



JK Cement WORKS
MUDDAPUR

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

Phone : +91-8350-289000
Fax : +91-8350-289001
E-mail : factory.muddapur@jkcement.com

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

No. JKCW / ENV. / E.C. / (PLANT) / 89 / 07

Date- 20-05-2020

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-2019 to March-2020 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-2019 to March-2020** for your kind information and record please.

Thanking you

Yours faithfully
For J.K. Cement Works


R.B.M. Tripathi
(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



Registered & Corporate Office :
Kamla Tower, Kanpur - 208 001(UP)
Ph. : 0512-2371478-81 Fax : 0512-2399854
E-mail : ho.grey@jkcement.com
Website : www.jkcement.com

Central Marketing Office :
4th Floor, Krsna Chambers, Plot No. 11, Galaxy Garden
North Main Road, Koregaon Park, Pune - 411001
Ph. : 020-41350000 Fax : 020-41350099
Email : cmo.south@jkcement.com

Name of Project- J.K. Cement Works, Village- Lokapur, Taluka-Mudhol, District- Bagalkot

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, 2019 to March, 2020

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

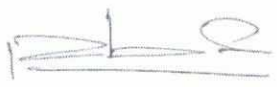
Reference- MoEF office memorandum dated 06 April 2011

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

	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)


R.B.M. Tripathi
(Unit Head)

J K CEMENT WORKS, MUDDAPUR
CSR REPORT FOR OCTOBER 2019 to MARCH 2020

CSR Project or activity identified	Section in which the project is covered	Local Area or	Specify State	Amount	Amount
(60-75 words)		other	and other	Spent	spent:Direct or through implementing Agency
Computer and printers installation with Furniture in Muddapur village government School	Rural development projects	Muddapur Village	Karnataka	-	Direct
Computer and printers installation in Jamkhandi Commerce and Industries office	Rural development projects	Jamkhandi Village	Karnataka	65,957	Direct
Computer Table donation given in Muddapur Govt school	Rural development projects	Metaguda Village	Karnataka	-	Direct
Donation made to Karnataka Flood Relief fund	Rural development projects	Karnataka	Karnataka	-	Direct
Contribution in construction of Mass Marriage Community Hall at Muddapur	Community Welfare Projects	Muddapur Village	Karnataka	2,00,000	Direct
Distribution of Bed sheet & Blanket & food to flood victims near by area.	Rural development projects	Muddapur Village	Karnataka	-	Direct
Cement bags donated to Mallikarjuna Temple at Lokapur	Community Welfare Projects	Muddapur Village	Karnataka	-	Direct
Contribution in construction of Community Meeting Hall at Muddapur	Community Welfare Projects	Muddapur Village	Karnataka	2,00,000	Direct
Contribution in construction of Toilet in Govt School at Muddapur	Rural development projects	Muddapur Village	Karnataka	1,00,000	Direct
Cement bags donated to Halki Govt School	Rural development projects	Halki Village	Karnataka	10,790	Direct
				5,76,747	

J.K. Cement Works, Village- Muddapur (Karnataka)

(Unit: J.K. Cement Ltd.)

Half Yearly Ambient Air Quality Monitoring Report for the period from October -2019 to March-2020

(All Values are in Micrograms / Cubic meter)

Date	SO ₂				NO ₂				PM ₁₀				PM _{2.5}			
	Locations				Locations				Locations				Locations			
	Ad m	D-Block	weigh bridge	Guest House	Ad m	D-Block	weigh bridge	Guest House	Ad m	D-Block	weigh bridge	Guest House	Ad m	D-Block	weigh bridge	Guest House
3.10.2019	6.7	7.5	8.3	7.5	16.8	18.3	18.3	18.3	37.1	34.8	43.2	28.5	12.5	12.5	20.8	8.3
7.10.2019	8.3	7.8	7.5	8.0	18.3	18.0	18.0	18.3	40.5	36.9	51.0	31.9	8.3	12.5	16.7	4.2
10.10.2019	7.5	6.8	8.3	7.2	19.2	19.2	19.2	17.7	32.4	30.7	45.2	38.1	16.7	20.8	33.3	11.5
14.10.2019	8.0	8.3	9.5	9.2	18.8	19.5	19.5	19.2	56.7	55.3	40.3	41.7	25.0	24.0	25.0	21.9
17.10.2019	9.8	9.2	8.8	8.8	19.7	18.8	18.8	20.2	47.0	69.6	54.0	22.6	33.3	26.9	33.4	19.9
21.10.2019	8.8	10.0	10.3	7.7	18.7	20.0	20.0	18.8	35.4	19.8	50.1	12.6	20.8	11.5	28.5	20.8
24.10.2019	6.7	10.2	10.2	8.0	17.3	20.2	20.2	18.0	56.6	17.9	46.7	14.5	16.7	21.9	30.7	25.0
28.10.2019	7.5	9.5	8.7	6.8	18.3	19.2	19.2	17.2	59.2	37.1	63.1	35.5	16.7	19.9	29.2	20.8
31.10.2019	8.5	7.7	8.0	8.3	18.5	19.2	19.2	19.2	63.1	16.4	67.7	20.0	12.5	12.5	25.0	12.5
4.11.2019	8.0	7.2	9.2	7.5	18.5	17.7	19.2	18.0	41.2	43.3	63.7	39.9	12.5	16.7	20.8	12.5
7.11.2019	7.5	8.0	8.0	8.2	18.0	18.7	18.0	18.2	38.9	48.5	55.4	35.9	16.7	12.5	25.0	8.3
11.11.2019	6.5	6.8	7.3	6.5	16.5	16.8	17.3	16.5	57.9	53.2	76.8	44.9	33.3	29.2	41.7	16.7
14.11.2019	7.0	7.2	9.2	7.3	17.0	17.5	18.5	17.3	79.1	61.0	70.4	50.5	37.5	33.3	33.3	20.8
18.11.2019	8.5	6.5	9.2	8.3	18.3	16.8	19.2	18.3	46.5	66.9	65.5	59.4	41.7	45.8	37.5	33.3
21.11.2019	8.0	8.0	7.5	9.2	18.0	18.5	18.8	19.2	66.3	57.7	68.9	66.6	29.2	37.5	41.7	41.7
25.11.2019	8.5	9.0	8.3	8.0	19.2	19.2	19.2	18.8	83.3	46.6	46.5	46.7	29.2	50.0	45.8	37.5
28.11.2019	10.2	8.7	9.2	8.7	20.2	20.0	19.7	19.3	77.7	66.6	60.9	62.0	37.5	37.5	37.5	33.3
2.12.2019	6.0	6.7	7.5	6.8	16.0	16.7	16.8	17.5	47.8	34.8	50.1	38.8	25.0	16.7	33.3	20.8
5.12.2019	5.8	5.8	6.2	5.2	18.3	16.0	17.2	16.5	83.4	58.3	57.2	54.5	37.5	29.2	37.5	25.0
9.12.2019	4.2	5.0	5.5	5.7	15.8	15.8	15.5	15.0	59.3	43.9	52.9	45.2	20.8	16.7	25.0	16.7
12.12.2019	3.8	4.8	4.8	4.8	16.0	14.7	15.0	14.8	89.7	67.2	67.9	52.0	33.3	29.2	37.5	20.8
16.12.2019	4.5	4.5	6.3	4.3	16.5	15.5	16.3	15.0	57.7	52.6	60.6	42.1	20.8	16.7	25.0	12.5
19.12.2019	3.7	4.0	5.8	3.8	17.7	14.0	17.7	13.8	52.8	69.3	55.8	56.9	41.7	41.7	45.8	37.5
23.12.2019	3.2	5.5	6.2	5.5	19.3	16.0	18.2	16.0	62.4	71.1	60.2	68.9	37.5	37.5	41.7	33.3

26.12.2019	5.5	6.2	5.5	6.2	16.2	17.7	15.2	16.7	64.6	56.0	69.4	49.5	37.5	33.3	33.3	20.8
30.12.2019	5.7	7.3	6.8	7.2	17.0	17.3	17.0	18.3	64.5	66.3	78.2	59.7	33.3	37.5	29.2	33.3
2.1.2020	6.8	6.0	5.3	7.5	16.7	16.0	16.7	18.0	74.6	74.9	55.3	71.4	41.7	37.5	37.5	25.0
6.1.2020	7.3	7.2	6.5	8.0	18.2	17.5	16.7	16.7	81.7	68.2	79.3	65.5	45.8	37.5	41.7	20.8
9.1.2020	6.5	6.5	8.7	6.7	17.7	16.8	18.3	17.7	74.6	83.2	50.7	69.8	33.3	33.3	45.8	29.2
13.1.2020	7.5	8.0	7.7	7.3	17.3	18.2	19.2	18.2	47.5	47.0	59.2	47.9	25.0	41.7	37.5	33.3
16.1.2020	8.2	8.0	9.0	5.8	18.2	18.5	19.2	15.7	75.6	66.8	54.5	59.2	37.5	33.3	41.7	33.3
20.1.2020	5.3	6.7	7.5	6.0	17.3	16.7	18.5	16.7	70.9	75.6	62.5	64.0	25.0	37.5	33.3	33.3
23.1.2020	7.2	7.7	8.5	7.7	17.7	17.7	18.8	17.7	48.5	58.3	69.2	55.1	29.2	25.0	37.5	29.2
27.1.2020	6.8	6.7	7.0	8.0	16.5	17.5	17.3	18.8	56.7	54.8	59.4	50.5	33.3	29.2	41.7	25.0
30.1.2020	7.7	8.0	7.7	7.7	17.7	18.0	18.7	17.7	49.7	58.9	60.0	31.7	41.7	37.5	33.3	29.2
3.2.2020	7.7	5.8	8.0	7.3	17.8	17.2	18.0	17.3	54.7	79.6	69.7	64.7	45.8	37.5	41.7	33.3
6.2.2020	6.7	7.2	6.7	6.7	16.7	18.0	17.3	18.2	64.6	66.4	60.7	69.5	33.3	41.7	37.5	29.2
10.2.2020	8.0	8.0	7.3	7.0	18.2	18.8	18.3	17.5	56.4	68.5	51.7	56.0	37.5	37.5	45.8	20.8
13.2.2020	7.2	6.5	8.0	8.0	17.8	16.5	18.8	18.8	70.6	59.8	57.7	61.1	37.5	25.0	41.7	33.3
17.2.2020	8.0	8.0	7.5	7.5	18.0	17.8	17.8	17.8	62.5	52.3	46.2	59.9	41.7	37.5	33.3	41.7
20.2.2020	7.8	6.8	7.2	6.7	18.0	16.7	18.8	17.5	58.9	64.7	69.6	70.4	29.2	33.3	37.5	29.2
24.2.2020	7.7	8.0	6.8	8.5	17.7	18.0	18.8	18.7	78.0	59.0	61.8	74.6	37.5	45.8	45.8	33.3
27.2.2020	6.2	7.3	7.7	6.7	17.7	17.3	17.7	17.3	70.0	52.5	53.8	54.4	33.3	41.7	37.5	20.8
2.3.2020	8.0	8.0	9.5	7.5	18.0	18.0	19.5	18.8	54.8	74.7	65.4	63.2	29.2	29.2	25.0	16.7
5.3.2020	7.8	7.7	8.3	8.0	17.8	18.5	18.8	18.0	72.2	89.2	60.5	57.4	20.8	25.0	29.2	20.8
9.3.2020	6.2	8.8	7.5	6.7	15.8	18.0	17.5	17.5	40.5	70.8	56.4	60.2	25.0	16.7	33.3	25.0
12.3.2020	7.5	6.7	6.7	7.5	17.0	17.3	16.7	18.0	34.7	62.6	50.5	68.4	12.5	12.5	25.0	16.7
16.3.2020	6.3	5.0	8.0	7.0	16.5	16.8	18.0	17.5	57.6	53.8	63.2	58.2	20.8	29.2	29.2	29.2
19.3.2020	6.8	7.3	7.7	6.7	17.3	17.3	18.0	16.8	60.6	83.2	68.0	47.0	25.0	29.2	37.5	25.0
23.3.2020	7.3	6.7	7.7	7.7	17.8	18.2	18.5	17.7	68.4	77.8	89.5	65.7	33.3	25.0	20.8	20.8
26.3.2020	6.8	7.3	5.8	6.7	18.2	18.7	17.8	17.2	57.6	67.6	80.3	59.1	16.7	29.2	29.2	33.3
30.3.2020	6.8	8.0	8.0	6.0	17.0	19.0	17.0	16.0	65.4	41.8	42.3	54.1	29.2	25.0	25.0	25.0
Avg.	7.0	7.2	7.7	7.1	17.7	17.7	18.1	17.6	59.8	57.6	60.0	51.5	29.0	29.2	33.8	24.7
Min.	3.2	4.0	4.8	3.8	15.8	14.0	15.0	13.8	32.4	16.4	40.3	12.6	8.3	11.5	16.7	4.2
Max.	10.2	10.2	10.3	9.2	20.2	20.2	20.2	20.2	89.7	89.2	89.5	74.6	45.8	50.0	45.8	41.7

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-2019 to March-2020**

Month	Stack locations										
	Thermal Power Plant			Kiln / Raw Mill			SPM in mg/Nm3				
	SPM in mg/Nm3	SO2 in mg/Nm3	NOx in mg/Nm3	SPM in mg/Nm3	SO2 in mg/Nm3	NOx in mg/Nm3	Coal Mill Bag Filter	Cooler	LSC	CM-1	CM-2
Oct-19	19.6	350.0	175.0	11.9	60.0	450.0	13.2	7.8	5.2	7.5	6.3
Nov-19	19.6	310.0	200.0	9.4	43.0	450.0	19.3	7.3	7.5	6.1	5.0
Dec-19	20.1	182.0	115.0	8.7	43.0	670.0	15.9	8.1	7.2	8.4	5.9
Jan-20	26.0	205.0	148.0	7.2	48.0	495.0	13.4	6.9	8.3	9.5	8.0
Feb-20	28.9	465.0	214.0	14.2	0.0	316.0	9.9	10.1	10.1	10.6	8.0
Mar-20	25.5	528.0	252.0	20.5	0.0	446.0	18.7	10.4	9.0	8.1	12.1
Average	23.3	340.0	184.0	12.0	32.3	471.2	15.1	8.4	7.9	8.3	7.5
Min	19.6	182.0	115.0	7.2	0.0	316.0	9.9	6.9	5.2	6.1	5.0
Max	28.9	528.0	252.0	20.5	60.0	670.0	19.3	10.4	10.1	10.6	12.1

Month/Year	Stack locations										
	SPM in mg/Nm3										
	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
Oct-19	9.9	12.3	11.65	14.91	14.91	13.59	12.1	15.1	11.7	7.5	6.3
Nov-19	16.4	19.3	12.1	10.2	7.8	9.3	11.8	10.2	10.9	6.1	5.0
Dec-19	19.6	12.2	13.1	10.0	14.9	10.9	11.7	15.2	13.6	8.4	5.9
Jan-20	18.2	14.2	12.08	10.23	10.77	14.13	10.9	12.1	14.5	9.5	8.0
Feb-20	15.9	15.0	12.19	13.39	11.65	10.19	15.6	12.1	11.7	10.6	8.0
Mar-20	14.6	15.7	17.09	15.13	11.65	13.48	12.0	20.0	12.9	8.1	12.1
Average	15.8	14.8	13.0	12.3	12.0	11.9	12.3	14.1	12.6	8.3	7.5
Min	9.9	12.2	11.6	10.0	7.8	9.3	10.9	10.2	10.9	6.1	5.0
Max	19.6	19.3	17.1	15.1	14.9	14.1	15.6	20.0	14.5	10.6	12.1

J.K. Cement Works, Village- Muddapur (Karnataka)

(Unit: J.K. Cement Ltd.)

Half Yearly Fugitive Emission Monitoring Report of Cement plant for the period from October-2019 to March-2020

Sl.No.	Month/Year	SPM (microgram/cubic meter)							
		Gypsum Yard	Slag Yard	Flyash Yard	Cement mill	Lime stone unloading hopper	Lime stone crushing Site	Coal Yard	Packing Plant
1	Oct-19	802.3	1006.8	1040.1	1062.7	1071.6	714.4	983.8	712.8
2	Nov-19	743.1	1093.3	496.2	693.7	908.7	864.9	863.6	630.2
3	Dec-19	871.4	1046.4	947.4	985.7	1051.6	977.2	1007.4	756.8
4	Jan-20	979.9	897.4	750.7	1008.7	915.4	739.6	984.5	774.4
5	Feb-20	885.1	714.2	877.3	984.7	1001.9	851.6	901.3	830.4
6	Mar-20	930.2	970.4	1036.0	1025.6	1051.0	1020.0	1072.0	1047.0
Minimum		743.1	714.2	496.2	693.7	908.7	714.4	863.6	630.2
Maximum		979.9	1093.3	1040.1	1062.7	1071.6	1020.0	1072.0	1047.0
Average		868.6	954.8	857.9	960.2	1000.0	861.3	968.8	791.9

J.K. Cement WORKS, MUDDAPUR (KARNATAKA)

(Unit: J.K. Cement Ltd.)

HALF YEARLY EFFLUENT WATER ANALYSIS REPORT (Monthly Average) FOR THE MONTH OF OCTOBER-2019 TO MARCH-2020

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-19	54.00	0.42	8.22	Nil
Nov-19	47.52	0.41	8.20	Nil
Dec-19	52.12	0.32	8.19	Nil
Jan-20	52.93	0.30	8.31	Nil
Feb-20	48.40	0.37	8.28	Nil
Mar-20	40.29	0.31	8.21	Nil
Avg	49.2	0.4	8.2	Nil
Minimum	40.3	0.3	8.2	Nil
Maximum	54.0	0.4	8.3	Nil

J.K. Cement WORKS, MUDDAPUR (KARNATAKA)

(Unit: J.K. Cement Ltd.)

Half Yearly STP water Analysis Report (Monthly Average) for the Month of October-2019 to March-2020

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-19	7.93	7.25	7.03	37.55	3.97	7.43	Nil	0.86
2	Nov-19	8.17	7.33	7.94	35.50	3.50	6.61	Nil	0.79
3	Dec-19	8.08	7.31	6.88	28.53	3.35	7.02	Nil	0.77
4	Jan-20	8.26	7.42	6.73	33.41	3.39	7.49	Nil	0.78
5	Feb-20	7.98	7.26	6.38	33.55	3.85	7.51	Nil	0.76
6	Mar-20	7.97	7.16	8.02	28.39	3.77	7.46	Nil	0.79
Half Yearly Min.		7.93	7.16	6.38	28.39	3.35	6.61	Nil	0.76
Half Yearly Max.		8.26	7.42	8.02	37.55	3.97	7.51	Nil	0.86
Half Yearly Avg.		8.07	7.29	7.16	32.82	3.64	7.25	Nil	0.79

JK Cement Work, Muddapur (Karnataka)

Six Monthly Noise Monitoring Report for Period from October 19 to March 20

Location Name	Oct-19		Nov-19		Dec-19		Jan-20		Feb-20		Mar-20		Minimum		Maximum		Average	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
Boundary side	46.8	36.5	44.7	35.3	48.6	36.4	48.2	32.8	48.5	30.6	48.2	30.4	44.7	30.4	48.6	36.5	47.5	33.7
Administrative Building	42.6	31.4	44.8	30.1	45.8	32.7	40.5	30.2	42.5	31.6	44.5	30.6	40.5	30.1	45.8	32.7	43.5	31.1
Lime Stone gate	52.8	47.7	53.5	46.6	60.7	43.2	50.7	40.7	50.7	42.7	51.6	41.8	50.7	40.7	60.7	47.7	53.3	43.8
Lime Stone Crusher	68.5	49.8	65.7	47.8	69.5	45.2	47.2	37.5	46.8	35.3	47.5	36.3	46.8	35.3	69.5	49.8	57.5	42.0
Kiln/ Cooler	55.8	37.6	54.6	35.5	57.4	40.2	55.8	41.2	53.7	38.8	53.3	38.8	53.3	35.5	57.4	41.2	55.1	38.7
Kiln Platform	65.5	52.8	62.2	50.7	70.5	58.4	50.5	43.6	50.5	43.6	52.4	44.5	50.5	43.6	70.5	58.4	58.6	48.9
Power Plant	70.6	46.8	68.5	43.2	72.5	48.7	60.6	50.7	64.6	50.7	65.5	52.8	60.6	43.2	72.5	52.8	67.1	48.8
Despatch gate	55.8	45.6	50.4	40.8	54.2	40.8	53.5	41.6	53.7	41.6	54.6	42.8	50.4	40.8	55.8	45.6	53.7	42.2
Near QC Lab.	42.5	34.8	45.6	35.5	46.2	37.4	45.9	36.2	47.5	36.4	49.5	35.2	42.5	34.8	49.5	37.4	46.2	35.9
Coal Yard	58.6	42.8	59.5	40.6	60.5	42.1	54.7	38.5	56.7	38.5	55.6	39.8	54.7	38.5	60.5	42.8	57.6	40.4
Slag yard	52.5	36.6	50.8	35.5	65	40.9	66.8	41.2	54.8	36.6	56.7	37.5	50.8	35.5	66.8	41.2	57.8	38.1
Gypsum yard	55.8	43.5	54.6	42.8	69	43.8	65.7	40.1	57.2	37.5	58.8	38.6	54.6	37.5	69	43.8	60.2	41.1
Near Canteen	48.9	32.8	45.2	30.5	66	42.9	62.2	40.2	44.7	30.6	44.7	32.8	44.7	30.5	66	42.9	52.0	35.0
Plant main gate	46.6	33.7	48.7	34.6	56.7	44.3	58.8	45.5	51.8	36.4	52.7	35.5	46.6	33.7	58.8	45.5	52.6	38.3
Dispensary	42.8	35.8	42.5	31.8	47	40	46.5	40	45.6	30.5	46.6	32.8	42.5	30.5	47	40	45.2	35.2
Packing Plant	53.6	45.5	55.8	44.2	70.2	59.7	71.5	55.4	51.7	41.6	52.8	40.5	51.7	40.5	71.5	59.7	59.3	47.8
General Store	46.8	33.7	48.5	35.7	58	46.5	60.1	45.5	56.8	31.7	57.5	32.5	46.8	31.7	60.1	46.5	54.6	37.6

DG House (1-meter distance)	60.2	—	62.5	—	72	—	71.5	—	65.5	—	66.7	—	60.2	—	72	—	66.4	—
DG House (2-meter distance)	63.6	—	60.3	—	74	—	75.5	—	62.7	—	63.5	—	60.3	—	75.5	—	66.6	—
Raw mill proportioning hopper	65.8	42.5	66.7	42.8	80	65	79.9	63	57.6	43.8	58.5	43.2	57.6	42.5	80	65	68.1	50.1
coal mill	57.5	45.2	56.6	43.7	76	62	77	61	61.5	46.5	62.8	47.4	56.6	43.7	77	62	65.2	51.0
Near silo clinker loading point	60.6	50.8	61.5	48.8	65.8	52.5	64.2	51.8	64.7	50.6	61.4	49.7	60.6	48.8	65.8	52.5	63.0	50.7
CM-1 weigh feeder	65.8	56.4	66.7	55.6	70.5	56.9	71.5	55.5	62.8	53.7	60.3	52.6	60.3	52.6	71.5	56.9	66.3	55.1
CM-2 weigh feeder	63.2	55.6	60.2	52.6	68.7	56.2	67.7	52.6	66.5	58.2	64.8	56.4	60.2	52.6	68.7	58.2	65.2	55.3
Cement silo Packer-1	61.4	49.8	62.8	48.6	65.2	52.1	64.8	50.7	61.7	50.8	60.6	48.7	60.6	48.6	65.2	52.1	62.8	50.1
Cement silo Packer-2	65.8	47.6	66.7	46.7	68.6	46.5	69.5	45.2	64.8	50.6	62.7	51.4	62.7	45.2	69.5	51.4	66.4	48.0
Cement silo Packer-3	68.5	52.4	70.8	60.8	63.3	53.6	64.8	52.5	60.3	49.5	60.2	50.4	60.2	49.5	70.8	60.8	64.7	53.2
Cement silo Packer-4	59.6	48.5	60.7	47.7	56.4	46.5	57.5	47.2	62.7	53.4	63.4	51.8	56.4	46.5	63.4	53.4	60.1	49.2
Truck Loading point- 1	64.8	51.5	63.5	50.2	70.6	52.4	71.6	51.7	60.8	47.5	60.5	46.7	60.5	46.7	71.6	52.4	65.3	50.0
Truck Loading point- 2	61.6	53.8	68.7	54.5	62.6	50.5	61.8	52.8	62.5	53.7	62.7	52.4	61.6	50.5	68.7	54.5	63.3	53.0
Truck Loading point- 3	65.6	51.8	66.6	50.4	69.2	60.5	65.2	50.5	60.8	51.8	62.8	50.2	60.8	50.2	69.2	60.5	65.0	52.5
Truck Loading point- 4	60.8	50.7	62.5	51.6	74.5	66.6	60.7	48.5	62.5	50.5	60.4	46.5	60.4	46.5	74.5	66.6	63.6	52.4
Slag mill weigh feeder	62.2	51.5	64.4	50.8	73.1	64.5	73.8	55.4	60.7	53.6	60.7	50.3	60.7	50.3	73.8	64.5	65.8	54.4

Note- All values are in (dB)
Leq

Station: CEMS Periodically October-2019 to March-2020 Type: AVG Monthly [1]

Month & Year	Kiln/RABH Stack SPM	Kiln/RABH Stack SO2	Kiln/RABH Stack NO2	CPP/ESP Stack SPM	CPP/ESP Stack SO2	CPP/ESP Stack NO2	Cement Mill-3 Stack SPM	Cooler ESP Stack SPM	Coal Mill Stack SPM	Cement Mill-1 Stack SPM	Cement Mill-2 Stack SPM
	mg/Nm3	mg/Nm3	mg/Nm3	mg/Nm3	mg/Nm3	mg/Nm3	mg/Nm3	mg/Nm3	mg/Nm3	mg/Nm3	mg/Nm3
Oct-19	9.06	28.05	158.06	17.22	254.52	67.53	7.66	6.79	5.69	1.45	1.11
Nov-19	6.62	23.83	95.08	15.5	105.12	133.98	10.66	4.7	8.07	0.72	0.18
Dec-19	7.24	49.52	264.72	15.39	405.45	296.6	10.26	2.21	10.29	2.07	2.55
Jan-20	8.39	37.77	311.83	19.39	95.65	45.13	10.68	4.64	12.43	2.94	3.8
Feb-20	16.11	18.27	386.16	29.72	288.67	192.74	14.97	6.73	16.96	4.65	5.65
Mar-20	18.17	0.63	439.89	30.48	533.55	258.23	16.13	2.97	12.9	1.58	4.73
Maximum	18.17	49.52	439.89	30.48	533.55	296.6	16.13	6.79	16.96	4.65	5.65
Minimum	6.62	0.63	95.08	15.39	95.65	45.13	7.66	2.21	5.69	0.72	0.18
Average	10.93	26.35	275.96	21.28	280.49	165.70	11.73	4.67	11.06	2.24	3.01

EXPENDITURE ON THE ENVIRONMENTAL MANAGEMENT PLAN FOR PERIOD
FROM OCTOBER 2019 TO MARCH 2020

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	715.17
Fly ash Silo's and ash handling systems	51.25
Emission Monitoring equipment (including online emission monitoring equipment (CEMS) at sources and ambient air quality in the vicinity) and laboratory	7.81
Green Belt Development, Sewage Treatment plant and Water Harvesting Schemes for plant	21.97
Extra expenditure on green purchase (Purchase of green fuel, recycled materials or any other such purchase (<u>AFR purchase</u> , <u>Fly ash and Slag purchase</u>) to reduce environmental footprint	1306.8
Other environmental management costs (AFR system operation, odour control, environmental training/Award, Environmental License Fees)	98.97
TOTAL (Rs in Lakhs)	2201.97