



JK Cement WORKS

MUDDAPUR

(Unit : J.K. Cement Ltd)
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Works : P.O. Muddapur - 587 122
Dist. Bagalkot (Karnataka) India

No. JKCW / ENV. /E.C. / (PLANT)/89/13

Date- 18-05-2021

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 October-2020 to March-2021 for Change in product mix to manufacture cement based adhesive without increasing the production capacity for JK Cement Works, Village- Muddapur, Taluka- Mudhol, District- Bagalkot (Karnataka)

Ref: MoEF letter no. J-11011/263/2009-IA II (I) dated 26-09-2012

Dear Sir,

With reference to your above cited environmental clearance letter for Change in product mix to manufacture cement based adhesive without increasing the production capacity for JK Cement Works, Village- Muddapur, Taluka- Mudhol, District- Bagalkot (Karnataka), we are sending here with enclosed point wise EC compliance report for the period from **October-2020 to March-2021** for your kind information and record please.

Thanking you

Yours faithfully
For J.K. Cement Works

Umashankar Choudhary
(Unit Head)

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

CC:

- 1- The Addl. Principal Chief Conservator of Forest (C), Ministry of Environment & Forest, Regional Office (South Zone), Koramangala, Bangalore
- 2- Chairman, Central Pollution Control Board, Parivesh Bhavan, East Arjun Nagar, New Delhi
- 3- Scientist 'D' & Incharge, Central Pollution Control Board, Nisarga Bhavan, Bengaluru
- 4- Member Secretary, Karnataka Pollution Control Board, Church Street, Bangalore
- 5- The Environmental officer, Karnataka State Pollution Control Board, Bagalkot – 587102



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J.K. Cement Works, Village- Lokapur, Taluka-Mudhol, District- Bagalkot, Karnataka
Ref: - MoEF Letter F. No. J-11011/263/2009-IA II (I) dated 26-09-2012
Environmental Clearance Compliance Report for the period from October, 2020 to March, 2021

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

EC to expansion of Cement Grinding Unit (2.50 MTPA to 3.5 MTPA) at Village Muddapur, Taluka-Mudhol, District Bagalkot, Karnataka by M/s Jaykaycem Limited. Reg Change in product mix to manufacture cement based adhesive without increasing the production capacity.

Conditions are following.

S.N.	Conditions	Reply
i.	The overall capacity of the plant shall remain 3.5 MTPA.	Agreed and complying.
ii.	There shall be no increase in the water consumption and land requirement.	Agreed, we are not consuming more than permitted water consumption and land requirement has not been increased.
iii.	The company shall comply with all the conditions stipulated vide Ministry's letter of even number dated 21 st June, 2010.	Complying. We are complying with all the conditions stipulated vide Ministry's letter of even number dated 21 st June, 2010. A half yearly report is being sent to regulatory authority.
iv.	In case of change in the scope of the project, fresh proposal for environmental clearance shall be submitted to the Ministry.	Noted and agreed.

Subject- Stipulation of additional conditions in respect of Mega projects already granted environmental clearance

Reference- MoEF office memorandum dated 06 April 2011

i	Continuous monitoring of stack emissions as well as ambient air quality (as per notified standards) shall be carried out and continuous records maintained. Based on the monitored data, necessary corrective measures as may be required from time to time shall be taken to ensure that the levels are within permissible limits. The results of monitoring shall also be submitted to the respective Regional Office of MoEF regularly. Besides, the results of monitoring will also put on the website of the company in the public domain.	Complied. Continuous monitoring systems for main stacks emissions and ambient air have been installed and continuous records maintained. All the monitored data are well within the standard. We are submitting monthly report to Regional Office of MoEF and Regional office of KSPCB. Online data is uploading at CPCB website also and monitoring reports along with compliance report are uploaded at website of the company.
ii	The six monthly monitoring report as well as the monitored data on various parameters as stipulated in the	Complied. The six monthly monitoring report as well as the monitored data on various parameters as stipulated in the

J.K. Cement Works, Village- Lokapur, Taluka-Mudhol, District- Bagalkot, Karnataka

Ref: - MoEF Letter F. No. J-11011/263/2009-IA II (I) dated 26-09-2012

Environmental Clearance Compliance Report for the period from October, 2020 to March, 2021

	environmental clearance conditions shall be put on the website of the company and also regularly updated. The monitored data shall also be submitted to respective State Pollution Control Board/UTPCCs and the Regional Office of MoEF.	environmental clearance conditions is put on the website of the company and also regularly updated. The monitored data is also submitted to respective State Pollution Control Board/UTPCCs and the Regional Office of MoEF.
ii i	The ambient air quality data as well as the stack emission data will also be displayed in public domain at some prominent place near the main gate of the company and updated in real time.	Complied. The ambient air quality data as well as the stack emission data is displayed in public domain near the main gate of the company and updated in real time

Thanking you,

Yours Faithfully
J.K. Cement Works, Muddapur (Karnataka)


Umashankar Choudhary
(Unit Head)

J K CEMENT WORKS, MUDDAPUR

DETAILS OF CSR ACTIVITY UNDERTAKEN DURING

APRIL'20 TO MARCH'21

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
Distribution of Vegetable & food Packet to near by area (COVID 19)	Rural development projects	Muddapur Village	Karnataka	304,950	Direct
MEDICAL HELP TO KALAMMA BADIGER LOKAPUR MISC	Health & Medical	Lokapur	Karnataka	18,000	Direct
MASS MARRIAGE COMMUNITY HALL CREATION MUDDAPUR	Community Welfare Projects	Muddapur	Karnataka	200,000	Direct
				522,950	

J.K. Cement WORKS, MUDDAPUR (KARNATAKA)

CEMENT PLANT & 2X25 CPP MW

HALF YEARLY AAQM REPORT (SO₂, NO₂, PM₁₀, PM_{2.5}), FOR THE MONTH OF OCTOBER-2020 TO MARCH-2021

(ALL VALUES IN MICROGRAMS / CUBIC METER)

Month	SLNo.	Date	Week	SO ₂				NO ₂				PM ₁₀				PM _{2.5}			
				Locations				Locations				Locations				Locations			
				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
OCTOBER	1	01.10.2020	1st	7.3	6.7	7.3	6.7	17.3	17.3	17.5	16.8	40.7	29.7	67.6	30.1	12.5	12.5	12.5	8.3
	2	05.10.2020		6.7	7.5	8.0	8.0	16.3	17.5	18.0	18.0	53.1	23.2	46.7	42.1	8.3	20.8	16.7	12.5
	3	08.10.2020		8.0	8.0	6.5	6.7	18.0	18.0	16.7	16.7	37.8	48.2	61.6	48.4	12.5	16.7	4.2	16.7
	4	12.10.2020	2nd	7.5	7.7	6.8	8.0	17.7	17.7	17.0	17.7	31.2	50.0	30.8	32.2	16.7	20.8	16.7	8.3
	5	16.10.2020		8.0	7.8	7.8	7.7	18.5	18.3	18.0	17.7	48.3	60.4	41.7	48.5	12.5	25.0	12.5	12.5
	6	19.10.2020	3rd	7.8	8.0	8.0	8.2	17.8	18.0	18.0	16.7	47.8	56.2	48.1	41.1	20.8	25.0	29.2	20.8
	7	23.10.2020		7.3	8.0	8.0	8.0	17.3	18.7	18.0	18.8	65.8	73.7	77.1	63.8	33.3	37.5	37.5	33.3
	8	27.10.2020	4th	6.7	7.5	6.5	7.7	16.5	17.5	17.3	17.7	76.2	88.5	84.2	64.4	29.2	41.7	33.3	29.2
	9	30.10.2020		8.8	8.5	7.7	6.5	20.0	18.5	17.7	16.5	68.9	75.9	66.3	78.9	33.3	45.8	29.2	33.3
NOVEMBER	1	03.11.2020	1st	7.2	7.7	6.7	7.0	16.7	17.7	16.7	17.8	69.2	73.8	67.8	61.6	25.0	37.5	25.0	29.2
	2	06.11.2020		6.7	7.5	7.7	8.0	17.3	16.5	17.7	17.8	83.3	88.1	76.0	66.0	29.2	29.2	29.2	33.3
	3	10.11.2020	2nd	7.7	8.3	8.0	7.5	16.5	18.3	18.0	16.7	88.7	94.4	90.8	81.9	33.3	25.0	33.3	25.0
	4	13.11.2020		8.0	7.8	7.2	8.0	18.0	17.7	17.7	18.0	64.1	73.5	55.1	40.6	25.0	31.7	25.0	37.5
	5	17.11.2020	3rd	6.7	6.7	6.7	7.2	16.7	16.7	17.3	17.7	71.9	88.9	60.4	66.6	20.8	28.3	37.5	25.0
	6	20.11.2020		6.7	8.0	8.0	6.8	15.7	18.0	18.0	16.8	73.3	81.5	80.0	72.2	16.7	22.9	25.0	20.8
	7	24.11.2020	4th	8.0	7.7	6.7	8.0	18.0	17.7	16.7	18.0	75.1	86.3	71.1	64.1	22.9	29.2	31.3	29.2
	8	27.11.2020		6.7	6.7	8.0	7.7	16.5	17.0	18.0	17.7	68.2	74.4	81.7	70.4	26.7	37.5	35.8	33.3
	9	30.11.2020	1st	7.7	8.0	8.0	7.7	17.7	18.0	18.0	17.7	81.6	81.6	75.4	68.0	33.3	37.5	38.4	33.3
DECEMBER	1	04.12.2020		8.0	7.7	6.7	8.0	18.0	18.5	16.7	18.0	89.8	89.8	81.6	83.7	41.7	50.0	35.1	37.5
	2	08.12.2020	2nd	7.7	8.0	8.3	7.7	17.8	19.8	18.3	17.8	55.3	55.3	90.0	74.4	37.5	41.7	31.8	34.4
	3	12.12.2020		9.0	8.3	7.3	9.0	19.2	20.2	17.7	19.2	67.6	67.6	77.8	67.9	45.8	37.9	41.0	38.1
	4	16.12.2020	3rd	8.0	7.3	6.7	8.0	18.0	17.3	17.3	18.0	65.0	65.0	63.5	86.3	33.3	43.0	29.4	34.7
	5	19.12.2020		6.7	8.0	7.3	6.7	16.7	18.0	17.3	16.7	72.1	72.1	71.3	80.8	54.2	41.6	34.0	37.4
	6	23.12.2020	4th	7.3	8.3	8.0	7.3	17.3	19.3	18.0	17.3	61.0	61.0	69.7	72.0	37.5	54.0	35.3	42.3
	7	26.12.2020		6.5	8.7	6.7	6.5	16.5	18.7	16.7	16.5	69.3	69.3	77.2	88.3	33.3	46.7	36.2	32.5
	8	29.12.2020	1st	6.0	7.3	7.7	6.0	12.5	17.3	17.7	12.5	59.5	59.5	58.4	87.4	41.7	42.5	40.4	40.2
	9	31.12.2020	2nd	6.7	7.3	7.3	6.0	17.8	17.3	7.3	6.0	58.3	70.4	72.2	57.1	37.5	33.3	33.3	29.2
JANUARY	1	05.01.2021		8.0	6.3	8.2	7.2	18.0	16.3	8.2	7.2	73.6	72.5	58.8	48.6	29.2	37.5	37.5	37.5
	2	08.01.2021	2nd	6.7	8.0	8.0	6.7	16.2	18.0	8.0	6.7	89.0	80.6	62.8	62.5	25.0	41.7	25.0	20.8
	3	12.01.2021		7.7	7.0	6.7	8.0	17.7	17.3	6.7	8.0	78.4	67.0	62.7	56.2	33.3	50.0	29.2	25.0
	4	15.01.2021	3rd	5.8	8.8	7.5	7.7	15.8	19.7	7.5	7.7	62.3	74.5	71.2	65.1	37.5	37.5	37.5	29.2
	5	19.01.2021		8.3	6.7	8.0	8.2	19.0	17.3	8.0	8.2	69.9	79.4	89.2	78.4	27.1	45.4	33.3	44.2
	6	22.01.2021	4th	8.0	7.0	6.0	9.2	18.0	17.7	6.0	9.2	74.4	88.2	60.5	70.0	36.7	54.2	41.7	43.7
	7	26.01.2021		8.7	6.7	7.0	6.7	19.5	17.5	7.0	6.7	70.1	84.3	72.1	72.7	29.6	36.7	45.8	33.3
	8	29.01.2021	1st	6.8	8.0	8.0	7.5	16.7	18.0	8.0	7.5	76.5	78.7	77.6	49.3	36.8	41.7	31.3	33.3
	9	31.01.2021	2nd	6.7	8.0	8.0	6.7	16.8	18.0	18.8	17.3	67.5	73.8	60.0	69.0	29.2	37.5	29.2	29.2
FEBRUARY	1	04.02.2021		7.8	6.7	6.7	8.3	17.8	16.8	16.7	16.5	60.4	66.0	44.6	71.2	25.0	29.2	25.0	33.3
	2	08.02.2021	2nd	8.0	7.0	7.2	7.7	18.0	17.8	17.2	17.0	46.4	60.0	57.7	77.6	20.8	33.3	33.3	45.8
	3	11.02.2021		6.8	8.0	8.0	8.0	16.8	18.0	18.0	18.0	41.7	69.5	66.5	66.7	33.3	32.5	37.5	29.2
	4	15.02.2021	3rd	8.0	7.8	6.0	8.0	18.0	17.8	16.0	17.3	69.9	77.8	76.7	67.3	25.0	43.8	33.3	25.0
	5	18.02.2021		7.0	6.5	6.5	6.7	17.7	16.5	17.2	16.8	59.5	67.7	72.9	63.3	29.2	41.7	45.8	37.5
	6	22.02.2021	4th	7.7	5.5	8.0	7.0	18.0	15.8	18.0	17.7	65.5	73.7	59.9	45.4	16.7	27.5	33.3	29.2
	7	25.02.2021		8.8	6.7	6.7	7.2	19.2	16.5	17.3	18.0	61.7	68.6	40.1	59.5	22.9	31.7	44.2	20.8
	8	29.02.2021	1st	6.7	6.7	6.7	6.7	16.7	16.7	16.7	17.3	64.8	75.7	59.1	86.4	29.2	41.7	29.2	25.0
	9	01.03.2021	2nd	5.7	7.3	7.3	7.2	15.7	17.3	17.2	16.7	50.9	71.2	71.4	81.2	20.8	29.2	25.0	29.2
MARCH	1	04.03.2021		6.8	8.0	8.0	6.7	16.8	18.0	18.0	18.0	52.9	68.9	72.4	71.5	31.7	33.3	16.7	28.7
	2	08.03.2021	2nd	7.2	7.7	6.7	8.0	17.2	17.7	16.7	18.0	59.1	79.7	61.8	76.8	35.8	25.0	25.0	34.2
	3	11.03.2021		6.2	6.7	7.5	7.3	16.0	16.8	17.5	17.3	64.1	71.0	64.5	63.5	29.2	35.8	26.3	37.5
	4	15.03.2021	3rd	7.5	7.7	6.5	6.3	17.5	17.5	16.8	17.3	67.8	87.2	56.8	73.5	25.0	37.5	30.8	25.0
	5	18.03.2021		6.3	8.2	8.0	8.0	16.7	18.2	18.0	18.0	72.5	73.3	64.3	58.9	37.5	22.9	33.3	33.3
	6	22.03.2021	4th	7.0	6.7	6.7	6.2	17.0	16.3	16.2	16.3	77.8	84.2	59.4	73.2	27.5	25.0	29.2	29.2
	7	25.03.2021		8.5	9.0	7.3	5.5	19.0	18.5	18.8	17.0	64.5	77.3	56.8	59.7	27.5	29.2	16.7	37.5
	8	29.03.2021	1st	5.7	5.5	6.0	5.5	12.5	15.8	6.0	6.0	31.2	23.2	30.8	30.1	8.3	12.5	4.2	8.3
	9	31.03.2021	2nd	9.0	9.0	8.3	9.2	20.0	20.2	18.8	19.2	89.8	94.4	90.8	88.3	54.2	54.2	45.8	45.8
Minimum				5.7	5.5	6.0	5.5	12.5	15.8	6.0	6.0	31.2	23.2	30.8	30.1	8.3	12.5	4.2	8.3
Maximum				9.0	9.0	8.3	9.2	20.0	20.2	18.8	19.2	89.8	94.4	90.8	88.3	54.2	54.2	45.8	45.8
Average				7.3	7.5	7.3	7.4	17.3	17.7	15.7	15.6	65.1	71.7	66.2	65.5	28.8	34.9	30.5	30.1



Shridhar
Checked by

J.K. Cement WORKS, MUDDAPUR (KARNATAKA)

(Unit : J.K. Cement Ltd.)

Half Yearly Stack monitoring report of Cement plant & 2x25 MW Thermal power plant for October-2020 to March-2021

Sl. No.	Month/Year	Thermal Power Plant				Kiln / Raw Mill			Stack locations			
		SPM in mg/Nm ³	SO ₂ in mg/Nm ³	NO _x in mg/Nm ³	SPM in mg/Nm ³	SO ₂ in mg/Nm ³	NO _x in mg/Nm ³	Coal Mill Bag Filter	SPM in mg/Nm ³			
1	Oct-20	26.3	150.0	170.0	7.3	7.0	500.0	9.3	8.3	7.7	7.9	5.6
2	Nov-20	28.5	200.0	80.0	11.1	6.0	520.0	11.9	8.1	7.3	8.0	6.6
3	Dec-20	23.1	110.0	68.0	21.3	6.5	680.0	17.7	8.0	14.2	11.9	18.3
4	Jan-21	39.8	145.0	68.0	9.7	6.0	528.0	14.9	10.2	18.5	10.4	9.8
5	Feb-21	36.4	420.0	160.0	18.2	10.0	700.0	18.8	12.0	15.6	6.8	15.8
6	Mar-21	37.6	132.0	84.0	15.0	14.0	784.0	11.6	6.2	9.5	8.3	14.5
Avg		31.9	192.8	105.0	13.8	8.3	618.7	14.0	8.8	12.1	8.9	11.8
Min		23.1	110.0	68.0	7.3	6.0	500.0	9.3	6.2	7.3	6.8	5.6
Max		39.8	420.0	170.0	21.3	14.0	784.0	18.8	12.0	18.5	11.9	18.3

Sl. No.	Month/Year	Stack locations										
		SPM in mg/Nm ³										
		Slag mill	Coal crusher	Packing plant No-1	Packing plant No-2	Packing plant No-3	Packing plant No-4	RMT System	Clinker Transport	Clinker Storage	CM Sep-1	CM Sep-2
1	Oct-20	15.6	11.6	12.7	11.6	8.4	12.0	12.3	14.0	10.8	7.9	5.6
2	Nov-20	10.8	20.8	14.2	18.5	14.4	12.5	14.2	14.1	12.7	8.0	6.6
3	Dec-20	3.9	18.8	14.6	16.0	13.7	18.2	16.8	15.9	12.1	11.9	18.3
4	Jan-21	12.1	16.5	12.4	16.5	14.9	12.8	12.3	19.0	12.1	10.4	9.8
5	Feb-21	8.0	16.8	13.8	16.7	12.7	14.1	11.7	11.4	15.1	6.8	15.8
6	Mar-21	6.9	9.3	17.7	15.5	10.1	13.4	12.1	15.2	13.2	8.3	14.5
Avg		9.5	15.6	14.2	15.8	12.4	13.8	13.2	14.9	12.6	8.9	11.8
Min		3.9	9.3	12.4	11.6	8.4	12.0	11.7	11.4	10.8	6.8	5.6
Max		15.6	20.8	17.7	18.5	14.9	18.2	16.8	19.0	15.1	11.9	18.3

Checked by
Shridhar

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-2020 to March-2021

SL. NO.	MONTH/YEAR	SPM (microgram/m ³)							
		Gypsum Yard	Slag Yard	Flyash Yard	Cement mill	Lime stone unloading hopper	Lime stone crushing Site	Coal Yard	Packing Plant
1	Oct-20	704.0	723.1	645.3	800.6	714.6	787.5	722.5	768.9
2	Nov-20	977.0	1024.0	1167.9	866.9	906.3	1029.6	799.3	846.3
3	Dec-20	1173.4	1115.4	1202.1	1033.5	1035.8	1156.4	1059.5	1198.1
4	Jan-21	844.0	1008.9	1006.4	980.2	1030.2	1354.9	879.9	738.7
5	Feb-21	1229.3	786.0	979.5	968.1	589.6	584.6	1124.3	943.9
6	Mar-21	1570.8	1189.9	1100.0	1013.5	592.5	573.2	1078.8	1076.6
	Minimum	703.99	723.11	645.30	800.57	589.60	573.20	722.50	738.72
	Maximum	1570.83	1189.93	1202.10	1033.51	1035.76	1354.93	1124.29	1198.09
	Average	1083.10	974.55	1016.87	943.80	811.50	914.37	944.05	928.75


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J.K. Cement WORKS, MUDDAPUR (KARNATAKA)

(Unit: J.K. Cement Ltd.)

STP water Analysis Report (Monthly Average) for the Month of October-2020 to March-2021

Sl.No.	Month	Suspended Solids	PH	BOD	COD	NH4-N	N-total	Fecal Coliform	PO4-P,
	Tolerance limit	10	6 to 9	10	50	5	10	<230	2
1	Oct-20	8.31	7.63	7.93	23.66	3.63	7.38	Nil	0.75
2	Nov-20	8.28	7.57	7.57	25.80	3.72	7.55	Nil	0.76
3	Dec-20	8.31	7.47	7.38	24.83	3.44	7.53	Nil	0.76
4	Jan-21	7.84	7.53	7.17	23.94	3.54	7.10	Nil	0.68
5	Feb-21	7.94	7.57	7.13	24.89	3.40	7.37	Nil	0.73
6	Mar-21	7.90	7.55	7.12	23.24	4.05	7.04	Nil	0.73
	Half Yearly Min.	7.84	7.47	7.12	23.24	3.40	7.04	Nil	0.7
	Half Yearly Max.	8.31	7.63	7.93	25.80	4.05	7.55	Nil	0.8
	Half Yearly Avg.	8.09	7.55	7.38	24.40	3.63	7.33	Nil	0.7


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J.K. Cement WORKS, MUDDAPUR (KARNATAKA)

(Unit: J.K. Cement Ltd.)

EFFLUENT WATER ANALYSIS REPORT (Monthly Average) FOR THE MONTH OF OCTOBER-2020 TO MARCH-2021

Constituents	Suspended Solids (mg/L)	Temperature (°C) max	pH value	Oils and Grease (mg/L)
Permissible limit	100	Unobjectionable	5.5 to 9	10
Oct-20	42.2	0.46	8.29	Nil
Nov-20	50.8	0.48	8.14	Nil
Dec-20	53.4	0.42	8.20	Nil
Jan-21	53.6	0.41	8.21	Nil
Feb-21	55.7	0.37	8.26	Nil
Mar-21	49.4	0.39	8.28	Nil
Half Yearly Avg	50.9	0.42	8.23	Nil
Half Yearly Minimum	42.2	0.37	8.14	Nil
Half Yearly Maximum	55.7	0.48	8.29	Nil


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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-2020 to March-2021

Sl. No.	Location Name	Oct-20		Nov-20		Dec-20		Jan-21		Feb-21		Mar-21		Minimum		Maximum		Average	
		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	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	Boundary side	47.2	35.6	47.5	38.8	46.2	33.8	46.7	36.7	48.5	37.5	48.6	36.7	46.2	33.8	48.6	38.8	47.5	36.5
2	Administrative Building	45.4	32.8	44.7	32.5	40.8	30.2	44.5	33.2	45.3	35.4	46.7	34.5	40.8	30.2	46.7	35.4	44.6	33.1
3	Lime Stone gate	52.8	45.6	52.6	45.5	55.7	40.7	53.8	48.5	54.7	48.8	56.4	48.8	52.6	40.7	56.4	48.8	54.3	46.3
4	Lime Stone Crusher	62.5	50.7	66.7	48.5	47.2	37.5	66.7	57.6	65.8	58.5	60.5	52.5	47.2	37.5	66.7	58.5	61.6	50.9
5	Kiln/Cooler	66.8	52.5	58.7	38.5	55.8	41.2	70.8	61.5	73.6	60.2	68.6	53.4	55.8	38.5	70.8	61.5	64.7	51.2
6	Kiln Platform	73.5	64.5	67.5	53.4	50.5	43.6	74.2	65.5	73.6	64.5	74.6	65.5	50.5	43.6	74.6	65.5	69.0	59.5
7	Power Plant	64.7	52.2	69.8	48.5	60.6	50.7	66.5	50.8	65.4	53.6	68.5	55.8	60.6	48.5	69.8	55.8	65.9	51.9
8	Despatch gate	54.6	41.5	53.6	42.5	53.5	41.6	54.6	42.3	55.5	43.6	52.8	43.6	52.8	41.5	55.5	43.6	54.1	42.5
9	Near QC Lab.	49.7	39.6	43.6	38.2	45.9	36.2	47.5	38.5	48.2	37.5	48.5	38.5	43.6	36.2	49.7	39.6	47.2	38.1
10	Coal Yard	54.8	43.8	40.5	48.5	54.7	38.5	56.8	49.7	57.6	48.5	55.7	44.6	54.7	38.5	60.5	49.7	56.7	45.6
11	Slag yard	67.5	42.6	54.6	38.5	66.8	41.2	50.44	47.5	51.2	46.7	68.8	46.7	50.44	38.5	68.8	47.5	59.9	43.9
12	Gypsum yard	66.8	51.5	58.5	44.6	65.7	40.1	58.7	46.3	60.5	48.2	67.5	54.5	58.5	40.1	67.5	54.5	63.0	47.5
13	Near Canteen	63.4	50.6	50.2	35.5	62.2	40.2	50.6	40.7	52.5	43.5	64.4	52.8	50.2	35.5	64.4	52.8	57.2	43.9
14	Plant main gate	57.5	45.8	48.8	35.8	59.8	45.5	54.2	44.8	55.6	45.7	58.6	48.7	48.8	35.8	59.8	48.7	55.8	44.4
15	Dispensary	46.5	36.5	46.6	37.5	46.5	40	48.6	38.6	48.2	37.5	48.2	36.5	46.5	36.5	48.6	40	47.4	37.8
16	Packing Plant	71.5	65.4	55.8	44.6	71.5	55.4	58.8	48.6	60.4	50.5	68.9	66.5	55.8	44.6	71.5	66.5	64.5	55.2
17	General Store	62.5	52.8	47.3	35.5	60.1	45.5	52.5	46.5	54.6	48.7	63.6	55.4	47.3	35.5	63.6	55.4	56.8	47.4
18	DG House (1-meter distance)	80.5	-	78.6	-	75.5	-	78.2	-	77.6	-	78.5	-	75.5	0	80.5	0	78.2	-
19	DG House (2-meter distance)	78.6	-	76.4	-	71.5	-	76.5	-	75.4	-	76.6	-	71.5	0	78.6	0	75.8	-
20	Raw mill propoting hopper	70.4	63	68.5	59.5	79.9	63	73.6	66.7	74.6	65.8	70.2	64	68.5	59.5	79.9	66.7	72.9	63.7
21	coal mill	68.5	55.7	66.7	56.8	77	61	70.2	64.8	72.5	65.4	65.8	50.4	65.8	50.4	77	65.4	70.1	59.0
22	Near silo clinker loading point	62.8	51.6	63.4	52.8	64.2	51.8	67.5	58.6	68.8	57.5	63.5	52.8	62.8	51.6	68.8	58.6	65.0	54.2
23	CM-1 weigh feeder	70.6	61.5	68.6	58.9	71.5	55.5	62.8	53.8	63.5	54.4	68.5	56.2	62.8	53.8	71.5	61.5	67.6	56.7
24	CM-2 weigh feeder	68.5	53.8	70.4	55.4	67.7	52.6	66.4	56.6	65.3	55.4	67.6	54.8	65.3	52.6	70.4	56.6	67.7	54.8
25	Cement silo Packer-1	61.7	50.6	62.5	52.5	64.8	50.7	63.7	54.7	60.8	52.5	63.5	51.7	60.8	50.6	64.8	54.7	62.8	52.1
26	Cement silo Packer-2	65.5	52.7	66.8	54.3	69.5	45.2	67.5	57.3	66.7	58.4	64.3	54.6	64.3	45.2	69.5	58.4	66.7	53.8
27	Cement silo Packer-3	62.6	50.5	60.4	51.6	64.8	52.5	64.8	56.5	65.5	55.8	60.5	49.8	60.4	49.8	65.5	56.5	63.1	52.8
28	Cement silo Packer-4	58.4	48.6	58.7	48.6	57.5	47.2	62.8	53.8	61.6	54.4	57.8	49.5	57.5	47.2	62.8	54.4	59.5	50.4
29	Truck Loading point- 1	70.5	60.5	68.5	58.9	71.6	54.7	60.5	50.8	63.7	51.5	68.3	58.7	60.5	50.8	71.6	60.5	67.2	55.9
30	Truck Loading point- 2	65.3	55.8	66.9	56.7	61.8	48.5	68.6	57.5	65.6	56.8	66.2	56.5	61.8	48.5	68.6	57.5	65.7	55.3
31	Truck Loading point- 3	68.8	52.4	69.5	53.5	65.2	50.5	68.3	60.8	67.4	59.5	67.5	50.3	65.2	50.3	69.5	60.8	67.8	54.5
32	Truck Loading point- 4	64.6	50.5	65.5	51.8	60.7	48.5	65.5	57.4	64.6	57.5	65.4	52.3	60.7	48.5	65.5	57.5	64.4	53.0
33	Slag mill weigh feeder	62.4	52.6	60.8	53.5	73.8	55.4	60.2	55.8	62.8	56.8	63.7	53.5	60.2	52.6	73.8	56.8	64.0	54.6


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Station: AAQMS-1 Periodically: October 2020 to March 2021 Type: AVG Monthly [15 Mins.]						
Date & Time	PM 10 µg/m3	PM2.5 µg/m3	SO2 µg/m3	NO2 µg/m3	CO mg/m3	
Oct-20	61.61	23.22	Analyzer Problem	12	1.82	
Nov-20	85.54	55.61	Analyzer Problem	14	2.1	
Dec-20	Analyzer Problem	Analyzer Problem	10.65	15.33	2.3	
Jan-21	78.47	48.28	11.48	Analyzer Problem	2.7	
Feb-21	Analyzer Problem	45.67	13.4	Analyzer Problem	2.2	
Mar-21	Analyzer Problem	48.79	12.98	6.87	3	
Minimum	61.61	23.22	10.65	6.87	1.82	
MinDate	Oct-20	Oct-20	Dec-20	Mar-21	Oct-20	
Maximum	85.54	55.61	13.4	15.33	3	
MaxDate	Nov-20	Nov-20	Feb-21	Dec-20	Mar-21	
Avg	75.21	44.31	12.13	12.05	2.35	
Num	6	6	6	6	6	

Station: AAQMS2 Periodically: October 2020 to March 2021 Type: AVG Monthly [15 Mins.]						
Date & Time	PM 10 µg/m3	PM2.5 µg/m3	SO2 µg/m3	NO2 µg/m3	CO mg/m3	
Oct-20	60.64	25.71	Analyzer Problem	Analyzer Problem	1.12	
Nov-20	74.81	38.23		Analyzer Problem	Analyzer Problem	
Dec-20	Analyzer Problem	Analyzer Problem		Analyzer Problem	1.42	
Jan-21	84.62	47.31		14.65	1.01	
Feb-21	79.75	50.54		19.95	1.23	
Mar-21	81.65	35.63		19.53	1.51	
Minimum	60.64	25.71		14.65	1.01	
MinDate	Oct-20	Oct-20		Jan-21	Jan-21	
Maximum	84.62	50.54		19.95	1.51	
MaxDate	Jan-21	Feb-21		Feb-21	Mar-21	
Avg	76.29	39.48		18.04	1.26	
Num	6	6		6	6	

Station: CEMS Periodically: October 2020 to March 2021 Type: AVG Monthly [15 Mins.]1

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EXPENDITURE ON THE ENVIRONMENTAL MANAGEMENT PLAN FOR PERIOD
FROM OCTOBER 2020 TO MARCH 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	756.512
Fly ash Silo's and ash handling systems	112.54
Emission Monitoring equipment (including online emission monitoring equipment (CEMS) at sources and ambient air quality in the vicinity) and laboratory	5.04
Green Belt Development, Sewage Treatment plant and Water Harvesting Schemes for plant	28.15
Extra expenditure on green purchase (Purchase of green fuel, recycled materials or any other such purchase (<u>AFR purchase, Fly ash and Slag purchase</u>) to reduce environmental footprint	2369.44
Other environmental management costs (AFR system operation, odour control, environmental training/Award, SNCR system CPP, Environmental License Fees)	307.09
TOTAL (Rs in Lakhs)	3578.77