



SHREE CEMENT LTD.

(Unit : Karnataka Cement Project)

An ISO 9001,14001,50001 & OHS 18001 Certified Company

Village Benkanhalli and Kodla, Post : KODLA - 585 222

Post Box No. 01, Tq. Sedam, Dist. Kalaburagi. Karnataka

CIN No. : L26943RJ 1979PLC001935, Website : www.shreecement.com

SCL / KCP/ENV/2019-20/70

Date: 20/09/2019

**The Member Secretary,
Karnataka State Pollution Control Board,
Parisara Bhavan, No. 49, 4th & 5th Floor,
Church Street, Bangalore-560001,
Karnataka.**

Sir,

Sub: Environment Statement Report under Environment Protection Act, 1986 of Integrated Cement Plant of Capacity- Cement-4.0 Million TPA, Clinker-2.4 Million TPA, Captive Power Plant- 44MW, Waste Heat Recovery Power Plant -30 MW and Residential Colony for the year of 2018-19 by M/s Shree cement Ltd (Unit: Karnataka Cement Project), Village Benkanhalli and Kodla, Taluk-Sedam, District: Kalaburagi, Karnataka.

Ref: Combined Consent Order No: AWH – 307929 PCB ID: 34945 Dated: 26/09/2018.

Dear Sir,

Kindly refer to the above subject matter and referred letter. We are submitting herewith the Annual Environmental Statement for the year 2018-19.

This is for your kind information please.

Thanking you,
Yours faithfully,
For SHREE CEMENT LIMITED,

(Arvindkumar Patil)
Unit Head

Copy:

The Environmental Officer, Karnataka State Pollution Control Board, Flat No. F-101, Green Park, Karnataka Housing Board Colony, Ring Road, Shaikh Roza, Kalaburagi – 585101.

ANNEXURE

ENVIRONMENTAL STATEMENT FORM-V

(See rule 14)

Environmental Statement for the financial year ending with 31st March 2018

PART-A

i	Name and address owner/ occupier of the industry operation or process.	Shri. Arvind Kumar Patil, Unit Head M/s. Shree Cement Ltd (Unit: Karnataka Cement Project), Village- Benkanhalli & Kodla, Taluk-Sedam, District-Kalaburagi Karnataka
ii	Industry category Primary-(STC Code) Secondary- (STC Code)	Red Category
iii	Production capacity – Units.	Clinker- 2.4 Million TPA Cement- 4.0 Million TPA WHRS - 30 MW
iv	Year of establishment	2018
v	Date of the last environmental statement submitted	24-09-2018

PART -B

Water and Raw Material Consumption

I. Water consumption in m³/d

Process :141 KLD (WHRS)

Cooling and dust suppression : 292 KLD (Cement plant)

Domestic : 452 KLD(Plant & Colony)

Name of Products	Process water consumption per unit of products	
	During the previous financial year (2017-18)	During the current financial Year (2018-19)
1. Cement	NA as the Plant was commissioned in Dec 2018	0.042 KL/MT of Cement
2. Clinker		0.063 KL/MT of Clinker
3. WHRS		Not Commissioned

II. Raw material consumption

Name of raw materials	Name of Products	Consumption of raw material per unit of output	
		During the previous financial year (2017-18)	During the current financial year (2018-19)
Gypsum	Cement	NA as the Plant was commissioned in June 2018	0.0513
Fly Ash			0.2246
Clinker			0.7241
Limestone	Clinker	NA as the Plant was commissioned in Dec 2018	1.3871
Fuel (Pet Coke/Coal)			0.1396
Additives (Iron Ore, Red Mud)			0.1500

PART-C

Pollution discharged to environment/unit of output
(Parameter as specified in the consent issued)

Pollutants	Quantity of Pollutants discharged (mass/day)	Concentration of Pollutants discharged (mass/volume)	Percentage of variation from prescribed standards with reasons.
(a) Water	Nil	<p>The plant is being operated on dry process technology, there is no liquid effluent is generated from cement manufacturing.</p> <p>The domestic waste water generated from the office toilet and canteen is being treated in STP and treated water is used for greenbelt development in the plant premises. Treated domestic effluent is enclosed as Annexure-I.</p>	No variation. Meeting the requirements of prescribed standards.
(b) Air	Nil	Ambient Air Quality and Stack monitoring	The Stack emission is well within the statutory limits.

		details are enclosed as Annexure-II & Annexure-III.	
(c)	Noise	Noise Monitoring details are enclosed as Annexure-IV.	The Ambient Air Quality values are well within the statutory limits.

PART-D

HAZARDOUS WASTES

(As specified under Hazardous Wastes (Management & Handling Rules, 1989).

Hazardous Wastes	Total Quantity (Kg)	
	During the previous financial year (2017-18)	During the current financial year (2018-19)
1. From Process	Not in operation during FY-2017-18.	Nil
2. From Pollution Control Facilities	Not in operation during FY-2017-18.	NA

PART - E **SOLID WASTE**

Solid Wastes	Total Quantity (Kg)	
	During the previous financial year (2017-18)	During the current financial year (2018-19)
a. From process	NA	No waste. Collection of solid waste from Pollution control equipment's, process etc. is fed back into the system and reutilized.
b. From Pollution Control Facility	NA	No solid waste generated from Cement plant Pollution control facilities, as entire material collected in the PCF is recycled back in to the Process directly through the system.
c. Quantity recycled or re- utilized within the unit.	NA	100%

PART – F

Please specify the characteristics (in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

Battery Wastes:

A specified under batteries (Management and Handling) Amendment Rules, 2010, we have purchased following new batteries of different categories.

Number of new batteries of different categories purchased from the manufacturer / importer / dealer or any other agency.	During current financial Year April 2018 to March 2019	
Category:	No. of Batteries	Approximate Weight (In Metric Tonnes)
(i) Automotive		
a) Four wheeler	8	0.254
b) Two wheeler	NIL	NIL
(ii) Industrial		
a) UPS	390	3.642
b) Motive Power	NIL	NIL
c) Stand –by	NIL	NIL
(iii) Others	7	0.014
Total	405	3.656

Number of used batteries of categories sent to manufacturer / dealer / importer / registered recycler / or any other agency.	During current financial Year April 2018 to March 2019	
Common for cement plant & Mines		
Category:	(i) No. of Batteries	(ii) Approximate Weight (In Metric Tonnes)
(i) Automotive	NIL	NIL
a) Four wheeler		
b) Two wheeler		
(ii) Industrial		
a) UPS	NIL	NIL
b) Motive Power		

c) Stand -by		
(iii) Others	NIL	NIL
Total	NIL	NIL

PART-G

Impact of the pollution control measures taken on conservation of natural resources and consequently on the cost of production.

M/s Shree Cement Limited (Unit: Karnataka Cement Plant) is operated on dry process technology, which is cost effective and environmentally clean technology. The advantage of dry process is also in fuel economy. The stack emission from the plant are controlled by equipment like ESP & Bag house. Bag filter installed at various material transfer points to clean the process and arrest the fugitive emissions. The particulate matter collected in the pollution control equipment is recycled / reused in process and neutralizing the cost of operation of pollution control equipment and hence no cost impact on the production cost.

A separate Environment Management Cell exists with well qualified personnel to ensure regular monitoring of pollution control equipment's and to meet present and future requirements as required for EMS - ISO - 14001 that includes statutory compliance and management of environment.

PART - H

Additional measures/investment proposal for environmental protection including abatement of pollution.

Greenbelt development and tree plantation is our ongoing activity within the plant area and outside of the area. Every year plantation activities are being done to increase the bio-diversity of the area. Till 31st March 2019, we have covered 10.32 Ha, around 15,972 nos. of trees with 15,484 nos. survival with survival rate of 95%. During the FY 2019-20 we have a target of planting around 15000 nos of tress species.

1. Water conservation initiatives by utilizing waste water within the plant.
2. Further greenery development at Plant and Mines by planting 20000 Nos trees of mixed variety in 2019-20.
3. Identifying new sources of Alternate Fuels for maximizing the utilization of Alternate fuels at all Kilns.
4. Focus on usage of non-conventional energy like Solar energy/ wind energy.
5. AFR yard etc.
6. OAAQMS & CEMS data integration through single Service provider.
8. Remote calibration facility for Cement plant CEMS.

PART -I
MISCELLANEOUS:

Any other particulars in respect of environmental protection and abatement of pollution.

1. We have full-fledged Environment Department with three separate cells, one for monitoring, one for maintenance of pollution control equipment and one for green belt development.
2. Regular monitoring of stack emissions, ambient air quality, ambient noise and ground water quality & levels. Data analysis is being done to further improve the environment quality of the plant area.
3. Maintenance Department is doing performing regular checking and scheduled maintenance of all the pollution control devices i.e. bag filters etc.
4. Civil and Personal & Administration departments are taking care of entire House keeping of the Plant area.
5. To further reduce fugitive emissions, we have procured a big size truck mounted and 02 Nos of small 3D TPS sweeping machines for regular sweeping and cleaning of paved area. All the material transfer belts are covered and transfer points are equipped with pollution control equipment. Truck parking area and vehicle movement area are concreted to avoid any fugitive emissions.
6. Horticulture section is taking care of tree plantation and green belt development. Every year we are growing planting tree species inside and outside of the plant area.
7. We have installed Continuous Emission Monitoring System (CEMS) to display the data on CPCB and KSPCB web sites.
8. Domestic waste water is being treated at Sewage Treatment Plant (STP). This treated water is being utilized in plantation & gardening.
9. We are maintaining Zero Liquid Discharge (ZLD) from our premises.
10. We create environment awareness for all our stakeholders through meetings, training programs, day celebrations etc.

Annexure-I
Treated Domestic Effluent Report

Vimta Labs Limited
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142, IDA Phase II, Cherlapally
Hyderabad-500 051, India
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ISSUED TO:

SHREE CEMENT LIMITED
(UNIT KARNATAKA CEMENT PROJECT)
VILLAGE KODLA,
TALUKA SEDAM KALABURAGI,
KARNATAKA.

Report Number : VLL/VLS/18/05187/005
Issued Date : 2018-06-26
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4188
And Date : 2018-06-15

Kind Attn. : Mr. J. SUNIL
Designation : Sr. Engineer-Environment

Page 2 of 3

SAMPLE PARTICULARS : STP Wastewater

Sample Registration Date : 2018-06-20 Sampling Date : 2018-06-19
Analysis Starting Date : 2018-06-20 Analysis Completion Date : 2018-06-26

SAMPLE COLLECTED BY VIMTA LABS LTD

TEST REPORT

S.No	Parameters	Unit	STP Outlet @ Temporary Town Ship	STP Outlet @ 92 Seater at Plant
1	pH	-	7.18	7.02
2	Total Suspended Solids	mg/l	22	10
3	Total Dissolved Solids	mg/l	1630	1790
4	Dissolved oxygen	mg/l	2.8	3.6
5	Chemical Oxygen Demand	mg/l	140	120
5	Biological Oxygen Demand	mg/l	20	18
6	Fecal Coliform	mg/l	2.5×10^4	2.1×10^4
7	Ammonical Nitrogen as NH ₃	mg/l	16.4	20.6
8	Total Nitrogen as N	mg/l	28.6	32.4
9	Sulphide as S	mg/l	<0.01	<0.01
10	Chloride as Cl	mg/l	436.6	452.8
11	Total Residual Chlorine	mg/l	<0.2	<0.2
12	Oil & Grease	mg/l	<1.0	<1.0

Dr. SubbaReddy Mallampati
Group Leader-Environment

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ISSUED TO:

SHREE CEMENT LIMITED
(UNIT KARNATAKA CEMENT PROJECT)
VILLAGE KODLA,
TALUKA SEDAM KALABURAGI,
KARNATAKA.

Report Number : VLL/VLS/18/06318/003
Issued Date : 2018-07-18
Your Ref : SCL/CC/ARC/KODLA/18-19/VO-4188.
And Date : 2018-06-15

Kind Attn. : Mr. J. SUNIL
Designation : Sr. Engineer Environment

Page 1 of 1

SAMPLE PARTICULARS : STP Wastewater

Sample Registration Date : 2018-07-12 Sampling Date : 2018-07-11
Analysis Starting Date : 2018-07-12 Analysis Completion Date : 2018-07-18

SAMPLE COLLECTED BY VIMTA LABS LTD

TEST REPORT

S.No	Parameters	Unit	STP Outlet @ Temporary Town Ship	STP Outlet @ 92 Seater at Plant
1	pH	-	7.22	7.14
2	Total Suspended Solids	mg/l	26	12
3	Total Dissolved Solids	mg/l	1710	1830
4	Dissolved oxygen	mg/l	2.6	3.4
5	Chemical Oxygen Demand	mg/l	130	110
5	Biological Oxygen Demand	mg/l	19	17
6	Fecal Coliform	mg/l	2.3×10^4	1.9×10^4
7	Ammonical Nitrogen as NH ₃	mg/l	18.3	21.2
8	Total Nitrogen as N	mg/l	29.9	31.3
9	Sulphide as S	mg/l	<0.01	<0.01
10	Chloride as Cl	mg/l	442.8	478.6
11	Total Residual Chlorine	mg/l	<0.2	<0.2
12	Oil & Grease	mg/l	<1.0	<1.0

Dr. Subba Reddy Mallampati
Group Leader-Environment

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ISSUED TO:

**SHREE CEMENT LIMITED
(UNIT KARNATAKA CEMENT PROJECT)
VILLAGE KODLA,
TALUKA SEDAM KALABURAGI,
KARNATAKA.**

Report Number : VLL/VLS/18/08741/001
Issued Date : 2018-08-
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4188.
And Date : 2018-06-15

Kind Attn. : Mr. J. SUNIL
Designation : Sr. Engineer-Environment

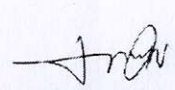
Page 1 of 1

SAMPLE PARTICULARS : STP Wastewater

Sample Registration Date	: 2018-08-30	Sampling Date	: 2018-08-29
Analysis Starting Date	: 2018-08-30	Analysis Completion Date	: 2018-09-04
SAMPLE COLLECTED BY VIMTA LABS LTD			

TEST REPORT

S.No	Parameters	Unit	STP Outlet @ Temporary Town Ship	STP Outlet @ 92 Seater at Plant
1	pH	-	7.06	7.26
2	Total Suspended Solids	mg/l	24	14
3	Total Dissolved Solids	mg/l	1660	1740
4	Dissolved oxygen	mg/l	2.8	3.1
5	Chemical Oxygen Demand	mg/l	150	90
5	Biological Oxygen Demand	mg/l	21	15
6	Fecal Coliform	mg/l	2.2×10^4	1.8×10^4
7	Ammonical Nitrogen as NH ₃	mg/l	19.4	22.8
8	Total Nitrogen as N	mg/l	26.6	28.8
9	Sulphide as S	mg/l	<0.01	<0.01
10	Chloride as Cl	mg/l	449.8	478.8
11	Total Residual Chlorine	mg/l	<0.2	<0.2
12	Oil & Grease	mg/l	<1.0	<1.0


Dr. Subba Reddy Mallampati
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**SHREE CEMENT LIMITED
(UNIT KARNATAKA CEMENT PROJECT)
VILLAGE KODLA,
TALUKA SEDAM KALABURAGI,
KARNATAKA.**

Report Number : VLL/VLS/18/07181/002
Issued Date : 2018-09-22
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4188.
And Date : 2018-06-15

Kind Attn. : Mr. J. SUNIL
Designation : Sr. Engineer-Environment

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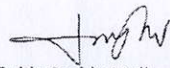
SAMPLE PARTICULARS : STP Wastewater

Sample Registration Date : 2018-09-19 Sampling Date : 2018-09-18
Analysis Starting Date : 2018-09-19 Analysis Completion Date : 2018-09-22

SAMPLE COLLECTED BY VIMTA LABS LTD

TEST REPORT

S.No	Parameters	Unit	STP Outlet @ Temporary Town Ship	STP Outlet @ 92 Seater at Plant
1	pH	-	7.32	7.21
2	Total Suspended Solids	mg/l	20	18
3	Total Dissolved Solids	mg/l	1530	1880
4	Dissolved oxygen	mg/l	3.1	3.4
5	Chemical Oxygen Demand	mg/l	110	100
5	Biological Oxygen Demand	mg/l	16	14
6	Fecal Coliform	mg/l	2.4×10^4	2.1×10^4
7	Ammonical Nitrogen as NH ₃	mg/l	17.8	20.6
8	Total Nitrogen as N	mg/l	27.3	28.9
9	Sulphide as S	mg/l	<0.01	<0.01
10	Chloride as Cl	mg/l	416.8	510.8
11	Total Residual Chlorine	mg/l	<0.2	<0.2
12	Oil & Grease	mg/l	<1.0	<1.0


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(UNIT KARNATAKA CEMENT PROJECT)
VILLAGE KODLA,
TALUKA SEDAM KALABURAGI,
KARNATAKA.

Report Number : VLL/VLS/18/08043/002
Issued Date : 2018-11-05
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4188.
And Date : 2018-06-15

Kind Attn. : Mr. J. SUNIL
Designation : Sr. Engineer-Environment

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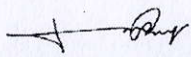
SAMPLE PARTICULARS : STP Wastewater

Sample Registration Date : 2018-10-08 Sampling Date : 2018-10-06
Analysis Starting Date : 2018-10-11 Analysis Completion Date : 2018-10-22

SAMPLE COLLECTED BY VIMTA LABS LTD

TEST REPORT

S.No	Parameters	Unit	STP Outlet @ Temporary Town Ship	STP Outlet @ 92 Seater at Plant
1	pH	-	7.12	7.25
2	Total Suspended Solids	mg/l	17	15
3	Total Dissolved Solids	mg/l	1512	1678
4	Dissolved oxygen	mg/l	3.3	3.7
5	Chemical Oxygen Demand	mg/l	90	85
5	Biological Oxygen Demand	mg/l	15	12
6	Fecal Coliform	mg/l	2.2×10^4	1.8×10^4
7	Ammonical Nitrogen as NH ₃	mg/l	16.2	18.7
8	Total Nitrogen as N	mg/l	23.7	27.8
9	Sulphide as S	mg/l	<0.01	<0.01
10	Chloride as Cl	mg/l	406.1	478.2
11	Total Residual Chlorine	mg/l	<0.2	<0.2
12	Oil & Grease	mg/l	<1.0	<1.0


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(UNIT KARNATAKA CEMENT PROJECT)
VILLAGE KODLA,
TALUKA SEDAM KALABURAGI,
KARNATAKA.

Report Number : VLL/VLS/18/10006/002
Issued Date : 2018-12-04
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4188.
And Date : 2018-06-15

Kind Attn. : Mr. J. SUNIL
Designation : Sr. Engineer-Environment

Page 1 of 1


SAMPLE PARTICULARS : STP Wastewater

Sample Registration Date : 2018-11-23 Sampling Date : 2018-11-22
Analysis Starting Date : 2018-11-23 Analysis Completion Date : 2018-12-03

SAMPLE COLLECTED BY VIMTA LABS LTD

TEST REPORT

S.No	Parameters	Unit	STP Outlet @ Temporary Town Ship	STPOutlet @ 92 Seater at Plant
1	pH	-	7.23	7.12
2	Total Suspended Solids	mg/l	17	19
3	Total Dissolved Solids	mg/l	1503	1088
4	Dissolved oxygen	mg/l	2.8	3.1
5	Chemical Oxygen Demand	mg/l	95	105
5	Biological Oxygen Demand	mg/l	18	15
6	Fecal Coliform	mg/l	2.0×10^4	1.9×10^4
7	Ammonical Nitrogen as NH ₃	mg/l	18.7	16.2
8	Total Nitrogen as N	mg/l	23.7	29.8
9	Sulphide as S	mg/l	<0.01	<0.01
10	Chloride as Cl	mg/l	406.7	508.4
11	Total Residual Chlorine	mg/l	<0.2	<0.2
12	Oil & Grease	mg/l	<1.0	<1.0


Dr. SubbaReddy Mallampati
Group Leader-Environment

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ISSUED TO:

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(UNIT KARNATAKA CEMENT PROJECT)
VILLAGE KODLA,
TALUKA SEDAM KALABURAGI,
KARNATAKA.

Report Number : VLL/VLS/18/11824/005
Issued Date : 2019-01-05
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4188.
And Date : 2018-06-15

Kind Attn. : Mr. J. SUNIL
Designation : Sr. Engineer-Environment

Page 1 of 1


SAMPLE PARTICULARS : STP Wastewater

Sample Registration Date : 2018-12-31 Sampling Date : 2018-12-29
Analysis Starting Date : 2018-12-31 Analysis Completion Date : 2019-01-05

SAMPLE COLLECTED BY VIMTA LABS LTD

TEST REPORT

S.No	Parameters	Unit	STP Outlet @ Canteen	STPOutlet @ 92 Seater at Plant
1	pH	-	7.01	7.0
2	Total Suspended Solids	mg/l	18	12
3	Total Dissolved Solids	mg/l	1215	1024
4	Dissolved oxygen	mg/l	3.9	4.1
5	Chemical Oxygen Demand	mg/l	84	98
5	Biological Oxygen Demand	mg/l	15	17
6	Fecal Coliform	mg/l	2.1×10^4	1.8×10^4
7	Ammonical Nitrogen as NH ₃	mg/l	14.7	17.6
8	Total Nitrogen as N	mg/l	22.6	20.5
9	Sulphide as S	mg/l	<0.01	<0.01
10	Chloride as Cl	mg/l	434.5	413.2
11	Total Residual Chlorine	mg/l	<0.2	<0.2
12	Oil & Grease	mg/l	<1.0	<1.0


Dr. SubbaReddy Mallampati
Group Leader-Environment

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ISSUED TO:

SHREE CEMENT LIMITED
(UNIT KARNATAKA CEMENT PROJECT)
VILLAGE KODLA,
TALUKA SEDAM KALABURAGI,
KARNATAKA.

Report Number : VLL/VLS/18-19/11011/05
Issued Date : 2019-02-05
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4188.
And Date : 2018-06-15

Kind Attn. : Mr. J. SUNIL
Designation : Sr. Engineer-Environment

Page 1 of 1


SAMPLE PARTICULARS : STP Wastewater

Sample Registration Date : 2019-01-31 Sampling Date : 2019-01-31
Analysis Starting Date : 2019-02-01 Analysis Completion Date : 2019-02-05

SAMPLE COLLECTED BY VIMTA LABS LTD

TEST REPORT

S.No	Parameters	Unit	STP Outlet @ Canteen	STPOutlet @ 92 Seater at Plant
1	pH	-	7.24	7.11
2	Total Suspended Solids	mg/l	23	13
3	Total Dissolved Solids	mg/l	1373	1124
4	Dissolved oxygen	mg/l	5.6	3.2
5	Chemical Oxygen Demand	mg/l	97	73
5	Biological Oxygen Demand	mg/l	24	12
6	Fecal Coliform	mg/l	2.7×10^4	2.1×10^4
7	Ammonical Nitrogen as NH ₃	mg/l	17.3	15.4
8	Total Nitrogen as N	mg/l	28.2	21.2
9	Sulphide as S	mg/l	<0.01	<0.01
10	Chloride as Cl	mg/l	466.1	418.1
11	Total Residual Chlorine	mg/l	<0.2	<0.2
12	Oil & Grease	mg/l	<1.0	<1.0


Dr. SubbaReddy Mallampati
Group Leader-Environment

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(UNIT KARNATAKA CEMENT PROJECT)
VILLAGE KODLA,
TALUKA SEDAM KALABURAGI,
KARNATAKA.

Report Number : VLL/VLS/18-19/11231/05
Issued Date : 2019-03-11
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4188.
And Date : 2018-06-15

Kind Attn. : Mr. J. SUNIL
Designation : Sr. Engineer-Environment

Page 1 of 1


SAMPLE PARTICULARS : STP Wastewater

Sample Registration Date	: 2019-02-28	Sampling Date	: 2019-02-27
Analysis Starting Date	: 2019-02-28	Analysis Completion Date	: 2019-03-11

SAMPLE COLLECTED BY VIMTA LABS LTD

TEST REPORT

S.No	Parameters	Unit	STP Outlet @ Canteen	STPOutlet @ 92 Seater at Plant
1	pH	-	7.49	7.28
2	Total Suspended Solids	mg/l	28	19
3	Total Dissolved Solids	mg/l	1416	1156
4	Dissolved oxygen	mg/l	5.6	4.9
5	Chemical Oxygen Demand	mg/l	104	83
5	Biological Oxygen Demand	mg/l	25	14
6	Fecal Coliform	mg/l	2.8×10^4	2.4×10^4
7	Ammonical Nitrogen as NH ₃	mg/l	19.7	14.2
8	Total Nitrogen as N	mg/l	25.7	22.6
9	Sulphide as S	mg/l	<0.01	<0.01
10	Chloride as Cl	mg/l	453.2	422.2
11	Total Residual Chlorine	mg/l	<0.2	<0.2
12	Oil & Grease	mg/l	<1.0	<1.0


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Group Leader-Environment

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SHREE CEMENT LIMITED
(UNIT KARNATAKA CEMENT PROJECT)
VILLAGE KODLA,
TALUKA SEDAM KALABURAGI,
KARNATAKA.

Report Number : VLL/VLS/18-19/16018/05
Issued Date : 2019-04-12
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4188.
And Date : 2018-06-15

Kind Attn. : Mr. J. SUNIL
Designation : Sr. Engineer-Environment

Page 1 of 1


SAMPLE PARTICULARS : STP Wastewater

Sample Registration Date : 2019-03-30 Sampling Date : 2019-03-29
Analysis Starting Date : 2019-04-01 Analysis Completion Date : 2019-04-12

SAMPLE COLLECTED BY VIMTA LABS LTD

TEST REPORT

S.No	Parameters	Unit	STP Outlet @ Canteen	STPOutlet @ 92 Seater at Plant
1	pH	-	7.46	7.31
2	Total Suspended Solids	mg/l	26	15
3	Total Dissolved Solids	mg/l	1356	1156
4	Dissolved oxygen	mg/l	5.2	3.8
5	Chemical Oxygen Demand	mg/l	92	86
5	Biological Oxygen Demand	mg/l	20	15
6	Fecal Coliform	mg/l	2.9×10^4	2.2×10^4
7	Ammonical Nitrogen as NH ₃	mg/l	16.9	18.5
8	Total Nitrogen as N	mg/l	25.8	23.7
9	Sulphide as S	mg/l	<0.01	<0.01
10	Chloride as Cl	mg/l	456.4	425.1
11	Total Residual Chlorine	mg/l	<0.2	<0.2
12	Oil & Grease	mg/l	<1.0	<1.0


Dr. SubbaReddy Mallampati
Group Leader-Environment

Annexure-II
Ambient Air Quality Monitoring

SCL AAQ analysis report:

Location Name	Month	PM2.5 ($\mu\text{g}/\text{m}^3$)	PM10 ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	NO _x ($\mu\text{g}/\text{m}^3$)
AAQ-1 Near West Plant and Mine Boundary	April-18	30.1	49.8	9.3	10.6
	May-18	34.3	60.4	10.7	15.8
	June-18	39.3	61.9	11.3	14.6
	July-18	35.8	55.7	8.6	11.3
	Aug.-18	36.2	58.1	10.2	13.8
	Sept.-18	37.6	59.4	9.4	11.2
	Oct-18	38.1	60.3	10.3	12.4
	Nov-18	37.1	59.2	10.1	11.9
	Dec-18	40.8	63.6	9.8	11.3
	Jan-19	38.9	62.8	9.2	10.4
	Feb-19	40.1	64.3	10.1	11.2
	March-19	37.2	62.6	9.8	11.6
AAQ-2 Near East Side Plant and Mine Boundary	April-18	25.6	50.8	7.2	10.3
	May-18	26.3	48.6	7.8	11.6
	June-18	28.1	50.3	9.4	12.7
	July-18	27.8	51.8	7.6	10.9
	Aug.-18	30.8	53.4	8.1	11.6
	Sept.-18	32.4	55.1	9.7	11.1
	Oct-18	34.5	57.3	8.6	10.4
	Nov-18	33.8	56.1	8.1	9.8
	Dec-18	36.4	60.8	9.2	10.6
	Jan-19	35.1	62.6	9.7	11.3
	Feb-19	36.8	61.2	9.1	10.8
	March-19	32.8	59.7	8.9	10.5
AAQ-3 Near North side Boundary wall	April-18	21.6	45.8	7.1	10.3
	May-18	22.8	48.1	7.9	11.5
	June-18	25.3	50.6	8.9	10.7
	July-18	24.6	50.2	7.4	9.2
	Aug.-18	25.1	52.4	8.6	10.1
	Sept.-18	27.6	50.9	9.2	12.6
	Oct-18	26.8	51.3	8.9	11.8
	Nov-18	27.9	51.8	9.1	12.1
	Dec-18	29.1	53.7	9.9	11.7
	Jan-19	28.3	55.2	9.2	10.4

AAQ-4 Near South Mine Boundary	Feb-19	30.8	58.7	8.9	10.8
	March-19	29.2	56.5	9.1	11.3
	April-18	20.5	45.1	6.6	8.7
	May-18	21.2	46.7	7.1	9.5
	June-18	20.8	44.6	6.8	8.4
	July-18	21.7	44.9	7.5	8.9
	Aug.-18	22.3	45.7	8.1	10.4
	Sept.-18	21.4	46.9	9.3	11.8
	Oct-18	22.3	47.8	8.6	10.5
	Nov-18	23.1	48.6	9.1	11.6
	Dec-18	25.4	54.2	9.4	10.8
	Jan-19	23.2	51.6	8.3	9.4
	Feb-19	25.1	53.6	8.9	10.1
	March-19	24.8	51.7	8.2	9.9

M/s Vimta Lab Limited AAQ Analysis Report:

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VILLAGE KODLA,
TALUKA SEDAM KALABURAGI,
KARNATAKA.

Report Number : VLL/VLS/18/05187/003
Issued Date : 2018-06-26
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4188.
And Date : 2018-06-15

Kind Attn. : Mr. J. SUNIL
Designation : Sr. Engineer-Environment

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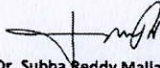
SAMPLE PARTICULARS : AMBIENT AIR QUALITY MONITORING

Sample Registration Date : 2018-06-20 Sampling Date : 2018-06-19
Analysis Starting Date : 2018-06-20 Analysis Completion Date : 2018-06-26
Test Required : PM_{2.5}, PM₁₀, SO₂, NO₂, and CO.
SAMPLE COLLECTED BY VIMTA LABS LTD

TEST REPORT

PM_{2.5}, PM₁₀, SO₂, NO₂, is monitored on 24 hrs. Basis & CO is monitored on 8 hrs basis.

Sr. No.	Location Details	PM _{2.5} (µg/m ³)	PM ₁₀ (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	CO µg/m ³		
						I	II	III
1	Near Switch Yard-1	30.2	52.3	12.6	13.5	224	309	251
2	Near east side plant & mine boundary	28.1	49.3	12.8	13.9	219	315	244
3	Near Crusher	41.3	64.2	13.2	14.6	228	352	264
4	Near Mines south side	32.1	56.3	12.8	14.5	219	341	256
Limits As Per NAAQS		60	100	80	80	2000		
Test Methods		Gravimetric Method		Improved West & Geake	Modified Jacob & Hochheiser Method	NDIR spectroscopy method		


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Report Number : VLL/VLS/18/11824/007
Issued Date : 2019-01-05
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4188.
And Date : 2018-06-15

Kind Attn. : Mr. J. SUNIL
Designation : Sr. Engineer-Environment

Page 1 of 1

SAMPLE PARTICULARS : AMBIENT AIR QUALITY MONITORING

Sample Registration Date : 2018-12-31 Sampling Date : 2018-12-28
Analysis Starting Date : 2018-12-31 Analysis Completion Date : 2019-01-05
Test Required : PM_{2.5}, PM₁₀, SO₂, NO₂, and CO.

SAMPLE COLLECTED BY VIMTA LABS LTD

TEST REPORT

Sr. No.	Location Details	PM _{2.5} (µg/m ³)	PM ₁₀ (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	CO µg/m ³		
						I	II	III
1	Near Switch Yard-1	28.7	65.8	14.1	17.1	251	336	267
2	Near east side plant & mine boundary	26.3	63.4	13.7	15.7	228	327	284
3	Near Crusher	31.5	68.7	14.2	17.8	237	371	294
4	Near Mines south side	30.6	70.1	15.7	19.5	242	351	276
Limits As Per NAAQS		60	100	80	80	2000		
Test Methods		Gravimetric Method		Improved West & Geake	Modified Jacob & Hochheiser Method	NDIR spectroscopy method		

PM_{2.5}, PM₁₀, SO₂, NO₂, is monitored on 24 hrs. Basis & CO is monitored on 8 hrs basis.

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CIN : L24110TG1990PLC011977

Annexure-III
Stack Monitoring Report
Cement Mill Stack

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Report Number : VLL/VLS/18/08043/003
Issued Date : 2018-11-05
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4188.
And Date : 2018-06-15

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SAMPLE PARTICULARS : STACK ATTACHED TO CEMENT MILL


Test Required : Particulate Matter

Sample Collected date : 2018/10/07

SAMPLE COLLECTED BY VIMTA LABS LTD.

TEST REPORT

Parameter	UOM	Method Adopted	RESULTS
Diameter of Stack	m	-	4.0
Area of stack	m ²	-	12.57
Flue Gas Temperature	°C	-	98
Velocity	m/sec	IS:11255 PART (III)	6.7
Moisture Content, V/V	%	IS:11255 PART (III)	3.2
Particulate Matter	mg/Nm ³	IS: 11255 PART (I) 1985	15.2



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Report Number : VLL/VLS/18/10006/003
Issued Date : 2018-12-04
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4188.
And Date : 2018-06-15

Page 1 of 1

SAMPLE PARTICULARS : STACK ATTACHED TO CEMENT MILL

Test Required : Particulate Matter
Sample Collected date : 2018/11/22
SAMPLE COLLECTED BY VIMTA LABS LTD.

TEST REPORT

Parameter	UOM	Method Adopted	RESULTS
Diameter of Stack	m	-	4.0
Area of stack	m ²	-	12.57
Flue Gas Temperature	°C	-	91
Velocity	m/sec	IS:11255 PART (III)	7.1
Moisture Content, V/V	%	IS:11255 PART (III)	3.1
Particulate Matter	mg/Nm ³	IS: 11255 PART (I) 1985	14.2

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VILLAGE KODLA,
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KARNATAKA.**

Report Number : VLL/VLS/18/11415/001
Issued Date : 2019-01-05
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4188.
And Date : 2018-06-15

Page 1 of 1

SAMPLE PARTICULARS : STACK ATTACHED TO CEMENT MILL


Test Required : Particulate Matter

Sample Collected date : 2018/12/18

SAMPLE COLLECTED BY VIMTA LABS LTD.

TEST REPORT

Parameter	UOM	Method Adopted	RESULTS
Diameter of Stack	m	-	4.0
Area of stack	m ²	-	12.56
Flue Gas Temperature	°C	-	55
Velocity	m/sec	IS:11255 PART (III)	5.56
Moisture Content, V/V	%	IS:11255 PART (III)	4.2
Particulate Matter	mg/Nm ³	IS: 11255 PART (I) 1985	5.8


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KARNATAKA.

Report Number : VLL/VLS/18-19/11011/04
Issued Date : 2019-02-02
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-
4188/Amd-1.
And Date : 2018-06-15

Kind Attn. : Mr. J. Sunil
Designation : Sr. Engineer-Environment

Page 1 of 1

SAMPLE PARTICULARS : STACK ATTACHED TO CEMENT MILL


Test Required : Particulate Matter

Sample Collected date : 2019/01/30

SAMPLE COLLECTED BY VIMTA LABS LTD.

TEST REPORT

Parameter	UOM	Method Adopted	RESULTS
Diameter of Stack	m	-	4.0
Area of stack	m ²	-	12.56
Flue Gas Temperature	°C	-	66
Velocity	m/sec	IS:11255 PART (III)	7.92
Moisture Content, V/V	%	IS:11255 PART (III)	3.5
Particulate Matter	mg/Nm ³	IS: 11255 PART (I) 1985	10.2


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Report Number : VLL/VLS/18/11231/01
Issued Date : 2019-03-11
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4188.
And Date : 2018-06-15

Page 1 of 1

SAMPLE PARTICULARS : STACK ATTACHED TO CEMENT MILL


Test Required : Particulate Matter

Sample Collected date : 2019/02/20

SAMPLE COLLECTED BY VIMTA LABS LTD.

TEST REPORT

Parameter	UOM	Method Adopted	RESULTS
Diameter of Stack	m	-	4.0
Area of stack	m ²	-	12.56
Flue Gas Temperature	°C	-	77
Velocity	m/sec	IS:11255 PART (III)	5.0
Moisture Content, V/V	%	IS:11255 PART (III)	4.5
Particulate Matter	mg/Nm ³	IS: 11255 PART (I) 1985	8.2


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Issued Date : 2019-04-12
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4188/Amd-1.
And Date : 2018-06-15

Kind Attn. : Mr. J. Sunil

Designation : Sr. Engineer-Environment

Page 1 of 1

SAMPLE PARTICULARS : STACK ATTACHED TO CEMENT MILL


Test Required : Particulate Matter

Sample Collected date : 2019/03/30

SAMPLE COLLECTED BY VIMTA LABS LTD.

TEST REPORT

Parameter	UOM	Method Adopted	RESULTS
Diameter of Stack	m	-	4.0
Area of stack	m ²	-	12.56
Flue Gas Temperature	°C	-	61
Velocity	m/sec	IS:11255 PART (III)	7.84
Moisture Content, V/V	%	IS:11255 PART (III)	3.8
Particulate Matter	mg/Nm ³	IS: 11255 PART (I) 1985	6.9


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Raw Mill Stack

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KARNATAKA.

Report Number : VLL/VLS/18/11824/001
Issued Date : 2019-01-05
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4188/Amd-1.
And Date : 2018-12-10

Page 1 of 1

SAMPLE PARTICULARS : STACK ATTACHED TO RAW MILL KILN

Test Required : Particulate Matter, Sulphur dioxide, Oxide of Nitrogen;
Sample Collected date : 2018/12/28
SAMPLE COLLECTED BY VIMTA LABS LTD.

TEST REPORT

Parameter	UOM	Method Adopted	RESULTS
Diameter of Stack	m	-	5.6
Area of stack	m ²	-	24.64
Flue Gas Temperature	°C	-	141
Velocity	m/sec	IS:11255 PART (III)	17.36
Flow	Nm ³ /Sec	IS:11255 PART (III)	305.15
Oxygen	%	Flue Gas Analyzer	9.2
Moisture Content, V/V	%	IS:11255 PART (III)	2.2
Particulate Matter	mg/Nm ³	IS: 11255 PART (I) 1985	7.4
Sulphur dioxide	mg/Nm ³	IS: 11255 PART (I) 1985	<3.4
Oxide of Nitrogen	mg/Nm ³	IS: 11255 PART (I) 1985	532

PM, SO₂ and NO_x corrected to 10% oxygen

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VILLAGE KODLA,
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KARNATAKA.

Report Number : VLL/VLS/18-19/11011/01
Issued Date : 2019-02-02
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4188/Amd-1.
And Date : 2018-12-10

Kind Attn. : Mr. J. Sunil
Designation : Sr. Engineer-Environment

Page 1 of 1


SAMPLE PARTICULARS : STACK ATTACHED TO RAW MILL KILN

Test Required : Particulate Matter, Sulphur dioxide, Oxide of Nitrogen;
Sample Collected date : 2019/01/31
SAMPLE COLLECTED BY VIMTA LABS LTD.

TEST REPORT

Parameter	UOM	Method Adopted	RESULTS
Diameter of Stack	m	-	5.6
Area of stack	m ²	-	24.64
Flue Gas Temperature	°C	-	160
Velocity	m/sec	IS:11255 PART (III)	18.72
Flow	Nm ³ /Sec	IS:11255 PART (III)	319.05
Oxygen	%	Flue Gas Analyzer	8.8
Moisture Content, V/V	%	IS:11255 PART (III)	2.6
Particulate Matter	mg/Nm ³	IS: 11255 PART (I) 1985	8.4
Sulphur dioxide	mg/Nm ³	IS: 11255 PART (I) 1985	<3.4
Oxide of Nitrogen	mg/Nm ³	IS: 11255 PART (I) 1985	578

PM, SO₂ and NO_x corrected to 10% oxygen


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KARNATAKA.

Report Number : VLL/VLS/18/11231/03
Issued Date : 2019-03-11
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4188/Amd-1.
And Date : 2018-12-10

Page 1 of 1


SAMPLE PARTICULARS : STACK ATTACHED TO RAW MILL KILN

Test Required : Particulate Matter, Sulphur dioxide, Oxide of Nitrogen;
Sample Collected date : 2019/02/27
SAMPLE COLLECTED BY VIMTA LABS LTD.

TEST REPORT

Parameter	UOM	Method Adopted	RESULTS
Diameter of Stack	m	-	5.6
Area of stack	m ²	-	24.64
Flue Gas Temperature	°C	-	149
Velocity	m/sec	IS:11255 PART (III)	15.4
Flow	Nm ³ /Sec	IS:11255 PART (III)	294.56
Oxygen	%	Flue Gas Analyzer	9.8
Moisture Content, V/V	%	IS:11255 PART (III)	2.7
Particulate Matter	mg/Nm ³	IS: 11255 PART (I) 1985	6.5
Sulphur dioxide	mg/Nm ³	IS: 11255 PART (I) 1985	<3.4
Oxide of Nitrogen	mg/Nm ³	IS: 11255 PART (I) 1985	551

PM, SO₂ and NO_x corrected to 10% oxygen


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Report Number : VLL/VLS/18-19/16018/01
Issued Date : 2019-04-12
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-
4188/Amd-1.
And Date : 2018-12-10

Kind Attn. : Mr. J. Sunil
Designation : Sr. Engineer-Environment

Page 1 of 1


SAMPLE PARTICULARS : STACK ATTACHED TO RAW MILL KILN

Test Required : Particulate Matter, Sulphur dioxide, Oxide of Nitrogen;
Sample Collected date : 2019/03/28
SAMPLE COLLECTED BY VIMTA LABS LTD.

TEST REPORT

Parameter	UOM	Method Adopted	RESULTS
Diameter of Stack	m	-	5.6
Area of stack	m ²	-	24.64
Flue Gas Temperature	°C	-	151
Velocity	m/sec	IS:11255 PART (III)	18.58
Flow	Nm ³ /Sec	IS:11255 PART (III)	318.96
Oxygen	%	Flue Gas Analyzer	8.6
Moisture Content, V/V	%	IS:11255 PART (III)	2.8
Particulate Matter	mg/Nm ³	IS: 11255 PART (I) 1985	8.9
Sulphur dioxide	mg/Nm ³	IS: 11255 PART (I) 1985	<3.4
Oxide of Nitrogen	mg/Nm ³	IS: 11255 PART (I) 1985	596

PM, SO₂ and NO_x corrected to 10% oxygen


Dr. Subba Reddy Mallampati
Group Leader- Environment

Coal Mill Stack

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ISSUED TO:

SHREE CEMENT LIMITED
(UNIT KARNATAKA CEMENT PROJECT)
VILLAGE KODLA,
TALUKA SEDAM KALABURAGI,
KARNATAKA.

Report Number : VLL/VLS/18/11824/002
Issued Date : 2019-01-05
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4188/Amd-1.
And Date : 2018-12-10


Page 1 of 1

SAMPLE PARTICULARS : STACK ATTACHED TO COAL MILL

Test Required : Particulate Matter
Sample Collected date : 2018/12/29
SAMPLE COLLECTED BY VIMTA LABS LTD.

TEST REPORT

Parameter	UOM	Method Adopted	RESULTS
Diameter of Stack	m	-	1.6
Area of stack	m ²	-	2.01
Flue Gas Temperature	°C	-	68
Velocity	m/sec	IS:11255 PART (III)	13.2
Flow	Nm ³ /Sec	IS:11255 PART (III)	23.127
Moisture Content, V/V	%	IS:11255 PART (III)	1.5
Particulate Matter	mg/Nm ³	IS: 11255 PART (I) 1985	9.6


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VILLAGE KODLA,
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Report Number : VLL/VLS/18/11011/03
Issued Date : 2019-02-02
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-
4188/Amd-1.
And Date : 2018-12-10

Kind Attn. : Mr. J. Sunil
Designation : Sr. Engineer-Environment

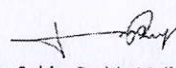
Page 1 of 1

SAMPLE PARTICULARS : STACK ATTACHED TO COAL MILL

Test Required : Particulate Matter
Sample Collected date : 2019/01/31
SAMPLE COLLECTED BY VIMTA LABS LTD.

TEST REPORT

Parameter	UOM	Method Adopted	RESULTS
Diameter of Stack	m	-	1.6
Area of stack	m ²	-	2.01
Flue Gas Temperature	°C	-	81
Velocity	m/sec	IS:11255 PART (III)	14.9
Flow	Nm ³ /Sec	IS:11255 PART (III)	24.65
Moisture Content, V/V	%	IS:11255 PART (III)	2.12
Particulate Matter	mg/Nm ³	IS: 11255 PART (I) 1985	13.7


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Report Number : VLL/VLS/18/11231/02
Issued Date : 2019-03-11
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4188/Amd-1.
And Date : 2018-12-10

Page 1 of 1

SAMPLE PARTICULARS : STACK ATTACHED TO COAL MILL


Test Required : Particulate Matter

Sample Collected date : 2019/02/27

SAMPLE COLLECTED BY VIMTA LABS LTD.

TEST REPORT

Parameter	UOM	Method Adopted	RESULTS
Diameter of Stack	m	-	1.6
Area of stack	m ²	-	2.01
Flue Gas Temperature	°C	-	71
Velocity	m/sec	IS:11255 PART (III)	11.7
Flow	Nm ³ /Sec	IS:11255 PART (III)	21.654
Moisture Content, V/V	%	IS:11255 PART (III)	1.4
Particulate Matter	mg/Nm ³	IS: 11255 PART (I) 1985	7.6


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Report Number : VLL/VLS/18/16018/03
Issued Date : 2019-04-12
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-
4188/Amd-1.
And Date : 2018-12-10

Kind Attn. : Mr. J. Sunil
Designation : Sr. Engineer-Environment

Page 1 of 1

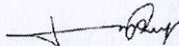
SAMPLE PARTICULARS : STACK ATTACHED TO COAL MILL

Test Required : Particulate Matter
Sample Collected date : 2019/03/29

SAMPLE COLLECTED BY VIMTA LABS LTD.

TEST REPORT

Parameter	UOM	Method Adopted	RESULTS
Diameter of Stack	m	-	1.6
Area of stack	m ²	-	2.01
Flue Gas Temperature	°C	-	78
Velocity	m/sec	IS:11255 PART (III)	14.4
Flow	Nm ³ /Sec	IS:11255 PART (III)	24.48
Moisture Content, V/V	%	IS:11255 PART (III)	1.67
Particulate Matter	mg/Nm ³	IS: 11255 PART (I) 1985	11.4


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Cooler Stack

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KARNATAKA.

Report Number : VLL/VLS/18/11824/003
Issued Date : 2019-01-05
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4188/Amd-1.
And Date : 2018-12-10

Page 1 of 1

SAMPLE PARTICULARS : STACK ATTACHED TO ESP COOLER

Test Required : Particulate Matter

Sample Collected date : 2018/12/29

SAMPLE COLLECTED BY VIMTA LABS LTD.

TEST REPORT

Parameter	UOM	Method Adopted	RESULTS
Diameter of Stack	m	-	4.3
Area of stack	m ²	-	14.52
Flue Gas Temperature	°C	-	245
Velocity	m/sec	IS:11255 PART (III)	21.48
Flow	Nm ³ /sec	IS:11255 PART (III)	177.16
Moisture Content, V/V	%	IS:11255 PART (III)	3.2
Particulate Matter	mg/Nm ³	IS: 11255 PART (I) 1985	6.3

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KARNATAKA.

Report Number : VLL/VLS/18-19/11011/02
Issued Date : 2019-02-02
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4188/Amd-1.
And Date : 2018-12-10

Kind Attn. : Mr. J. Sunil
Designation : Sr. Engineer-Environment

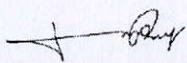
Page 1 of 1

SAMPLE PARTICULARS : STACK ATTACHED TO ESP COOLER

Test Required : Particulate Matter
Sample Collected date : 2019/01/31
SAMPLE COLLECTED BY VIMTA LABS LTD.

TEST REPORT

Parameter	UOM	Method Adopted	RESULTS
Diameter of Stack	m	-	4.3
Area of stack	m ²	-	14.52
Flue Gas Temperature	°C	-	249
Velocity	m/sec	IS:11255 PART (III)	18.62
Flow	Nm ³ /sec	IS:11255 PART (III)	152.89
Moisture Content, V/V	%	IS:11255 PART (III)	2.7
Particulate Matter	mg/Nm ³	IS: 11255 PART (I) 1985	8.9


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Report Number : VLL/VLS/18/11824/04
Issued Date : 2019-03-11
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-
4188/Amd-1.
And Date : 2018-12-10

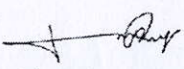
Page 1 of 1

SAMPLE PARTICULARS : STACK ATTACHED TO ESP COOLER

Test Required : Particulate Matter
Sample Collected date : 2019/02/28
SAMPLE COLLECTED BY VIMTA LABS LTD.

TEST REPORT

Parameter	UOM	Method Adopted	RESULTS
Diameter of Stack	m	-	4.3
Area of stack	m ²	-	14.52
Flue Gas Temperature	°C	-	259
Velocity	m/sec	IS:11255 PART (III)	19.4
Flow	Nm ³ /sec	IS:11255 PART (III)	166.8
Moisture Content, V/V	%	IS:11255 PART (III)	3.9
Particulate Matter	mg/Nm ³	IS: 11255 PART (I) 1985	7.3


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Report Number : VLL/VLS/18-19/16018/02
Issued Date : 2019-04-12
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4188/Amd-1.
And Date : 2018-12-10

Kind Attn. : Mr. J. Sunil
Designation : Sr. Engineer-Environment

Page 1 of 1

SAMPLE PARTICULARS : STACK ATTACHED TO ESP COOLER


Test Required : Particulate Matter

Sample Collected date : 2019/03/29

SAMPLE COLLECTED BY VIMTA LABS LTD.

TEST REPORT

Parameter	UOM	Method Adopted	RESULTS
Diameter of Stack	m	-	4.3
Area of stack	m ²	-	14.52
Flue Gas Temperature	°C	-	257
Velocity	m/sec	IS:11255 PART (III)	19.03
Flow	Nm ³ /sec	IS:11255 PART (III)	153.85
Moisture Content, V/V	%	IS:11255 PART (III)	2.9
Particulate Matter	mg/Nm ³	IS: 11255 PART (I) 1985	5.4


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CIN : L24110TG1990PLC011977

Annexure-IV
Noise Monitoring

AMBIENT NOISE MONITORING REPORT FROM APR,2018 TO MAR,2019(Leq-dB(A))

Location → Months ↓	Near Switch Yard-I		Near East side Plan and Mine Boundary		Near CCR	
	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time
June,18	54.2	50.8	53.6	49.8	50.8	48.2
July,18	56.3	52.4	58.2	54.5	53.5	51.4
August,18	63.8	61.4	64.7	60.9	66.4	64.1
September,18	63.2	59.3	65.2	61.3	63.1	60.8
October,18	61.8	56.4	65.4	59.8	67.8	61.3
November,18	62.3	58.9	61.9	56.7	65.2	59.8
December,18	62.9	56.4	63.8	59.1	61.6	54.5
January,19	61.8	59.3	62.9	60.8	60.2	56.1
February,19	60.2	54.5	62.8	57.1	59.8	55.7
March,19	63.7	58.2	66.7	56.5	58.6	53.2

Location → Months ↓	Near Crusher		Near Cement Mill	
	Day Time	Night Time	Day Time	Night Time
June,18	58.9	56.2	55.7	53.1
July,18	62.3	56.6	68.6	64.5
August,18	68.3	65.6	70.1	68.5
September,18	69.4	63.1	71.2	68.8
October,18	70.2	66.1	69.8	64.3
November,18	69.3	61.2	70.3	65.6
December,18	71.2	65.8	69.1	63.6
January,19	69.4	66.7	72.3	65.8
February,19	72.8	69.3	70.1	66.4
March,19	70.8	66.7	72.1	68.3

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VILLAGE KODLA,
TALUKA SEDAM KALABURAGI,
KARNATAKA.

Report Number : VLL/VLS/18/05187/002
Issued Date : 2018-06-26
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4188.
And Date : 2018-06-15

Kind Attn. : Mr. J. SUNIL

Designation : Sr. Engineer-Environment

Page 1 of 1

SAMPLE PARTICULARS : AMBIENT NOISE MONITORING

Sample Registration Date : 2018-06-20 Sampling Date : 2018-05-19

Test Required : L_{10} , L_{50} , L_{90} , L_{eq} , L_{day} , L_{night} & L_{dn} .

SAMPLE COLLECTED BY VIMTA LABS LTD

TEST REPORT

S.No.	Location Details	L_{10}	L_{50}	L_{90}	L_{eq}	L_{day}	L_{night}	L_{dn}
1	Near Switch Yard-1	50.6	46.7	43.0	47.7	48.5	44.8	52.0
2	Near east side plant & mine boundary	49.8	45.9	42.5	46.8	47.9	44.1	51.3
3	Near Crusher	65.3	61.4	58.0	62.3	63.4	59.6	66.8
4	Near Cement Mill	61.2	57.3	53.9	58.2	59.3	55.5	62.7
5	Near CCR Building	59.6	55.7	52.3	56.6	57.7	53.9	61.1

Dr. Subba Reddy Mallampati
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KARNATAKA.

Report Number : VLL/VLS/18/11824/006
Issued Date : 2019-01-05
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4188.
And Date : 2018-06-15

Kind Attn. : Mr. J. SUNIL
Designation : Sr. Engineer-Environment

SAMPLE PARTICULARS : AMBIENT NOISE MONITORING

Page 1 of 1

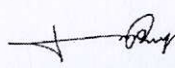
Sample Registration Date : 2018-12-31 Sampling Date : 2018-12-28 & 2018-12-29

Test Required : L10, L50, L90, Leq, Lday, Lnight & Ldn.

SAMPLE COLLECTED BY VIMTA LABS LTD

TEST REPORT

S.No.	Location Details	L10	L50	L90	Leq	Lday	Lnight	Ldn
1	Near Switch Yard-1	52.7	48.8	45.1	49.8	50.6	46.9	54.1
2	Near east side plant & mine boundary	50.2	46.3	42.9	47.2	48.3	44.5	51.7
3	Near Crusher	62.7	58.8	55.4	59.7	60.8	57.0	64.2
4	Near Cement Mill	60.9	57.0	53.6	57.9	59.0	55.2	62.4
5	Near CCR Building	57.9	54.0	50.6	54.9	56.0	52.2	59.4


Dr. Subba Reddy Mallampati
Group Leader - Environment