

JK Cement Works, Muddapur

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

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

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No.JKCW/ENV/2021-22/ EC Compliance/2nd Half(PLANT)/89/16

Date - 11-05-2022

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-2021 to Mar-2022 (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-2021 to Mar-2022 (2nd 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.

This for your kind perusal and acknowledge the receipt

Thanking you

Yours faithfully For J.K. Cement Works

Umashankar Choudhary

(Unit Head)

Encl. – EC Compliance report, Socio-economic development report & six monthly manual AAQ monitoring, stack, fugitive emission, treated effluent monitoring, noise monitoring, continuous emission monitoring, CAAQM report and six monthly environmental expenditures.

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)







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CC:

- 1- The Addl. Principal Chief Conservator of Forest (C), Ministry of Environment & Forest, Regional Office (South Zone), Koramangala, Bangalore
- 2- Chairman, Central Pollution Control Board, Parivesh Bhavan, East Arjun Nagar, New Delhi
- 3- Scientist 'D' & Incharge, Central Pollution Control Board, 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

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

Environmental Clearance (EC) Compliance Report (Oct '2021 to Mar'2022)

A. Specific Conditions:

i. 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. 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 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. We are not abstracting water more than 1046.4 m³/day from Ghataprabha River. 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 in 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 used as manure for green belt Complied. The fly ash and bottom ash generated from the power plant are being used in the process itself for manufacturing PPC. All the cement dust collected from the pollution control devices is recycled and reused in the process and used for cement manufacturing. The fly ash utilization is as per the provision stipulated in the fly ash notification of September, 1999 and amended in august, 2003. Quarterly report on fly ash utilization is being submitted to PCB. STP sludge is being utilized as manure for green belt

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

	development. Used oil shall be sold to authorized recycler / re processor only.	development. Generated Used oil/waste oil is being handed over to authorized recycler / re processor only.
iv.	High calorific hazardous waste shall be utilized in the cement plant.	Complying with. We have obtained the permission from KSPCB for co-processing various hazardous wastes and Non-Hazardous wastes in cement plant vide KSPCB authorization no. 327139 dated 29 th September 2021.
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. We have planted 155803 number of plants in and around cement plant and colony. We have covered more than 33% area of total land area from plantation. Total area (Plant and Colony) = 258.37 Acres. Total Nos. of plantation:-155803 no.s Total plantation area:- 118.94 Ha % of plantation area:- 46.03.
Gene	eral Condition :	
i.	The project authorities shall adhere to the stipulation made by Karnataka State Pollution Control Board and State Government.	Agreed
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 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.

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

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 major stacks and the gaseous and particulate matter emissions from various units are within the standard prescribed by the KSPCB/CPCB/MoEF. 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, we have installed total 4 Nos. of monitoring station in cement plant. Ambient air quality including ambient Noise level is not exceeding the standard stipulated under EPA or by the state authorities. Monitoring of Ambient air quality and stack emission are being carried out regularly in consultation with KSPCB and reports are being submitted to the KSPCB monthly/quarterly and to the Ministry Regional Office at Bangalore Half Yearly, the reports are enclosed as Annexure-1
٧.	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 fully covered conveyors for transportation of materials shall be provided besides coal, cement, fly ash and clinker shall be stored in silos.	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 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.	Ground water abstract permission have been obtained from Karnataka Ground Water Authority, Bangalore via. Letter no. KGWA/GW/NOC/32/2020-21/4323, dated 30.03.2021.

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

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, we are harvesting the rain water from roof tops. Storm water drains are recharging the ground water in colony and cement plant. We have constructed total 4 Nos of rainwater storage tanks and 11 rooftop rain water recharge structures in plant premises and colony.
viii.	The company shall undertake eco- development measures including community welfare measures in the project areas.	Complying, we are undertaking eco- development measures like energy saving, hazardous wastes, Manufacturing of PPC/Slag cement and other wastes disposing etc. including community welfare measures. Expenditure incurred from October 2021 to March-2022 for community welfare is enclosed as Annexure- 2 .
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). Average Ambient Noise level monitoring report (Period from October-2021 to March-2022) are attached as Annexure -1 :-
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. CREP compliance report is as below.
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	Already Complying

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

	Replacement of existing Air Pollution Control Devices -by July 2004	
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 emission level of particulate matter within 30 mg/Nm3 as per standards prescribed in CFO issued by KSPCB.
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	We are maintaining emission level of particulate matter within 30 mg/Nm3 as per standards prescribed in CFO issued by KSPCB.
4	CPCB will evolve load based standards by December 2003	MoEF & CC has released notification on on load based standards on 10th May 2016, for cement plants with co-processing. As per the notification, we have taken necessary measure to maintain the PM emission less than 0.125kg/tonne of clinker.
5	CPCB and NCBM will evolve SO2 and NOx emission standards by June 2004	Emission standards (for SO2 & NOX) are notified vide MoEFCC notification 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. It is being complied. We have installed DeNOx system (SNCR) to control emissions of NOx.
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	All the raw material/ product sheds/ transfer points and belt conveyors are fully covered. Bag filters are installed at all transfer points. Roads are concreted to reduce fugitive dust emissions.

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

7	CPCB, NCBM, BIS and Oil refineries will	Complied We are using natroloum asks as a first
530 62	jointly prepare the policy on use of petroleum coke as fuel in cement kiln by July 2003	in cement kiln after obtaining permission from
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 and Kiln exit instead of ESP to minimize 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	We are generating power from 50 MW Captive power plant and 5MW Solar Power Plant to fulfil power requirement of Cement plant and colony.
xi.	Proper housekeeping and adequate occupational health program shall be taken up.	Complying, 3 Nos of road sweeping machines and 1 Nos of water nozzle mounted truck has been provided to maintain good housekeeping. Regular premedical and periodical health checkup of employees has been done.
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 to carry out various management and monitoring function has been set up under control of Sr. Executive.
xiii.	Rs.8.70 crores earmarked for environmental pollution measures shall be suitable used to implement the condition stipulated by the Ministry of Environment	Complied, as a part of environmental pollution control measures, we have invested above earmarked amount. The fund so provided has

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	and Forest as well as the State Government. The fund so provided shall not be diverted for any other purpose.	not been diverted for any other purpose. Details of expenditure given as below as Annexure-3
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 With, Six monthly compliance report and monitor data along with statistical interpretation is being submitted to The Regional of this Ministry at Bangalore / CPCB / KSPCB regularly.
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, Project has been completed. We had informed 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.
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 the public that the project has been accorded environmental clearance by Ministry and the same is published in newspapers & 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 Bangalore.	

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Environmental Clearance (EC) Compliance Report (Oct '2021 to Mar'2022)

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)

Umashankar 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-2021 TO MARCH-2022 (ALL VALUES IN MICROGRAMS / CUBIC METER)

					SO)2			N	O ₂			PM	I ₁₀			PM	12.5	
Month	Sl.No.	Date	Week		Locat	ions			Loc	ations			Locat	tions			Loca	tions	
				Adm	D-Block	Weigh Bridge	Guest House	Adm	D-Block	Weigh Bridge	Guest House	Adm	D-Block	Weigh Bridge	Guest House	Adm	D-Block	Weigh Bridge	Guest House
	1	1.10.2021	lst	8.0	6.5	6.7	7.3	18.0	17.2	16.7	17.3	89.6	75.6	63.8	61.7	25.0	20.8	29.2	12.5
O	2	5.10.2021	151	7.3	6.8	6.8	6.8	17.8	17.3	16.7	16.5	91.6	61.4	71.1	52.8	41.7	16.7	25.0	15.0
C	3	8.10.2021	2nd	9.2	7.5	7.3	5.7	19.2	18.5	17.3	15.7	72.4	70.4	30.9	57.4	25.0	33.3	29.2	16.7
T O	4	12.10.2021		6.7	6.2	6.7	4.8	16.5	17.3	17.8	15.8	90.1	66.8	75.5	64.3	20.8	25.0	20.8	20.8
В	5	15.10.2021	3rd	7.7	6.5 8.0	5.7	5.8	18.0	17.3	15.7	15.5	92.2 89.3	70.9	78.2 85.1	67.5 80.4	25.0 29.2	33.4 28.5	25.0 45.8	33.3 41.7
E	7	19.10.2021		6.8	7.5	5.2	4.8	18.2	17.0	16.2	15.3	94.2	67.9	83.8	84.5	25.0	30.7	25.0	37.5
R	8	26.10.2021	4th	7.8	6.5	4.8	5.5	17.8	17.3	14.5	16.0	68.5	76.0	71.4	68.1	33.3	29.2	25.0	33.3
	9	29.10.2021	701	4.5	6.5	6.5	6.2	15.5	16.5	16.5	16.3	90.8	64.2	79.0	62.4	20.4	25.0	20.8	25.0
N	1	2.11.2021	1.00	5.8	6.5	5.5	4.7	15.8	16.0	15.3	17.5	62.3	73.0	61.5	47.1	29.2	33.3	20.8	25.0
0	2	5.11.2021	lst	5.8	5.3	6.5	7.0	15.8	17.3	17.0	17.3	68.9	71.0	36.0	51.9	20.8	25.0	16.7	21.7
V	3	9.11.2021	2nd	6.7	6.7	5.7	6.7	15.8	18.0	17.3	18.0	61.6	64.4	70,8	57.0	33.4	35.0	37.5	29.2
E	5	12.11.2021		5.0	7.5	7.5	5.8	14.8	17.0	17.0	18.3	65.2	68.4	74.8	54.1	20.8	28.5	29.2	20.8
M		16.11.2021	3rd	7.5	7.0	6,3 5.5	5.5 7.5	15.0	18.2	17.7	17.3	67.9 70.1	73.4 67.1	27.4 53.6	68.1 51.9	18.8	32.7 28.3	45.8 29.2	25.0
В	7	19.11.2021		4.5 7.0	6.8	7.8	4.5	15.2	16.8	17.2	16.8	65.7	60.7	63.3	60.8	26.3	25.0	20.8	37.5 25.0
Е	8	26.11.2021	4th	8.3	5.5	7.0	5.3	14.7	16.0	17.0	18.5	72.1	64.8	53.8	58.9	50.0	50.0	33.3	29.2
R	9	30.11.2021	100000	6.0	6.0	8.8	5.5	14.0	18.0	17.0	19.0	63.5	60.3	61.2	66.4	16.7	23.3	20.8	16.7
D	1	3.12.2021	1 st	6.8	7.5	7.2	7.3	16.8	17.5	17.2	17.3	83.7	91.8	63.9	58.3	25.0	29.2	20.8	20.8
E	2	7.12.2021		5.8	6.2	6.7	6.5	15.8	16.8	16.7	16.7	77.2	80.3	69.2	62.4	33.3	25.0	25.0	25.0
C	3	10.12.2021	2nd	6.8 5.8	6.8	6.3 7.5	6.8 5.8	16.8	18,0	16.5	16.8 15.8	70.5	74.1 75.0	78.0 66.5	55.6 69.6	29.2	20.8	24.2	12.5
E	5	17.12.2021		6.0	7.3	5.8	7.3	16.0	16.7	15.8	17.0	75.2	85.3	75.9	56.3	33.3	37.5	25.0	26.4
M	6	21.12.2021	3rd	6.7	7.5	7.8	6.7	16.8	17.5	17.8	16.8	78.8	80.4	69.7	75.4	40.8	20.8	33.3	25.0
В	7	24.12.2021		6.7	5.7	6.2	6.7	16.0	15.7	16.2	16.2	71.3	89.9	64.7	68.7	29.2	26.7	29.2	33.3
E R	8	28.12.2021	4th	5.8	6.8	5.8	7.0	15.8	16.8	15.8	17.0	61.0	71.3	68.3	65.9	29.2	33.3	31.3	20.8
	9	31.12.2021		6.8 7.0	5.8	7.5	7.5	17.7	15.7	17.2	18.0	69.1 66.0	79.4	70.5	58.8	25.0	37.5 37.5	33.3	25.0
J	2	4.1.2022 7.1.2022	lst	6.2	7.0	6.5	5.8	17.0	17.0	16.8	15.8	70.6	71.0	64.6	60.4	22.5	25.0	29.2	20,8
A N	3	11.1.2022	2.1	6.5	6.2	7,7	8.0	16.0	16.7	17.5	17.7	62.3	76.9	70.7	70.1	25.0	33.4	25.0	25.0
U	4	14.1.2022	2nd	7.8	7.0	5.7	6.8	17.5	17.0	15.7	16.8	57.7	69.1	68.4	64.2	27.5	20.8	29.2	45.8
A	5	18.1.2022	3rd	8.0	8.0	7.5	7.3	18.0	18.0	17.5	17.5	62.1	73.3	66.2	84.5	34.2	37.5	20.8	25.0
R	7	21.1.2022	2,090	6.8	6.8 7.2	6.8 8.0	8.0	16.8	17.8	16.5	18.0	63.3	70.5	65.9 75.5	71.4	25.0 37.5	41.7	25.0 45.8	33.3
Y	8	25.1.2022	4th	6.8	8.0	7.8	8.0	18.0	18.0	17.5	18.0	76.8	84.2	69.3	77.9	20.8	33.3	25.0	25.0
	1	01.2.2022		7.5	7.5	6.2	5.8	17.5	17.5	20.8	16.8	71.9	75.3	45.4	69.8	29.2	33.4	20.8	22.9
F E	2	04.2.2022	1st	8.0	8.0	7.3	7.7	18.8	18.0	25.0	17.5	65.5	67.3	72.4	61.6	25.0	28.5	25.0	25.0
В	3	08.2.2022	2nd	9.3	6.7	6.3	6.8	19.3	17.8	27.1	16.8	75.3	70.6	77.8	73.5	29.2	30.7	27.1	20.8
RY	4	11.2.2022		6.8	5.8	8.0	5.8	17.8	16.2	29.2	15.8	68.6	73.4	72.3	70.2	20.8	29.2	29.2	30.0
U	5	15.2.2022	3rd	6.0	8.0	6.3	6.8	16.3	18.0	25.8	16.8	64.2	70.5	68.5	66.9	25.0	25.0	25.8	20.8
A	6	18.2.2022		7.7	8.0	7.5	7.2	18.2	18.3	20.8	19.0	73.8	85.5	75.9	72.9	20.8	31.7	20.8	22.5
R	7 8	25.2.2022	4th	7.5	7.8	7.7	7.0	18.3	18.0	27.1	18.0	75.1 65.9	77.8	70.3	70.8	28.3	33.3	27.1	29.2
	1	1.3.2022	-	7.7	6.7	7.5	8.0	17.7	16.7	17.5	18.0	56.7	64.8	67.7	67.7	20.8	25.0	29.2	20.8
	2	-	lst	-	7.3	-	7.5	16.7	18.5	18.7	1	58.7	60.5	60.4	-	37.5	29.2	25.0	-
17		4.3.2022	-	6.7	5.7	8.2	8.0	18.0	105,3730	(5)80000	16.3	25500000	65.2	72.2	56.8	1277-22	0.000	100000	33.3
M A	3	8.3.2022	2nd	8.0		6.5		-	16.0	16.7	16.7	68.1	-		-	41.7	25.0	33,3	41.7
R	4	12.3.2022	-	6.8	6.2	8.0	6.7	16.8	17.3	18.0	17.3	50.8	67.1	67.8	77.8	33.3	37.5	20.8	37.5
C	5	15.3.2022	3rd	7.0	8.0	7.3	8.0	17.5	18.2	17.5	18.0	58.2	76.8	65.1	67.5	37.5	29.2	25.0	33.3
Н	6	19.3.2022		8.0	8.5	6.7	7.2	18.0	19.2	16.7	18.0	58.3	68.1	62.6	77.4	41.7	33.3	45.8	25.0
	7	22.3.2022	-	7.3	6.3	7.3	6.7	17.3	16.3	18.2	16.7	66.9	74.7	68.1	65.4	29.2	38.3	25.0	20.8
	8	26.3.2022	4th	8.0	7.2	8.2 7.3	6.3 7.5	18.0	18.2	18.2	17.0	71.6 59.6	62.9	50.9 60.1	55.9 67.2	33.3 41.7	36.2	29.2	29.2
-	-	1 29.3.2022 iniumum		4.5	5.3	4.8	3.8	14.0	-	14.5	14.2	50.8	60.3	27.4	47.1	16.7	16.7	16.7	12.5
	- 6.74	laximum		9.3	8.5	8.8	8.0	19.3	19.2	29.2	19.0	94.2	91.8	85.1	84.5	50.0	50.0	45.8	45.8
-		Average		7.0	7.0	6.9	6.6	17.0	_	18.1	17.1	70.6	71.9	65.9	65.5	28.8	30,0	27.3	26.4
		rverage		7.0	7.0	0,9	0.0	17,0	17.3	10.1	17.1	1 70.0	7.1.9	03.9	05.5	20.0	30,2	21.3	20.4





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-2021 to March-2022

	MONTH/YEAR		SPM (microgram/m ³)													
SL. NO.		Gypsum Yard	Slag Yard	Flyash Yard	Cement mill	Lime stone unloading hopper	Lime stone crushing Site	Coal Yard	Packing Plant							
1	Oct-21	575.7	528.5	592.4	704.8	558.7	579.1	676.6	761.1							
2	Nov-21	517.2	501.5	572.5	693.0	542.8	590.8	555.7	620.3							
3	Dec-21	841.7	1101.4	1022.8	785.6	598.6	596.6	1094.3	1027.6							
4	Jan-22	1068.0	981.5	937.7	897.9	518.5	595.1	705.3	667.4							
5	Feb-22	1171.9	897.8	1115.1	968.5	573.4	583.2	632.6	752.5							
6	Mar-22	1056.0	1038.5	1028.5	1150.7	584.5	575.6	756.6	824.3							
	Minimum	517.19	501.52	572.47	693.02	518.52	575.64	555.73	620.31							
	Maximum	1171.85	1101.39	1115.12	1150.71	598.61	596.61	1094.27	1027.55							
	Average	871.74	841.53	878.17	866.77	562.76	586.72	736.83	775.53							

Monitored by

Checked by

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-2021 to March-2022

								Am	bient Noise										
		0	ct-21	No	ov-21	Dec	c-21	Ja	n-22	Feb	-22	Ma	r-22	Mini	imum	Max	imum	Ave	erage
SI. No.	Location Name	Day (dB) Leq	Night (dB) Leq	Day (dB) Leq	Night (dB) Leq	Day (dB) Leq	Night (dB) Leq	Day (dB) Leq	Night (dB) Leq	Day (dB) Leq	Night (dB) Leq	1	(dB) Leq	Day (dB) Leq	(dB) Leq	Day (dB) Leq	Night (dB) Leq	Day (dB) Leq	Night (dB) Leq
1	Boundary side	47.5	36.2	48.2	38.5	45.8	37.4	54.8	48.9	65.2	57.4	55.2	49.2	45.8	36.2	65.2	57.4	52.8	44.6
2	Administrative Building	49.5	37.5	45.5	35.2	48.7	35.5	52.6	46.7	55,3	49.7	53.8	47.5	45.5	35.2	55.3	49.7	50.9	42.0
3	Lime Stone gate	51.8	39.5	54.3	46.8	55.8	47.2	60.8	55.7	63.5	54.6	61.6	56.8	51.8	39.5	63.5	56.8	58.0	50.1
4	Despatch gate	50.2	43.6	65.8	56.5	53.3	40.8	62.5	57.5	65.2	57.2	63.8	58.3	50.2	40.8	65.8	58.3	60.1	52.3
5	Near OC Lab.	47.8	38.9	48.3	37.5	50.5	42.7	55.3	49.6	61.6	53.8	55.3	49.6	47.8	37.5	61.6	53.8	53.1	45.4
6	Near Canteen	54.6	43.7	55.5	45.7	53.8	42.5	62.7	52.8	64.3	54.2	63.8	54.8	53.8	42.5	64.3	54.8	59.1	49.0
7	Plant main gate	53.4	42.8	61.5	51.6	62.6	52.8	65.6	54.7	68.5	58.7	66.5	55.7	53.4	42.8	68.5	58.7	63.0	52.7
8	Dispensary	52.7	40.6	52.7	40.2	48.9	40.2	52.9	45.6	57.5	47.5	53.7	46.9	48.9	40.2	57.5	47.5	53.1	43.5
9	General Store	56.5	46.7	54.5	47.8	56.5	49.2	56.5	44.9	61.3	50.8	57.3	48.6	54.5	44.9	61.3	50.8	57.1	48.0

CI		Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Minimum	Maximum	Average
SI. No.	Location Name	(dB) Leg	(dB) Lea	(dB) Leg	(dB) Leq	(dB) Leq	(dB) Leq	(dB) Leq	(dB) Leq	(dB) Leq
1	Lime Stone Crusher	65.2	65.8	67.3	82.5	81.5	80.6	65.2	82.5	73.8
2	Kiln/ Cooler	60.5	67.5	66.8	84.6	83.4	82.5	60.5	84.6	74.2
3	Kiln Platform	71.6	72.8	70.7	80.6	82.4	80.3	70.7	82.4	76.4
4	Power Plant	60.5	64.6	62.6	60.2	61.5	62.5	60.2	64.6	62.0
5	Coal Yard	57.5	57.7	57.6	62.5	63.7	60.6	57.5	63.7	59.9
6	Slag yard	53.4	52.8	54.4	64.6	65.6	63.5	52.8	65.6	59.1
7	Gypsum yard	57.4	57.9	56.8	58.5	59.2	57.6	56,8	59.2	57.9
8	Packing Plant	58.8	60.8	58.5	70.2	71.6	71.5	58.5	71.6	65.2
9	DG House (1-meter distance)	74.8	75.8	73.2	72.5	73.5	74.6	72.5	75.8	74.1
10	DG House (2-meter distance)	72.4	73.5	70	70.2	72.8	71.5	70	73.5	71.7
12	Raw mill proporting hopper	69.7	72.8	74.8	70.8	70.6	72.2	69.7	74.8	71.8
13	coal mill	67.5	68.9	67.3	80.2	81.5	81.5	67.3	81.5	74.5
14	Near silo clinker loading point	65.6	66.2	65.5	75.6	76.5	76.3	65.5	76.5	71.0
15	CM-1 weigh feeder	60.8	63.7	62.8	72.4	74.6	73.5	60,8	74.6	68.0
16	CM-2 weigh feeder	61.6	64.8	60.2	70.8	72.8	71.6	60.2	72.8	67.0
17	Cement silo Packer-1	64.6	62.3	64.7	68.7	69.5	69.5	62.3	69.5	66.6
18	Cement silo Packer-2	57.6	65.8	66.9	70.2	71.2	71.5	57.6	71.5	67.2
19	Cement silo Packer-3	65.7	67.5	68.6	66.5	67.5	66.3	65.7	68.6	67.0
20	Cement silo Packer-4	57.6	61.6	62.8	64.8	65.6	65.8	57,6	65.8	63.0
22	Truck Loading point- 1	59.7	63.5	64.6	72.4	73.5	70.5	59.7	73.5	67.4
23	Truck Loading point- 2	62.8	64.5	65.3	74.6	76.4	72.8	62.8	76.4	69.4
24	Truck Loading point- 3	66.6	69.8	62.3	70.8	71.5	73.4	62.3	73.4	69.1
25	Truck Loading point- 4	60.7	62.5	60.6	68.6	69.5	69.5	60.6	69.5	65.2
26	Slag mill weigh feeder	54.6	59.6	58.2	66.8	67.3	65.8	54.6	67.3	62.1



Shridhar Checked by

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

Stack monitoring report of Cement plant & 2x25 MW Thermal power plant for October-2021 to March-2022

Sl. No.			Stack locations												
	Mandle (Vann	Thern	nal Power Pla	ant		Kiln / Raw Mill		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-21	33.63	191	33	13.9	0.0	610.0	-							
2	Nov-21				15.7	0.0	464.0	-							
3	Dec-21				9.9	0.0	462.0	#8							
4	Jan-22	Pla	ant Shutdown		12.4	0.0	453.0	-							
5	Feb-22				8.7	0.0	410.0	=8							
6	Mar-22				12.0	0.0	521.0	=:							

					Stack location	S		
					SPM in mg/Nm	13		
Sl. No.	Month/Year	CM-3 (Slag Cement Mill)	Coal crusher	LSC	CM-1	CM-2	Cooler	Coal Mill
1	Oct-21	24.8	22.7	11.8	Mill Shutdown	8.5	5.1	8.5
2	Nov-21	10.0	18.5	8.8	6.9	11.7	5.9	12.8
3	Dec-21	8.4	15.4	10.2	4.7	9.5	7.8	15.5
4	Jan-22	8.9	10.2	9.0	6.75	10.67	7.1	19.6
5	Feb-22	13.0	12.1	12.0	6.7	15.6	5.4	15.1
6	Mar-22	13.4	9.0	10.1	10.9	17.4	13.0	15.6

Monitored by

J.K. Cement WORKS, MUDDAPUR (KARNATAKA)

(Unit: J.K. Cement Ltd.)

STP water Analysis Report (Monthly Average) for the Month of October-2021 to March-2022

Sl.No.	Month	Suspended Solids	PH	BOD	COD	NH4-N	N-total	Fecal Coliform
Toler	ance limit	20	6 to 9	10	50	5	10	<230
1	Oct-21	7.8	8.2	7.4	24.9	4.3	7.5	Nil
2	Nov-21	7.7	7.2	7.0	24.9	3.5	7.4	Nil
3	Dec-21	8.2	7.7	7.4	24.6	4.4	7.3	Nil
4	Jan-22	11.4	7.8	8.5	31.1	3.7	7.3	Nil
5	Feb-22	9.2	7.9	7.3	24.5	4.2	7.3	Nil
6	Mar-22	8.0	7.7	7.3	27.5	4.3	7.4	Nil
Half Y	early Min.	7.73	7.25	7.02	24.48	3.52	7.25	Nil
	early Max.	11.37	8.24	8.50	31.09	4.41	7.53	Nil
	early Avg.	8.71	7.76	7.49	26.24	4.06	7.37	Nil

Monitored by

J.K. Cement WORKS, MUDDAPUR (KARNATAKA)

(Unit: J.K. Cement Ltd.)

STP water Analysis Report (Monthly Average) for the Month of October-2021 to March-2022

Sl.No.	Month	Suspended Solids	PH	BOD	COD	NH4-N	N-total	Fecal Coliform
Toler	ance limit	20	6 to 9	10	50	5	10	<230
1	Oct-21	7.8	8.2	7.4	24.9	4.3	7.5	Nil
2	Nov-21	7.7	7.2	7.0	24.9	3.5	7.4	Nil
3	Dec-21	8.2	7.7	7.4	24.6	4.4	7.3	Nil
4	Jan-22	11.4	7.8	8.5	31.1	3.7	7.3	Nil
5	Feb-22	9.2	7.9	7.3	24.5	4.2	7.3	Nil
6	Mar-22	8.0	7.7	7.3	27.5	4.3	7.4	Nil
Half Y	early Min.	7.73	7.25	7.02	24.48	3.52	7.25	Nil
	early Max.	11.37	8.24	8.50	31.09	4.41	7.53	Nil
	early Avg.	8.71	7.76	7.49	26.24	4.06	7.37	Nil

Monitored by



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[Environment (Protection) Act, 1986 vide Gazette notification S.No. 2836(E) dt:30.08.2017, validity dt: 08.08.2022]



ANALYSIS REPORT OF AMBIENT AIR QUALITY MONITORING

- Name and Address of the Industry
- Sample Collected By
- Particulars of Sample Collected
- Date of Collection
- Date of Sample Receipt
- Date of Analysis Started
- Discipline
- 8. Group
- Test Report Number
- 10. ULR
- 11. Lab code
- Report Issued Date 12.

- M/s J.K Cements works, Muddapur (Unit: J.K. Cement Ltd) Muddapur village, Mudhol (Tq.), Bagalkot (Dist.)-587122
- SUMS Techno Labs Private Limited, Hosapete
- SUMSTLPL/RDS/CEIS/01, SUMSTLPL/FPS/CEIS/2
- 29.12.2021
- 30.12.2021
- 30.12.2021
- Chemical
- Atmospheric Pollution
- STLPL/JKC/AA/2021/12/1122
- TC622421000001122F
- 844/1, 844/2, 844/3,844/4
- 15.01.2022

						Result		
SI.No	Parameters	Pretocol	Unit	Near admin office	Near Guest House	D Block Staff Colony Quarters	Near Dispatch Gate	NAAQ STANDARDS (2009)
1.	PM ₁₀	IS. 5182 (Part 23): 2006	µg/m³	71	62	55	65	100
2.	PM _{2.5}	SUMS/S01/038 Issued.01/ Dated/03.05.2012 (Based on CPCB buildelines volume -1 may 2011)	μg/m³	43	38	41	45	60
3.	SO ₂	IS: 5182 (Part 2): 2006	μg/m³	13.4	12.5	10.5	12.2	80
4.	NO ₂	IS: 5182(Part 6):2006	μg/m³	17.1	15,4	13.6	15.7	80
5.	Ozone(O ₃)	IS: 5182 (Part 9):1974	μg/m³	14.51	18.24	15.64	10.14	100
6.	Ammonia (NH ₃)	SUMS/SOP/147 Issued No:01 Date 10:06.2015 (Based on CPCB Guidelines volume -1 may 2011)	μg/m³	21.22	23.11	17.68	26.84	400
7.	Lead (Pb)	IS: 5182: (Part 22):2005	μg/m³	BDL	BDL	BDL	BDL	0.5-1.0
8.	Nickel (Ni)	Based on CPCB Guidelines	ng/m³	BDL	BDL	BDL	BDL.	20
9.	Arsenic (As)	Based on CPCB Guidelines	ng/m³	BDL	BDL	BDL	BDL.	06
10.	Carbon Monoxide (CO)	SUMSTLPL/SOP/AA/10 Issued No/ Date: 01/07.03.2017	mg/m³	BDL	BDL	BDL	BDL	04

Note: BDL-Below Detectable Limit

INFERENCE

As per NAAQ Standards (2009);

As per MANQ standards (2009); Report Status: Measured values for the above parameters a Ammonia, Ozone, CO Parameters are monitored for a poste

Analysed by Anand N

HOSPET

Authorised Signatory Shivashankaraiah H M

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[Environment (Protection) Act, 1986 vide Gazette notification Sl.No. 2836(E) DT: 30.08.2017, validity DT: 08.08.2022]

ISO 9001: 2015 ISO 14001:2015 ISO 45001:2018

ANALYSIS REPORT OF AMBIENT AIR QUALITY MONITORING

1. Name and Address of the Industry

2. Sample Collected By

3. Particulars of Sample Collected

4. Date of Collection5. Date of Sample Receipt

Date of Analysis Started
 Discipline

8. Group

9. Test Report Number

10. Report Issued Date

M/s J.K Cements works, Muddapur (Unit: J.K. Cement Ltd)

Muddapur village, Mudhol (Tq.), Bagalkot (Dist.)-587122

: SUMS Techno Labs Private Limited, Hosapete

: SUMSTLPL/RDS/CEIS/01, SUMSTLPL/BS/CEIS/01

: 29.12.2021

: 30.12.2021

: 30.12.2021

: Chemical

: Atmospheric Pollution

: STLPL/JKC/AA/2021/12/1122

: 15.01.2022

						Result		NAAO
Sl.No	Parameters	Protocol	Unit	Near admin office	Near Guest House	D Block Staff Colony Quarters	Near Dispatch Gate	STANDARDS (2009)
1.	Benzene (C ₆ H ₆)	IS: 5182: (Part 11):2006	μg/m³	BDL	BDL	BDL	BDL	05
2.	Benze a Pyrena (Bal')	Based on CPCB Guidelines	ng/m³	BDL	BDL	BDL	BDL	01

Note: BDL-Below Detectable Limit

INFERENCE

As per NAAQ Standards (2009):

Report Statu. Measured values for the above parameters are within the limit.

Analysed by



Authorised Signatory Shivashankaraiah H M

Page No.2 of 28

Branch Office: Maakrupa Apartment, 2nd Floor, H.No-201, Near Baldwin School, Nagarabhavi Road, Kalyan Hagar. Bangalore-560072.



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[Environment (Protection) Act, 1986 vide Gazette notification SLNo. 2836(E) DT: 30.08.2017, validity DT: 08.08.2022]

ISO 9001: 2015 ISO 14001:2015 ISO 45001:2018

ANALYSIS REPORT OF FUGITIVE EMISSION MONITORING

Name and Address of the

Industry

M/s J.K Cements works, Muddapur (Unit: J.K. Cement Ltd) Muddapur village, Mudhol (Tq.), Bagalkot (Dist.)-587122

Sample Collected By 2.

Sampling Equipment's ID

SUMS Techno Labs Private Limited, Hosapete

SUMSTLPL/RDS/CEIS/09, SUMSTLPL/RDS/CEIS/03 SUMSTLPL/RDS/CEIS/05, SUMSTLPL/RDS/CEIS/07

Discipline

Product group

Test Report Number 6.

ULR Number

Chemical : Atmospheric Pollution

: STLPL/JKC/FE/2021/01/1122

: TC622421000001122F

Report Issued Date

: 15.01.2022

Sl.No	Name of the location	Sample collection	Receipt	Analysis	Lab Code	TSPM [µg/m³] IS: 5182 (Part 23):2004
		Date	date	started		Result
1	Near slag yard	29.12.2021	30.12.2021	30.12.2021	844/15	1183
2	Near gypsum yard	29.12.2021	30.12.2021	30.12.2021	844/16	1053
3	Near cement mill-1	29.12.2021	30.12.2021	30.12.2021	844/17	985
4	Near laterite yard	29.12.2021	30.12.2021	30.12.2021	844/18	594
5	Near coal yard	29.12.2021	30.12.2621	30.12.2021	844/19	1242
6	Near packing plant	29.12.2021	30.12.2021	30.12.2021	844/21	924
7	Near time stone crusher (upside)	29.12.2021	30.12.2021	30.12.2021	844/22	548
8	Near lime stone crusher (down side)	29.12.2021	30.12.2021	30.12.2021	844/20	498
	As pe	r KSPCB Std. 24	Hrs. Avg.			2000.00 μg/m ³

INFERENCE

Standards as per KSPCB Consent

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

Analysed by Anand N



Authorized Signatory Shivashankarajah.H.M.

Page No 4 of 28



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ISO 9001: 2015 ISO 14001:2015 ISO 45001:2018

TC-6224

Recognized by MoEF [Environment (Protection) Act, 1986 vide Gazette notification S.No. 2836(E) dt:30.08.2017, validity dt: 08.08.2022]

AMBIENT NOISE LEVEL REPORT

Name of the Industry 1.

M/s J.K Cements works, Muddapur (Unit: J.K. Cement Ltd) Muddapur village, Mudhol (Tq.), Bagalkot (Dist.)-587122

Sample Collected By 2.

SUMS Techno Labs Private Limited, Hosapete

Particulars of Sample Collected 3.

Envirotech SLM 109 (ID No. SUMSTLPL/NOISE/ENT/01) Envirotech SLM 100 (ID No. SUMSTLPL/NOISE/ENT/02)

Method Adopted 4.

IS 9989:1981

Discipline 5.

Chemical

6. Group **Atmospheric Pollution**

Test Report Number 7.

STLPL/JKC/AN/2021/01/1122

ULR Number 8.

TC622421000001122F

9. Report Issued Date 15.01.2022

ol v	Sample	Lab	Date of	Chie	Para	meters in d	IB(A)	KSPCB /
Sl. No	Location	Code	Sampling	Shift	Min.	Max.	LEQ	CPCB STD
1	Near Cooler Station	844/5	27.12.2021		79.5	84.9	82.2	85
2	Near Packing Plant	844/6	27.12.2021		78.4	83.1	80.7	85
3	Near Crusher Area	844/7	28.12.2021	4-1	77.9	84.5	81.1	85
4	Near Power Plant	844/10	29.12.2021		79.1	84.3	81.7	85
5	Unloading Area Near	844/11	30.12.2021		80.5	83.5	82.0	85
	Near Kiln Plant	844/12	30.12.2021		79.8	84.9	82.3	85
7	Near Cement Mill	844/13	31.12.2021		79.2	84.3	81.7	85
8	Near Raw Mill	844/14	31.12.2021		78.5	83.1	80.8	85
			28.12.2021	Day	56.7	69.3	62.7	75
9	Near Cooler Office	844/8	28.12.2021	Night	55.2	66.7	60.7	70
			29.12.2021	Day	43.8	55.7	49.4	75
10	Near Admin Area	844/9	29.12.2021	Night	38.6	50.1	44.0	70

Note: After additional conditions Sl. No 1 to 8, the condition viz. "The noise standard for work zone exposure for industrial workers shall be as per the factories act/The Noise pollution Rules, 2000" Shall be included as additional conditions.

INFERENCE

As per CPCB/KSPCB Standards

Report Status: - Measured values for all the parameters are within the limits.

Authorized Signatory Shivashankaraiah. H.M Page No.03 of 28

Head Office: 15-DP2, KIADB, Sankalapura Industrial Area, Ballari Road, Hosapete - 583201, Ballari District, Karnataka,

Tel/Fax No. 08394-265084, Cell: +91-8884494244/261/250/239, E-mail: technolabs@sums.org.in, sums.hpt@gmail.com, Website: www.sums.org.in

Branch Office: Maakrupa Apartment, 2nd Floor, H.No-201, Near Baldwin School, Nagarabhavi Road, Kalyan Nagar,



[Analytical & Environment Laboratory] NABL Accredited Laboratory Cert No. TC-6224 Recognized by MoEF

ISO 9001: 2015 ISO 14001:2015 ISO 45001:2018

[Environment (Protection) Act, 1986 vide Gazette notification S.No. 2836(E) dt:30.08.2017, validity dt: 08.08.2022]

ANALYSIS REPORT FOR STACK EMISSION MONITORING

Name and Address of

the Industry

M/s J.K Cements works, Muddapur (Unit: J.K. Cement Ltd) Muddapur village, Mudhol (Tq.), Bagalkot (Dist.)-587122

2. Stack ID

Sample Collected By 3.

Sampling Equipment's ID 4. **Date of Collection** 5.

Date of Sample Receipt 6. 7. Date of Analysis Started 8. Discipline

Group 9.

10. Test Report Number 11. ULR

12. Lab code 13. Report Issued Date

Cement Mill-2 SUMS Techno Labs Private Limited, Hosapete

Vayubodhan Stack Sampler VSS 1

29.12.2021 30.12.2021 30.12.2021

Chemical Atmospheric Pollution

STLPL/JKC/AA/2021/12/1122

TC622421000001122F 844/42

15.01.2022

GENERAL DETAILS

Stack Attached to	Cement Mill- 2
Ambient Temperature (°C)	30
Stack Temperature (°C)	85
Diameter(m)	1.25

Sl. No	Parameters	Protocol	Unit	Result	Standards as per KSPCB
1	Velocity of flue gas discharge	IS 11255(Part 3): 1985	m/s	7.14	
2	Volume of flue gas discharge	IS 11255(Part 3):1985	Nm³/hr	26256.92	**
3	Particulate matter (PM)	IS 11255(Part 1):1985	mg/Nm³	11.58	30

INFERENCE

As per CPCB/KSPCB Standards (2009),

Report Status: - Measured Values for the above parameters are within the limit.

Analysed by Anand N

Authorized Signatory Shivashankaraiah.H.M

Page No.25 of 28

Head Office: 15-DP2, KIADB, Sankalapura Industrial Area, Ballari Road, Hosapete - 583201, Ballari District, Karnataka, Tel/Fax No. 08394-265084, Cell: +91-8884494244/261/250/239,

E-mail: technolabs@sums.org.in, sums.hpt@gmail.com, Website: www.sums.org.in Branch Office: Maakrupa Apartment, 2nd Floor, H.No-201, Near Baldwin School, Nagarabhavi Road, Kalyan Nagar,

Bangalore-560072.



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ISO 9001: 2015 ISO 14001:2015 ISO 45001:2018

ANALYSIS REPORT FOR STACK EMISSION MONITORING

 Name and Address of the Industry : M/s J.K Cements works, Muddapur (Unit: J.K. Cement Ltd) Muddapur village, Mudhol (Tq.), Bagalkot (Dist.)-587122

2. Stack ID

: Cement Mill-2

3. Sample Collected By

: SUMS Techno Labs Private Limited, Hosapete

4. Sampling Equipment's ID

Vayubodhan Stack Sampler VSS 1

5. Date of Collection

29.12.2021

6. Date of Sample Receipt

30.12.2021

7. Date of Analysis Started

30.12.2021

8. Discipline

Chemical

9. Group

Atmospheric Pollution

10. Test Report Number

STLPL/JKC/AA/2021/12/1122

11. Report Issued Date

15.01.2022

GENERAL DETAILS

Stack Attached to	Cement Mill- 2
Ambient Temperature (°C)	30
Stack Temperature (°C)	85
Diameter(m)	1.25

SL No	Parameters	Protocol	Unit	Result	Standards as per KSPCB
1	Moisture	IS-11255(Part03)	%	<1	

INFERENCE

As per CPCB/KSPCB Standards (2009),

Report Status: - Measured Values for the above parameters are within the limit.

Analysed by
Analysed N



Authorized Signatory Shivashankaraiah.H.M Page No.26 of 28

Head Office: 15-DP2, KIADB, Sankalapura Industrial Area, Ballari Road, Hosapete – 583201, Ballari District, Karnataka, Tel/Fax No. 08394-265084, Cell: +91-8884494244/261/250/239,

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Branch Office: Maakrupa Apartment, 2nd Floor, H.No-201, Near Baldwin School, Nagarabhavi Road, Kalyan Nagar, Bangalore-560072.



4.

SUMS TECHNO LABS PRIVATE LIMITED

[Analytical & Environment Laboratory] NABL Accredited Laboratory Cert No. TC-6224 Recognized by MoEF

ISO 9001: 2015 ISO 14001:2015 ISO 45001:2018

[Environment (Protection) Act, 1986 vide Gazette notification S.No. 2836(E) dt:30.08.2017, validity dt: 08.08.2022]

ANALYSIS REPORT FOR STACK EMISSION MONITORING

Name and Address of

the Industry

M/s J.K Cements works, Muddapur (Unit: J.K. Cement Ltd)

Stack ID 2.

Sample Collected By 3.

Sampling Equipment's ID

Date of Collection Date of Sample Receipt 6. **Date of Analysis Started** 7. 8. Discipline

Group

10. Test Report Number

11. ULR

12. Lab code 13. Report Issued Date Muddapur village, Mudhol (Tq.), Bagalkot (Dist.)-587122

Cement Mill-3

SUMS Techno Labs Private Limited, Hosapete Vayubodhan Stack Sampler VSS 1

30.12.2021 31.12.2021

31.12.2021 Chemical

Atmospheric Pollution

STLPL/JKC/AA/2021/12/1122

TC622421000001122F

844/43 15.01.2022

GENERAL DETAILS

Stack Attached to	Cement Mill- 3
Ambient Temperature (°C)	28
Stack Temperature (°C)	82
Diameter(m)	3.75

SI. No	Parameters	Protocol	Unit	Result	Standards as per KSPCB
1	Velocity of flue gas discharge	IS 11255(Part 3): 1985	m/s	8.06	
2	Volume of flue gas discharge	IS 11255(Part 3):1985	Nm³/hr	269015.85	-
3	Particulate matter (PM)	IS 11255(Part 1):1985	mg/Nm³	11.2	30

INFERENCE

As per CPCB/KSPCB Standards (2009),

Report Status: - Measured Values for the above parameters are within the limit.

Analysed by Anand N

Authorized Signatory Shivashankaraiah.H.M

Page No. 27 of 28



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ISO 9001: 2015 ISO 14001:2015 ISO 45001:2018

ANALYSIS REPORT FOR STACK EMISSION MONITORING

Name and Address of

the Industry

2. Stack ID

3. Sample Collected By

4. Sampling Equipment's ID

5. Date of Collection

6. Date of Sample Receipt 7. Date of Analysis Started

8. Discipline

Group

10. Test Report Number

11. Report Issued Date

M/s J.K Cements works, Muddapur (Unit: J.K. Cement Ltd) Muddapur village, Mudhol (Tq.), Bagalkot (Dist.)-587122

Cement Mill-3

SUMS Techno Labs Private Limited, Hosapete

Vayubodhan Stack Sampler VSS 1

30.12.2021

31.12.2021

31.12.2021 Chemical

Atmospheric Pollution

STLPL/JKC/AA/2021/12/1122

15.01.2022

GENERAL DETAILS

Stack Attached to	Cement Mill- 3
Ambient Temperature (°C)	28
Stack Temperature (°C)	82
Diameter(m)	3.75

SI. No	Parameters	Protocol	Unit	Result	Standards as per KSPCB
1	Moisture	IS-11255(Part03)	%	<1	

INFERENCE

As per CPCB/KSPCB Standards (2009),

Report Status: - Measured Values for the above parameters are within the limit.

Analysed by Anand N



Authorized Signatory Shivashankaraiah.H.M

Page No.28 of 28



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ANALYSIS REPORT FOR STACK EMISSION MONITORING

1. Name and Address of the Industry M/s J.K Cements works, Muddapur (Unit: J.K. Cement Ltd) Muddapur village, Mudhol (Tq.), Bagalkot (Dist.)-587122

2. Stack ID

: Coal Mill

3. Sample Collected By

SUMS Techno Labs Private Limited, Hosapete

4. Sampling Equipment's ID

Vayubodhan Stack Sampler VSS 1

5. Date of Collection

30.12.2021

6. Date of Sample Receipt

31.12.2021

7. Date of Analysis Started

31.12.2021

8. Discipline

Chemical

9. Group

Atmospheric Pollution

10. Test Report Number

STLPL/JKC/AA/2021/12/1122

11. ULR

TC622421000001122F

12. Lab code

844/40

13. Report Issued Date

15.01.2022

GENERAL DETAILS

Stack Attached to	Coal Mill
Ambient Temperature (°C)	27
Stack Temperature (°C)	55
Diameter(m)	1.80

Sl. No	Parameters	Protocol	Unit	Result	Standards as per KSPCB
1	Velocity of flue gas discharge	IS 11255(Part 3): 1985	m/s	8.78	-
2	Volume of flue gas discharge	IS 11255(Part 3):1985	Nm³/hr	73075	
3	Particulate matter (PM)	IS 11255(Part 1):1985	mg/Nm³	20.7	30

INFERENCE

As per CPCB/KSPCB Standards (2009),

Report Status: - Measured Values for the above parameters are within the limit.

Analysed by Anand N

HOSPET V.

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Page No.23 of 28



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[Environment (Protection) Act, 1986 vide Gazette notification SLNo. 2836[E) DT: 30.08.2017, validity DT: 08.08.2022]

ISO 9001: 2015 ISO 14001:2015 ISO 45001:2018

ANALYSIS REPORT FOR STACK EMISSION MONITORING

1. Name and Address of the Industry

M/s J.K Cements works, Muddapur (Unit: J.K. Cement Ltd) Muddapur village, Mudhol (Tq.), Bagalkot (Dist.)-587122

2. Stack ID

3. Sample Collected By

SUMS Techno Labs Private Limited, Hosapete

4. Sampling Equipment's ID

Vayubodhan Stack Sampler VSS 1

5. Date of Collection 6. Date of Sample Receipt

30.12.2021 31.12.2021

7. Date of Analysis Started

31.12.2021

8. Discipline

Chemical

9. Group 10. Test Report Number **Atmospheric Pollution** STLPL/JKC/AA/2021/12/1122

11. Report Issued Date

15.01.2022

GENERAL DET	AILS
Stack Attached to	Coal Mill
Ambient Temperature (°C)	27
Stack Temperature (°C)	55
Diameter(m)	1.80

Sl. No	Parameters	Protocol	Unit	Result	Standards as per KSPCB
1	Moisture	IS-11255(Part03)	%	<1	// //// /

INFERENCE

As per CPCB/KSPCB Standards (2009),

Report Status: - Measured Values for the above parameters are within the limit.

Analysed by Anand N

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Page No.24 of 28



2.

SUMS TECHNO LABS PRIVATE LIMITED

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[Environment (Protection) Act, 1986 vide Gazette notification S.No. 2836(E) dt:30.08.2017, validity dt: 08.08.2022]



ANALYSIS REPORT FOR STACK EMISSION MONITORING

Name and Address of

the Industry Stack ID

M/s J.K Cements works, Muddapur (Unit: J.K. Cement Ltd) Muddapur village, Mudhol (Tq.), Bagalkot (Dist.)-587122

SUMS Techno Labs Private Limited, Hosapete

: 30.12.2021

Sample Collected By 3.

Sampling Equipment's ID

5. **Date of Collection** 6. Date of Sample Receipt 7. Date of Analysis Started 8.

: 31.12.2021 : 31.12.2021 Discipline Group

10. Test Report Number

11. ULR

12. Lab code 13. Report Issued Date : Chemical : Atmospheric Pollution

STLPL/JKC/AA/2021/12/1122

Vayubodhan Stack Sampler VSS 1

TC622421000001122F

844/39 15.01.2022

GENERAL DE I	ALLO
Stack attached to	Raw Mill/Kiln
Ambient Temperature (°C)	30
Stack Temperature (°C)	82
Diameter(m)	5

Sl. No	Parameters	Protocol	Unit	Result	Standards as per KSPCB
1	Velocity of flue gas discharge	IS 11255(Part 3): 1985	m/s	8.13	
2	Volume of flue gas discharge	IS 11255(Part 3):1985	Nm³/hr	482403	-
3	Particulate matter (PM)	IS 11255(Part 1):1985	mg/Nm³	19.5	30
4	Nitrogen Dioxide as NO ₂	IS 11255 (Part 7):2005	mg/Nm ³	495	800
5	Sulphur Dioxide as SO ₂	IS 11255 (Part 2):2005	mg/Nm³	0.8	100

INFERENCE

As per CPCB/KSPCB Standards (2009),

Report Status: - Measured Values for the above parameters are within the limit.

Analysed by Anand N

201

Authorized Signatory Shivashankaraiah.H.M

Page No.21 of 28

Head Office: 15-DP2, KIADB, Sankalapura Industrial Area, Ballari Road, Hosapete - 583201, Ballari District, Karnataka, Tel/Fax No. 08394-265084, Cell: +91-8884494244/261/250/239,

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ISO 9001: 2015 ISO 14001:2015 ISO 45001:2018

ANALYSIS REPORT FOR STACK EMISSION MONITORING

1. Name and Address of

 M/s J.K Cements works, Muddapur (Unit: J.K. Cement Ltd) Muddapur village, Mudhol (Tq.), Bagalkot (Dist.)-587122

the Industry
2. Stack ID

: Raw Mill

3. Sample Collected By

: SUMS Techno Labs Private Limited, Hosapete

4. Sampling Equipment's ID

Vayubodhan Stack Sampler VSS 1

5. Date of Collection6. Date of Sample Receipt

30.12.2021 31.12.2021

7. Date of Analysis Started

31.12.2021

8. Discipline

Chemical

9. Group

Atmospheric Pollution

10. Test Report Number

STLPL/JKC/AA/2021/12/1122

11. Report Issued Date

15.01.2022

GENERAL DETAILS

Stack attached to	Raw Mill/Kiln
Ambient Temperature (°C)	30
Stack Temperature (°C)	82
Diameter(m)	5

SI. No	Parameters	Protocol	Unit	Result	Standards as per KSPCB
1	Moisture	IS-11255(Part03)	%	<1	

INFERENCE

As per CPCB/KSPCB Standards (2009),

Report Status: - Measured Values for the above parameters are within the limit.

Analysed by Analysed N



Authorized Signatory Shivashankaraiah.H.M

Page No.22 of 28



[Analytical & Environment Laboratory]
NABL Accredited Laboratory Cert No. TC-6224
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ISO 9001: 2015 ISO 14001:2015 ISO 45001:2018

TC-6224

[Environment (Protection) Act, 1986 vide Gazette notification S.No. 2836(E) dt:30.08.2017, validity dt: 08.08.2022]

ANALYSIS REPORT OF STP OUTLET WASTE WATER

1. Name of the Industry

M/s J.K Cements works, Muddapur (Unit: J.K. Cement Ltd) Muddapur village, Mudhol (Tq.), Bagalkot (Dist.)-587122

2. Sample Collected By

: SUMS Techno Labs Private Limited, Hosapete

3. Name of the sample collected

: STP Outlet Waste Water

4. Date of Collection

29.12.2021

5. Date of Sampling Receipt

30.12.2021

6. Date of analysis Started

30.12.2021

7. Sampling Method

APHA 23rd Edition - 1060 B

8. Discipline

Chaminal

9. Group

Chemical

9. Group 10. Test Report Number Pollution & Environment STLPL/JKC /WW/2021/12/1122

11. ULR Number

TC622421000001122F

12. Lab Code

: 844/37

13. Report Issued Date

15.01.2022

Sl. No	Parameters	Protocol	Unit	Result	Standard as per KSPCB Consent
1	pH	APHA 23rd EDITION-4500		7.21	6.5-9.0
2	Total Suspended Solids	APHA 23rd EDITION -2540 D	mg/l	6	20
3	Chemical Oxygen Demand (COD)	APHA 23rd EDITION - 5220 C	mg/l	19.96	50
4	Biological Oxygen Demand (BOD) at 27°C for 3 days	IS:3025(Part-44) 1993	mg/l	7.5	10

Analysed by K AIDAS



Authorised Signatory Shivashankaraiah H M

Page No.17 of 28



[Analytical & Environment Laboratory] Recognized by MoEF

[Environment (Protection) Act, 1986 vide Gazette notification Sl.No. 2836(E) DT: 30.08.2017, validity DT: 08.08.2022]

ISO 9001: 2015 ISO 14001:2015 ISO 45001:2018

ANALYSIS REPORT OF STP OUTLET WASTE WATER

Name of the Industry
 M/s J.K Cements works, Muddapur (Unit: J.K. Cement Ltd)
 Muddapur village, Mudhol (Tq.), Bagalkot (Dist.)-587122

2. Sample Collected By : SUMS Techno Labs Private Limited, Hosapete

3. Name of the sample collected : STP Outlet Waste Water

Date of Collection : 29.12.2021
 Date of Sampling Receipt : 30.12.2021
 Date of analysis Started : 30.12.2021

7. Sampling Method : APHA 23rd Edition - 1060 B

8. Discipline : Chemical

 9. Group
 : Pollution & Environment

 10. Test Report Number
 : STLPL/JKC /WW/2021/12/1122

11. Report Issued Date : 15.01.2022

Sl. No.	Parameters	Protocol	Unit	Result	Standard as per KSPCB Consent
1	Total Nitrogen	IS:3025(part-34)	mg/l	6.72	10
2	Ammonical Nitrogen	IS:3025(part-34)	Mg/l	3.08	5
3	Fecal Coli Form	IS:1622:1981, RA 2009	MPN/100ml	73	<100





Authorised Signatory Shivashankaraiah H M Page No.18 of 28

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E-mail: technolabs@sums.org.in, sums.hpt@gmail.com, Website: www.sums.org.in

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[Analytical & Environment] NABL Accredited Laboratory Cert No. TC-6224 Recognized by MoEF



ISO 9001: 2015 ISO 14001:2015 ISO 45001:2018

TC-6224

ANALYSIS REPORT OF GROUND WATER QUALITY

1. Name of the Industry

M/s J.K Cements works, Muddapur (Unit: J.K. Cement Ltd) Muddapur village, Mudhol (Tq.), Bagalkot (Dist.)-587122

2. Sample Collected By

SUMS Techno Labs Private Limited, Hosapete

3. **Date of Collection**

29.12.2021

4. Date of Sampling Receipt 5. **Date of analysis Started**

30.12.2021 30.12.2021

6. Sampling Method

APHA 23RD Edition - 1060 B

7. Discipline

Chemical : Water :

8. Group 9. **Test Report Number**

STLPL/JKC/GW/2021/12/1122

10. **ULR Number** TC622421000001122F

11. Lab code 844/23,844/24,844/25

12. Report Issued Date 15.01.2022

SI. No	Parameters	Protocol	Unit	Result			Standards As per IS:10500:2012	
4				BW-1	BW-2	BW-3	DL	PL
1.	Colour	APHA 23rd Edition-2120 B	Hazen	<1	<1	<1	5	15
2.	рН	APHA 23rd Edition-4500 B		7.08	7.14	7.44	6.5-8.5	NR
3.	Turbidity	APHA 23rd Edition-2130 B	NTU	1.8	2.0	3.2	1	5
4.	Conductivity	APHA 23rd Edition- 2510 B	μmhos/cm	1466	1345	2379		
5.	Total Dissolved Solids	APHA 23rd Edition-2540 C	mg/l	1012	928	1642	500	2000
6.	Total Alkalinity as CaCO ₃	APHA 23rd Edition-2320 B	mg/l	250	232	276	200	600
7.	Total Hardness as CaCO ₃	APHA 23rd Edition-2340 C	mg/l	228	216	248	200	600
8.	Calcium as Ca	APHA 23rd Edition-3500 B	mg/l	83.2	78.4	92.0	75	200
9.	Magnesium as Mg	APHA 23rd Edition-3500 B	mg/l	4.9	4.9	4.4	30	100
10.	Sodium as Na	APHA 23rd Edition-3500 B	mg/l	64.26	64.26	117.81	-	-
11.	Potassium as K	APHA 23rd Edition-3500 B	mg/l	1.47	1.47	4.00		
12.	Iron as Fe	APHA 23rd Edition-3500 B	mg/l	0.21	0.21	0.18	0.3	NR
13.	Chlorides as Cl	APHA 23rd Edition-4500 B	mg/l	183.94	131.96	191.94	250	1000
14.	Sulphates as SO ₄	APHA 23rd Edition-4500 B	mg/l	26.65	53.30	66.62	200	400
15.	Nitrates as NO ₃	APHA 23rd Edition-4500 E	mg/l	5.82	7.12	8.41	45	NR
16.	Fluoride as F	APHA 23rd Edition-4500 D	mg/l	0.18	0.11	0.10	1.0	1.5
17.	Boron as B	APHA 23rd Edition-4500 B	mg/l	0.11	0.12	0.14	1.0	5.0

BW-1: Opposite Main Gate Near Security Office, BW-2: Out Side Plant Near Canal, BW-3: Near AFR Shed

DL: Desirable Limit, PL: Permissible Limit, NR: No Relaxation, BDL: Below Detectable Limit.

INFERENCE

Standards As per IS:10500:2012

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

Analysed by

E Raghunatha Reddy



Authorized Signatory Shivashankaraiah.H.M

Page No.5 of 28

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[Analytical & Environment]
NABL Accredited Laboratory Cert No. TC-6224
Recognized by MoEF

ISO 9001: 2015 ISO 14001:2015 ISO 45001:2018

ANALYSIS REPORT OF GROUND WATER QUALITY

1. Name of the Industry

: M/s J.K Cements works, Muddapur (Unit: J.K. Cement Ltd)

Muddapur village, Mudhol (Tq.), Bagalkot (Dist.)-587122

2. Sample Collected By

SUMS Techno Labs Private Limited, Hosapete

3. Date of Collection

: 29.12.2021

4. Date of Sampling Receipt

: 30.12.2021

5. Date of analysis Started

30.12.2021

6. Sampling Method

APHA 23RD Edition - 1060 B

7. Discipline

Chemical

8. Group

Water

9. Test Report Number

STLPL/JKC/GW/2021/12/1122

10. Report Issued Date

: 15.01.2022

SI. No	Parameters	Protocol	Unit	Result			Standards As per IS:10500:2012	
				BW-1	BW-2	BW-3	DL	PL
18.	Phosphorous as P	IS:3025(Part-31)-1988	mg/l	0.090	0.025	0.020		-
19.	Cadmium as Cd	APHA 23rd Edition -3111 B	mg/l	0.001	0.002	0.001	0.05	
20.	Nickel as Ni	APHA 23rd Edition -3111 B	mg/l	0.015	BDL	BDL	0.02	NR
21.	Zinc as Zn	APHA 23rd Edition - 3111 B	mg/l	BDL	BDL	BDL	5	15
22.	Lead as Pb	APHA 23rd Edition -3111 B	mg/l	BDL	0.002	BDL	0.1	-
23.	Chromium As Cr	APHA 23rd Edition -3111 B	mg/l	0.040	0.042	0.028	0.05	-
24.	Mercury as Hg	APHA 23rd Edition -3112 B		BDL	BDL	BDL	0.01	
25.	Manganese as Mn	APHA 23rd Edition -3111 B	mg/l	0.002	BDL	BDL	0.1	0.5
26.	Copper as Cu	APHA 23rd Edition - 3111	mg/l	0.002	0.002	0.001	0.05	1.5
27.	E Coli Bacteria/100 ml	IS:1622:1981, RA 2009	MPN/100ml	Absent	Absent	Absent	Absent	Absent
28.	Total Coli Form (MPN/100ml)	IS:1622:1981, RA 2009	MPN/100ml	Absent	Absent	Absent	Absent	Absent

Note: BW-Bore well water

BW-1: Opposite Main Gate near security office, BW-2: Out side plant near canal, BW-3: Near AFR Shed

DL: Desirable Limit, PL: Permissible Limit, NR: No Relaxation, BDL: Below Detectable Limit.

INFERENCE

Standards As per IS:10500:2012

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

Analysed by E Raghunatha Reddy HOSPET LA

Authorized Signatory Shivashankaraiah,H.M

Page No.6 of 28

Head Office: 15-DP2, KIADB, Sankalapura Industrial Area, Ballari Road, Hosapete - 583201, Ballari District, Karnataka, Tel/Fax No. 08394-265084, Cell: +91-8884494244/261/250/239,

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ISO 9001: 2015 ISO 14001:2015 ISO 45001:2018

TC-6224

ANALYSIS REPORT OF GROUND WATER QUALITY

1. Name of the Industry

M/s J.K Cements works, Muddapur (Unit: J.K. Cement Ltd) Muddapur village, Mudhol (Tq.), Bagalkot (Dist.)-587122

2. Sample Collected By SUMS Techno Labs Private Limited, Hosapete

3. **Date of Collection** 29.12.2021

4. **Date of Sampling Receipt**

30.12.2021 30.12.2021

5. Date of analysis Started 6. Sampling Method

APHA 23RD Edition - 1060 B

7. Discipline

Chemical Water

8. Group **Test Report Number** 9.

STLPL/JKC/GW/2021/12/1122

10. **ULR Number** 11. Lab code

TC622421000001122F 844/26,844/27,844/28

12. **Report Issued Date**

15.01.2022

SI. No	Parameters	Protocol	Unit	`Result		Standards As per IS:10500:2012	
00000				BW-4	BW-5	DL	PL
1.	Colour	APHA 23rd Edition-2120 B	Hazen	<1	<1	5	15
2.	рН	APHA 23rd Edition-4500 B	-	7.11	7.22	6.5-8.5	NR
3.	Turbidity	APHA 23rd Edition-2130 B	NTU	1.4	1.1	1	5
4.	Conductivity	APHA 23rd Edition- 2510 B	μmhos/cm	2493	1420		
5.	Total Dissolved Solids	APHA 23rd Edition-2540 C	mg/l	1720	980	500	2000
6.	Total Alkalinity as CaCO ₃	APHA 23rd Edition-2320 B	mg/l	256	248	200	600
7.	Total Hardness as CaCO ₃	APHA 23rd Edition-2340 C	mg/l	224	228	200	600
8.	Calcium as Ca	APHA 23rd Edition-3500 B	mg/l	84.8	86.4	75	200
9.	Magnesium as Mg	APHA 23rd Edition-3500 B	mg/l	2.9	2.9	30	100
10.	Sodium as Na	APHA 23rd Edition-3500 B	mg/l	85.68	82.11	_	
11.	Potassium as K	APHA 23rd Edition-3500 B	mg/l	3.34	3.67		
12.	Iron as Fe	APHA 23rd Edition-3500 B	mg/l	0.14	0.13	0.3	NR
13.	Chlorides as Cl	APHA 23rd Edition-4500 B	mg/l	211.93	220.93	250	1000
14.	Sulphates as SO ₄	APHA 23rd Edition-4500 B	mg/l	111.04	99.94	200	400
15.	Nitrates as NO ₃	APHA 23rd Edition-4500 E	mg/l	21.03	16.18	45	NR
16.	Fluoride as F	APHA 23rd Edition-4500 D	mg/l	0.2	0.3	1.0	1.5
17.	Boron as B	APHA 23rd Edition-4500 B	mg/l	0.12	0.11	1.0	5.0

BW-4: Near DG House, BW-5: Out side plant near canal road side

DL: Desirable Limit, PL: Permissible Limit, NR: No Relaxation, BDL: Below Detectable Limit.

INFERENCE

Standards As per IS:10500:2012

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

Analysed by E Raghunatha Reddy



Authorized Signatory Shivashankaraiah.H.M

Page No.7 of 28

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[Analytical & Environment] NABL Accredited Laboratory Cert No. TC-6224 Recognized by MoEF

ISO 9001: 2015 ISO 14001:2015 ISO 45001:2018

ANALYSIS REPORT OF GROUND WATER QUALITY

Name of the Industry 1.

M/s J.K Cements works, Muddapur (Unit: J.K. Cement Ltd)

Muddapur village, Mudhol (Tq.), Bagalkot (Dist.)-587122

2. Sample Collected By

SUMS Techno Labs Private Limited, Hosapete

3. **Date of Collection**

29.12.2021

4. **Date of Sampling Receipt**

30.12.2021

5. Date of analysis Started 6. Sampling Method

30.12.2021

Discipline 7.

APHA 23RD Edition - 1060 B Chemical

8. Group Water

9. **Test Report Number** STLPL/JKC/GW/2021/12/1122

10. **Report Issued Date**

15.01.2022

SI. No	Parameters	Protocol	Unit	`Result		Standards As per IS :10500:2012	
				BW-4	BW-5	DL	PL
18.	Phosphorous as P	IS:3025(Part-31)-1988	mg/l	0.030	0.040	-	-
19.	Cadmium as Cd	APHA 23rd Edition -3111 B	mg/l	0.001	0.002	0.05	-
20.	Nickel as Ni	APHA 23rd Edition -3111 B	mg/l	0.012	0.007	0.02	NR
21.	Zinc as Zn	APHA 23rd Edition - 3111 B	mg/l	BDL	BDL	5	15
22.	Lead as Pb	APHA 23rd Edition -3111 B	mg/l	0.004	BDL	0.1	
23.	Chromium As Cr	APHA 23rd Edition -3111 B	mg/l	0.035	0.031	0.05	-
24.	Mercury as Hg	APHA 23rd Edition -3112 B	mg/l	BDL	BDL	0.01	
25.	Manganese as Mn	APHA 23rd Edition -3111 B	mg/l	0.001	0.001	0.1	0.5
26.	Copper as Cu	APHA 23rd Edition - 3111 B	mg/l	0.0001	0.002	0.05	1.5
27.	E Coli Bacteria/100 ml	IS:1622:1981, RA 2009	MPN/100ml	Absent	Absent	Absent	Absent
28.	Total Coli Form (MPN/100ml)	IS:1622:1981, RA 2009	MPN/100ml	Absent	Absent	Absent	Absent

Note: BW-Bore Well water

BW-4: Near DG House, BW-5: Out side plant near canal road side

DL: Desirable Limit, PL: Permissible Limit, NR: No Relaxation, BDL: Below Detectable Limit.

INFERENCE

Standards As per IS:10500:2012

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

Analysed by E Raghunatha Reddy



Authorized Signatory Shivashankarajah.H.M

Page No.8 of 28

Head Office: 15-DP2, KIADB, Sankalapura Industrial Area, Ballari Road, Hosapete - 583201, Ballari District, Karnataka, Tel/Fax No. 08394-265084, Cell: +91-8884494244/261/250/239,

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No.

ISO 9001: 2015 ISO 14001:2015 ISO 45001:2018

TC-6224

[Environment (Protection) Act, 1986 vide Gazette notification S.No. 2836(E) dt:30.08.2017, validity dt: 08.08.2022]

ANALYSIS REPORT OF SURFACE WATER QUALITY

1. Name of the Industry

: Muddapur Lime Stone of M/s. J.K. Cement Ltd.

Muddapur Village, Mudhol Taluk, Bagalkot District

2. Sample Collected By

SUMS Techno Labs Private Limited, Hosapete. 29.12.2021

3. Date of Collection4. Date of Sampling Receipt

30.12.2021

5. Date of analysis Started

30.12.2021

6. Sampling Method

APHA 23rd Edition - 1060 B

7. Discipline

Chemical

8. Group

Water

9. Test Report Number

STLPL/JKC/SW/2021/12/1124

10. ULR Number

TC622421000001124F

11. Lab code

842/14,842/15

12. Report Issued Date

15.01.2022

Sl.No	Parameters	Parameters Protocol Unit	Unit	Result		Standards As per IS :10500:2012	
				SW-1	SW-2	DL	PL
1.	Colour	APHA 23rd Edition -2120 B	Hazen	<5	<5	5	15
2.	рН	APHA 23rd Edition -4500 B		7.28	7.48	6.5-8.5	NR
3.	Turbidity	APHA 23rd Edition -2130 B	NTU	1.1	3.8	1	5
4.	Conductivity	APHA 23rd Edition- 2510 B	μmhos/cm	1485	1348	-	-
5.	Total Dissolved Solids	APHA 23rd Edition -2540 C	mg/l	1025	930	500	2000
6.	Total Alkalinity as CaCO ₃	APHA 23rd Edition- 2320 B	mg/l	136	206	200	600
7.	Total Hardness as CaCO ₃	APHA 23rd Edition- 2340 C	mg/l	370	368	200	600
8.	Calcium as Ca	APHA 23rd Edition-3500 B	mg/l	71.20	70.40	75	200
9.	Magnesium as Mg	APHA 23rd Edition-3500 B	mg/l	46.66	46.66	30	100
10.	Sodium as Na	APHA 23rd Edition -3500 B	mg/l	107.1	82.11	-	-
11.	Potassium as K	APHA 23rd Edition-3500 B	mg/l	1.07	1.27		-
12.	Iron as Fe	APHA 23rd Edition -3500 B	mg/l	0.1	0.01	0.3	NR
13.	Chlorides as Cl	APHA 23rd Edition -4500 B	mg/l	283.91	157.95	250	1000
14.	Sulphates as SO ₄	APHA 23rd Edition-4500 B	mg/l	83.28	77.73	200	400
15.	Nitrates as NO ₃	APHA 23rd Edition-4500 E	mg/l	9.06	3.88	45	NR
16.	Fluoride as F	APHA 23rd Edition -4500 D	mg/l	0.42	0.58	1.0	1.5
17.	Boron as B	APHA 23rd Edition -4500 B	mg/l	0.1	0.12	1.0	5.0

Note: Surface Water

SW-1: River Water-Ghataprabha, SW-2: Muddapur Mines Pit,

DL: Desirable Limit, PL: Permissible Limit, NR: No Relaxation, BDL: Below Detectable Limit

INFERENCE

Standards As per IS:10500:2012

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

Analysed by E Raghunatha Reddy



Authorized Signatory Shivashankaraiah.H.M

Page No.7 of 8

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[Analytical & Environment Laboratory] Recognized by MoEF

[Environment (Protection) Act, 1986 vide Gazette notification Sl.No. 2836(E) DT: 30.08.2017, validity DT: 08.08.2022]

ISO 9001: 2015 ISO 14001:2015 ISO 45001:2018

ANALYSIS REPORT OF SURFACE WATER QUALITY

1. Name of the Industry Muddapur Lime Stone of M/s. J.K. Cement Ltd.

Muddapur Village, Mudhol Taluk, Bagalkot District

2. Sample Collected By SUMS Techno Labs Private Limited, Hosapete.

3. **Date of Collection** 29.12.2021 Date of Sampling Receipt 4. 30.12.2021 Date of analysis Started 5. 30.12.2021 Discipline 6. Chemical 7. Group Water

8. Sampling Method APHA 23rd Edition - 1060 B 9. **Test Report Number** STLPL/JKC / SW/2021/12/1124

10. Report Issued Date 15.01.2022

Sl. No	Parameters	Protocol	mg/l mg/l	Result		Standards As per IS :10500:2012	
				SW-1	SW-2	DL	PL
1.	Total Suspended Solids	IS:3025(PART 17)-1984	mg/l	1	2	2	-
2.	Dissolved Oxygen	IS: 3025 (PART 38)-1989	mg/l	6.10	6.40		-
3.	Biochemical Oxygen Demand For 3 Days At 2.7° C	IS:3025(PART-17)	mg/l	<1	2.10		
4.	Chemical Oxygen Demand	APHA 23rd Edition -5220 B	mg/l	<1	16		
5.	Phosphate As P	APHA 23rd Edition-4500P	mg/l	0.030	0.030		
6.	Acidity As Caco3	IS: 3025 (PART 25)-1991	mg/l	NIL	NIL	_	12
7.	Oil & Grease	IS: 3025 (PART-39)-1991	mg/l	0.049	0.018	-	-
8.	Nickel As Ni	APHA 23rd Edition -3111 B	mg/l	0.016	0.014	0.02	NR
9.	Manganese as Mn	APHA 23rd Edition -3111 B	mg/l	BDL	BDL	0.1	0.5
10.	Copper as Cu	APHA 23rd Edition - 3111 B	mg/l	0.119	0.128	0.05	1.5
11.	Zinc as Zn	APHA 23rd Edition - 3111 B	mg/l	BDL	BDL	5	15
12.	Lead as Pb	APHA 23rd Edition -3111 B	mg/l	0.008	0.0017	0.1	NR
13.	Silver as ag	APHA 23rd Edition -3111 B	mg/l	BDL	BDL	0.10	NR
14.	Chromium as Cr	APHA 23rd Edition -3111 B	mg/l	BDL	0.020	0.05	NR
15.	E Coli Bacteria/100 ml	IS:1622:1981, RA 2009	MPN/100ml	Absent	Absent	Absent	Absen
16.	Total Coli Form	IS:1622:1981, RA 2009	MPN/100ml	Absent	Absent	Absent	Absent

Note: Surface Water

SW-1: River Water-Ghataprabha, SW-2: Muddapur Mines Pit

DL: Desirable Limit, PL: Permissible Limit, NR: No Relaxation, BDL: Below Detectable Limit.

INFERENCE

Standards As per IS:10500:2012 Report Status: - measured values for all the parameters are within the standards.

Analysed by E Raghunatha Reddy



Authorized Signatory Shivashankaraiah.H.M

Page No.8 of 8

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Bangalore-560072.

Annexure-2

J K CEMENT WORKS, MUDDAPUR

Sl. No	Particulars	Amount
1	Education & Extra-curricular support to students	3444140
2	Health and sanitisation	32260
3	Medical aid / COVID relief / Grocery under Health Care	463500
4	Medical Support	105600
5	Pooja/ Fair/Festival in local village	1060877
6	Promoting Rural sports, Nationally recognized sports	90000
7	Rural Community Development Projects	832466.6
8	Rural development / other support to villagers	487015
9	Rural Infrastructure Development Projects	1063190.1
	Grand Total	7579048.7

Prepared by

Checked by

ANNEXURE - 3

EXPENDITURE ON THE ENVIRONMENTAL MANAGEMENT PLAN FOR PERIOD FROM OCTOBER 2021 TO MARCH 2022

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	997.06
Fly ash Silo's and ash handling systems	61.01
Emission Monitoring equipment (including online emission monitoring equipment (CEMS) at sources and ambient air quality in the vicinity) and laboratory	3.83
Green Belt Development, Sewage Treatment plant and Water Harvesting Schemes for plant	30.73
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	3599.6
Other environmental management costs (AFR system operation, odour control, environmental training/Award, SNCR system CPP, Environmental License Fees)	233.99
TOTAL (Rs in Lakhs)	4926.22

Prepared by Shridhar M Checked by Veerabhadrarao Vetcha