini

Vani Patil Monitored by

Vinit Kumar Sharma Checked by



#91/43,1stFloor,8th cross Goraguntepalya, Yeshwantpur Industrial Area Bangalore-560022. mail:sircbangalore@yahoo.com. Ph: 080-23479900. www.sircblr.in

Recognized by MoEF& CC.

ISO/IEC 17025:2017 - NABL Accredited Laboratory.

ISO 9001:2015 &ISO 45001:2018 Certified Laboratory

<u>Plant AAQ sample</u>

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

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

Muddapur -587122 Distt. Bagalkot

(Karnataka) India

Report Date: 31/08/2022

Date of Receipt of sample: 24/08/2022

Test Report No: SIRC/2022/08/4767

Test Completed on: 31/08/2022

Test Performed On: 24/08/2022

Sample Packing: Absorbing solution Sealed Bottle and Filter

		paper zip lock covered					
S.No	Parameters Method		NAAQ standards	Location			
			2009	Site-1	Site-2	Site-3	Site-4
1	Particulate Matter (PM10), μg/m3	IS 5182 (P23):2006	100	60	53.8	47.8	68
2	Particulate Matter (PM2.5), μg/m ³	40CFR Part 53& 58	60	36	29.1	34.9	36
3	Sulfur Dioxide (SO2), μg/m ³	IS 5182 (P2):2001	80	8	13.5	10.4	
4	Nitrogen Dioxide (NO2), μg/m ³	IS 5182 (P6):2006	80	17	26.1	21.4	26
5	Ammonia (NH3), μg/m ³	Method 401, Air Sampling	400	20.6	15.7	20.6	20
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	7.6	11.5	13.1	12.5
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	rsenic (As), ng/m ³ EPA compendium method IO 3.2		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	BDĹ	BDL	BDL

Note: Site-1: Near Administration Building Site-2: Near Guest House Site-3: Muddapur & Site-4: Bamanbudhini

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

AUTHORIZED SIGNATORY

Dr.Siddalingeshwara K G Quality

1 | Page

1. The results listed refer only to the tested samples & applicable parameters. Endorsement of product is neither inferred nor implied.

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TEST REPORT

Name and Address of Customer:	Report Date: 06/07/2022		
M/s. JK Cement Works, Muddapur (Unit : J.K. Cement LTD)	Date of Receipt of sample: 01/07/2022		
Muddapur -587/22 Dist. Bagalkot (Karnataka) India	Test Report No: SIRC/2022/06/3444		
(Kandidaka) fiigia	Test Completed on: 06/07/2022		
Test Performed On: 01/07/2022	Sample Packing: Absorbing solution Sealed Bottle and Filt paper zip lock covered		

RESULTS

Sample Collected By Sample Natur SIRC AAQ samp		Sample Natu	ire	Sample Location		Sample Condition on Receipt
					Satisfactory	
S.No	Param		Results	ts NAAQ Metho		Method
Į.	Particulate Matter (PM10), µg/m ²	65.0	100	18 5182	(P-23):2006
2	Particulate Matter		33.3	60	40CFR Part 53& 58	
3	Sulfur Dioxide (SC	02), μg/m ³	11.1	80	IS 5182 (P-2):2001	
4	Nitrogen Dioxide (NO2), μg/m ³	19.4	80	IS 5182 (P-6):2006	
5	Ammonia (NH3), p	g/m³	16.0	400	Method 401, Air Sampling	
6	Carbon Monoxide (CO), mg/m ³	ND	04		spersive Infra-Red Method
7	Ozone (O3), µg/m ³		11.0	180		411, Air Sampling
8	Lead (Pb), µg/m ³		BDL.	1.0		mpendium method IO 3.2
9	Nickel (Ni), ng/m3		BDI.	20	EPA compendium method IO 3.2	
10	Arsenic (As), ng/m		BDL	06	EPA compendium method IO 3.2	
H	Benzo(a)Pyerene(B	aP), ng/m	BDL.	01	IS 5182 (Part 12):2004	
12	Benzene (C6H6), µ	g/m³	BDL	05	IS 5182 (Part11):2006	

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

> Sateesh G Muttagi Technical Manager

NOTE

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(Unit: J.K. Cement L.FD..)

Test Performed On: 01/07/2022

(Karnataka) India

SCIENTIFIC & INDUSTRIAL RESEARCH CENTRE

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TEST REPORT Name and Address of Customer: Report Date: 06/07/2022 M/s. JK Cement Works, Muddapur Date of Receipt of sample: 01-07/2022 Muddapur -587122 Dist. Bagalkot Test Report No. SIRC/2022/06/3443 Test Completed on: 06/07/2022

> Sample Packing: Absorbing solution Sealed Bottle and Filter paper zip lock covered

RESULTS

Sample Collected By	Sample Nature	Sample Location	Sample Condition on Receipt	
SIRC	AAQ sample	Near D Block Staff Colony Quarters	Satisfactory	

S.No	Parameters	Results	NAAQ standards 2009	Method
1	Particulate Matter (PM10), µg/m ³	53.0	100	18 5182 (P-23):2006
2	Particulate Matter (PM2.5), µg/m3	19.1	60	40CFR Part 53& 58
3	Sulfur Dioxide (SO2), µg/m ³	11.4	80	IS 5182 (P-2):2001
4	Nitrogen Dioxide (NO2), µg/m	19.8	80	IS 5182 (P-6):2006
5	Ammonia (NH3), µg/m ³	14.4	400	Method 401, Air Sampling
6	Carbon Monoxide (CO), mg/m	ND	04	Non-Dispersive Infra-Red Method
7	Ozone (O3), µg/m ³	10.2	180	Method 411. Air Sampling
8	Lead (Pb), μg/m ²	BDI.	1.0	EPA compendium method IO 3.2
9	Nickel (Ni), ng/m ³	BDL.	20	EPA compendium method IO 3.2
10	Arsenic (As), ng/m ²	BDL	06	EPA compendium method IO 3.2
11	Benzo(a)Pyerene(BaP), ng m	BDL	01	18 5182 (Part 12):2004
12	Benzene (C6H6), µg/m ³	BDL	05	18 5182 (Part11):2006

BDL. Below detectable limit. ND: Not Detected

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

> AUTHORIZED Sateesh G Muttagi Technical Manager

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TEST REPORT

Name and Address of Customer: Report Date: 06/07/2022 M/s. JK Cement Works, Muddapur (Unit: J.K. Cement LTD..) Date of Receipt of sample: 01/07/2022 Muddapur -587122 Dist. Bagalkot Test Report No: SIRC/2022/06/3442 (Karnataka) India Test Completed on: 06/07/2022

Sample Packing: Absorbing solution Sealed Bottle and Filter Test Performed On: 01/07/2022 paper zip lock covered

Sam	Sample Collected By Sample Natu		Commence of the contract of the property of the contract of the property of the contract of th	ULTS Sample Location	Sample Condition on Receipt
SIRC AAQ samp		le	Near Guest Hous		
S.No	Param		Results	NAAQ standards 2009	Method
L	Particulate Matter (52.0	100	IS 5182 (P-23):2006
2	Particulate Matter	PM2.5), μg/m ³	15.0	60	40CFR Part 53& 58
3	Sulfur Dioxide (SC)2), μg/m³	10.7	80	IS 5182 (P-2):2001
4	Nitrogen Dioxide (NO2), μg/m ³	23.3	80	IS 5182 (P-6):2006
5	Ammonia (NH3), µ	Ammonia (NH3), μg/m ³		400	Method 401, Air Sampling
6	Carbon Monoxide (lonoxide (CO), mg/m ³		04	Non-Dispersive Infra-Red Method
7	Ozone (O3), µg/m ³	100 p. 100 day - 100 p.	11.0	180	Method 411, Air Sampling
8	Lead (Pb), µg/m3		BDL	1.0	EPA compendium method IO 3.2
9	Nickel (Ni), ng/m		BDL	20	EPA compendium method IO 3.2
10	Arsenic (As), ng/m ¹		BDL	06	EPA compendium method IO 3.2
13	Benzo(a)Pyerene(B	aP), ng/m³	BDL	01	IS 5182 (Part 12):2004
12	Benzene (C6H6), µ	g/m 1	BDL	05	IS 5182 (Part11):2006

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

> AUTHORIZED SIGNATORY Sateesh G Muttagi Technical Manager

NOTE

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LEST REPORT

Name and Address of Customer: M/s. JK Cement Works, Muddapur (Unit: J.K. Cement LTD..)

Muddapur -587122 Dist. Bagalkot

(Karnataka) India

Test Performed On: 01/07/2022

Report Date: 06/07/2022

Date of Receipt of sample: 01/07/2022

Test Report No: SIRC/2022/06/3441

Test Completed on: 06/07/2022

Sample Packing: Absorbing solution Sealed Bottle and Filter

paper zip lock covered

RESULTS

Sample Collected By	Sample Nature	Sample Location	Sample Condition on Receipt
SIRC	AAQ sample	Near Administration Building	Satisfactory

S.No	Parameters	Results	NAAQ standards 2009	Method
1	Particulate Matter (PM10), µg/m ³	67.0	100	IS 5182 (P-23):2006
1	Particulate Matter (PM2.5), µg/m ³	21.2	60	40CFR Part 53& 58
3	Sulfur Dioxide (SO2), µg/m ³	10.5	80	IS 5182 (P-2):2001
4	Nitrogen Dioxide (NO2), µg/m ²	20.0	80	IS 5182 (P-6):2006
5	Ammonia (NH3), µg/m ³	17.6	400	Method 401, Air Sampling
6	Carbon Monoxide (CO), mg/m3	ND	04	Non-Dispersive Infra-Red Method
7	Ozone (O3), µg/m ³	12.7	180	Method 411, Air Sampling
8	Lead (Ph), μg/m ³	BDL.	1,0	EPA compendium method IO 3.2
9	Nickel (Ni), ng/m ³	BDL	20	EPA compendium method IO 3.2
10	Arsenic (As), ng/m	BDL	06	EPA compendium method IO 3/2
H	Benzo(a)Pyerene(BaP), ng/m3	BDL	01	18 5182 (Part 12):2004
1.7	Benzene (C6H6), μg/m ³	BDL	05	IS 5182 (Part11):2006

BDL: Below detectable limit, ND: Not Detected

INFERENCE

As per NAAQMS Standards,

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

Sateesh G Muttagi Technical Manager

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J.K. Cement WORKS, MUDDAPUR (KARNATAKA)

Stack monitoring report of Cement plant & 2x25 MW Thermal power plant for April-2022 to September-2022

					Stack locations			
			Thermal Power Plant			Kiln / Raw Mill		DG Set
SI. No.	Sl. No. Month/Year	Standards 50 mg/Nm3	Standards 600 mg/Nm3	Standards 450 mg/Nm3	Standards 30 mg/Nm3	Standards 100 mg/Nm3	Standards 800 mg/Nm3	
		PM in mg/Nm3	SO2 in mg/Nm3	NOx in mg/Nm3	PM in mg/Nm3	SO2 in mg/Nm3	NOx in mg/Nm3	PM in mg/Nm3
-	Apr-22				11.5	0.0	552.0	12
2	May-22				7.1	0.0	548.0	e
т	Jun-22		į		15.6	0.0	445.0	
4	Jul-22		Plant Shutdown		9.4	0.0	524.0	
5	Aug-22				14.9	0.0	360.0	9,
9	Sep-22				14.4	0.0	396.0	1

					Stack locations			
N 13	CI No Month/Voor			PM	PM Standards 30 mg/Nm3	3		
31. 70.	Month, 1 car	CM-3 (Slag Cement Mill)	Coal crusher	TSC	CM-1	CM-2	Cooler	Coal Mill
=	Apr-22	17.1	9.0	12.3	6.53	11.10	7.6	17.6
2	May-22	15.4	10.0	7.6	8.16	16.00	11.2	14.0
ю	Jun-22	11.3	13.2	10.1	5.0	17.0	7.6	16.9
4	Jul-22	15.6	11.2	12.2	Mill shutdown	15.0	14.5	14.5
S	Aug-22	9.5	8.9	8.6	6.2	10.7	7.5	12.7
9	Sep-22	14.5	6.6	11.7	17.7	14.5	17.	11.5



Vinit Kumar Sharma Checked by



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STACK TEST REPORT

Name and Address of Customer: M/s. JK Cement Works, Muddapur	Report Date: 31/08/2022		
(Unit: J.K. Cement LTD.,)	Date of Receipt of sample:25/08/2022		
Muddapur -587122 Distt. Bagalkot (Karnataka) India	Test Report No: SIRC/2022/08/4770		
	Test Completed On: 31/08/2022		
Test Performed On: 25/08/2022	Date of Monitoring:23/08/2022		

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

Stack Details

Libetunis
RAW MILL
32
168
7.54
19.63
5.69
278182.5
2.8

Results

S.No	Parameters	Unit	Results	Limits	Method
1	Particulate Matter	mg/Nm ³	12	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	465	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.
	The incusated varies for the above parameters are within the standards.

AUTHORIZED SIGNATORY

Sateesh G Muttagi Technical Manager

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TEST REPORT

Name and Address of Customer:	Report Date: 31/08/2022		
M/s. JK Cement Works, Muddapur (Unit: J.K. Cement LTD.,)	Date of Receipt of sample:25/08/2022		
Muddapur -587122 Distt. Bagalkot (Karnataka) India	Test Report No: SIRC/2022/08/4773		
	Test Completed On: 31/08/2022		
Test Performed On: 25/08/2022	Date of Monitoring:23/08/2022		

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

Stack Details

Cement Mill-2
31
125
1.4
1.23
5.41
18241.5
0.2

Results

S.No	Parameters	Unit	Results	Limits	Method
1	Particulate Matter	mg/Nm ³	11.6(7.6)	30	IS 11255 (P1) 2003
2	Moisture	%	<1	NS	IS 11255 (P1) 2003

Note: NS: Not Specified

INFERENCE

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TEST REPORT

Name and Address of Customer:	Report Date: 02/09/2022
M/s. JK Cement Works, Muddapur (Unit: J.K. Cement LTD.,) Muddapur -587122 Distt. Bagalkot (Karnataka) India	Date of Receipt of sample:27/08/2022
	Test Report No: SIRC/2022/08/4803
	Test Completed On: 02/09/2022
Test Performed On: 27/08/2022	Date of Monitoring:25/08/2022

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)	30		
Stack Temperature, (°C)	105		
Diameter, (m)	3.75		
Cross Sectional Area in meter square, (m2)	11.04		
Velocity, (m/s)	5.53		
Flue gas Discharge, Nm ³ /hr	176315.4		
Dust Emission , mg/Hr	2.3		

Results

S.No	Parameters	Unit	Results	Limits	Method
1	Particulate Matter	mg/Nm^3	12.8(7.6)	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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Marish

Sateesh G Muttagi Technical Manager

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TEST REPORT

Name and Address of Customer:	Report Date: 31/08/2022
M/s. JK Cement Works, Muddapur (Unit : J.K. Cement LTD.,)	Date of Receipt of sample:25/08/2022
Muddapur -587122 Distt. Bagalkot (Karnataka) India	Test Report No: SIRC/2022/08/4771
	Test Completed On: 31/08/2022
Test Performed On: 25/08/2022	Date of Monitoring:24/08/2022

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)	31
Stack Temperature, (°C)	84
Diameter, (m)	1.80
Cross Sectional Area in meter square, (m2)	2.54
Velocity, (m/s)	5.12
Flue gas Discharge, Nm ³ /hr	39938.7
Dust Emission, mg/Hr	0.5

Results

S.No	Parameters	Unit	Results	Limits	Method
1	Particulate Matter	mg/Nm ³	13.58(12)	30	IS 11255 (P1) 2003
2	Moisture	0/0	<1	NS	IS 11255 (P1) 2003

Note: NS: Not Specified

INFERENCE

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Sateesh G Muttagi Technical Manager

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TEST REPORT

Name and Address of Customer:	Report Date: 02/09/2022		
M/s. JK Cement Works, Muddapur (Unit: J.K. Cement LTD.,)	Date of Receipt of sample:27/08/2022 Test Report No: SIRC/2022/08/4804		
Muddapur -587122 Distt. Bagalkot			
(Karnataka) India	Test Completed On: 02/09/2022		
Test Performed On: 27/08/2022	Date of Monitoring:25/08/2022		

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

Stack Details

Clinker Cooler Stack	
32	
267	
3.86	
12.56	
6.62	
168948.3	
1.5	
	32 267 3.86 12.56 6.62 168948.3

Results

S.No	Parameters	Unit	Results	Limits	Method
1	Particulate Matter	mg/Nm ³	9.1(11.8)	30	IS 11255 (P1) 2003
2	Moisture	%	<1	NS	IS 11255 (P1) 2003

Note: ND: Not Detected, NS: Not Specified

INFEREN

CE	As per MOEF Standards GSR 612 E dated 25.08 2014.
CL	Report Status: The measured values for the above parameters are within the standards.

AUTHORIZED SIGNATORY

Sateesh G Muttagi Technical Manager

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TEST REPORT

Name and Address of Customer:	Report Date: 31/08/2022		
M/s. JK Cement Works, Muddapur (Unit: J.K. Cement LTD.,)	Date of Receipt of sample:25/08/2022		
Muddapur -587122 Distt. Bagalkot	Test Report No: SIRC/2022/08/4772		
(Karnataka) India	Test Completed On: 31/08/2022		
Test Performed On: 25/08/2022	Date of Monitoring:23/08/2022		

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

Stack Details

Crusher
32
58
1.20
1.13
4.93
18495.1
0.3

Results

S.No	Parameters	Unit	Results	Limits	Method
1	Particulate Matter	mg/Nm ³	17.9	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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Sateesh G Muttagi Technical Manager

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TEST REPORT

Name and Address of Customer: M/s. JK Cement Works, Muddapur (Unit: J.K. Cement LTD.,)

Muddapur -587122 Dist, Bagalkot

(Karnataka) India

Test Performed On: 02/07/2022

Report Date: 09/07/2022

Date of Receipt of sample:02/07/2022

Test Report No: SIRC/2022/07/3509

Test Completed On: 09/07/2022

Date of Monitoring:01/07/2022

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

Stack Id	Crusher
Ambient Temperature ,(°C)	32
Stack Temperature, (°C)	45
Diameter, (m)	1.20
Cross Sectional Area in meter square, (m2)	1.13
Velocity, (m/s)	4.83
Flue gas Discharge, Nm³/hr	18869.4
Dust Emission, mg/Hr	0.4

Results

S.No	Parameters	Unit	Results	Limits	Method
	Particulate Matter	mg/Nm ³	21.3	30	IS 11255 (P1) 2003

INFERENCE

As per KSPCB 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: 09/07/2022		
M/s, JK Cement Works, Muddapur (Unit: J.K. Cement LTD) Muddapur -587122 Dist. Bagalkot (Karnataka) India	Date of Receipt of sample:02/07/2022		
	Test Report No: SIRC/2022/07/3508		
	Test Completed On: 09/07/2022		
Test Performed On: 02/07/2022	Date of Monitoring:01/07/2022		

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

Stack Details

Stack Id	Clinker Cooler Stack
Ambient Temperature ,(°C)	32
Stack Temperature, (⁶ C)	289
Diameter, (m)	4.00
Cross Sectional Area in meter square, (m2)	12.56
Velocity, (m/s)	6.75
Flue gas Discharge, Nm³/hr	165608.5
Dust Emission, mg/Hr	1.7

S.No	Parameters	Unit	Results	Limits	Method
	Particulate Matter	mg Nm	10,4	30	IS 11255 (P1) 2003
2	Moisture	d ₁₀	<1	NS	IS 11255 (P1) 2003

Note: ND: Not Detected, NS: Not Specified

INFERENCE

As per KSPCB 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; M/s. JK Cement Works, Muddapur (Unit: J.K. Cement LTD.,)

Muddapur -587122 Dist. Bagalkot

(Karnataka) India

Test Performed On: 02/07/2022

Report Date: 09/07/2022

Date of Receipt of sample:02/07/2022

Test Report No: SIRC/2022/07/3507

Test Completed On: 09/07/2022

Date of Monitoring:01/07/2022

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) .	31
Stack Temperature, (°C)	78
Diameter, (m)	1.80
Cross Sectional Area in meter square, (m2)	2.54
Velocity, (m/s)	5.08
Flue gas Discharge, Nm³/hr	40278.6
Dust Emission, mg/Hr	0.6

Results

S.No	Parameters	Unit	Results	Limits	Method
	Particulate Matter	mg/Nm ³	14.56	30	IS 11255 (P1) 2003
2	Moisture	0/0	<1	NS	IS 11255 (P1) 2003

Note: NS: Not Specified

INFERENCE

As per KSPCB 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: M/s, JK Cement Works, Muddapur (Unit: J.K. Cement LTD) Muddapur -587122 Dist. Bagalkot (Karnataka) India	Report Date: 06/07/2022		
	Date of Receipt of sample:01/07/2022		
	Test Report No: SIRC/2022/06/3430		
	Test Completed On: 06/07/2022		
Test Performed On: 01/07/2022	Date of Monitoring:29/06/2022		

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

Results

S.No	Parameters	Unit	Results	Limits	Method
1	Particulate Matter	mg/Nm²	9.5	30	IS 11255 (P1) 2003
2	Moisture	(o	<1	NS	IS 11255 (P1) 2003

Note: NS: Not Specified

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

> Sateesh G Muttagi Technical Manager

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TEST REPORT

Name and Address of Customer: Report Date: 06/07/2022 M/s. JK Cement Works, Muddapur Date of Receipt of sample: 01/07/2022 (Unit: J.K. Cement LTD.,) Muddapur -587122 Dist, Bagalkot Test Report No: SIRC/2022/06/3429 (Karnataka) India Test Completed On: 06/07/2022 Test Performed On: 01/07/2022 Date of Monitoring: 29/06/2022

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

Stack	c Details
Stack Id	Cement Mill-2
Ambient Temperature (°C)	31
Stack Temperature, (⁶ C)	105
Diameter, (m)	1.25
Cross Sectional Area in meter square, (m2)	1.23
Velocity, (m/s)	5.27
Flue gas Discharge, Nm ³ /hr	18717.9
Dust Emission, mg/Hr	0.3

Results

S.No	Parameters	Unit	Results	Limits	Method
	Particulate Matter	mg/Nm³	17.2	30	IS 11255 (P1) 2003
2 te: NS: N	Moisture	0/10	<1	NS	IS 11255 (P1) 2003

INFERENCE

As per KSPCB 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: 06/07/2022		
M/s. JK Cement Works, Muddapur (Unit: J.K. Cement LTD)	Date of Receipt of sample: 01/07/2022		
Muddapur -587122 Dist. Bagalkot	Test Report No: SIRC/2022/06/3427		
(Karnataka) India	Test Completed On: 06/07/2022		
Test Performed On: 01/07/2022	Date of Monitoring: 29/06/2022		

Sample Collected By 5	Sample Nature	Stack ID	Sample Packing:
SIRC	STACK	RAW MILL	Thimble in zip lock covered

Stack	Details
Stack Id	RAW MILL
Ambient Temperature ,(°C)	32
Stack Temperature, (°C)	176
Diameter, (m)	5.00
Cross Sectional Area in meter square, (m2)	19.63
Velocity, (m/s)	5.74
Flue gas Discharge, Nm3/hr	275693.1
Dust Emission, mg/Hr	2.5

Results

S.No	Parameters	Unit	Results	Limits	Method
Ţ	Particulate Matter	mg/Nm ³	9.2	30	IS 11255 (P1) 2003
2	Moisture	Vite.	<1	NS.	IS 11255 (P1) 2003
3	Sulphur Dioxide	mg/Nm ³	ND	NS =	IS 11255 (P2) 2003
d	Oxides of nitrogen	mg/Nm ³	481	NS	Flue gas analyzer

Note: ND: Not Detected, NS: Not Specified

INFERENCE	As per KSPCB Standards,
INTERENCE	Report Status: The measured values for the above parameters are within the standards

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Sateosh G Muttagi
Technical Manager

SOIL

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J.K. Cement WORKS, MUDDAPUR (KARNATAKA)

(Unit: J.K. Cement Ltd.)

Noise monitoring report of Cement & Power Plant for April-22 to June-22 & July-22 to Sept-22

		-	Ambient No	nise		Annex	uic 4
SI. No.	Location Name	April-22 to June-22		July-22 to Sept-22		Average	
	Sociation , name	Day (dB) Leq	Night (dB) Leq	Day (dB) Leq	Night (dB) Leq	Day (dB) Leq	Night (dB) Leq
1	Boundary side	71.6	67.5	70.2	68.5	70.9	68.0
2	Administrative Building	68.5	66.4	66.5	65.8	67.5	66.1
3	Lime Stone gate	73.5	70	73.5	72.8	73.5	71.4
4	Despatch gate	70.8	69.5	70.8	69.2	70.8	69.4
5	Near QC Lab.	63.2	60.5	61.7	60.5	62.5	60.5
6	Near Canteen	65.9	63.8	67.5	66.4	66.7	65.1
7	Plant main gate	66.4	63.2	62.8	61.5	64.6	62.4
8	General Store	62.5	60.7	64.6	65.7	63.6	63.2
		V	Vork zone l	Noise			
SI.	Location Name	April-22 to	June-22	July-22 to	Sept-22	Aver	age
No.		Day (dl	B) Leq	Day (dB	B) Leq	Day (dl	B) Leq
1	Lime Stone Crusher	84	.5	80.5		82.5	
2	Kiln/ Cooler	82	82.5		82.8		.7
3	Kiln Platform	80	.6	80.5		80	.6
4	Power Plant	50	.8	48.7		49	.8
5	Coal Yard	61	.8	62.5		62.2	
6	Slag yard	64	.3	61.6		63.0	
7	Gypsum yard	60	.2	60.2		60	.2
8	Raw mill proporting hopper	70	.8	68.6		69.7	
9	coal mill	78	.3	74.2		76.3	
10	Near silo clinker loading point	76	.7	70.8		73.8	
11	CM-1 weigh feeder	74	.5	72.6		73.6	
12	CM-2 weigh feeder	72	.8	70.7		71.8	
13	Cement silo Packer-1	78	.6	81.5		80.1	
14	Cement silo Packer-2	80	.2	73.4		76.8	
15	Cement silo Packer-3	78	.5	74.6		76.6	
16	Cement silo Packer-4	83	.5	81.		82	0.000
17	Truck Loading point- 1	71	.7	71		71	0.2
18	Truck Loading point- 2	70	.3	69		69	
19	Truck Loading point- 3	72	.8	74.	5	73	
20	Truck Loading point- 4	70	.5	76.	4	73	
21	Slag mill weigh feeder	66	.7	67.	4	67	

Monitored by

Vinit Kumar Sharma

Checked by





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TEST REPORT

Name and Address of Customer:	Report Date: 02/09/2022			
M/s. JK Cement Works, Muddapur (Unit: J.K. Cement LTD.,)	Date of Receipt of sample: 26/08/2022			
Muddapur -587122 Distt. Bagalkot	Test Report No: SIRC/2022/08/4791-4798			
(Karnataka) India	T . C			
Test Performed On: 26/08/2022	Test Completed on:07/07/2022			

RESULTS

SIRC Fugitive En		Sample Nature	Sample Location	Sample Condition on Receipt
		Fugitive Emission Monitoring Mentioned Below		Satisfactory
Job Code		Locations	SPM (ug/m3)	Fugitive emission standard as per CPCB
4791 Near slag Storage shed		1422.5		
4792	Near Gypsum Storage Shed		1033.0	
4793	793 Near Cement Mill Area		1184.1	
4794	Near Laterite Storage Area		1306.6	5000µg/m3
4795	4795 Near Cement Plant Coal Storage Shed		1495.8	
4796			1366.3	
4797	4797 Near Packing Plant area		1450.4	
4798	Near CPP Coal storage shed		1334.3	2000µg/m3

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Sateesh G Muttagi Technical Manager

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STP WATER ANALYSIS REPORT

Name and Address of Customer: M/s. JK Cement Works, Muddapur(Unit: J.K. Cement LTD.,) Muddapur -587122 Dist. Bagalkot (Karnataka) India		Date of Receipt of sample: 27/08/2022 Test Performed On: 29/08/2022 Test Completed On: 10/09/2022			
					Jist. Dagaikot (Karnataka) India
ULR No: TC846222000001775P			Test Report No: SIRC/2022/08/4882		
SI.	Parameters	Perkeral	Result	Standards As per	
No	Parameters	Protocol	STP Out Let	IS:3025	
1.	рН	APHA 23 rd Edition-2017,4500H+B	8.5	6.5-9.0	
2.	Total Suspended	APHA 23 rd Edition-2017,2540 D	18	20	
3.	BOD, mg/lt, 3 days at 270 C	APHA 23 rd Edition- 2017, 5210B	8.8	10	
4.	COD, mg/lt	APHA 23rd Edition- 2017, 5220B	29	50	
5.	Ammonical Nitrogen mg/lt	APHA 23 rd Edition-2017, 4500 NH3C	2	05	
6.	Phosphorous as P	APHA 23rd Edition-2017, 4500 P D	0.86	2	
7.	Total Nitrogen mg/lt	APHA 23rd Edition-2017, 4500- NO3E, 4500 NH3C ,4500Norg	6	10	
8.	Faecal Coliforms, cfu/100ml	APHA 23rd Edition-2017, 9222 D	Absent	250	



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Dr.Siddalingeshwara K G Quality Manage

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STP WATER ANALYSIS REPORT

luddapur -	r(Unit : J.K. 587122 Dist.	Test Performed On: 09/0	07/2022		
ika) iiidid			Test Performed On: 09/07/2022		
agalkot (Karnataka) India		Test Completed On: 16/07/2022			
		Report Date: 18/07/2022 Test Report No: SIRC/2022/07/3802			
ameters	Protocol	Result	Standards As per IS :3025		
		STP Out Let			
	APHA 23 rd Edition-2017,4500H+B	8.7	6.5-9.0		
uspended	APHA 23rd Edition-2017,2540 D	16	20		
	APHA 23 rd Edition- 2017, 5210B	8.6	10		
g/lt	APHA 23rd Edition- 2017, 5220B	25	50		
	APHA 23 rd Edition-2017, 4500 NH ₃ C	2	05		
orous as P	APHA 23rd Edition-2017, 4500 P D	0.99	2		
itrogen	APHA 23rd Edition-2017, 4500- NO3E, 4500 NH3C ,4500Norg	6.4	10		
	g/lt nical en mg/lt	APHA 23rd Edition-2017,4500H+B uspended APHA 23rd Edition-2017,2540 D g/lt, 3 days APHA 23rd Edition- 2017, 5210B g/lt APHA 23rd Edition- 2017, 5220B nical APHA 23rd Edition-2017, 4500 NH3C orous as P APHA 23rd Edition-2017, 4500 P D itrogen APHA 23rd Edition-2017, 4500- NO3E,	Test Report No: SIRC/2019		



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TEST REPORT

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

(Unit: J.K. Cement LTD.,) Muddapur -587122 Dist. Bagalkot (Karnataka) India

Date of Receipt of sample: 08/07/2022

Test Performed On: 09/07/2022

Test Completed On: 16/07/2022

Report Date: 18/07/2022

Test Report No: SIRC/2022/07/3802

Biological Testing

		Sample D	escription	Sample Location	Sample Condition on Receipt
		et Water	Company Premises	Satisfactory	
SL No	Test Paran	neter	Result	Limit as per KSPCB	Test Method
1.	Faecal Coliforms.	cfu/100m1	Absent	Less than 250	APHA 23rd EDITION, 2017, 9222 D

Note: The above tested parameters are within the limits (As per KSPCB)

AUTHORIZÆD SIGNATORY Dr. Siddalfingeshwara K. G. Quality Manager

NOTE

- t. The results listed refer only to the tested samples & applicable parameters. Endorsement of product is weather inferred nor implied.
- 2 Samples will be destroyed after specified retention time.
 3. This report is not to be reproduced wheil) 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 habitity of our laboratory is limited to the investee amount. Sur dispute arising our of this report is subjected to Bangalore Jurisdiction only

****-We Provide Environmental Services

Annexure-7	
EXPENDITURE ON THE ENVIRONMENTAL MANAGEMENT PLAN FOR THE PERI SEPTEMBER-22	OD OF APRIL-22 TO
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	
Fly ash Silo's and ash handling systems	87.55
Emission Monitoring equipment (including online emission monitoring equipment (CEMS) at sources and ambient air quality in the vicinity) and laboratory	3.52
Green Belt Development, Sewage Treatment plant and Water Harvesting Schemes for plant	25.96
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	1077.33
Other environmental management costs (AFR system operation, odour control, environmental training/Award, SNCR system CPP, Environmental License Fees)	40.39
TOTAL (Rs in Lakhs)	2131.88

Prepared By Vinit Kumar Sharma

Checked by Veerbhadrarao Vetcha

Annexure-8 JK CEMENT WORKS, MUDDAPUR

	DETAILS OF CSR ACTIVITY UNDERTAKEN DURING April-2022 to Se	ept-2022
SL NO	Particulars	Amount (Rs)
1	Providing New desks for Govt. college	477280
2	Running and maintenance of Sir Padampat School	549199
3	Education aid and support	30000
4	Road infrastructure development in Local village	630668
5	Pooja/ Fair/Festival/temple contributions	642000
6	Rural development & other welfare activities	1195000
7	Health Camp at nearby village Halki	12,500
8	Promoting Rural sports, Nationally recognized sports	120000
9	Health Camp at nearby village Halki, medical and health care activity.	109962.4
10	Promotion of education, upliftment of education quality for the surroundi	82292
11	Pooja/ Fair/Festival/temple contribututions/Rural development.	193,615
12	Rural development & other welfare activities	585440
13	Promoting Rural sports, Nationally recognized sports	15000
	Grand Total	4642956

Vinit Kumar Sharma

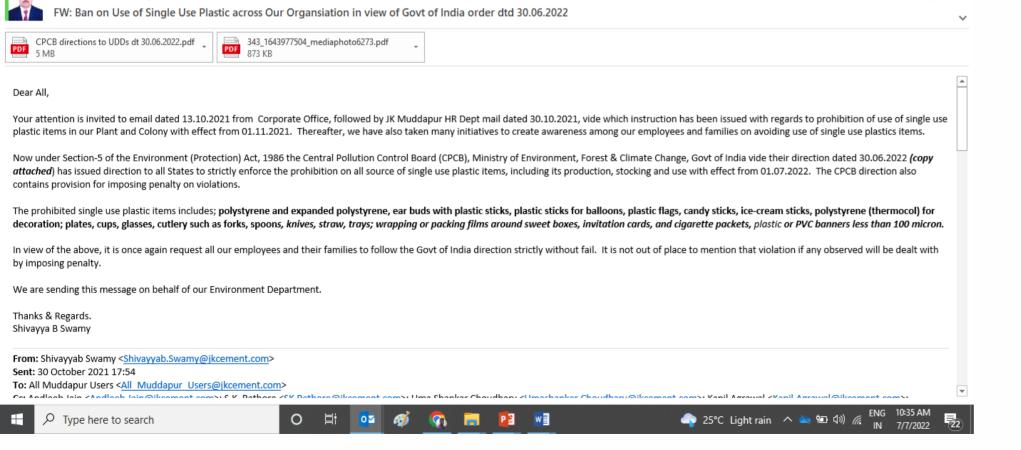
VeerbhadraRao Vetcha



MoEF Office Memorandum F.No. IA3-22/8/2021-IA.III(150512), dated 18th July-2022

Sensitization of project proponents on implementation of ban on single use plastic (SUP)-reg

Actions taken on ban of single use plastic along with photograph.







Awareness programs inside and outside of the Plant

District police Head Quarters, Bagalkot in collaboration with JK Cement for banning of single use plastics and Distributed cloth bags to all the students and members.







Training And awareness program have been organized on "No To Single Use Plastics", Online Quiz & Distribution of Cloth bags to Roshini club members of JK Cement Works









Plastic Waste collection and Door to Door Awareness Drive

Plastic waste collection drive





House to house plastic free awareness drive







JKC Display of Environment Awareness boards in residential area and in Offices

