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MUDDAPUR

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

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

Date- 18-05-2021

To The Scientist-F Ministry of Environment & Forest Govt. of India, Indira Paryavaran Bhavan Aliganj, New Delhi- 110 003

No. JKCW / ENV. /E.C./(PLANT)/89/12

Sub: Half Yearly Environmental Clearance Compliance report for the period from October-2020 to March-2021 for expansion of Cement Grinding Unit (2.5 MTPA to 3.5 MTPA) of JK Cement Works, Village- Muddapur, Taluka- Mudhol, District- Bagalkot (Karnataka)

Ref: MoEF Letter No. F.No. J-11011/263/2009-IA II (I) dated 21-06-2010

Dear Sir,

CEM

With reference to your above cited environmental clearance letter for expansion of Cement Grinding Unit (2.5 MTPA to 3.5 MTPA) of 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 (Uhit Head)

Encl. - Compliance report, Socio-economic development report & six monthly manual AAQ monitoring, stack, fugitive emission, treated effluent monitoring, noise monitoring, Continuous Emission Monitoring System (CEMS) 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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Environmental Clearance Compliance Report for the period from October, 2020 to March, 2021

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

EC to expansion of Cement Grinding Unit (2.50 MTPA to 3.5 MTPA) at Village Muddapur, Taluka Mudhol, District Bagalkot, Karnataka

A. SPECIFIC CONDITIONS:

S.N.	CONDITION	REPLY
i)	All other necessary statutory clearances from	Complied, we have obtained all other
	the concerned departments including No	necessary statutory clearances from concerned
	Objection Certificate from the Karnataka	departments including No Objection
2	State Pollution Control Board (KSPCB) shall	Certificate from the Karnataka State Pollution
	be obtained prior to commencement of	Control Board (KSPCB) prior to
	construction and / or operation.	commencement of construction and / or
		operation. We are renewing consent to operate
		from Karnataka Pollution Control Board
		Operate vide Combined Concent to
		AWH-301684 dated 19-12-2016 and it is
		valid up to 30-06-2021 and we have applied
		through online portal (XGN) for renewal of
		Consent to Operate via. Inward application
		no. 102712.
ii)	Compliance to all the specific and general	Complying, we are ensuring that we are
	conditions stipulated for the existing plant by	complying with all the specific and general
	the Central/State Govt. shall be ensured and	conditions stipulated for the existing plant by
	its regional Office at Paraclare	the Central/State Govt. and six monthly
	its regional office at Bangalore.	Compliance reports are being submitted to the
iii)	Adequate pollution control measures viz hag	Complied Adagusta pollution soutcol
	filters shall be provided to control emissions	measures viz hag filters have been provided
	from various sources within 50 mg/Nm ³ . At	to control emission from various sources
	no time, particulate emissions from the	within 30 mg/Nm ³ and at no time, particulate
	grinding unit shall exceed 50 mg/Nm ³ .	emissions from the grinding unit is being
	Interlocking facility shall be provided in the	exceeded 30 mg/Nm ³ and interlocking facility
	pollution control equipments so that in the	has been provided in the pollution control
	event of the pollution control equipment not	equipment.
	automatically	
iv)	Cement grinding shall be corried out in closed	
11)	circuit and shall have highly efficient reverse	Complied, Cement grinding is being carried
	pulse jet type bag filters.	iet type hag filters have here installed
v)	Ambient air quality monitoring stations	Complied Ambient air quality manitaria
	(AAQMS) shall be set up as per statutory	stations (AAOMS) have been set up in
	requirement in consultation with the	consultation with the Karnataka Pollution
	Karnataka Pollution Control Board (KSPCB).	Control Board (KSPCB). Ambient air
	Ambient air quality including ambient noise	quality including ambient noise levels is not
	levels shall not exceed the standards	exceeding the standards stipulated under

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vi)	stipulated under EPA or by the State authorities. Monitoring of ambient air quality shall be carried out regularly in consultation with KSPCB and must not exceed the standards stipulated under EPA or by the State Authorities. Monitoring reports for ambient air, stack and fugitive emissions shall be submitted to the Ministry's regional Office at Bangalore, Central Pollution Control Board (CPCB) and KSPCB half-yearly. The instrument used for ambient air quality monitoring shall be calibrated time to time. The company shall install adequate dust collection and extraction system to control fugitive dust emissions at loading/unloading points and all the transfer points. Dust extraction system with bag filters at raw	EPA or by the State authorities. Ambient air quality is being carried out regularly in consultation with KSPCB and results are not exceeding the NAAQM standards, 2009. Ambient air, stack and fugitive emission monitoring reports are being submitted to Ministry's regional Office at Bangalore, Central Pollution Control Board (CPCB) and KSPCB half-yearly. The Instruments, used for ambient air quality/stack/noise/ fugitive monitoring are being calibrated time to time. Complied, we have installed adequate dust collection and extraction system to control fugitive dust emissions at loading/unloading points and all the transfer points. The dust, collected in bag filters is recycled back to the
	material handling areas shall be provided, collected in bag filters and recycled back to the process. Storage of raw material shall be in closed roof sheds. Water sprinkling arrangement shall be made in the raw material stock yard and cement bag loading areas.	process. Raw material is being stored in closed roof sheds. We are sprinkling the water in raw material stock yard and cement bag loading areas through water tankers. We have two no. dust sweeping machines also to sweep the dust from paved floors.
vii)	Secondary fugitive emissions shall be controlled and shall be within the prescribed limits and regularly monitored. Guidelines / Code of Practice issued by the CPCB in this regard shall be followed. Transportation of raw materials shall be covered means.	Complying, Secondary fugitive emissions have been controlled and it is well within the prescribed limits and regularly monitored. CPCB guidelines regarding control of fugitive emission is being followed. Raw materials are being transported through covered means
viii)	Total ground water requirement shall not exceed 200 m ³ /day. No waste water shall be generated from the cement grinding unit.	Complying, ground water is not abstracting more than permitted quantity. No waste water is being generated from the cement grinding unit.
1X)	All the solid waste viz. fly ash and dust etc. should be properly recycled and reutilized in the process itself.	Complying, All the solid wastes viz. fly ash and dust etc. are being properly recycled and re-utilized in the process itself. 100% fly ash, generated in Captive power plant, is used in the own cement plant in manufacturing of cement.
x)	As proposed, green belt shall be developed in at least 34.5 ha of land area to land area to mitigate the impact of fugitive emissions in and around the expansion project as per the CPCB guidelines in consultation with the local DFO.	Complying, we have covered more than 33% area of total land area from plantation to mitigate the impact of fugitive emissions. We are continuously developing the green belt in and surrounding the area as per the CPCB guidelines in consultation with the local DEC
xi)	Proper housekeeping and adequate occupational health programmes shall be	Complying, Proper housekeeping and adequate occupational health programmes are

	talian an	
	taken up.	being taken up time to time. Our plant has been certified with ISO 14001:2015, ISO 9001:2015, OHSAS 45001 and ISO 50001:2011 also.
xii)	All the recommendations made in the charter	Complying, Recommendations made in the
	on Corporate Responsibility for Environment	Charter on Corporate Responsibility for
	Protection (CREP) for the cement plants shall	Environment Protection (CREP) for the
	be implemented.	cement plants are being implemented.
xiii)	Rainwater harvesting measures shall be	Complied, Rainwater harvesting measures in
	adopted. The company must also harvest the	cement plant and residential colony have been
	rainwater from the roof tops and storm water	adopted. We are harvesting the rainwater from
	drains to recharge the ground water and use	the roof tops and storm water drains to
	the same water for the various activities of the	recharge the ground water
	project to conserve fresh water.	er and Bround Hater.
xiv)	At least 5% of the total cost of the project	Complying, item-wise details along with time
	should be earmarked towards the corporate	bound action plan has been prepared and
	social responsibility and item-wise details	submitted to the Ministry's Regional Office at
	along with time bound action plan should be	Bangalore.
	prepared and submitted to the Ministry's	C
	Regional Office at Bangalore.	
	Implementation of such program should be	
	ensured accordingly in a time bound manner.	
xv)	The company shall provide housing for	The project has been completed but during
	construction labour within the site with all	project, all facilities had been provided to
	necessary infrastructure and facilities such as	labour.
	fuel for cooking, mobile toilets, mobile STP,	
	safe drinking water, medical health care,	
	creche etc. The housing may be in the form of	
	temporary structures to be removed after the	
_	completion of the project.	
B. GI	ENERAL CONDITION:	
i)	The project authorities must strictly adhere to	Agreed, We are adhering to the stipulations
	the stipulations made by the Karnataka State	made by the Karnataka State Pollution
	Pollution Control Board and the State	Control Board and the State Government.
	Government.	
ii)	No further expansion or modifications in the	Agreed, No further expansion or modifications
•	plant shall be carried out without prior	in the plant shall be carried out without prior
•	approval of the Ministry of Environment and	approval of the Ministry of Environment and
	Forests.	Forests.
iii)	The gaseous emissions from various process	Agreed, The gaseous emissions from various
1	units shall conform to the load/mass based	process units are well within the load/mass
	standards notified by this Ministry on 19th	based standards notified by this Ministry on
	may, 1993 and standard prescribed from time	19th may, 1993 and standard prescribed from
	to time. The State Board may specify more	time to time.
	stringent standards for the relevant parameters	
	keeping in view the nature of the industry and	
	its size and location.	
1V)	At least four ambient air quality monitoring	Complied, We have established four

J.K. Cement Works, Village- Muddapur, Taluka- Mudhol, Distt.- Bagalkot, Karnataka

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	stations should be established in the downward direction as well as where maximum ground level concentration of PM10, SO ₂ and NOx are anticipated in consultation with the SPCB. Data on ambient air quality and stack emission shall be regularly submitted to this Ministry including its regional Office at Bangalore and the SPCB/CPCB once in six Months.	(AAQMS) monitoring stations and monitored data of ambient air quality and stack emission are being regularly submitted to the Ministry including its regional Office at Bangalore and the SPCB/CPCB once in six Months. Six monthly report of ambient air quality, fugitive and stack emission has been enclosed as per Annexure-1
v)	Industrial wastewater shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December, 1993 or as amended form time to time. The treated wastewater shall be utilized for plantation purpose.	Complying, No waste water is generated from cement plant and the waste water, generated in captive power plant, is collected and treated properly and treated waste water is being used in process itself.
vi) Vii)	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 should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (daytime) and 70 dBA (nighttime). Occupational health surveillance of the workers should be done on a regular basis and records maintained as per the Factory Act.	Complying, The noise levels in and around plant are 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 are also within the standards prescribed under EPA Rules, 1989 viz. 75 dBA (daytime) and 70 dBA (nighttime) as per Annexure- 2 Complying, Occupational health surveillance of the workers is being done on a regular basis and records are being maintained as per the Factory Act.
viii)	The company shall develop surface water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.	Complied, Surface water harvesting structures has been developed to harvest the rain water for utilization in the lean season besides recharging the ground water table.
ix)	The Project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report. Further, the company must undertake socio-economic development activities in the surrounding villages like community development programme, educational programmes, drinking water supply and health care etc.	Complying, We are also complying with all environmental protection measures and safeguards recommended in the EIA/EMP report. Socio-economic development activities for the period October-2020 to March-2021 are as per Annexure-3 .
X)	As proposed, Rs 431 lakhs and Rs. 117.95 lakhs shall be earmarked towards capital cost and recurring cost/annum for environment pollution control measures to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State	Complied. We are spending more than recurring cost/annum for environment pollution control measures. An implementation schedule for implementing all the conditions stipulated herein has been submitted to the regional Office of the

	Government. An implementation schedule for implementing all the conditions stipulated herein shall be submitted to the regional Office of the Ministry at Bangalore. The funds so provided shall not be diverted for any other purpose.	Ministry at Bangalore.
xi)	A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad/Municipal Corporation, Urban Local Body and the local NGO, if any, from whom suggestions/representations, if any were received while processing the proposal. The clearance letter shall also be put on the web site of the company by the proponent.	Complied, A copy of clearance letter had been sent by us to concern recommended by MoEF, No suggestions and representation received. The clearance letter has been put on the web site of the company.
xii)	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the regional Office of the MoEF at Bangalore, The respective Zonal Office of CPCB and the CECB. The criteria pollutant levels namely; PM_{10} , SO_2 , NO_x (ambient for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	Complying, Status of compliance of the stipulated environment clearance conditions and results of monitored data are being uploaded on company website and it is updated periodically. It is simultaneously being sent to the regional Office of the MoEF at Bangalore, The respective Zonal Office of CPCB and the CECB. The pollutants levels namely; PM ₁₀ , SO ₂ , NO _x are being displayed at a convenient location near the main gate of the company in the public domain.
xiii)	The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional Office of this Ministry at Bangalore/CPCB/SPCB shall monitor the stipulated conditions.	Complying, we are also submitting six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional Office of this Ministry at Bangalore/CPCB/SPCB and concerned authority monitor the stipulated conditions
xiv)	The environmental statement for each financial year ending 31 st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (protection) Rules, 19086, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental conditions and shall also be sent to the	Complying, the environmental statement for each financial year ending 31 st March in Form-V is being submitted by us to the concerned State Pollution Control Board and is also sent to the respective regional office of the MoEF at Bangalore by e mail. Environmental Statement Report (Form-V) for F.Y. 2019-20 was submitted to regulatory authority via. letter no. JKCW/ENV./CFO (Plant)/60/13 dated 08-09-2020.

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

	respective regional Office of the MoEF at	
	Bangalore by e mail.	
xv)	The Project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB and may also be seen at website of the Ministry of Environment and Forests at http:/envfor.nic.in. This shall be advertised within seven days from the date of issue of the 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 should be forwarded to the regional office at Bangalore.	Complied, we had informed the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB and may also be seen at website of the Ministry of Environment and Forests at http:/envfor.nic.in. This had been advertised within seven days from the date of issue of the 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 had been forwarded to the regional office at Bangalore.
xvi)	Project authorities shall inform the Regional	Complied, we had informed the Regional
	Office as well as the Ministry, the date of	Office as well as the Ministry, the date of
	financial closure and final approval of the	financial closure and final approval of the
	project by the concerned authorities and the	project by the concerned authorities and the
	date of commencing the land development	date of commencing the land development
	work.	work.

We hope, you will find our reply in order.

With best regards,

Yours faithfully For 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

	522,950				
Direct	200,000	Karnataka	Muddapur	Community Welfare Projects	MASS MARRIAGE COMMUNITY HALL CREATION MUDDAPUR
Direct	18,000	Karnataka	Lokapur	Health & Medical	MEDICAL HELP TO KALAMMA BADIGER LOKAPUR MISC
Direct	304,950	Karnataka	Muddapur Village	Rural development projects	Distribution of Vegetable & food Packet to near by area (COVID 19)
Agency					
through implementing					
spent:Direct or	Spent	and other	other		(60-75 words)
Amount	Amount	Specify State	Local Area or	Section in which the project is covered	CSR Project or activity identified

J.K. Cement WORKS, MUDDAPUR (KARNATAKA) CEMENT PLANT & 2X25 CPP MW HALF YEARIY AAQM REPORT (SO₂, NO₂, PM₁₀, PM2.5), FOR THE MONTH OF OCTOBER-2020 TO MARCH-2021 (ALL VALUES IN MICROGRAMS / CUBIC METER)

					SO	2			N	02			PM	10			PM	2.5	
Month	SI.No.	Date	Week	_	Locat	ions			Loc	ations			Locati	ions			Loca	tions	
				Adm	D-Block	weigh bridge	Guest House	Adm	D-Block	weigh bridge	Guest House	Adm	D-Block	weigh bridge	Guest House	Adm	D-Block	weigh bridge	Guest House
	1	01.10.2020	lst	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
0	2	05.10.2020	1000	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
C	3	08.10.2020	2nd	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
0	5	16 10 2020		8.0	7.7	7.8	8.0	18.5	17.7	17.0	17.7	31.2	50,0	30.8	32.2	16.7	20.8	16.7	8.3
в	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	40.5	20.8	25.0	29.2	20.8
E	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
R	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
N	1	03.11.2020	let	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
0	2	06.11.2020	150	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
V	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
E	4	13.11.2020	zna	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
М	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
B	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
R	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
D	1	02.12.2020	Ist	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
E	2	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
С	3	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
E	4	12,12,2020		9.0	8.3	1.3	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
M	6	19.12.2020	3rd	6.7	7.5	0.7	6.7	16.7	17.3	17.3	18.0	65.0	65.0	63.5	86.3	33.3	43.0	29.4	34.7
B	7	23.12.2020		7.3	8.0	8.0	7.3	17.3	10.0	17.3	17.3	61.0	61.0	71.3	80.8	54.2	41.6	34.0	37.4
R	8	26.12.2020	4th	6.5	8.7	6.7	6.5	16.5	18.7	16.7	16.5	693	69.3	77.2	88.3	37.5	34.0	35.3	42.3
	9	29.12.2020		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	40.7	40.4	40.2
	1	01.1.2021	1.4	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	20.2
J	2	05.1.2021	Ist	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
A	3	08.1.2021	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
N	4	12.1.2021	Zna	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
U	5	15.1.2021	ard	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
A	6	19.1.2021	310	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
K V	7	22.1.2021		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
	8	26.1.2021	4th	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
	9	29.1.2021		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
F	1	01.2.2021	1 st	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
E	2	04.2.2021		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
В	3	08.2.2021	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
R	4	15.2.2021		0.8	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
A	6	18.2.2021	3rd	7.0	1.0	0.0	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
R	7	22.2.2021		7.0	5.5	0.3	0.7	17.7	10.5	17.2	16.8	59.5	67.7	72.9	63.3	29.2	41.7	45.8	37,5
Y	8	25 2 2021	4th	0.0	5.5	6.0	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
	0	23.2.2021		8.8	0.7	0.7	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
	1	01.3.2021	Ist	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
	2	04.3.2021		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
M	3	08.3.2021	2nd	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
R	4	11.3.2021		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
C	5	15.3.2021	3rd	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
Н	6	18.3.2021		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
	9	22.3.2021	dela	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
	0	29.3.2021	-410	9.5	0.7	0.7	0.2	17.0	16.3	16.2	16.3	77.8	84.2	59.4	73.2	27.5	25.0	29.2	29.2
	Mi	niumum		57	5.5	60	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
	M	ximum		9.0	9.0	83	92	20.0	20.2	10.0	0.0	31.2	23.2	30.8	30.1	8.3	12.5	4.2	8.3
	A	verage		73	7.5	73	7.4	17.2	177	10.0	19.2	65.1	94.4	90.8	88.3	54.2	54.2	45.8	45.8
		-0-		1.5	1.5	1.5	7.4	17.5	17.7	15,7	15,0	05.1	/1./	00.2	65.5	28.8	34.9	30.5	30.1

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ked by	Thar	

			6	S	4	3	2	1	OI. 110.						6	S	4	3	2	1	01.110.		
Max	Min	Avg	Mar-21	Feb-21	Jan-21	Dec-20	Nov-20	Oct-20		Month/Vear		Max	Min	Avg	Mar-21	Feb-21	Jan-21	Dec-20	Nov-20	Oct-20	TAOLUS I CAL	Month/Vear	
15.6	3.9	9.5	6.9	8.0	12.1	3.9	10.8	15.6	Slag mill			39.8	23.1	31.9	37.6	36.4	39.8	23.1	28.5	26.3	SPM in mg/Nm3	TI	
20.8	9.3	15.6	9.3	16.8	16.5	18.8	20.8	11.6	Coal crusher			420.0	110.0	192.8	132.0	420.0	145.0	110.0	200.0	150.0	SO2 in mg/Nm3	termal Power I	
17.7	12.4	14.2	17.7	13.8	12.4	14.6	14.2	12.7	Packing plant No-1			170.0	68.0	105.0	84.0	160.0	68.0	68.0	80.0	170.0	NOx in mg/Nm3	Plant	
18.5	11.6	15.8	15.5	16.7	16.5	16.0	18.5	11.6	Packing plant No-2			21.3	7.3	13.8	15.0	18.2	9.7	21.3	11.1	7.3	SPM in mg/Nm3	Ŧ	
14.9	8.4	12.4	10.1	12.7	14.9	13.7	14.4	8.4	Packing plant No-3			14.0	6.0	8.3	14.0	10.0	6.0	6.5	6.0	7.0	SO2 in mg/Nm3	Kiln / Raw Mi	
18.2	12.0	13.8	13.4	14.1	12.8	18.2	12.5	12.0	Packing plant No-4	SPM in mg/N	Stack locati	784.0	500.0	618.7	784.0	700.0	528.0	680.0	520.0	500.0	NOx in mg/Nm3		Stack locati
16.8	11.7	13.2	12.1	11.7	12.3	16.8	14.2	12.3	RMT System	Vm3	ons	18.8	9.3	14.0	11.6	18.8	14.9	17.7	11.9	9.3	Coal Mill Bag Filter		ons
19.0	11.4	14.9	15.2	11.4	19.0	15.9	14.1	14.0	Clinker Transport			12.0	6.2	8.8	6.2	12.0	10.2	8.0	8.1	8.3	Cooler		
15.1	10.8	12.6	13.2	15.1	12.1	12.1	12.7	10.8	Clinker Storage			18.5	7.3	12.1	9.5	15.6	18.5	14.2	7.3	7.7	LSC	SPM in mg/Nm3	
11.9	6.8	8.9	8.3	6.8	10.4	11.9	8.0	7.9	CM Sep-1	-		11.9	6.8	8.9	8.3	6.8	10.4	11.9	8.0	7.9	CM-1		
18.3	5.6	11.8	14.5	15.8	9.8	18.3	6.6	5.6	CM Sep-2			18.3	5.6	11.8	14.5	15.8	9.8	18.3	6.6	5.6	CM-2		

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

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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

	_		_	_	_				
N		9	5	4	3	2	1	SL. NO.	
Maximum Average	Minimum	Mar-21	Feb-21	Jan-21	Dec-20	Nov-20	Oct-20	MONTH/YEAR	
1570.83 1083.10	703.99	1570.8	1229.3	844.0	1173.4	977.0	704.0	Gypsum Yard	
1189.93 974.55	723.11	1189.9	786.0	1008.9	1115.4	1024.0	723.1	Slag Yard	
1202.10 1016.87	645.30	1100.0	979.5	1006.4	1202.1	1167.9	645.3	Flyash Yard	
1033.51 943.80	800.57	1013.5	968.1	980.2	1033.5	866.9	800.6	Cement mill	SPM (mi
1035.76 811.50	589.60	592.5	589.6	1030.2	1035.8	906.3	714.6	Lime stone unloading hopper	crogram/m ³)
1354.93 914.37	573.20	573.2	584.6	1354.9	1156.4	1029.6	787.5	Lime stone crushing Site	
1124.29 944.05	722.50	1078.8	1124.3	879.9	1059.5	799.3	722.5	Coal Yard	
1198.09 928.75	738.72	1076.6	943.9	738.7	1198.1	846.3	768.9	Packing Plant	

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

 $x_{-1} = x_{-1}$

Half	Half Y	Half	6	5	4	3	2	1	Tole	SI.No.
carly Avg.	early Max.	(early Min.	Mar-21	Feb-21	Jan-21	Dec-20	Nov-20	Oct-20	rance limit	Month
8.09	8.31	7.84	7.90	7.94	7.84	8.31	8.28	8.31	10	Suspended Solids
7.55	7.63	7.47	7.55	7.57	7.53	7.47	7.57	7.63	6 to 9	РН
7.38	7.93	7.12	7.12	7.13	7.17	7.38	7.57	7.93	10	BOD
24.40	25.80	23.24	23.24	24.89	23.94	24.83	25.80	23.66	50	COD
3.63	4.05	3.40	4.05	3.40	3.54	3.44	3.72	3.63	5	NH4-N
7.33	7.55	7.04	7.04	7.37	7.10	7.53	7.55	7.38	10	N-total
Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	<,230	Fecal Coliform
0.7	0.8	0.7	0.73	0.73	0.68	0.76	0.76	0.75	2	РО4-Р,

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

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	EFFLUENT WATER ANALY	SIS REPORT (Monthly Av	verage) FOR THE MONT	H 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 YearlyMaximum	55.7	0.48	8.29	Nil

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

Shridhar Checked by

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

30 31 32	30 31	30		90	28	27	26	25	24	23	22 P	21	20	19	18	17	16	15	14	13	12	=	10	9	8	7	6	5	4	3	2	-	No.	2
Truck Loading point- 4		Truck Loading point- 3	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	Vear 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	
04.0		68.8	65.3	70.5	58.4	62.6	65.5	61.7	68.5	70.6	62.8	68.5	70.4	78.6	80.5	62.5	71.5	46.5	57.5	63.4	66.8	67.5	54.8	49.7	54.6	64.7	73.5	66.8	62.5	52.8	45.4	47.2	Day (dB) Leq	Oc
0.00	2 02	52.4	55.8	60.5	48.6	50.5	52.7	50.6	53.8	61.5	51.6	55.7	63	F	E.	52.8	65.4	36.5	45.8	50.6	51.5	42.6	43.8	39.6	41.5	52.2	64.5	52.5	50.7	45.6	32.8	35.6	Night (dB) Leq	t-20
0000	2 27	69.5	66.9	68.5	58.7	60.4	66.8	62.5	70.4	68.6	63.4	66.7	68.5	76.4	78.6	47.3	55.8	46.6	48.8	50.2	58.5	54.6	60.5	43.6	53.6	69.8	67.5	58.7	66.7	52.6	44.7	47.5	Day (dB) Leq	Nov
	8 15	53.5	56.7	58.9	48.6	51.6	54.3	52.5	55.4	58.9	52.8	56.8	59.5	Ľ	1	35.5	44.6	37.5	35.8	35.5	44.6	38.5	48.5	38.2	42.5	48.5	53.4	38.5	48.5	45.5	32.5	38.8	Night (dB) Leq	v-20
00.1	60 7	65.2	61.8	71.6	57.5	64.8	69.5	64.8	67.7	71.5	64.2	77	79.9	71.5	75.5	60.1	71.5	46.5	59.8	62.2	65.7	66.8	54.7	45.9	53.5	60.6	50.5	55.8	47.2	55.7	40.8	46.2	Day (dB) Leq	Dec
	48 5	50.5	48.5	54.7	47.2	52.5	45.2	50.7	52.6	55.5	51.8	61	63	I.	Ŀ	45.5	55,4	40	45.5	40.2	40.1	41.2	38.5	36.2	41.6	50.7	43.6	41.2	37.5	40.7	30.2	33.8	Night (dB) Leq	-20
6 6 7 6	5 59	68.3	68.6	60.5	62.8	64.8	67.5	63.7	66.4	62.8	67.5	70.2	73.6	76.5	78.2	52.5	58.8	48.6	54.2	50.6	58.7	50.44	56.8	47.5	54.6	66.5	74.2	70.8	66.7	53.8	44.5	46.7	Day (dB) Leq	Jan-
	57.4	60.8	57.5	50.8	53.8	56.5	57.3	54.7	56.6	53.8	58.6	64.8	66.7	Ī.	ı	46.5	48.6	38.6	44.8	40,7	46.3	47.5	49.7	38.5	42.3	50.8	65.5	61.5	57.6	48.5	33.2	36.7	Night I (dB) Leq	21
04.0	646	67.4	65.6	63.7	61.6	65.5	66.7	60.8	65.3	63.5	68.8	72.5	74.6	75.4	77.6	54.6	60.4	48.2	55.6	52.5	60.5	51.2	57.6	48.2	55.5	65.4	73.6	67.6	65.8	54.7	45.3	48.5	Day (dB) Leq (Feb-
5/10	1 11	59.5	56.8	51.5	54.4	55.8	58.4	52.5	55.4	54.4	57.5	65.4	65.8	r	1	48.7	50.5	37.5	45.7	43.5	48.2	46.7	48.5	37.5	43.6	53.6	64.5	60.2	58.5	48.8	35.4	37.5	Night I dB) Leq	21
00.4	V 27	67.5	66.2	68.3	57.8	60.5	64.3	63.5	67.6	68.5	63.5	65.8	70.2	76.6	78.5	63.6	68.9	48.2	58.6	64.4	67.5	68.8	55.7	48.5	52.8	68.5	74.6	68.6	60.5	56.4	46.7	48.6	Day (dB) Leq (Mar-
34.3	c 73	50.3	56.5	58.7	49.5	49.8	54.6	51.7	54.8	56.2	52.8	50.4	64	Ŭ	1	55.4	66.5	36.5	48.7	52.8	54.5	46.7	44.6	38.5	43.6	55.8	65.5	53.4	52.5	48.8	34.5	36.7	Night I dB) Leq	21
00.1	60 7	65.2	61.8	60.5	57.5	60.4	64.3	60.8	65.3	62.8	62.8	65.8	68.5	71.5	75.5	47.3	55.8	46.5	48.8	50.2	58.5	50.44	54.7	43.6	52.8	60.6	50.5	55.8	47.2	52.6	40.8	46.2	Day (dB) Leq (Minim
10.0	282	50.3	48.5	50.8	47.2	49.8	45.2	50.6	52.6	53.8	51.6	50.4	59.5	0	0	35.5	44.6	36.5	35.8	35.5	40.1	38.5	38.5	36.2	41.5	48.5	43.6	38.5	37.5	40.7	30.2	33.8	Night I dB) Leq	um
	65.5	69.5	68.6	71.6	62.8	65.5	69.5	64.8	70.4	71.5	68.8	77	79.9	78.6	80.5	63.6	71.5	48.6	59.8	64.4	67.5	68.8	60.5	49.7	55.5	69.8	74.6	70.8	66.7	56.4	46.7	48.6	Day (dB) Leq (Maxin
	57.5	60.8	57.5	60.5	54.4	56.5	58.4	54.7	56.6	61.5	58.6	65.4	66.7	0	0	55.4	66.5	40	48.7	52.8	54.5	47.5	49.7	39.6	43.6	55.8	65.5	61.5	58.5	48.8	35.4	38.8	Night (dB) Leq	num
01.1	64 4	67.8	65.7	67.2	59.5	63.1	66.7	62.8	67.7	67.6	65.0	70.1	72.9	75.8	78.2	56.8	64.5	47.4	55.8	57.2	63.0	59.9	56.7	47.2	54.1	65.9	69.0	64.7	61.6	54.3	44.6	47.5	Day (dB) Leq	Aver
	53.0	54.5	55.3	55.9	50.4	52.8	53.8	52.1	54.8	56.7	54.2	59.0	63.7	£	1	47.4	55.2	37.8	44.4	43.9	47.5	43.9	45.6	38.1	42.5	51.9	59.5	51.2	50.9	46.3	33.1	36.5	Night (dB) Leq	age

Half Yearly Noise monitoring report of Cement & Power Plant for the month of October-2020 to March-2021



Station: AA	QMS-1 Periodica	ally: October 202	0 to March 2021 Ty	/pe: AVG Monthi
Data & Time	PM 10	PM2.5	S02	NO2
Date of Little		iin/m3	ua/m3	µg/m3
		Red		10
Oct-20	61.61	23.22	Analyzer Problem	72
Nov-20	85.54	55.61	Analyzer Problem	14
	Applyzor Drohlem	Analyzer Problem	10.65	15.33
			97 75	Analyzer Problem
Jan-21	18.41	40.20	01.11	
Feb-21	Analyzer Problem	45.67	13.4	Analyzer Problem
Mar-21	Analyzer Problem	48.79	12.98	6.87
Minimum	61.61	23.22	10.65	6.87
NULL COLOR	00 +00	0c+-20	Dec-20	Mar-21
IVIIIDAIC	001-20			1000
Maximum	85.54	55.61	13.4	15.33
MaxDate	Nov-20	Nov-20	Feb-21	Dec-20
A CONTRACTOR	10 34	12 11	12 13	12.05
BAN	10.21	11.01		D
	D	ົກ	σ	σ

Station: AA	QMS2 Periodica	Illy: October 202	0 to March 2021 Ty	pe: AVG Month	y [15 Mins.]
Dato & Timo	PM 10	PM2.5	S02	NO2	со
Date of Line	in in	ind/m3	ua/m3	µq/m3	mg/m3
		PE 74	19.000	Analyzer Problem	1.12
Oct-20	60.64	20.71			Anolision Drot
Nov-20	74.81	38.23		Analyzer Problem	Analyzer Prot
000 00	Applyzer Drohlem	Analyzer Problem		Analyzer Problem	1.42
		17 24		14 65	1.01
Jan-21	04.02	10.11		10.05	1 22
Feb-21	79.75	50.54		CG'RI	1.20
Mar-21	81.65	35.63	Applyzer Drohlam	19.53	1.51
Minimum	60 64	25.71		14.65	1.01
IVIIIIIIIIIIIIIII	0.4 20	Oct-20		Jan-21	Jan-21
MINDate	UCI-ZU	001-20		1000	1 51
Maximum	84.62	50.54		CG.GL	1.01
MaxDate	Jan-21	Feb-21		Feb-21	Mar-21
Ava	76.29	39.48		18.04	1.20
:	n	מ		0	σ

		Stati	on: CEMS Periodic	ally: October	2020 to March	2021 Type:	AVG Monthly [15 Mir	1s.]1			
	Raw_mill PM	Raw_mill -SO2	Raw_mill-NOx	CPP-PM	CPP-SO2	CPP-Nox	CEMENT_MILL_3-PM	Cooler-PM	COALMILL-PM	Cement_mill_1-PM	Cementmill_2-
Date & Time				ma/Nm2	mn/Nm3	mg/Nm3	ma/Nm3	mg/Nm3	mg/Nm3	mg/Nm3	mg/Nm3
	mg/Nm3	mg/Nm3	cunvibu	CIIINI/BIII	out the state	autorikin.		1	1 4 4	1 07	CT C
0-1-00	CV O	10.43	431.91	28.51	123.25	116.77	12.96	6.27	7.11	1.07	2.12
Uct-20	0.40	10.70			1 01	177 05	6 01	5 57	8 25	4.97	3.16
Nov-20	9.03	9.36	501.94	18.87	/1.81	177.22	0.91	1	0.20		VV C
2	1/ 01	8 65	514.96	21.96	80.68	95.04	2.44	5.66	10.11	2.11	3.44
Dec-20	14.71	0.00			10101	101 07	10 56	2 22	15 27	1.97	4.15
Jan-21	16.77	7.31	714.01	36.37	197.94	124.85	00.71	0.00	10.01		10
	17 10	36 41	לכל לע	37.23	241.02	114.02	8.13	6.88	16.84	1.39	77
Feb-21	15.48	00.17	00.000			00 74	744	L 11	14 22	5 47	5.17
Mar-21	16.57	40.58	721.07	37.54	109.9	15.76	/.14	0.11	CO.4T	U.17	0 70
19141 2 1	CF 0	7 2 4	431 01	18.87	71.81	92.51	2.44	5.57	1.11	1.07	6.12
Minimum	0.45	1.01	101.01		10.00	Mar 04	Dec-200	Nov-20	Oct-20	Oct-20	Oct-20
MinDate	Oct-20	Jan-21	Oct-20	Nov-20	NON-70	I 7-IPINI	000-20	NOV LO	10.07	F 47	12
Maximum	16 77	40.58	721.07	37.54	241.02	124.85	12.96	0.00	10.04	0.4	
IVIGATION	10.1.1	NO: 01	Mar 21	Mar-21	Feb-21	Jan-21	Oct-20	Jan-21	Feb-21	Mar-21	17-0aJ
MaxDate	Jan-21	Mat-21	IVIdI-21	Ividi-21	1 20 1 20	444 00	36.8	R 71	12 09	2.93	5.11
Avg	13.53	15.62	589.91	30.08	137.43	111.02	0.00	0.01	2011	ס	6
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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	756.512
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	
Fly ash Silo's and ash handling systems	112.54
Emission Monitoring equipment (including online emission	5.04
monitoring equipment (CEMS) at sources and ambient air quality	
in the vicinity) and laboratory	
Green Belt Development, Sewage Treatment plant and Water	28.15
Harvesting Schemes	
for plant	
Extra expenditure on green purchase (Purchase of green fuel,	2369.44
recycled materials or any other such purchase (AFR purchase, Fly	
ash and Slag purchase) to reduce environmental footprint	
Other environmental management costs (AFR system operation.	307.09
odour control, environmental training/Award, SNCR system CPP.	
Environmental License Fees)	
TOTAL (Rs in Lakhs)	3578.77
 in the vicinity) and laboratory Green Belt Development, Sewage Treatment plant and Water Harvesting Schemes for plant 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 Other environmental management costs (AFR system operation, odour control, environmental training/Award, SNCR system CPP, Environmental License Fees) TOTAL (Rs in Lakhs) 	28.15 2369.44 307.09 3578.77