

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

CIN: L17229UP1994PLC017199

🎓 Works : P.O. Muddapur - 587 122 Distt. Bagalkot (Karnataka) India **\(\Circ\)** +91-8350-289607 factory.muddapur@jkcement.com

No. JKCW / ENV./ E.C./ (PLANT) /89 /14

Date- 23-11-2021

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 April-2021 to September-2021 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 your above cited environmental clearance letter of our Cement Plant, we are sending here with enclosed point wise environmental clearance compliance report for the period from April-2021 to September-2021 for our JK Cement Works (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 for your kind information and record please.

Thanking you

Yours faithfully

For J.K. Cement Works

Umasharikai (Unit Head) Umashankar Choudhary

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 expenditure.

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, 7th D 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

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)





J.K. Cement Works, Village- Lokapur, Taluka-Mudhol, District- Bagalkot, Karnataka Ref: - MoEF Letter F. No. J-11011 / 489 / 2006-1A.II (I) / dtd. 14th September 2007 Environmental Clearance Compliance Report for the period from April, 2021 to September, 2021

Name of Project: M/s J.K. Cement Works, Muddapur (Karnataka)

EC to Cement Plant (2.20 MTPA) Clinker & 2.50 MTPA OPC and Captive Power Plant (2 x 25 MW) at Village- Lokapur, Mudhol, District Bagalkot, Karnataka

i. Electrostatic precipitator (ESP) to cooler, Bag House to Raw mill, Bag filter to coal kiln burner and pre calciner shall be provided. On line 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. On line 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 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 m³/day more than 1046.4 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 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

Complied. The fly ash and bottom ash generated from the power plant are being process used in the itself 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

J.K. Cement Works, Village- Lokapur, Taluka-Mudhol, District- Bagalkot, Karnataka Ref: - MoEF Letter F. No. J-11011 / 489 / 2006-1A.II (I) / dtd. 14th September 2007 Environmental Clearance Compliance Report for the period from April, 2021 to September, 2021

	amended in august 2003. STP sludge shall	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 after generation to be utilized as manure for green belt development. We have obtained permission to dispose in-house generated used oil/waste oil in our kiln.
iv.	High calorific hazardous waste shall be utilized in the cement plant.	Complying. We have obtained the permission from KSPCB for co-processing various hazardous wastes and Non-Hazardous wastes vide KSPCB authorization no. 327139 dated 29th September 2021. We are co-processing various hazardous and Non-Hazardous wastes in our kiln after getting approval from KSPCB.
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 a number of plants in and around cement plant and colony. We have covered more than 33% area of total land area from plantation.
Gor	neral Condition:	
i.	I I I - dhara to tho	
ii.	No further Expansion or modification of the plant shall be carried out without prior approval of Ministry or rules made there under.	clearance for expansion of certific

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		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 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.
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 fully covered conveyors for transportation of materials shall be provided besides coal, cement, fly ash 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 materials and fully covered conveyors for transportation of materials have been provided besides coal. Cement, fly ash and clinker are stored in silos.

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	clinker shall be stored in silos.	The second secon
	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.
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.
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.
ix.	The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels 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 (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on al 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).
X.	All recommendations made in the Corporate Responsibilities for Protection (CREP) for cement plants shall be implemented.	the charter on Corporate Responsibility
xi.	Proper housekeeping and adequate occupational health program shall be taken up.	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	Management cell to carry out various

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	control of Sr. Executive.	
		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 and Forest as well as the State Government. The fund so provided shall not be diverted for any other purpose.	pollution control measures, we have invested above earmarked amount. The fund so provided has not been diverted for any other purpose
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.	and monitor data along with statistical
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 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 had been advertised within seven days from the date of issues of clearance letter in two local newspapers that are widely circulated in the region of which one was in the vernacular language of the locality concerned and a copy of the same has been forwarded to the regional office at Bangalore.
6.0	The Ministry or any other competent	We are agreeing.
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	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.	
7.0	The Ministry may revoke or suspend the clearance if implementation of any of the above condition is not satisfactory.	We are agreeing.
8.0	Any other condition or alteration in the above conditions shall to be implemented by the project authorities in a time bound manner.	Complying
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.	

Thanking you,

Yours Faithfully

J.K. Cement Works, Muddapur (Karnataka)

Umashankar Choudhary (Unit Head)

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J K CEMENT WORKS, MUDDAPUR

DETAILS OF CSR ACTIVITY UNDERTAKEN DURING

APRIL'2021 TO SEPTEMBER'2021

CSR Project or activity identified (60-75 words)	Section in which the project is covered	Local Area or other	Specify State and other	Amount Spent	Amount spent:Direct or through implementing Agency
Oxygen Concentrator for CSR	Covid Relief	Mudhol	Karnataka	3,80,000.00	Direct
Bhoomika Trust Chennai Covid Relief Fund	Covid Relief	Other	Tamilnadu	15,00,000.00	Direct
Mass Marriage Community Hall Creation Muddapur	Community Welfare Projects	Muddapur Village	Karnataka	2,00,000.00	Direct
Gram Panchayat Kasaba Jambagi office furniture	Rural development projects	Halki Village	Karnataka	2,66,400.00	Direct
Tower High Mast 20 Mtrs	Rural development projects	Halki Village	Karnataka	2,82,200.00	Direct
		~		26,28,600	•

J.K. Cement WORKS, MUDDAPUR (KARNATAKA) CEMENT PLANT & 2X25 CPP MW

HALF YEARIY AAQM REPORT (SO2, NO2, PM10, PM2.5), FOR THE MONTH OF APRIL-2021 TO SEPTEMBER-2021 (ALL VALUES IN MICROGRAMS / CUBIC METER)

	- 4				so				N	O ₂	WALLEY OF		PM	10			PM	7000	
							-						Locat	ions		- 3	Loca	tions	
nth	Sl.No.	Date	Week		Locati	Andrew State of Concession, Name of Street, or other Desires, Name of Street, or other Desires, Name of Street, Name of Street			Loc	Weigh	Guest			Weigh	Guest	Adm	D-Block	Weigh	Guest
	Jan 101			Adm	D-Block	Weigh Bridge	Guest House	Adm	D-Block	Bridge	House	Adm	D-Block	Bridge	House	37.5	40.3	Bridge 37.5	House 33.3
-	i	3.4.2021		6.2	7.7	9.3	7.3	16.7	17.7	19.2	17.3	50.9	72.3	67.0	75.4	29.2	33.3	25.0	29.2
- 1		6.4.2021	1st	7.5	6.8	8.0	6.8	17.5	16.2	17.7	16.5	61.3	69.7	78.9	62.1	33.3	25.0	29.2	41.7
.	2	10.4.2021		5.7	7.8	7.8	5.7	15.7	18.2	17.0	15.7	51.0	63,4	60.7	56.2 68.3	20.8	29.2	25.0	33.3
A I	3	13.4.2021	2nd	8.2	7.0	8.0	6.2	18.0	16.3	18.0	16.7	58.3	73.4	71.9	75.6	33.3	37.5	33.3	36.7
R	5	17.4.2021		6.8	8.0	7.7	7.5	16.8	18.7	17.7	17.5	75.0	69.1	57.0		41.7	33.3	37.5	29.2
I	6	20.4.2021	3rd	7.7	5.5	6.2	5.7	16.5	16.3	15.8	15.7	66.7	59.6	79.6	86.6	29.2	29.2	33.3	31.7
L		24.4.2021		5.7	6.7	8.2	7.5	15.7	17.7	18.2	18.0	52.2	72.6	93.0	65.5		41.7	29.2	32.9
L	7		4th	6.7	8.2	6.3	6.7	17.8	18.0	16.7	17.8	57.5	78.9	76.5	59.5	33.3	37.5	50.0	28.3
	8	27.4.2021		9.0	7.5	8.3	7.0	21.0	19.0	19.0	15.0	50.6	69.3	56.1	72.8	29.2	12.5	20.8	18.3
	9	30.4.2021 4.5.2021	200	7.8	8.2	7.8	7.0	16.2	17.3	17.3	17.8	56.7	61.4	39.0	22.7	12.5	25.0	23.3	25.0
	2	8.5.2021	1st	8.8	9.0	8.3	7.5	17.3	18.0	18.0	17.5	49.5	56.3	21.9	38.0	16.7	29.2	12.5	20.8
	3	11.5.2021		6.8	7.5	7.2	6.5	18.0	17.7	17.0	17.3	61.7	44.9	46.3	28.0	20.8	25.0	29.2	25.0
M	4	15.5.2021	2nd	8.2	8.0	8.0	8.3	17.0	17.2	18.0	18.0	63.9	48.1	35.6	45.9	12.5	33.3	25.0	20,8
A	5	18.5.2021	3rd	7.5	8.2	6.5	6.7	17.2	18.0	17.8	20.0	45.1	34.7	25.6	31.3	16.7	25.0	12.5	29.2
Y	6	22.5.2021	310	6.8	7.2	8.2	9.8	18.0	17.0	18.0	19.5	33.5	27.7	42.6	28.3	12.5	16.7	20.8	27.5
	7	25.5.2021	4th	8.3	8.8	8.3	10.0	17.0	_	18.2	18.3	48.3	38.0	29.9	25.0	8.3	20.8	12.5	12.5
	8	29.5.2021	411	7.8	7.0	7.0	8.3	17.8	_	16.0	17.2	40.3	46.5	39.5	46.5	16.7	20.8	29.2	20.8
	1	2.6.2021	1st	6.2	5.8	6.3	8.0	17.5		17.3	18.0	27.8	52.1	37.7	52.8	12.5	29.2	27.9	19.2
	2	5.6.2021	130	7.5	6.7	7.7	9.0	15.7		18.2	19.0	13.5	40.3	36.4	57.9	20.8	33.3	25.0	16.1
1	3	9.6.2021	2nd	5.7	5.8	6.8	7.5	14.8		17.0	17.2	19.1	37.7	43.0	59.5	12.5	31.3	20.8	20.8
U	4	12.6.2021		4.8	4.8	7.7	8.3	16.8		18.7	19.2	18.5	40.0	40.3	47.7	20.8	16.7	20.8	25.0
N	5	16.6.2021	3rd	6.8	3.7	8.0	8.0	14.0	_	17.8	18.8	33.9	44.3	45.6	42.1	16.7	20.8	33.3	20.1
E	6	19.6.2021	-	4.8 5.8	4.3	6.7	9.2	15.8		17.7	19.0	65.7	46.5	38.9	49.8		33.3		29.3
Lor	7	23.6.2021	4th	3.8	5.8	8.0	6.8	14.3	16.2	18.0	17.8	42.5	40.7	42.7	38.3 45.2		24.2	-	20.
	8	26.6.2021 30.6.2021		5.7	6.2	7.7	6.8	15.		17.8	16.8	46.8	57.1	36.6	38.9		32.5		16.
	9	3.7.2021		8.3	8.0	7.8	8.0	15.1			18.0	29.6	48.6 34.6	39.7	37.8				20.
	2	7.7.2021	lst	7.8	7.3	8.0	7.8	17.		18.0	17.7	49.9		38.1	40.3				24.
	3	10.7.2021	1	8.0	8.0	9.2	8.0	17.	_		18.0	23.1	42.1	24.2	_				20.
J	4	14.7.2021	2nd	8.7	7.5	8.0	8.2	18.			18.2	37.0		25.8	35.7	_		14.6	
U	5	17.7.2021		8.5	6.3	7.3	7.8	18.				49.3	57.5	26.9	_		28.5		
L	6	21.7.2021	Jid	7.8	7.8	8.0	6.7	17.				66.4	76.2	41.6	36.0		_	_	_
Y	7	24.7.2021		8.0	8.0	6.7	7.8	17.	_			74.2		68.0		_			
	8	28.7.2021		7.5	8.0	7.0	7.0	19.				54.0	78.2	56.8		_	_	_	
	9	31.7.2021		7.5	7.0	8.0	7.0	18			17.5	48.6	55.0	45.9					
	1	4.8.2021	1st	8.0	8.0	7.7	8.0		_		18.0	70.6		47.8				-	_
Α	2	7.8.2021		9.7	9.0	8.0	_	_		18.0				90.2	-				_
U	3	11.8.202		8.0	6.8	9.0	_				_			78.0					_
G	4	14.8.202	1	6.7	8.0	7.7						_		_	_	_		-	_
U	6	18.8.202		8.2	9.0	8.8	_	18							_			-	
S	7	25.8.202		8.5	7.8	9.0								_		_			
T	8	28.8.202			8.3	8.3		_		-			_	_			-		5 20
	9	31.8.202		7.0	8.0	9.3					_			-	_	_		5 8.3	25
100	1	3.9.2021	1	8.0	7.0	8.0							735			-		3 6.7	20
S	2	_	181	7.8	6.3	6.7	7.5	_	_		_	200		-	_		200	2 9.2	2
E	3		1	6.7	8.0	7.5	6.	7 16	.7 18.	_			_	-	7			-	-
P			2nc	8.0	7.3	8.0	8.0	0 1	7.8 17.	3 17.	8 18.	77.			-				-
T	R 4	-		17552	-	-	-	7 1	7.7 17.	8 18.	2 16.	7 81.	5 87.	4 81	0 68	.9 22	-		
E	5	17.9.202	21 3rd	7.0		-	-	-			-	5 48	7 69.	1 82	5 57	.1 20	.8 20	101	
M	6	21.9.202		6.2		_		1100	5.8 16				10 33.337	-	1 61	.3 18	.3 18	.3 12	
В	7		21	8.0		_		_	8.0 17	-	-				-	_	.3 33	.3 17	
E	8		411	9.0		_			9.0 17		_	-			-	-	3 12	.5 6.	7 1
_		Miniumum	-	3.8	3.7	6.		_	4.0 14			-	-	-	**	-		25	.0 4
_		Maximum		9.7	9.0	9.	3 10	.0 2	1.0 19	_		_		-	_		.0 28	-	_
		Average		7.	_		8 7.	7 1	7.3 17	4 17	.8 17	8 55	.0 62	1 49	.5 45	.0 21	.0 20		-

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

	IIIIAI	W:	Avg	c	7	S	4	4	ی	,	2	,	-				SI. No. M			
Max	П		00	Sep-21	20 21	Aug-21	17-Inc	1.1.21	Jun-21		May-21	1.7 vdv.	Anr-21				Month/Year	_		
31.7	13.6	1	22.4	19.9	10.6	787	31.7		21.0		199	13.0	126	mg/Nm3	TI TAT TO	SPM in	11	7		
218.0	68.0	1.00.4	1362	218.0	1/0.0	178 0	140.0		68.0	20.0	0.80	0.011	1150	mg/Nm3	302 III	: 003	I hermal Power Plant	-		
99.0	32.0	7.10	613	40.0	0.00	50.0	68.0	0.10	320	/0.0	79 0	99.0	200	mg/Nm3	NOX III		Plant			
173	64	10.3	100	10.8	0.4		11.5	7.0	0 0	10./	107	12.3		mg/Nm3	SPM in					,
0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	00	0.0		0.0	0	mo/Nm3	SO2 in		Kiln / Raw Mill			
707.0	0 101	621.8	707.0	707.0	490.0	101.0	4840	620.0		648.0		782.0	Curvi Sur	ma/Nm3	NOx in			Stack locations		d married
0.1	12:0	12.0	0.1	6.1	12.3	11.32	11 33	18.9		10.5		12.7	Dag Filler	Dag Eile	Coal Mill			S		The branch
6.0	1.0	75	0.0	10	6.0	0.42	C 4.2	12.4		6.3		71		Cooler						707-IIIdw 10
6.8	0.4	0 /	8.6	20.0	10.6	9.0		8.0		6.8	1.0	7.5		LSC		orm in mg/Nm3	This is		ij	. Piant tot April-2021 to September-2021
8.7	10.1	10.1	9.7	10.0	10.6	11.3		11.21	0.,	8.7	7.3	0.3		CM-1		n3				er-2021
5.9	10.4		12.8	9.1	0.7	5.9		10.99	10.7	10.9	12.0	100	2110	CMD						

				6	, ,	7	4		u	1	2	1	_			SI. No.		
	Max	Min	A		-			+								_	ni.	
	ax	in	Avg	Sep-21	17 Snr.	Δ110-21	Jul-21		Jun-21	iniuj 21	May-21	77-1dv	A pr 21			Month/Year		
10.7	16.4	9.0	13.0	13.0	9.0	000	16.4	1.1.4	117	13.4	12 /	13.2	150	Slag mill				
10.7	167	10.1	12.9	12.8	1.01	101	12.2	10.4	15.4	10.3	100	16.7		Coal crusher				
13.0	150	8 8	11 2	15.56	11.31		11.21	11.32	11 22	8.82		8.92	1-041		Packing plant			
13.9	7.5	0.2	11 6	11.75	10.01	10.75	13 93	13.06	13.00	11.86		9.25	Prant INO-7		t Packing			
14.0	0.4	0.4	11 0	8 38	12.73	12.04	12 04	10.01		12.63		14.04	piant No-3	I acking	Dacking	S		
11.7	7.0	7.5	0.20	10.26	8.95	11./2	11 70	7.64		9.72		8.74	plant No-4	Packing	D. Al.	SPM in mg/Nm3	STACK TOCATIONS	that land
14.6	8.0	12.1	10.1	10.1	13.1	14.6		12.7		8.0	****	141	System	KM1	1	S		
15.6	8.8	13.0	13.6	157	12.1	13.9				13.4	7.4.1	CVI	Transport	Clinker				
11.8	8.7	10.7	10.8	. 11.0	11.8	11.0	10:0	103	0.7	8 7	0.11	1116	Storage	Clinker				
11.3	8.7	10.1	9.7	0.01	10.6	11.32	17.11	11 21	0.7	8 7	9.3	2	CIM Seb-1	CMC				
12.8	5.9	10.4	12.8	9.7	01	5.9	11.0	110	10.9	100	12.0		CM Sep-2					





J.K. Cement WORKS, MUDDAPUR (KARNATAKA)

(Unit : J.K. Cement Limited)

Half Yearly Fugitive Emission Monitoring Report of Cement plant for the month of April-2021 to September-2021

					SPM (SPM (microgram/m ³)			
SL. NO.	MONTH/YEAR	Gypsum Yard	Slag Yard	Flyash Yard	Cement mill	Lime stone unloading hopper	Lime stone crushing Site	Coal Yard	Packing Plant
_	Apr-21	564.6	497.5	517.8	495.3	513.4	439.8	1078.8	524.8
2	May-20	573.8	512.0	465.8	560.5	400.0	547.2	562.8	514.4
w	Jun-20	551.6	448.4	449.3	337.2	394.7	578.4	496.8	503.5
4	Jul-20	504.7	453.0	458.8	423.4	353.6	552.9	518.2	544.8
5	Aug-20	582.3	802.6	588.9	562.3	562.5	560.8	577.5	568.6
6	Sep-20	661.5	701.4	746.1	815.3	498.8	594.1	625.0	721.2
	Minimum	504.69	448.36	449.31	337.21	353.63	439.76	496.79	503.54
	Maximum	661.46	802.60	746.08	815.35	562.50	594.10	1078.82	721.18
	Average	573.07	569.14	537.79	532.35	453.85	545.54	643.19	562.89

van Patil Monitored by

Shridhar Checked by

J.K. Cement WORKS, MUDDAPUR (KARNATAKA)

(Unit: J.K. Cement Ltd.)

EFFLUENT WATER ANALYSIS REPORT (Monthly Average) FOR THE MONTH OF APRIL-2021 TO SEPTEMBER-2021

Constituents	Suspended Solids (mg/L) Temperature (°C) max	Temperature (°C) max	pH value	Oils and Grease (mg/L)
Permissible limit	100	Unobjectionable	5.5 to 9	10
Apr-21	49.3	0.39	8.27	Nii
May-21	52.8	0.40	8.18	Nil
Jun-21	53.9	0.40	8.22	Nil
Jul-21	51.9	0.44	8.26	Nii
Aug-21	53.4	0.42	8.26	Nil
Sep-21	38.9	0.39	8.17	Nii
Half Avg	50.0	0.41	8.23	Nil
Half Minimum	38.9	0.39	8.17	Nil
Half Maximum	53.9	0.44	8.27	Nil



Shridhar Checked by

J.K. Cement WORKS, MUDDAPUR (KARNATAKA)

(Unit: J.K. Cement Ltd.)

STP water Analysis Report (Monthly Average) for the Month of April-2021 to September-2021

SI.No.	Month	Suspended Solids	РН	BOD	COD	NH4-N	N-total	Fecal Coliform
Tole	Tolerance limit	10	6 to 9	10	50	5	10	<230
1	Apr-21	8.0	7.6	7.2	23.8	3.5	7.2	N:I
2	May-21	7.9	7.5	7.1	22.7	4.0	7.4	Nii
3	Jun-21	7.9	7.4	6.9	23.8	3.6	7.0	Nil
4	Jul-21	7.8	7.2	6.4	22.9	3.7	7.2	Nil.
5	Aug-21	8.0	7.6	7.3	26.0	4.1	7.4	Nil
6	Sep-21	8.0	7.6	7.3	25.6	3.6	7.4	Nii
Half	Half Yearly Min.	7.78	7.24	6.37	22.72	3.49	7.02	N:I
Half	Half Yearly Max.	8.00	7.61	7.33	26.00	4.05	7.43	Nil
Half	Half Yearly Avg.	7.92	7.50	7.04	24.13	3.74	7.28	Nil

Shridhar Checked by

Monitored by



Half Yearly Noise monitoring report of Cement & Power Plant for the month of April-2021 to September-2021

30	30	29		28	27	26	25	24	23	. 22	21	20	19	18	17	16	15	14	13	12	11	10	9	00	7	6	S	4	3	2	1	No.	2
Truck Loading points	Transfer I coding moint 7	Truck Loading point- 2	Truck Loading point- 1	Cement silo Packer-4	Cement silo Packer-3	Cement silo Packer-2	Cement silo Packer-1	CM-2 weigh feeder	CM-1 weigh feeder	Near silo clinker loading point	coal mill	Raw mill proporting hopper	DG House (2-meter distance)	DG House (1-meter distance)	General Store	Packing Plant	Dispensary	Plant main gate	Near Canteen	Gypsum yard	Slag yard	Coal Yard	Near QC Lab.	Despatch gate	Power Plant	Kiln Platform	Kiln/ Cooler	Lime Stone Crusher	Lime Stone gate	Administrative Building	Boundary side	Location Name	
0.00	0 3 3	66.7	63.4	60.6	61.7	64.3	68.5	65.3	60.6	66.8	70.3	72.8	74.3	76.5	54.6	60.7	49.6	55.8	52.8	60.5	51.8	55.4	46.3	52.8	64.3	72.5	68.5	64.6	55.2	45.6	47.5	Day (dB) Leq	Ap
-	58.8	58.5	51.6	54.8	54.5	56.3	52.5	55.8	54.3	56.2	63.4	65.6	1	1	47.3	50.4	37.5	45.3	41.5	48.2	44.8	46.6	37.4	40.5	50.2	63.5	57.4	55.8	46.5	34.5	36.8	Night (dB) Leq	Apr-21
	63.4	61.7	59.6	57.5	65.6	62.5	61.3	65.8	68.2	61.5	58.9	66.7	72.2	74.5	58	55.8	42.5	48.7	45.2	54.6	50.8	59.5	45.6	50.4	68.5	65.7	56.3	50.4	53.7	42.5	45.5	(dB) Leq	Ma
	52.8	51.6	48.6	42.7	53.4	51.1	50.4	52.2	55.6	50.8	46.5	42.8	ı	1	46.5	44.2	31.8	34.6	30.5	42.8	35.5	40.6	35.5	40.8	55.7	54.6	42.8	36.4	35.6	30.2	32.6	Night (dB) Leq	May-21
60.7	68.8	66.7	62.5	60.4	66.8	64.6	60.4	63.6	65.5	67.3	70.8	73.2	74.2	75.5	53.6	58.7	50.8	60.8	54.5	58.7	50.4	58.3	47.5	52.8	62.4	71.5	66.7	64.3	53.8	44.7	47.8	Day (dB) Leq	Ju
52.7	56.4	55.5	51.7	50.7	52.4	55.7	50.6	56.8	52.7	56.8	61.5	64.3	1	ı	46.8	49.6	38.4	50.6	44.6	49.7	45.5	49.7	36.4	41.6	51.7	62.8	58.7	57.5	47.4	34.7	38.6	Night (dB) Leq	Jun-21
57.5	63.2	65.4	53.7	65.5	65.7	64.5	62.5	68.8	63.7	57.4	60.4	76.5	76	78	50	55.8	46.5	50.6	47.6	58.4	52.7	58.2	48.5	58.9	64.6	74.5	62.6	65.9	52.8	45.7	48.5	Day (dB) Leq	Ju
45.7	48.5	50.2	48.7	46.8	47.5	53.7	50.3	56.8	53.2	48.5	51.6	65.4	ì	1	38.6	42.5	36.7	42.8	35.7	38.6	37.6	45.3	39.7	45.6	55.9	63.7	55.8	58.2	45.6	30.8	35.6	Night (dB) Leq	Jul-21
61.5	65.3	63.8	60.6	58.8	66.5	58.8	61.6	60.3	62.8	64.8	68.9	70.3	73.6	75.8	55.8	60.2	50.5	54.7	53.6	61.8	52.6	56.5	46.8	53.6	61.4	70.5	58.7	52.6	50.7	48.2	46.8	Day (dB) Leq	Αu
50.6	54.8	52.7	50.7	48.9	55.8	49.6	51.8	51.7	50.8	52.4	58.5	63.8	ı	1	48.8	50.6	38.8	44.6	42.8	50.5	45.8	47.5	39.4	41.8	50.8	60.8	45.6	40.5	38.7	32.8	35.5	Night (dB) Leq	Aug-21
65.2	67.6	66.7	62.8	60.7	64.8	65.2	59.8	62.8	64.5	65.5	70.6	72.8	74.5	76.8	55.2	61.5	47.5	54.7	50.8	61.6	50.4	56.8	47.5	54.6	63.8	74.5	63.8	64.6	55.3	44.8	47.5	Day (dB) Leq	Se
56.8	58.5	55.9	50.8	55.9	56.8	57.6	47.9	54.7	52.8	56.8	62.3	64.7	ı	ī	47.6	51.7	36.9	46.8	44.8	45.5	48.7	47.3	36.2	42.8	52.5	65.4	55.6	56 7	45.6	35.5	37.8	Night (dB) Leq	Sep-21
57.5	63.2	61.7	53.7	57.5	61.7	58.8	59.8	60.3	60.6	57.4	58.9	66.7	72.2	74.5	50	55.8	42.5	48.7	45.2	54.6	50.4	55.4	45.6	50.4	61.4	65.7	56.3	50.4	50.7	42.5	45.5	Day (dB) Leq	Mir
45.7	48.5	50.2	48.6	42.7	47.5	49.6	47.9	51.7	50.8	48.5	46.5	42.8	ľ	i	38.6	42.5	31.8	34.6	30.5	38.6	35.5	40.6	35.5	40.5	50.2	54.6	42.8	36.4	35.6	30.2	32.6	Night (dB) Leq	Minimum
66.3	68.8	66.7	63.4	65.5	66.8	65.2	68.5	68.8	68.2	67.3	70.8	76.5	76	78	58	61.5	50.8	60.8	54.5	61.8	52.7	59.5	48.5	58.9	68.5	74.5	68.5	659	55.3	48.2	48.5	Day (dB) Leq	Max
56.8	58.8	58.5	51.7	55.9	56.8	57.6	52.5	56.8	55.6	56.8	63.4	65.6	Ľ.	jų.	48.00	51.7	38.8	50.6	44.8	50.5	48.7	49.7	39.7	45.6	55.9	65.4	58.7	58.2	47.4	35.5	38.6	Night (dB) Leq	Maximum
62.0	65.7	65.2	60.4	60.6	65.2	63.3	62.4	64.4	64.2	63.9	66.7	72.1	74.1	76.2	54.5	58.8	47.9	54.2	50.8	59.3	51.5	57.5	47.0	53.9	64.2	71.5	62.8	60.4	53.6	45.3	47.3	Day (dB) Leq	Av
52.2	55.0	54.1	50.4	50.0	53.4	54.0	50.6	54.7	53.2	53.6	57.3	61.1	I.	i.	45.9	48.2	36.7	44.1	40.0	45.9	43.0	46.2	37.4	42.2	52.8	618	52.	500	43	33	36.) Nigh	Average





Station: CEMS Periodically: April 2021 - September 2021 Type: AVG Monthly [1 Hr.]

Date & Time	stack19_raw_millkiln-PM_U	stack19_raw_millkiln-SO2_U	stack19_raw_millkiln-NOx_U	stack_4_CPP_2into25mw-PM_U	stack 4 CPP 2into25mw-SO2 U	stack 4 CPP 2into25mw-NOx I
Apr-21	12.69	5.04	577.7		150.81	112 51
May-21	10.88	0	514.46	15.19	119 79	77 1
1 71	07.3	2			117.17	11.1
Jun-21	5.68	0.01	256.95	19.17	47.98	19.08
Jul-21	7.01	0	325.26	13.56	170 \$9	40 79
Aug-21	5.48	0.85	437.64	19 64	25 951	43.63
0 01					100.02	43.02
Sep-21	7.45	3.45	395.54	18.85	126.97	15.37
Minimum	5 48	0	50 750	73.61		
	10.00		230.33	13.30	47.98	15.37
Maximum	12.69	5.04	577.7	19.64	170.59	112 \$1
Augroca	0.70	1.0.1				1 1 2 1 2 1
Average	8.20	1.36	417.93	16.74	125.41	51.41

Date & Time	stack13_CEMENT_MILL_3-PM_U	stack15_clicker_cooler-PM_U	stack1_COALMILL-PM_U	Stack_11_Cement_mill_1-PM_U	Stack 12 Cementmill 2-P
Apr-21	11.24	5.4	11.4	3.04	7.87
May-21	10.61	5.66	12.45	2.12	2.83
1 21	7 10				1,00
Jun-21	5.43	5.59	16.25	5.17	6.02
Jul-21	5.62	4.7	8.32	3.97	5 96
Aug-21	5.66	3.55	10.07	4.31	4 57
Sep-21	9.67	2.2	3.45	196	\$ 01
1.7.				*****	10.01
Mınımum	5.43	2.2	3.45	1.96	2.83
Maximum	11.24	5.66	16.25	5.17	7 87
Average	8.04	4.52	10.32	3.43	5 38

Station: AAQMS1 Periodically: April 2021 - September 2021 Type: AVG Monthly [1 Hr.]

	_	_	_	_	_	_	_	_	_	
Average	Maximum	Minimum	Sep-21	Aug-21	Jul-21	Jun-21	May-21	Apr-21	2	Date & Time
61.49	82	36.14	69.23	62.46	45.67	36.14	73.43	82.00	µg/m3	PM10
25.25	52	18.69	19.45	18.7	18.97	21.3	21.07	52.00	μg/m3	PM2.5
6.41	12.9	0.63	1.08	0.63	10.68	12.04	1.12	12.90	μg/m3	SO2
2.30	3.46	0.34	2.77	2.79	1.19	0.34	3.26	3.46	μg/m3	NO2
4.10	12.19	1.35	1.35	1.37	3.16	3.26	12.19	3.25	μg/m3	СО

Station: AAQMS2 Periodically: April 2021 - September 2021 Type: AVG Monthly [1 Hr.]

Average	Maximum	Minimum	Sep-21	Aug-21	Jul-21	Jun-21	May-21	Apr-21	Date of THIS	Data & Time
41.98	60.12	24.06	24.06	60.12	30.4	44.52	50.81	Nodata	μg/m3	PM10
16.11	36	6.73	6.73	12.2	7.59	11.7	22.43	36.00	μg/m3	PM2.5
6.14	9.25	0.38	0.38	6.24	8.70	9.25	NA	Nodata	μg/m3	SO2
11.52	18.43	2.56	2.56	10.67	18.43	Nodata	10.95	15.00	μg/m3	NO2
1.06	2	0.02	0.02	0.32	1.48	Nodata	1.50	2.00	μg/m3	СО

EXPENDITURE ON THE ENVIRONMENTAL MANAGEMENT PLAN FOR PERIOD FROM APRIL 2021 TO SEPTEMBER 2021

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	791.99
Fly ash Silo's and ash handling systems	96.05
Emission Monitoring equipment (including online emission monitoring equipment (CEMS) at sources and ambient air quality in the vicinity) and laboratory	6.21
Green Belt Development, Sewage Treatment plant and Water Harvesting Schemes for plant	20.6
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	4260.66
Other environmental management costs (AFR system operation, odour control, environmental training/Award, SNCR system CPP, Environmental License Fees)	31.8
TOTAL (Rs in Lakhs)	5207.31