

JK Cement WORKS

MUDDAPUR

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

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

No. JKCW / ENV. / E.C. / (PLANT)/89/10

Date- 11-11-2020

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 April-2020 to September-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)**

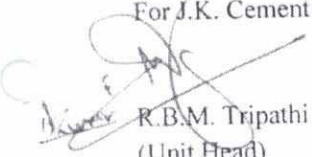
Ref: MoEF letter no. J-11011/263/2009-IA II (I) dated 26-09-2012

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 **April-2020 to September-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



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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 April, 2020 to September, 2020

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

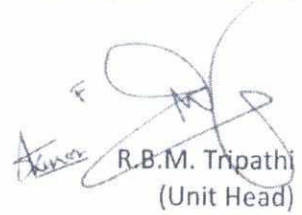
i	Continuous monitoring of stack emissions as well as ambient air quality (as per notified standards) shall be carried out and continuous records maintained. Based on the monitored data, necessary corrective measures as may be required from time to time shall be taken to ensure that the levels are within 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 April, 2020 to September, 2020

	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, MUDDAPURDETAILS OF CSR ACTIVITY UNDERTAKEN DURINGAPRIL'20 TO SEPTEMBER'20

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	3,04,950	Direct
				3,04,950	

Monitored by
VANDERBILT

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 April-2020 to September-2020

Sl. No.	Month/Year	Stack locations										
		Thermal Power Plant			Kiln / Raw Mill			SPM in mg/Nm ³				
		SPM in mg/Nm ³	SO ₂ in mg/Nm ³	NOx in mg/Nm ³	SPM in mg/Nm ³	SO ₂ in mg/Nm ³	NOx in mg/Nm ³	Coal Mill Bag Filter	Cooler	LSC	CM-1	CM-2
1	Apr-20	22.2	95.0	56.0	15.6	0.0	460.0	14.4	7.3	8.6	8.1	5.0
2	May-20	27.0	95.0	60.0	16.8	0.0	682.0	15.0	11.5	16.0	6.1	7.2
3	Jun-20	20.4	114.0	70.0	11.9	0.0	436.0	11.6	10.0	10.7	10.5	7.0
4	Jul-20	31.7	140.0	68.0	11.5	0.0	484.0	11.3	6.4	9.0	11.3	5.9
5	Aug-20	21.8	168.0	95.0	13.8	0.0	695.0	12.7	10.6	16.4	14.1	12.0
6	Sep-20	20.7	143.7	102.1	10.9	6.0	640.0	12.7	7.5	7.7	8.4	7.0
Avg		24.0	125.9	75.2	13.4	1.0	566.2	13.0	8.9	11.4	9.7	7.3
Min		20.4	95.0	56.0	10.9	0.0	436.0	11.3	6.4	7.7	6.1	5.0
Max		31.7	168.0	102.1	16.8	6.0	695.0	15.0	11.5	16.4	14.1	12.0

Stack locations												
Sl. No.	Month/Year	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	Apr-20	12.8	13.5	10.4	7.4	10.2	13.4	10.1	18.2	7.2	8.1	5.0
2	May-20	13.0	17.0	11.0	13.0	16.0	20.0	13.0	15.0	17.0	6.1	7.2
3	Jun-20	17.1	15.7	14.6	13.4	10.8	12.9	14.6	12.4	10.2	10.5	7.0
4	Jul-20	16.4	12.2	11.2	13.9	12.8	11.7	14.6	13.9	11.0	11.3	5.9
5	Aug-20	13.2	10.5	8.4	11.5	11.9	13.6	12.7	11.0	13.4	14.1	12.0
6	Sep-20	11.5	12.1	13.8	10.5	12.4	15.1	9.5	9.9	11.6	8.4	7.0
	Avg	14.0	13.5	11.6	11.6	12.4	14.4	12.4	13.4	11.7	9.7	7.3
	Min	11.5	10.5	8.4	7.4	10.2	11.7	9.5	9.9	7.2	6.1	5.0
	Max	17.1	17.0	14.6	13.9	16.0	20.0	14.6	18.2	17.0	14.1	12.0


 Vani Patti
 Monitored by

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-2020 to September-2020

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
1	Apr-20	750.2	985.2	729.3	900.7	1114.4	926.9	946.2
2	May-20	771.4	680.4	844.6	792.4	914.7	773.5	837.1
3	Jun-20	878.3	771.8	848.3	724.5	1014.5	940.5	854.5
4	Jul-20	826.6	663.5	560.7	480.2	587.4	516.9	628.7
5	Aug-20	677.0	562.5	470.8	699.2	506.2	456.6	585.3
6	Sep-20	638.0	711.9	575.5	725.2	619.5	716.9	639.1
Minimum		637.99	562.50	470.76	480.21	506.22	456.60	585.35
Maximum		878.30	985.22	848.29	900.71	1114.41	940.45	946.24
Average		756.90	729.22	671.52	720.37	792.79	721.88	748.49


Vanil Rajil
Monitored by

J.K. Cement WORKS, MUDDAPUR (KARNATAKA)

(Unit: J.K. Cement Ltd.)

EFFLUENT WATER ANALYSIS REPORT (Monthly Average) FOR THE MONTH OF APRIL-2020 TO SEPTEMBER-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
Apr-20	66.5	0.33	8.34	Nil
May-20	42.1	0.63	8.14	Nil
Jun-20	40.7	0.58	8.16	Nil
Jul-20	46.3	0.56	8.15	Nil
Aug-20	49.8	0.50	8.23	Nil
Sep-20	50.6	0.46	8.3	Nil
Half Avg	49.3	0.5	8.2	Nil
Half Minimum	46.5	0.3	8.1	Nil
Half Maximum	47.2	0.6	8.3	Nil


Vani Pathi

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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 April-2020 to September-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	Apr-20	8.25	7.22	7.77	29.17	3.14	6.74	Nil	0.76
2	May-20	8.09	7.25	6.65	34.10	3.44	7.37	Nil	0.77
3	Jun-20	8.08	7.46	6.84	26.02	4.50	7.16	Nil	0.77
4	Jul-20	8.00	7.22	7.83	27.15	3.73	7.13	Nil	0.74
5	Aug-20	8.22	7.44	6.93	24.38	3.32	7.44	Nil	0.80
6	Sep-20	8.22	7.34	8.12	24.91	3.56	7.48	Nil	0.77
	Half Yearly Min.	8.00	7.22	6.65	24.38	3.14	6.74	Nil	0.7
	Half Yearly Max.	8.25	7.46	8.12	34.10	4.50	7.48	Nil	0.8
	Half Yearly Avg.	8.14	7.32	7.35	27.62	3.61	7.22	Nil	0.8

(Signature)
Vani P. Jil
Monitored by

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

Half Yearly Noise monitoring report of Cement & Power Plant for the month of April-2020 to September-2020

Sl. No.	Location Name	Apr-20		May-20		Jun-20		Jul-20		Aug-20		Sep-20		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	45.6	31.5	43.2	30.4	48.2	32.8	47.5	34.8	48.6	35.8	48.6	35.5	43.2	30.4	48.6	35.8	47.0	33.5
2	Administrative Building	42.2	30.6	40.6	31.5	40.5	30.2	44.0	31.8	45.8	32.6	45.8	32.1	40.5	30.2	45.8	32.6	43.3	31.5
3	Lime Stone gate	52.5	33.5	54.6	33.5	50.7	40.7	51.5	46.5	52.7	47.6	52.8	45.8	50.7	33.5	54.6	47.6	52.5	41.3
4	Lime Stone Crusher	46.6	35.2	48.5	35.2	47.2	37.5	49.8	37.5	65.8	58.2	65.9	52.5	46.6	35.2	65.9	58.2	54.0	42.7
5	Kiln/Cooler	50.4	36.6	51.8	36.6	55.8	41.2	64.8	48.9	68.5	60.6	70.5	60.8	50.4	36.6	70.5	60.8	60.3	47.5
6	Kiln Platform	60.5	45.2	62.5	45.2	50.5	43.6	72.6	65.8	74.8	66.7	74.5	66.5	50.5	43.6	74.8	66.7	65.9	55.5
7	Power Plant	66.1	50.5	64.2	50.5	60.6	50.7	63.5	47.8	68.7	55.8	65.4	48.5	60.6	47.8	68.7	55.8	64.8	50.6
8	Despatch gate	52.4	40.6	50.5	40.6	53.5	41.6	53.4	40.8	55.4	41.2	54.6	41.6	50.5	40.6	55.4	41.6	53.3	41.1
9	Near QC Lab.	50.6	32.8	49.2	32.8	45.9	36.2	48.5	38.5	46.8	39.2	47.6	37.5	45.9	32.8	50.6	39.2	48.1	36.2
10	Coal Yard	56.5	35.4	55.4	35.4	54.7	38.5	56.8	42.8	55.7	48.7	55.4	41.5	54.7	35.4	56.8	48.7	55.8	40.4
11	Slag yard	55.4	34.2	52.8	34.2	66.8	41.2	48.5	35.6	52.8	45.6	47.6	36.8	47.6	34.2	66.8	48.7	54.0	37.9
12	Gypsum yard	56.6	35.8	54.5	35.8	65.7	40.1	57.8	41.6	58.4	47.5	58.2	42.5	54.5	35.8	65.7	47.5	58.5	40.6
13	Near Canteen	40.6	30.2	41.5	30.2	62.2	40.2	46.7	32.8	47.5	40.7	48.5	35.5	40.6	30.2	62.2	40.7	47.8	34.9
14	Plant main gate	50.5	32.6	50.4	32.6	58.8	45.5	52.5	35.5	53.7	46.4	53.6	40.6	50.4	32.6	58.8	46.4	53.3	38.9
15	Dispensary	44.6	30.2	43.6	30.2	46.5	40	43.6	32.6	45.8	34.8	44.7	33.7	43.6	30.2	46.5	40	44.8	33.6
16	Packing Plant	50.2	36.6	51.5	36.6	71.5	55.4	55.8	42.5	56.7	48.7	56.7	43.5	50.2	36.6	71.5	55.4	57.1	43.9
17	General Store	55.4	33.4	52.8	33.4	60.1	45.5	50	38.6	51.6	45.5	51.6	38.6	50	33.4	60.1	45.5	53.6	39.2
18	DG House (1-meter distance)	64.5	-	65.5	-	75.5	-	78.2	-	76.4	-	78.8	-	64.5	0	78.8	0	73.2	#DIV/0!
19	DG House (2-meter distance)	62.2	-	62.8	-	71.5	-	75.6	-	74.1	-	75.6	-	62.2	0	75.6	0	70.3	#DIV/0!
20	Raw mill proportioning hopper	60.6	40.5	64.6	41.5	79.9	63	68.7	42.8	74.5	68.5	69.5	45.8	60.6	40.5	79.9	68.5	69.6	50.4
21	coal mill	64.5	45.6	65.2	43.6	77	61	55.8	44.6	70.5	65.6	62.5	42.6	55.8	42.6	77	65.6	65.9	50.5
22	Near silo clinker loading point	60.6	46.8	62.2	41.5	64.2	51.8	58.4	47.6	65.2	59.8	58.4	47.6	58.4	41.5	65.2	59.8	61.5	49.2
23	CM-1 weigh feeder	61.5	50.2	62.5	51.2	71.5	55.5	62.5	52.4	60.5	55.6	63.5	52.5	60.5	50.2	71.5	55.6	63.7	52.9
24	CM-2 weigh feeder	60.2	55.2	65.5	52.8	67.7	52.6	65.8	55.7	65.2	58.2	65.2	53.8	60.2	52.6	67.7	58.2	64.9	54.7
25	Cement silo Packer-1	62.8	45.5	60.7	43.3	64.8	50.7	63.5	50.8	64.5	59.5	62.8	51.6	60.7	43.3	64.8	59.5	63.2	50.2
26	Cement silo Packer-2	60.6	50.2	61.8	51.5	69.5	45.2	65.8	52.8	66.4	55.7	65.8	52.8	60.6	45.2	69.5	55.7	65.0	51.4
27	Cement silo Packer-3	62.5	49.7	64.4	50.5	64.8	52.5	66.5	48.7	65.3	57.4	67.2	54.5	62.5	48.7	67.2	57.4	65.1	52.2
28	Cement silo Packer-4	63.6	50.5	60.1	48.9	57.5	47.2	62.8	45.8	63.4	56.8	63.4	46.5	57.5	45.8	63.6	56.8	61.8	49.3
29	Truck Loading point-1	61.5	45.5	62.2	44.7	71.6	51.7	52.8	46.7	60.9	50.4	53.5	47.5	52.8	44.7	71.6	51.7	60.4	47.8
30	Truck Loading point-2	60.6	50.6	58.7	48.5	61.8	52.8	64.5	48.5	65.6	59.5	65.4	48.6	58.7	48.5	65.6	59.5	62.8	51.4
31	Truck Loading point-3	60.5	51.5	62.4	50.6	65.2	50.5	65.2	47.5	67.4	63.8	68.5	50.5	60.5	47.5	68.5	61.8	64.9	52.4
32	Truck Loading point-4	62.4	45.4	65.5	46.5	60.7	48.5	58.4	46.5	64.2	59.7	60.7	48.5	58.4	45.4	65.5	59.7	62.0	49.2
33	Slag mill weigh feeder	62.1	49.6	68.7	45.6	73.8	55.4	64.5	50.7	60.8	56.4	73.8	55.4	60.8	45.6	73.8	56.4	67.3	52.2

[Signature]
Vishu Ravi
Monitored by

Station: CEMS Periodically: April 2020 - September 2020 Type: AVG Monthly [1 Hr.]

Date & Time	RABH_STACK- PM-(mg/Nm3)	RABH_STACK- SO2-(mg/Nm3)	RABH_STACK- NOx-(mg/Nm3)	CPPSTACK- PM-(mg/Nm3)	CPPSTACK- SO2- (mg/Nm3)	CPPSTACK- NOx- (mg/Nm3)	Cool_Mill- PM- (mg/Nm3)	Cooler - ESP-PM- (mg/Nm3)	Cement_Mill_1 PM(mg/Nm3)	Cement_Mill 2PM(mg/Nm3)	cement_Mill_3 PM(mg/Nm3)
Apr-20											
May-20	16.0	8.0	623.0	28.1	100.0	89.7	18.7	2.8	3.0	4.0	14.6
Jun-20	14.0	0.0	316.6	23.7	98.4	63.2	7.1	6.1	2.8	1.8	12.0
Jul-20	11.7	0.0	348.0	28.8	120.0	74.2	10.4	5.0	2.0	0.8	11.7
Aug-20	15.0	3.4	567.2	15.0	136.4	87.5	9.6	9.2	2.5	1.8	9.0
Sep-20	9.2	10.9	442.9	16.2	146.3	95.3	4.7	8.1	2.6	1.8	11.0
Minimum	9.2	0.0	316.6	15.0	98.4	63.2	4.7	2.8	2.0	0.8	9.0
Maximum	16.0	10.9	623.0	28.8	146.3	95.3	18.7	9.2	3.0	4.0	14.6
Average	13.2	4.5	459.5	22.4	120.2	82.0	10.1	6.3	2.6	2.1	11.7

Station: AAQMS1 Periodically: April 2020 - September 2020 Type: AVG Monthly [1 Hr.]

Date & Time	PM10	PM2.5	SO2	NO2	CO
	µg/m ³	µg/m ³	µg/m ²	µg/m ³	µg/m ³
Apr-20	Nodata				
May-20	54.00	20.77	Analyzer Problem	Analyzer Problem	1.2
Jun-20	20.08	8.91	Analyzer Problem	28.2	0.7
Jul-20	27.39	4.25	Analyzer Problem	13.6	1.2
Aug-20	21.28	3.52	Analyzer Problem	16.6	1.57
Sep-20	32.00	8.25	Analyzer Problem	12.0	1.55
Minimum	20.08	3.52	0	12	0.65
Maximum	54	20.77	0.00	28.17	1.57
Average	30.95	9.14	#DIV/0!	17.61	1.23

Station: AAQMS2 Periodically: April 2020 - September 2020 Type: AVG Monthly [1 Hr.]

Date & Time	PM10	PM2.5	SO2	NO2	CO
	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³
Apr-20	Nodata				
May-20	88.52	25.6	Analzer Problem	Analzer Problem	Analzer Problem
Jun-20	36.76	7.3	Analzer Problem	5.28	Analzer Problem
Jul-20	28.88	15.2	6.20	Analzer Problem	0.49
Aug-20	19.19	2.6	Analzer Problem	Analzer Problem	3.26
Sep-20	33.13	7.1	Analzer Problem	Analzer Problem	1.14
Minimum	19.19	2.56	6.2	5.28	0.49
Maximum	88.52	25.6	6.2	5.28	3.26
Average	41.30	11.55	6.20	5.28	1.63

EXPENDITURE ON THE ENVIRONMENTAL MANAGEMENT PLAN FOR PERIOD
FROM APRIL 2020 TO SEPTEMBER 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	759.31
Fly ash Silo's and ash handling systems	58.76
Emission Monitoring equipment (including online emission monitoring equipment (CEMS) at sources and ambient air quality in the vicinity) and laboratory	13.49
Green Belt Development, Sewage Treatment plant and Water Harvesting Schemes for plant	20.08
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	1943.17
Other environmental management costs (AFR system operation, odour control, environmental training/Award, SNCR system CPP, Environmental License Fees)	126.38
TOTAL (Rs in Lakhs)	2921.19