



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/2020-21/ 117

Date: 24/08/2020

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 2019-20 by M/s Shree cement Ltd (Unit: Karnataka Cement Project), Village Benkar halli 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 2019-20.

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, Ping Road, Shaikh Roza, Kalaburagi – 585101.

ANNEXURE

ENVIRONMENTAL STATEMENT FORM-V (See rule 14)

Environmental Statement for the financial year ending with 31st March 2020

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	20-09-2019

PART –B

Water and Raw Material Consumption

I. Water consumption in m³/d

Process : 98 KLD (WHRS)

Cooling and dust suppression : 207 KLD (Cement Plant)

Domestic : 148 KLD (Plant and Township)

Name of Products	Process water consumption per unit of products	
	During the previous financial Year (2018-19)	During the current financial Year (2019-20)
1. Cement	0.042 KL/MT of Cement	0.030 KL/MT of Cement
2. Clinker	0.063 KL/MT of Clinker	0.019 KL/MT of Clinker
3. WHRS	Not Commissioned	0.0006 KL/KWH of WHRS power generation

II. Raw material consumption

Name of raw materials	Name of Products	Consumption of raw material per unit of output	
		During the previous financial Year (2018-19)	During the current financial year (2019-20)
Gypsum	Cement	0.0513	0.0505
Fly Ash		0.2246	0.2075
Clinker		0.7241	0.7334
Limestone	Clinker	1.3871	1.3777
Fuel (Pet Coke/Coal)		0.1396	0.1048
Additives (Iron Ore, Red Mud)		0.1500	0.1356

III. Power Consumption (KWH/T of Product):

Product Name	During Previous Financial Year (2018-19)	During Current Financial Year (2019 -20)
Cement	88.68	77.34
Clinker	64.62	58.28

IV. Total Production (MT):

Product Name	During Previous Financial Year (2018-19)	During Current Financial Year (2019 -20)
Cement	362709	1532227
Clinker	320622	1180759
WHR	Not Commissioned	50322000 KWH

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. Test result of 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 is being done regularly, details are enclosed as Annexure-II & Annexure-III .	The Ambient Air Quality and Stack emission are well within the statutory limits.
(c)	Noise	Noise level Monitoring is being done regularly, details are enclosed as Annexure-IV .	The Ambient Noise level 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 (2018-19)	During the current financial year (2019-20)
1. From Process	Nil	2 KL
2. From Pollution Control Facilities	NA	NA

PART – E
SOLID WASTE

Solid Wastes		Total Quantity (Kg)	
		During the previous financial year (2018-19)	During the current financial year (2019-20)
a.	From process	Nil	Nil
b	From Pollution Control Facility	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.	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	1. Quantity recycled or re- utilized within the unit.	100%	100%
	2. Sold	Nil	Nil
	3. Disposed	Nil	Nil

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 2019 to March 2020	
Category:	No. of Batteries	Approximate Weight (In Metric Tonnes)
(i) Automotive		
a) Four wheeler	16	0.356
b) Two wheeler	NIL	NIL
(ii) Industrial		
a) UPS	127	1.84
b) Motive Power	NIL	NIL
c) Stand -by	NIL	NIL
(iii) Others	Nil	Nil
Total	143	2.196

Number of used batteries of categories sent to manufacturer / dealer / importer / registered recycler / or any other agency.	During current financial Year April 2019 to March 2020	
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

Hazardous Waste

Cement manufacturing is based on "Dry Process" technology. No Hazardous waste

is generated from the process except used oil which is drained from machineries / equipment. The used oil & old lead acid batteries are sold to CPCB authorized recyclers.

Bio-Medical Wastes

Bio-medical waste generated during current financial year April-2019 to March-2020 under the Bio-medical waste (management & Handling) Rules 2016, are as follows.

Period	Bio Medical Waste Quantity (Kg) as per Color Coding			
	Red	Blue	Yellow	White
April 2018 to March 2019	1.35	-	5.8	10 g
April 2019 to March 2020	25	-	33	-

E-Wastes

	Total Quantity	
	During the previous financial year (2018-19)	During the current financial year (2019-20)
From Process	Nil	Nil
From Pollution Control Facility	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.

Waste Heat Recovery Systems (WHRS) is installed at Pre-heater and cooler section for trapping gasses of high temperatures are being used for generation of Green Power which has resulted in conservation of fuel, reduction of GHG emission and water conservation.

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 also. Every year plantation activities are being done to increase the bio-diversity of the area. Till 31st March 2020, we have covered 23.36 Ha area under plantation & greenbelt, with 35,052 trees, having survival rate of 95%.

Other additional measures adopted area as follows:

1. Water conservation initiatives by utilizing waste water within the plant.
2. Further greenery development at Plant and Mines by planting 15000 Nos trees of mixed variety in 2020-21.
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. CAAQMS & CEMS data integration through single Service provider.

PART –I

MISCELLANEOUS:

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

1. We have full-fledged Environment Department for development of greenbelt, monitoring & maintenance of pollution control equipment and environmental management at site.
2. Regular monitoring is being done for stack emissions, ambient air quality, ambient noise level and ground water quality. Data analysis is being done for further improve of the environment quality of the plant area.
3. Maintenance department is doing regular checking and scheduled maintenance of all the pollution control devices.
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 generated from office toilet and canteen is being treated in Sewage Treatment Plant (STP) and 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.
11. Installed NOx mitigation system in cement kiln as pollution control measure to achieve prescribed standards.
12. Repairing and filling of media as sand and gravels in all the RWH structures. Regular maintenance of RWH structures is being carried out.
13. Covered shed and silos have been construed for raw material storage.
14. Piezometer is constructed for monthly water level monitoring.

Annexure-I
Treated Domestic Effluent Repot

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherlapally
Hyderabad-500 051, India
T : +91 40 2726 4141
F : +91 40 2726 3657



ISSUED TO:

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

Report Number : VLL/VLS/19-20/00802/05
Issued Date : 2019-04-27
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 : 2019-04-19 Sampling Date : 2019-04-17
Analysis Starting Date : 2019-04-20 Analysis Completion Date : 2019-04-27

SAMPLE COLLECTED BY VIMTA LABS LTD

TEST REPORT

S.No	Parameters	Unit	STP Outlet @ Canteen	STPOutlet @ 92 Seater at Plant
1	pH	-	7.66	7.45
2	Total Suspended Solids	mg/l	29	19
3	Total Dissolved Solids	mg/l	1379	1185
4	Dissolved oxygen	mg/l	5.9	4.3
5	Chemical Oxygen Demand	mg/l	98	91
5	Biological Oxygen Demand	mg/l	26	19
6	Fecal Coliform	mg/l	2.8×10^4	2.4×10^4
7	Ammonical Nitrogen as NH3	mg/l	18.3	19.9
8	Total Nitrogen as N	mg/l	26.7	25.1
9	Sulphide as S	mg/l	<0.01	<0.01
10	Chloride as Cl	mg/l	460.7	433.5
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

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherlapally
Hyderabad-500 051, India
T : +91 40 2726 4141
F : +91 40 2726 3657



ISSUED TO:

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

Report Number : VLL/VLS/19-20/02375/02
Issued Date : 2019-05-22
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4188.
And Date : 2018-05-15

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

Page 1 of 1

SAMPLE PARTICULARS : STP Wastewater

Sample Registration Date : 2019-05-27 Sampling Date : 2019-05-25
Analysis Starting Date : 2019-05-28 Analysis Completion Date : 2019-06-20

SAMPLE COLLECTED BY VIMTA LABS LTD

TEST REPORT

S.No	Parameters	Unit	STP Outlet @ Canteen	STPOutlet @ 92 Seater at Plant
1	pH	-	5.85	7.24
2	Total Suspended Solids	mg/l	86.5	34.2
3	Total Dissolved Solids	mg/l	1620	1510
4	Dissolved oxygen	mg/l	<0.1	4.2
5	Chemical Oxygen Demand	mg/l	1120	160
5	Biological Oxygen Demand	mg/l	320	20
6	Fecal Coliform	mg/l	2.6×10^4	2.1×10^4
7	Ammonical Nitrogen as NH ₃	mg/l	32.4	12.8
8	Total Nitrogen as N	mg/l	52.6	16.4
9	Sulphide as S	mg/l	0.12	<0.02
10	Chloride as Cl	mg/l	356.2	312.5
11	Total Residual Chlorine	mg/l	<0.2	<0.2
12	Oil & Grease	mg/l	5.0	<1.0

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Registered Office
142, IDA Phase II, Cherlepalay
Hyderabad-500 051, Telangana, India
T : +91 40 2726 4141
F : +91 40 2726 3657



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

Report Number : VLL/VLS/19-20/00802/008
Issued Date : 2019-07-16
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4932.
And Date : 2019-05-28

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

Page 1 of 1


SAMPLE PARTICULARS : STP Wastewater

Sample Registration Date : 2019-06-24 Sampling Date : 2019-06-22
Analysis Starting Date : 2019-06-24 Analysis Completion Date : 2019-07-10

SAMPLE COLLECTED BY VIMTA LABS LTD

TEST REPORT

S.No	Parameters	Unit	STP Outlet @ Canteen	STPOutlet @ 92 Seater at Plant
1	pH	-	7.53	7.32
2	Total Suspended Solids	mg/l	31	21
3	Total Dissolved Solids	mg/l	1357	1158
4	Dissolved oxygen	mg/l	5.7	4.0
5	Chemical Oxygen Demand	mg/l	93	86
5	Biological Oxygen Demand	mg/l	22	16
6	Fecal Coliform	mg/l	2.2×10^4	2.1×10^4
7	Ammonical Nitrogen as NH ₃	mg/l	17.2	16.8
8	Total Nitrogen as N	mg/l	22.5	23.6
9	Sulphide as S	mg/l	<0.01	<0.01
10	Chloride as Cl	mg/l	451.8	422.7
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

Vimta Labs Limited

Registered Office
142, IDA Phase II, Cherlepally
Hyderabad-500 051, Telangana, India
T : +91 40 2726 4141
F : +91 40 2726 3657

**ISSUED TO:**

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

Report Number : VLL/VLS/19-20/06229/005
Issued Date : 2019-09-03
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4932
And Date : 2019-05-28

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

Page 1 of 1


SAMPLE PARTICULARS : STP Wastewater

Sample Registration Date	: 2019-08-31	Sampling Date	: 2019-08-30
Analysis Starting Date	: 2019-08-31	Analysis Completion Date	: 2019-09-03

SAMPLE COLLECTED BY VIMTA LABS LTD

TEST REPORT

S.No	Parameters	Unit	STP Outlet @ Canteen	STP Outlet @ 92 Seater at Plant
1	pH	-	7.48	7.62
2	Total Suspended Solids	mg/l	34	26
3	Total Dissolved Solids	mg/l	1458	1246
4	Dissolved oxygen	mg/l	5.1	4.8
5	Chemical Oxygen Demand	mg/l	110	120
5	Biological Oxygen Demand	mg/l	22	19
6	Fecal Coliform	mg/l	1.2×10^4	1.4×10^4
7	Ammonical Nitrogen as NH ₃	mg/l	16.4	17.8
8	Total Nitrogen as N	mg/l	31.2	24.5
9	Sulphide as S	mg/l	<0.01	<0.01
10	Chloride as Cl	mg/l	486.5	452.8
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

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherlepaty
Hyderabad-500 051, Telangana, India
T : +91 40 2726 4141
F : +91 40 2726 3657



ISSUED TO:

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

Report Number : VLL/VLS/19-20/10599/005
Issued Date : 2019-12-14
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4932
And Date : 2019-05-28

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

Page 1 of 1


SAMPLE PARTICULARS : STP Wastewater

Sample Registration Date : 2019-11-23 Sampling Date : 2019-11-22
Analysis Starting Date : 2019-11-23 Analysis Completion Date : 2019-12-14

SAMPLE COLLECTED BY VIMTA LABS LTD

TEST REPORT

S.No	Parameters	Unit	STP Outlet @ Canteen	STPOutlet @ 92 Seater at Plant
1	pH	-	7.45	7.51
2	Total Suspended Solids	mg/l	36	31
3	Total Dissolved Solids	mg/l	1461	1186
4	Dissolved oxygen	mg/l	4.2	4.1
5	Chemical Oxygen Demand	mg/l	106	116
5	Biological Oxygen Demand	mg/l	19	14
6	Fecal Coliform	mg/l	1.2×10^4	1.4×10^4
7	Ammonical Nitrogen as NH ₃	mg/l	18.6	15.2
8	Total Nitrogen as N	mg/l	33.9	21.6
9	Sulphide as S	mg/l	<0.01	<0.01
10	Chloride as Cl	mg/l	493.4	436.4
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

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherlepalay
Hyderabad-500 051, Telangana, India
T : +91 40 2726 4141
F : +91 40 2726 3657



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

Report Number : VLL/VLS/19-20/010618/005
Issued Date : 2019-12-20
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4932
And Date : 2019-05-28

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

Page 1 of 1

SAMPLE PARTICULARS : STP Waste Water

Sample Registration Date	: 2019-12-05	Sampling Date	: 2019-12-04
Analysis Starting Date	: 2019-12-06	Analysis Completion Date	: 2019-12-20

SAMPLE COLLECTED BY VIMTA LABS LTD

TEST REPORT

S.No	Parameters	Unit	STP Outlet @ Canteen	STP Outlet @ 92 Seater at Plant	Limits as per CPCB
1	pH	-	7.31	7.35	5.5-9.0
2	Total Suspended Solids	mg/l	33	30	<100.0
3	Total Dissolved Solids	mg/l	1412	1045	<2100
4	Dissolved oxygen	mg/l	5.8	4.3	--
5	Chemical Oxygen Demand	mg/l	116	108	<250.0
5	Biological Oxygen Demand	mg/l	20	16	<30.0
6	Fecal Coliform	mg/l	1.0×10^4	1.2×10^4	<5000
7	Ammonical Nitrogen as NH ₃	mg/l	13.7	15.8	<50.0
8	Total Nitrogen as N	mg/l	28.9	23.7	<100.0
9	Sulphide as S	mg/l	<0.01	<0.01	<2.0
10	Chloride as Cl	mg/l	412.7	408.9	---
11	Total Residual Chlorine	mg/l	<0.2	<0.2	<1.0
12	Oil & Grease	mg/l	<1.0	<1.0	<10.0

Dr. SubbaReddyMallampati
Group Leader-Environment

Vimta Labs Limited

Registered Office
142, IDA Phase II, Cherlepalay
Hyderabad-500 051, Telangana, India
T : +91 40 2726 4141
F : +91 40 2726 3657

**ISSUED TO:**

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

Report Number : VLL/VLS/19/12768/005
Issued Date : 2020-02-05
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4932
And Date : 2019-05-28

Page 1 of 1

SAMPLE PARTICULARS : STP Waste Water

Sample Registration Date : 2020-01-22 Sampling Date : 2020-01-21
Analysis Starting Date : 2020-01-22 Analysis Completion Date : 2020-01-30
Sample Collected by Vimta Labs Ltd

TEST REPORT

Sr.No	Parameters	Unit	STP Outlet @ Canteen	STP Outlet @ 92 Senter at Plant	Limits as per CPCB
1	pH	-	7.37	7.44	5.5-9.0
2	Total Suspended Solids	mg/l	32	28	<100.0
3	Total Dissolved Solids	mg/l	1426	1121	<2100
4	Dissolved oxygen	mg/l	4.1	4.0	--
5	Chemical Oxygen Demand	mg/l	96	109	<250.0
5	Biological Oxygen Demand	mg/l	15	21	<30.0
6	Fecal Coliform	mg/l	1.1×10^4	1.3×10^4	<5000
7	Ammonical Nitrogen as NH_3	mg/l	15.3	13.5	<50.0
8	Total Nitrogen as N	mg/l	30.4	18.4	<100.0
9	Sulphide as S	mg/l	<0.01	<0.01	<2.0
10	Chloride as Cl	mg/l	482.3	408.1	---
11	Total Residual Chlorine	mg/l	<0.2	<0.2	<1.0
12	Oil & Grease	mg/l	<1.0	<1.0	<10.0

Dr. SubbaReddy Mallampati
Group Leader-Environment

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherlepalay
Hyderabad-500 051, Telangana, India
T : +91 40 2726 4141
F : +91 40 2726 3657



ISSUED TO:

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

Report Number : VLL/VLS/19/14412/006
Issued Date : 2020-03-05
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4932
And Date : 2019-05-28

Page 1 of 1

SAMPLE PARTICULARS : STP Waste Water

Sample Registration Date : 2020-02-28 Sampling Date : 2020-02-27
Analysis Starting Date : 2020-02-28 Analysis Completion Date : 2020-03-05
Sample Collected by Vimta Labs Ltd

TEST REPORT

Sr.No	Parameters	Unit	STP Outlet @ Canteen	STP Outlet @ 92 Seater at Plant	Limits as per CPCB
1	pH	-	6.65	7.2	5.5-9.0
2	Total Suspended Solids	mg/l	29	32	<100.0
3	Total Dissolved Solids	mg/l	1320	1205	<2100
4	Dissolved oxygen	mg/l	4.6	4.3	--
5	Chemical Oxygen Demand	mg/l	80	90	<250.0
5	Biological Oxygen Demand	mg/l	16	14	<30.0
6	Fecal Coliform	mg/l	1.4×10^4	1.1×10^4	<5000
7	Ammonical Nitrogen as NH_4	mg/l	11.8	9.6	<50.0
8	Total Nitrogen as N	mg/l	26.4	28.4	<100.0
9	Sulphide as S	mg/l	<0.01	<0.01	<2.0
10	Chloride as Cl	mg/l	326.8	402.4	---
11	Total Residual Chlorine	mg/l	<0.2	<0.2	<1.0
12	Oil & Grease	mg/l	<1.0	<1.0	<10.0

Dr. SubbaReddy Mallampati
Group Leader-Environment

Vimta Labs Limited

Registered Office
142, IDA Phase II, Cherlepalay
Hyderabad-500 051, Telangana, India
T : +91 40 2726 4141
F : +91 40 2726 3657

**ISSUED TO:**

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

Report Number : VLL/VLS/19/15186/002
Issued Date : 2020-04-09
P.O. Ref : SCL/CC/ARC/KODLA/18-19/WO-4932
P.O. Date : 2019-05-28


Page 1 of 1

SAMPLE PARTICULARS : STP Waste Water

Sample Registration Date : 2020-03-12 Sampling Date : 2020-03-11
Analysis Starting Date : 2020-03-13 Analysis Completion Date : 2020-03-30
Sample Collected by Vimta Labs Ltd

TEST REPORT

Sr.No	Parameters	Unit	STP Outlet @ Canteen	STP Outlet @ 92 Seater at Plant	Limits as per CPCB
1	pH	-	6.78	7.4	5.5-9.0
2	Total Suspended Solids	mg/l	32	28	<100.0
3	Total Dissolved Solids	mg/l	1460	1182	<2100
4	Dissolved oxygen	mg/l	4.8	4.6	--
5	Chemical Oxygen Demand	mg/l	70	60	<250.0
5	Biological Oxygen Demand	mg/l	14	12	<30.0
6	Fecal Coliform	mg/l	1.6×10^4	1.2×10^4	<5000
7	Ammonical Nitrogen as NH_3	mg/l	10.2	8.2	<50.0
8	Total Nitrogen as N	mg/l	19.7	21.5	<100.0
9	Sulphide as S	mg/l	<0.01	<0.01	<2.0
10	Chloride as Cl	mg/l	298.7	384.3	---
11	Total Residual Chlorine	mg/l	<0.2	<0.2	<1.0
12	Oil & Grease	mg/l	<1.0	<1.0	<10.0


Dr. SubbaReddy Mallampati
Group Leader-Environment

Life Sciences Campus, # 5, MN Science & Technology Park, Genome Valley, Shamirpet, Hyderabad - 500 101, Telangana, India
T : +91 40 6740 4040 E : mdoffice@vimta.com URL : www.vimta.com

CIN : L24110TG1990PLC011977

Annexure-II
Ambient Air Quality Monitoring

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-19	38.2	64.5	9.8	10.9
	May-19	39.1	65.4	9.4	10.2
	June-19	37.6	63.1	10.2	11.3
	July-19	33.4	59.7	11.6	13.8
	Aug-19	31.1	61.6	13.1	14.3
	Sep-19	29.7	62.1	10.9	15.1
	Oct-19	29.6	66.3	13.8	19.3
	Nov-19	32.4	61.6	11.8	15.6
	Dec-19	28.1	63.3	12.6	13.2
	Jan-20	29.4	65.7	14.35	10.9
	Feb-20	30.8	63.1	16.7	11.9
	Mar-20	31.6	64.6	15.8	12.6
AAQ-2 Near East Side Plant and Mine Boundary	April-19	34.6	60.5	9.1	11.2
	May-19	35.4	62.1	10.5	11.6
	June-19	33.8	58.7	9.2	10.3
	July-19	35.2	63.8	8.8	10.6
	Aug-19	29.6	65.6	10.4	15.8
	Sep-19	28.4	61.8	11.6	14.2
	Oct-19	24.1	65.2	11.9	16.3
	Nov-19	22.8	63.4	13.3	15.8
	Dec-19	25.3	64.1	12.1	13.6
	Jan-20	27.7	62.6	14.6	17.2
	Feb-20	26.1	66.3	13.1	15.5
	Mar-20	26.9	65.8	13.9	14.8
AAQ-3 Near North side Boundary wall	April-19	30.6	57.1	8.9	9.6
	May-19	31.8	59.7	10.6	11.8
	June-19	28.7	57.3	10.1	11.2
	July-19	25.3	54.6	11.7	12.3
	Aug-19	21.8	60.4	11.2	13.5
	Sep-19	22.1	58.7	12.6	15.9
	Oct-19	19.6	57.3	11.9	12.7
	Nov-19	23.4	61.8	10.8	13.7
	Dec-19	21.6	63.5	11.6	14.4
	Jan-20	22.9	65.3	12.8	13.15
	Feb-20	23.1	64.8	11.5	14.2
	Mar-20	24.2	65.9	12.1	13.9
AAQ-4 Near South Mine Boundary	April-19	25.1	50.8	8.9	10.6
	May-19	23.8	52.1	10.6	11.3

	June-19	21.8	50.7	10.2	10.9
	July-19	20.1	52.4	9.9	11.3
	Aug-19	24.6	54.7	10.4	11.9
	Sep-19	26.3	55.8	9.7	12.6
	Oct-19	23.1	57.3	10.6	13.5
	Nov-19	21.2	60.3	11.2	15.9
	Dec-19	22.6	59.2	12.4	14.8
	Jan-20	23.4	62.6	13.8	16.6
	Feb-20	22.9	60.8	14.1	15.7
	Mar-20	24.1	62.5	13.8	14.9

M/s Vimta Lab Limited AAQ Analysis Report:

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherlapally
Hyderabad-500 051, Telangana, India
T : +91 40 2726 4141
F : +91 40 2726 3657



ISSUED TO:

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

Report Number : VLL/VLS/19/03510/002
Issued Date : 2019-07-16
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4932.
And Date : 2019-05-28

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

Page 1 of 1

SAMPLE PARTICULARS : AMBIENT NOISE MONITORING

Sample Registration Date : 2019-06-24 Sampling Date : 2019-06-21

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	52.1	48.2	44.5	49.2	50.0	46.4	53.5
2	Near east side plant & mine boundary	53.7	49.8	46.1	50.8	51.6	48.0	55.1
3	Near Crusher	62.2	58.3	54.6	59.3	60.1	56.5	63.6
4	Near Cement Mill	60.7	56.8	53.1	57.8	58.6	55.0	62.1
5	Near CCR Building	56.7	52.8	49.1	53.8	54.6	51.0	58.1

Dr. Subba Reddy Mallampati
Group Leader - Environment

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherlapally
Hyderabad-500 051, Telangana, India
T : +91 40 2726 4141
F : +91 40 2726 3657



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

Report Number : VLL/VLS/19/10599/009
Issued Date : 2019-12-14
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4932.
And Date : 2019-05-28

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

Page 1 of 1


SAMPLE PARTICULARS : AMBIENT AIR QUALITY MONITORING

Sample Registration Date	: 2019-11-23	Sampling Date	: 2019-11-21
Analysis Starting Date	: 2019-11-25	Analysis Completion Date	: 2019-12-14
Test Required	: PM _{2.5} , PM ₁₀ , SO ₂ , NO ₂ , 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	30.6	51.6	15.1	17.1	235	309	337
2	Near east side plant & mine boundary	24.2	48.7	14.3	16.8	247	302	318
3	Near Crusher	32.8	58.9	12.9	15.1	211	325	316
4	Near Mines south side	33.1	54.6	14.1	16.7	219	332	330
Limits As Per NAAQS		60	100	80	80	2000		
Test Methods		Gravimetric Method		Improved West & Geake	Modified Jacob & Hochheiser Method	NDIR spectroscopy method		


Dr. Subba Reddy Mallampati
Group Leader - Environment

Annexure-III
Stack Monitoring Report

Cement Mill

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherlapally
Hyderabad-500 051, India
T : +91 40 2726 4141
F : +91 40 2726 3657



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

Report Number : VLL/VLS/19-20/00802/04
Issued Date : 2019-04-27
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 : 2019/04/15
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	-	63
Velocity	m/sec	IS:11255 PART (III)	8.5
Flow	Nm ³ /Sec	IS:11255 PART (III)	94.88
Moisture Content, V/V	%	IS:11255 PART (III)	3.2
Particulate Matter	mg/Nm ³	IS: 11255 PART (I) 1985	7.6

Dr. Subba Reddy Mallampati
Group Leader- Environment

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherlapally
Hyderabad-500 051, India
T : +91 40 2726 4141
F : +91 40 2726 3657



ISSUED TO:

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

Report Number : VLL/VLS/19-20/02375/001
Issued Date : 2019-06-22
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 : 2019/05/24

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	-	71
Velocity	m/sec	IS:11255 PART (III)	8.1
Flow	Nm ³ /Sec	IS:11255 PART (III)	93.18
Moisture Content, V/V	%	IS:11255 PART (III)	3.0
Particulate Matter	mg/Nm ³	IS: 11255 PART (I) 1985	8.2


Dr. Subba Reddy Mallampati
Group Leader- Environment

Life Sciences Campus, # 5, MN Science & Technology Park, Genome Valley, Shamirpet, Hyderabad - 500 101, India
T : +91 40 6740 4040 E : mdoffice@vimta.com URL : www.vimta.com

CIN : L24110TG1990PLC011977

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherlepalay
Hyderabad-500 051, Telangana, India
T : +91 40 2726 4141
F : +91 40 2726 3657



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

Report Number : VLL/VLS/19-20/00802/003
Issued Date : 2019-07-16
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4932
And Date : 2019-05-28

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 : 2019/06/21
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)	8.56
Flow	Nm ³ /Sec	IS:11255 PART (III)	95.17
Moisture Content, V/V	%	IS:11255 PART (III)	3.0
Particulate Matter	mg/Nm ³	IS: 11255 PART (I) 1985	8.5

Dr. Subba Reddy Mallampati
Group Leader- Environment

Life Sciences Campus, # 5, MN Science & Technology Park, Genome Valley, Shamirpet, Hyderabad - 500 101, Telangana, India
T : +91 40 6740 4040 E : mdoffice@vimta.com URL : www.vimta.com

CIN : L24110TG1990PLC011977

Vimta Labs Limited

Registered Office
142, IDA Phase II, Cherlepalay
Hyderabad-500 051, Telangana, India
T : +91 40 2726 4141
F : +91 40 2726 3657

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

Report Number : VLL/VLS/19-20/00802/001
Issued Date : 2019-08-10
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4932.
And Date : 2019-05-28

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 : 2019/07/27

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	-	67
Velocity	m/sec	IS:11255 PART (III)	8.64
Flow	Nm ³ /Sec	IS:11255 PART (III)	94.32
Moisture Content, V/V	%	IS:11255 PART (III)	2.7
Particulate Matter	mg/Nm ³	IS: 11255 PART (I) 1985	9.4


Dr. Subba Reddy Mallampati
Group Leader- Environment

Life Sciences Campus, # 5, MN Science & Technology Park, Genome Valley, Shamirpet, Hyderabad - 500 101, Telangana, India
T : +91 40 6740 4040 E : mdoffice@vimta.com URL : www.vimta.com

CIN : L24110TG1990PLC011977

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherlepally
Hyderabad-500 051, Telangana, India
T : +91 40 2726 4141
F : +91 40 2726 3657



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

Report Number : VLL/VLS/19-20/06229/004
Issued Date : 2019-09-03
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4932.
And Date : 2019-05-28

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 : 2019/08/29
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	-	69
Velocity	m/sec	IS:11255 PART (III)	8.66
Flow	Nm ³ /Sec	IS:11255 PART (III)	94.05
Moisture Content, V/V	%	IS:11255 PART (III)	2.6
Particulate Matter	mg/Nm ³	IS: 11255 PART (I) 1985	8.1


Dr. Subba Reddy Mallampati
Group Leader- Environment

Life Sciences Campus, # 5, MN Science & Technology Park, Genome Valley, Shamirpet, Hyderabad - 500 101, Telangana, India
T : +91 40 6740 4040 E : mdoffice@vimta.com URL : www.vimta.com

CIN : L24110TG1990PLC011977

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherlepally
Hyderabad-500 051, Telangana, India
T : +91 40 2726 4141
F : +91 40 2726 3657



ISSUED TO:

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(UNIT KARNATAKA CEMENT PROJECT)
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TALUKA SEDAM KALABURAGI,
KARNATAKA.**

Report Number : VLL/VLS/19-20/10599/004
Issued Date : 2019-12-14
Your Ref : SCL/CC/ARC/KODLA/18-19/VO-4932.
And Date : 2019-05-28

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

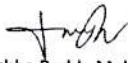
Page 1 of 1

SAMPLE PARTICULARS : STACK ATTACHED TO CEMENT MILL

Test Required : Particulate Matter
Sample Collected date : 2019/11/21
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	-	79
Velocity	m/sec	IS:11255 PART (III)	6.52
Flow	Nm ³ /Sec	IS:11255 PART (III)	68.69
Moisture Content, V/V	%	IS:11255 PART (III)	2.5
Particulate Matter	mg/Nm ³	IS: 11255 PART (I) 1985	12.8


Dr. Subba Reddy Mallampati
Group Leader- Environment

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherlepalay
Hyderabad-500 051, Telangana, India
T : +91 40 2726 4141
F : +91 40 2726 3657



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

Report Number : VLL/VLS/19-20/10618/004
Issued Date : 2019-12-20
Your Ref : SCL/CC/ARC/KODLA/18-19/VO-4932.
And Date : 2019-05-28

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

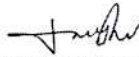
Page 1 of 1

SAMPLE PARTICULARS : STACK ATTACHED TO CEMENT MILL

Test Required : Particulate Matter
Sample Collected date : 2019/12/03
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	-	73
Velocity	m/sec	IS:11255 PART (III)	6.0
Flow	Nm ³ /Sec	IS:11255 PART (III)	64.30
Moisture Content, V/V	%	IS:11255 PART (III)	2.1
Particulate Matter	mg/Nm ³	IS: 11255 PART (I) 1985	10.3


Dr. Subba Reddy Mallampati
Group Leader- Environment

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherlepally
Hyderabad-500 051, Telangana, India
T : +91 40 2726 4141
F : +91 40 2726 3657



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

Report Number : VLL/VLS/19/12768/001
Issued Date : 2020-02-05
Your Ref : SCL/CC/ARC/KODLA/18-
19/WO-4932.
And Date : 2019-05-28

Page 1 of 1

SAMPLE PARTICULARS : **STACK ATTACHED TO CEMENT MILL**

Test Required : Particulate Matter
Sample Collected date : 2020/01/20
Sample Collected by Vimta Labs Ltd.

TEST REPORT

Parameter	UoM	Method Adopted	Results
Diameter of Stack	m	-	4.0
Cross Sectional Area of stack	m ²	-	12.56
Flue Gas Temperature	°C	-	78
Flue Gas Velocity	m/sec	IS:11255 PART (III)	6.3
Volumetric Flow Rate	Nm ³ /Sec	IS:11255 PART (III)	66.3
Moisture Content, %, V/V	%	IS:11255 PART (III)	< 5.0
Particulate Matter	mg/Nm ³	IS:11255 PART (I)	8.6

Dr. SubbaReddy Mallampati
Group Leader- Environment

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherlepally
Hyderabad-500 051, Telangana, India
T : +91 40 2726 4141
F : +91 40 2726 3657



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

Report Number : VLL/VLS/19/14412/001
Issued Date : 2020.03.05
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4932.
P.O. Date : 2019-05-28

Page 1 of 1

SAMPLE PARTICULARS : STACK ATTACHED TO CEMENT MILL

Test Required : Particulate Matter
Sample Collected date : 2020/02/26
Sample Collected by Vimta Labs Ltd.

TEST REPORT

Parameter	UoM	Method Adopted	Results
Diameter of Stack	m	-	4.0
Cross Sectional Area of stack	m ²	-	12.56
Flue Gas Temperature	°C	-	80
Flue Gas Velocity	m/sec	IS:11255 PART (III)	8.2
Volumetric Flow Rate	Nm ³ /Sec	IS:11255 PART (III)	117.8
Moisture Content, % V/V	%	IS:11255 PART (III)	< 5.0
Particulate Matter	mg/Nm ³	IS:11255 PART (I)	10.2

Dr. SubbaReddy Mallampati
Group Leader- Environment

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherleipally
Hyderabad-500 051, Telangana, India
T : +91 40 2726 4141
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VILLAGE KODLA,
TALUKA SEDAM KALABURAGI,
KARNATAKA.

Report Number : VLL/VLS/19/15186/001
Issued Date : 2020.04.09
P.O. Ref : SCL/CC/ARC/KODLA/18-19/WO-4932
P.O. Date : 2019-05-28


Page 1 of 1

SAMPLE PARTICULARS : STACK ATTACHED TO CEMENT MILL

Test Required : Particulate Matter
Sample Collected date : 2020/03/11
Sample Collected by Vimta Labs Ltd.

TEST REPORT

Parameter	UoM	Method Adopted	Results
Diameter of Stack	m	-	4.0
Cross Sectional Area of stack	m ²	-	12.56
Flue Gas Temperature	°C	-	84
Flue Gas Velocity	m/sec	IS:11255 PART (III)	8.2
Volumetric Flow Rate	Nm ³ /Sec	IS:11255 PART (III)	121.6
Moisture Content, %, V/V	%	IS:11255 PART (III)	< 5.0
Particulate Matter	mg/Nm ³	IS:11255 PART (I)	9.8


Dr. SubbaReddy Mallampati
Group Leader- Environment

Raw Mill Stack

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherlapally
Hyderabad-500 051, India
T : +91 40 2726 4141
F : +91 40 2726 3657



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

Report Number : VLL/VLS/19-20/00802/01
Issued Date : 2019-04-27
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 : 2019/04/15
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	-	157
Velocity	m/sec	IS:11255 PART (III)	17.98
Flow	Nm ³ /Sec	IS:11255 PART (III)	304.36
Oxygen	%	Flue Gas Analyzer	9.8
Moisture Content, V/V	%	IS:11255 PART (III)	2.2
Particulate Matter	mg/Nm ³	IS: 11255 PART (I) 1985	10.3
Sulphur dioxide	mg/Nm ³	IS: 11255 PART (I) 1985	<3.4
Oxide of Nitrogen	mg/Nm ³	IS: 11255 PART (I) 1985	579

PM, SO₂ and NO_x are corrected to 10% oxygen
Minimum Detectable Limit of for SO₂ - 3.4 mg/Nm³


Dr. Subba Reddy Mallampati
Group Leader- Environment

Vimta Labs Limited

Registered Office
142, IDA Phase II, Cherlepalay
Hyderabad-500 051, Telangana, India
T : +91 40 2726 4141
F : +91 40 2726 3657

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

Report Number : VLL/VLS/19-20/00802/006
Issued Date : 2019-07-16
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4932
And Date : 2019-05-28

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 : 2019/06/22
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)	17.86
Flow	Nm ³ /Sec	IS:11255 PART (III)	306.5
Oxygen	%	Flue Gas Analyzer	9.3
Moisture Content, V/V	%	IS:11255 PART (III)	2.5
Particulate Matter	mg/Nm ³	IS: 11255 PART (I) 1985	12.1
Sulphur dioxide	mg/Nm ³	IS: 11255 PART (I) 1985	<3.4
Oxide of Nitrogen	mg/Nm ³	IS: 11255 PART (I) 1985	583

PM, SO₂ and NO_x are corrected to 10% oxygen
Minimum Detectable Limit of for SO₂ - 3.4 mg/Nm³

Dr. Subba Reddy Mallampati
Group Leader- Environment

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherlepalay
Hyderabad-500 051, Telangana, India
T : +91 40 2726 4141
F : +91 40 2726 3657



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VILLAGE KODLA,
TALUKA SEDAM KALABURAGI,
KARNATAKA.

Report Number : VLL/VLS/19-20/06229/001
Issued Date : 2019-09-03
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4932
And Date : 2019-05-28

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 : 2019/08/30
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	-	162
Velocity	m/sec	IS:11255 PART (III)	18.08
Flow	Nm ³ /Sec	IS:11255 PART (III)	302.61
Oxygen	%	Flue Gas Analyzer	10.1
Moisture Content, V/V	%	IS:11255 PART (III)	2.5
Particulate Matter	mg/Nm ³	IS: 11255 PART (I) 1985	11.4
Sulphur dioxide	mg/Nm ³	IS: 11255 PART (I) 1985	<3.4
Oxide of Nitrogen	mg/Nm ³	IS: 11255 PART (I) 1985	561

PM, SO₂ and NO_x are corrected to 10% oxygen
Minimum Detectable Limit of for SO₂ - 3.4 mg/Nm³


Dr. Subba Reddy Mallampati
Group Leader- Environment

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherlepalay
Hyderabad-500 051, Telangana, India
T : +91 40 2726 4141
F : +91 40 2726 3657



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Report Number : VLL/VLS/19-20/010599/001
Issued Date : 2019-12-14
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4932
And Date : 2019-05-28

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 : 2019/11/22
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	-	110
Velocity	m/sec	IS:11255 PART (III)	7.96
Flow	Nm ³ /Sec	IS:11255 PART (III)	151.15
Oxygen	%	Flue Gas Analyzer	10.7
Moisture Content, V/V	%	IS:11255 PART (III)	3.6
Particulate Matter	mg/Nm ³	IS: 11255 PART (I) 1985	4.8
Sulphur dioxide	mg/Nm ³	IS: 11255 PART (I) 1985	<3.4
Oxide of Nitrogen	mg/Nm ³	IS: 11255 PART (I) 1985	561

PM, SO₂ and NO_x are corrected to 10% oxygen
Minimum Detectable Limit of for SO₂ - 3.4 mg/Nm³


Dr. Subba Reddy Mallampati
Group Leader- Environment

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherlempally
Hyderabad-500 051, Telangana, India
T : +91 40 2726 4141
F : +91 40 2726 3657



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

Report Number : VLL/VLS/19-20/010618/001
Issued Date : 2019-12-20
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And Date : 2019-05-28

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 : 2019/12/04
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	-	94
Velocity	m/sec	IS:11255 PART (III)	8.95
Flow	Nm ³ /Sec	IS:11255 PART (III)	177.2
Oxygen	%	Flue Gas Analyzer	10.5
Moisture Content, V/V	%	IS:11255 PART (III)	2.8
Particulate Matter	mg/Nm ³	IS: 11255 PART (I) 1985	4.5
Sulphur dioxide	mg/Nm ³	IS: 11255 PART (I) 1985	<3.4
Oxide of Nitrogen	mg/Nm ³	IS: 11255 PART (I) 1985	572

PM, SO₂ and NO_x are corrected to 10% oxygen
Minimum Detectable Limit of for SO₂ - 3.4 mg/Nm³

Dr. Subba Reddy Mallampati
Group Leader- Environment

Vimta Labs Limited

Registered Office
142, IDA Phase II, Cherlepally
Hyderabad-500 051, Telangana, India
T : +91 40 2726 4141
F : +91 40 2726 3657

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

Report Number : VLL/VLS/19/12768/004
Issued Date : 2020-02-05
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4932
And Date : 2019-05-28

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SAMPLE PARTICULARS : STACK ATTACHED TO RAW MILL KILN

Test Required : Particulate Matter, Sulphur dioxide, Oxide of Nitrogen;
Sample Collected date : 2020/01/21
Sample Collected by Vimta Labs Ltd.

TEST REPORT

Parameter	UoM	Method Adopted	Results
Diameter of Stack	m	-	5.6
Cross Sectional Area of stack	m ²	-	24.64
Flue Gas Temperature	°C	-	98
Flue Gas Velocity	m/sec	IS:11255 PART (III)	8.92
Volumetric Flow Rate	Nm ³ /Sec	IS:11255 PART (III)	174.8
Oxygen as O ₂	%	Flue Gas Analyzer	9.8
Particulate Matter	%	IS:11255 PART (III)	7.51
Sulphur dioxide as SO ₂	mg/Nm ³	Flue Gas Analyzer	< 3.4
Oxide of Nitrogen as NOx	mg/Nm ³	Flue Gas Analyzer	553.8

*PM, SO₂ and NOx are corrected to 10% oxygen

*Minimum Detectable Limit of for SO₂ – 3.4 mg/Nm³



Dr. SubbaReddy Mallampati
Group Leader- Environment

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherlepalay
Hyderabad-500 051, Telangana, India
T : +91 40 2726 4141
F : +91 40 2726 3657



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

Report Number : VLL/VLS/19/14412/004
Issued Date : 2020-03-03
Your Ref : SCL/CC/ARC/KODLA/18-19/VO-4932
And Date : 2019-05-28

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SAMPLE PARTICULARS : STACK ATTACHED TO RAW MILL KILN

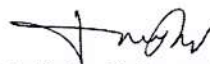
Test Required : Particulate Matter, Sulphur dioxide, Oxide of Nitrogen;
Sample Collected date : 2020/02/27
Sample Collected by Vimta Labs Ltd.

TEST REPORT

Parameter	UoM	Method Adopted	Results
Diameter of Stack	m	-	5.6
Cross Sectional Area of stack	m ²	-	24.64
Flue Gas Temperature	°C	-	78
Flue Gas Velocity	m/sec	IS:11255 PART (III)	15.0
Volumetric Flow Rate	Nm ³ /Sec	IS:11255 PART (III)	344.8
Oxygen as O ₂	%	Flue Gas Analyzer	9.4
Particulate Matter	%	IS:11255 PART (III)	8.3
Sulphur dioxide as SO ₂	mg/Nm ³	Flue Gas Analyzer	< 3.4
Oxide of Nitrogen as NO _x	mg/Nm ³	Flue Gas Analyzer	558.3

*PM, SO₂ and NO_x are corrected to 10% oxygen

*Minimum Detectable Limit of for SO₂ – 3.4 mg/Nm³


Dr. SubbaReddy Mallampati
Group Leader- Environment

Coal Mill Stack

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherlapally
Hyderabad-500 051, India
T : +91 40 2726 4141
F : +91 40 2726 3657



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

Report Number : VLL/VLS/19-20/00802/03
Issued Date : 2019-04-27
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 : 2019/04/15
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)	13.4
Flow	Nm ³ /Sec	IS:11255 PART (III)	22.48
Moisture Content, V/V	%	IS:11255 PART (III)	1.46
Particulate Matter	mg/Nm ³	IS: 11255 PART (I) 1985	13.5


Dr. Subba Reddy Mallampati
Group Leader- Environment

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherlepally
Hyderabad-500 051, Telangana, India
T : +91 40 2726 4141
F : +91 40 2726 3657



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(UNIT KARNATAKA CEMENT PROJECT)
VILLAGE KODLA,
TALUKA SEDAM KALABURAGI,
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Report Number : VLL/VLS/19-20/00802/004
Issued Date : 2019-07-16
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4932
And Date : 2019-05-28

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 : 2019/06/21

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)	13.3
Flow	Nm ³ /Sec	IS:11255 PART (III)	22.58
Moisture Content, V/V	%	IS:11255 PART (III)	1.5
Particulate Matter	mg/Nm ³	IS: 11255 PART (I) 1985	11.9


Dr. Subba Reddy Mallampati
Group Leader- Environment

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherleapally
Hyderabad-500 051, Telangana, India
T : +91 40 2726 4141
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VILLAGE KODLA,
TALUKA SEDAM KALABURAGI,
KARNATAKA.

Report Number : VLL/VLS/19-20/06229/003
Issued Date : 2019-09-03
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4932.
And Date : 2019-05-28

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 : 2019/08/29

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)	13.34
Flow	Nm ³ /Sec	IS:11255 PART (III)	22.58
Moisture Content, V/V	%	IS:11255 PART (III)	1.7
Particulate Matter	mg/Nm ³	IS: 11255 PART (I) 1985	11.1


Dr. Subba Reddy Mallampati
Group Leader- Environment

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherlepally
Hyderabad-500 051, Telangana, India
T : +91 40 2726 4141
F : +91 40 2726 3657



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(UNIT KARNATAKA CEMENT PROJECT)
VILLAGE KODLA,
TALUKA SEDAM KALABURAGI,
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Report Number : VLL/VLS/19-20/10599/003
Issued Date : 2019-12-14
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4932.
And Date : 2019-05-28

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 : 2019/11/21
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	-	79
Velocity	m/sec	IS:11255 PART (III)	6.52
Flow	Nm ³ /Sec	IS:11255 PART (III)	68.69
Moisture Content, V/V	%	IS:11255 PART (III)	1.9
Particulate Matter	mg/Nm ³	IS: 11255 PART (I) 1985	16.5


Dr. Subba Reddy Mallampati
Group Leader- Environment

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherlepalay
Hyderabad-500 051, Telangana, India
T : +91 40 2726 4141
F : +91 40 2726 3657



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VILLAGE KODLA,
TALUKA SEDAM KALABURAGI,
KARNATAKA.**

Report Number : VLL/VLS/19-20/10618/003
Issued Date : 2019-12-20
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4932.
And Date : 2019-05-28

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 : 2019/12/04
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	-	72
Velocity	m/sec	IS:11255 PART (III)	4.54
Flow	Nm ³ /Sec	IS:11255 PART (III)	7.81
Moisture Content, V/V	%	IS:11255 PART (III)	1.4
Particulate Matter	mg/Nm ³	IS: 11255 PART (I) 1985	14.5


Dr. Subba Reddy Mallampati
Group Leader- Environment

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherlepalay
Hyderabad-500 051, Telangana, India
T : +91 40 2726 4141
F : +91 40 2726 3657



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VILLAGE KODLA,
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KARNATAKA.

Report Number : VLL/VLS/19-20/10618/003
Issued Date : 2020-02-05
Your Ref : SCL/CC/ARC/KODLA/18-
19/WO-4932.
And Date : 2019-05-28

Page 1 of 1

SAMPLE PARTICULARS : STACK ATTACHED TO COAL MILL

Test Required : Particulate Matter
Sample Collected date : 2020/01/20
Sample Collected by Vimta Labs Ltd. -

TEST REPORT

Parameter	UoM	Method Adopted	RESULTS
Diameter of Stack	m	-	1.6
Cross Sectional Area of stack	m ²	-	2.01
Flue Gas Temperature	°C	-	75
Flue Gas Velocity	m/sec	IS:11255 PART (III)	4.32
Volumetric Flow Rate	Nm ³ /Sec	IS:11255 PART (III)	7.36
Moisture Content, %V/V	%	IS:11255 PART (III)	<5.0
Particulate Matter	mg/Nm ³	IS: 11255 PART (I)	12.9

Dr. SubbaReddy Mallampati
Group Leader- Environment

Vimta Labs Limited
Registered Office
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Hyderabad-500 051, Telangana, India
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Report Number : VLL/VLS/19-20/14412/002
Issued Date : 2020-03-03
P.O. Ref : SCL/CC/ARC/KODLA/18-
19/WO-4932.
P.O. Date : 2019-05-28

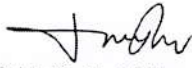
Page 1 of 1

SAMPLE PARTICULARS : STACK ATTACHED TO COAL MILL

Test Required : Particulate Matter
Sample Collected date : 2020/02/26
Sample Collected by Vimta Labs Ltd.

TEST REPORT

Parameter	UoM	Method Adopted	RESULTS
Diameter of Stack	m	-	1.6
Cross Sectional Area of stack	m ²	-	2.01
Flue Gas Temperature	°C	-	78
Flue Gas Velocity	m/sec	IS:11255 PART (III)	11.4
Volumetric Flow Rate	Nm ³ /Sec	IS:11255 PART (III)	20.7
Moisture Content, % V/V	%	IS:11255 PART (III)	<5.0
Particulate Matter	mg/Nm ³	IS: 11255 PART (I)	14.2


Dr. SubbaReddy Mallampati
Group Leader- Environment

Cooler Stack

Vimta Labs Limited
Registered Office
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Hyderabad-500 051, India
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Issued Date : 2019-04-27
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 : 2019/04/17
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	-	261
Velocity	m/sec	IS:11255 PART (III)	17.7
Flow	Nm ³ /sec	IS:11255 PART (III)	142.17
Moisture Content, V/V	%	IS:11255 PART (III)	3.6
Particulate Matter	mg/Nm ³	IS: 11255 PART (I) 1985	6.4

Dr. Subba Reddy Mallampati
Group Leader- Environment

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherlapally
Hyderabad-500 051, Telangana, India
T : +91 40 2726 4141
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(UNIT KARNATAKA CEMENT PROJECT)
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Report Number : VLL/VLS/19-20/00802/005
Issued Date : 2019-07-16
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4932.
And Date : 2019-05-28

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 : 2019/06/22
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	-	254
Velocity	m/sec	IS:11255 PART (III)	17.6
Flow	Nm ³ /sec	IS:11255 PART (III)	143.11
Moisture Content, V/V	%	IS:11255 PART (III)	3.1
Particulate Matter	mg/Nm ³	IS: 11255 PART (I) 1985	7.2

Dr. Subba Reddy Mallampati
Group Leader- Environment

Life Sciences Campus, # 5, MN Science & Technology Park, Genome Valley, Shamirpet, Hyderabad - 500 101, Telangana, India
T : +91 40 6740 4040 E : mdoffice@vimta.com URL : www.vimta.com

CIN : L24110TG1990PLC011977

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherlepally
Hyderabad-500 051, Telangana, India
T : +91 40 2726 4141
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KARNATAKA.

Report Number : VLL/VLS/19-20/06229/002
Issued Date : 2019-09-03
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4932.
And Date : 2019-05-28

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 : 2019/08/30
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	-	275
Velocity	m/sec	IS:11255 PART (III)	17.9
Flow	Nm ³ /sec	IS:11255 PART (III)	140.34
Moisture Content, V/V	%	IS:11255 PART (III)	3.1
Particulate Matter	mg/Nm ³	IS: 11255 PART (I) 1985	7.3

Dr. Subba Reddy Mallampati
Group Leader- Environment

Life Sciences Campus, # 5, MN Science & Technology Park, Genome Valley, Shamirpet, Hyderabad - 500 101, Telangana, India
T : +91 40 6740 4040 E : mdoffice@vimta.com URL : www.vimta.com

CIN : L24110TG1990PLC011977

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherleipally
Hyderabad-500 051, Telangana, India
T : +91 40 2726 4141
F : +91 40 2726 3657



ISSUED TO:

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

Report Number : VLL/VLS/19-20/10599/002
Issued Date : 2019-12-14
Your Ref : SCL/CC/ARC/KODLA/18-19/VO-4932.
And Date : 2019-05-28

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

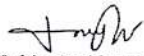
Page 1 of 1

SAMPLE PARTICULARS : STACK ATTACHED TO ESP COOLER

Test Required : Particulate Matter
Sample Collected date : 2019/11/22
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	-	284
Velocity	m/sec	IS:11255 PART (III)	9.2
Flow	Nm ³ /sec	IS:11255 PART (III)	71.41
Moisture Content, V/V	%	IS:11255 PART (III)	3.9
Particulate Matter	mg/Nm ³	IS: 11255 PART (I) 1985	11.8


Dr. Subba Reddy Mallampati
Group Leader- Environment

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherleapally
Hyderabad-500 051, Telangana, India
T : +91 40 2726 4141
F : +91 40 2726 3657



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

Report Number : VLL/VLS/19-20/10618/002
Issued Date : 2019-12-20
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4932.
And Date : 2019-05-28

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 : 2019/12/04
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	-	279
Velocity	m/sec	IS:11255 PART (III)	8.1
Flow	Nm ³ /sec	IS:11255 PART (III)	63.05
Moisture Content, V/V	%	IS:11255 PART (III)	3.4
Particulate Matter	mg/Nm ³	IS: 11255 PART (I) 1985	9.7


Dr. Subba Reddy Mallampati
Group Leader- Environment

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherlepalay
Hyderabad-500 051, Telangana, India
T : +91 40 2726 4141
F : +91 40 2726 3657



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

Report Number : VLL/VLS/19-20/10618/002
Issued Date : 2020-02-05
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4932.
And Date : 2019-05-28

Page 1 of 1

SAMPLE PARTICULARS : STACK ATTACHED TO ESP COOLER

Test Required : Particulate Matter
Sample Collected date : 2020/01/21
Sample Collected by Vimta Labs Ltd.

TEST REPORT

Parameter	UoM	Method Adopted	Results
Diameter of Stack	m	-	4.3
Cross Sectional Area of stack	m ²	-	14.52
Flue Gas Temperature	°C	-	286
Flue Gas Velocity	m/sec	IS:11255 PART (III)	8.83
Volumetric Flow Rate	Nm ³ /sec	IS:11255 PART (III)	67.76
Moisture Content, %, V/V	%	IS:11255 PART (III)	< 5.0
Particulate Matter	mg/Nm ³	IS: 11255 PART (I)	10.3

Dr. SubbaReddy Mallampati
Group Leader- Environment

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherlapally
Hyderabad-500 051, Telangana, India
T : +91 40 2726 4141
F : +91 40 2726 3657



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

Report Number : VLL/VLS/19-20/14412/003
Issued Date : 2020-02-05
P.O. Ref : SCL/CC/ARC/KODLA/18-19/WO-
4932,
P.O. Date : 2019-05-28

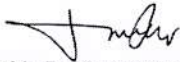
Page 1 of 1

SAMPLE PARTICULARS : STACK ATTACHED TO ESP COOLER

Test Required : Particulate Matter
Sample Collected date : 2020/02/26
Sample Collected by Vimta Labs Ltd.

TEST REPORT

Parameter	UoM	Method Adopted	Results
Diameter of Stack	m	-	4.3
Cross Sectional Area of stack	m ²	-	14.52
Flue Gas Temperature	°C	-	280
Flue Gas Velocity	m/sec	IS:11255 PART (III)	8.14
Volumetric Flow Rate	Nm ³ /sec	IS:11255 PART (III)	110.0
Moisture Content, % V/V	%	IS:11255 PART (III)	< 5.0
Particulate Matter	mg/Nm ³	IS: 11255 PART (I)	11.9


Dr. SubbaReddy Mallampati
Group Leader- Environment

Annexure-IV
Ambient Noise Level Monitoring

Apr-19

Sl. No.	Location	Noise Level at Day Time Limit: 75 dB (A)	Noise Level at Night Time Limit: 70 dB (A)
01.	Near Switch Yard-I	60.5	52.4
02.	Near east side plant & mine boundary	61.3	55.8
03.	Near CCR building	63.6	55.1
04.	Near crusher	70.8	64.3
05.	Near cement mill	70.3	61.6

May-19

Sl. No.	Location	Noise Level at Day Time Limit: 75 dB (A)	Noise Level at Night Time Limit: 70 dB (A)
01.	Near Switch Yard-I	59.6	50.8
02.	Near east side plant & mine boundary	61.9	54.7
03.	Near CCR building	64.3	54.2
04.	Near crusher	71.6	63.1
05.	Near cement mill	69.8	62.3

Jun-19

Sl. No.	Location	Noise Level at Day Time Limit: 75 dB (A)	Noise Level at Night Time Limit: 70 dB (A)
01.	Near Switch Yard-I	58.4	51.2
02.	Near east side plant & mine boundary	62.3	55.1
03.	Near CCR building	61.9	53.2
04.	Near crusher	72.6	64.8
05.	Near cement mill	70.8	63.6

July-19

Sl. No.	Location	Noise Level at Day Time Limit: 75 dB (A)	Noise Level at Night Time Limit: 70 dB (A)
01.	Near Switch Yard-I	57.6	49.1

02.	Near east side plant & mine boundary	61.6	54.3
03.	Near CCR building	58.1	50.9
04.	Near crusher	66.7	59.8
05.	Near cement mill	71.3	64.1

Aug-19

Sl. No.	Location	Noise Level at Day Time Limit: 75 dB (A)	Noise Level at Night Time Limit: 70 dB (A)
01.	Near Switch Yard-I	55.7	47.6
02.	Near east side plant & mine boundary	60.3	55.1
03.	Near CCR building	57.5	49.4
04.	Near crusher	68.6	60.2
05.	Near cement mill	70.1	63.3

Sep-19

Sl. No.	Location	Noise Level at Day Time Limit: 75 dB (A)	Noise Level at Night Time Limit: 70 dB (A)
01.	Near Switch Yard-I	58.2	49.3
02.	Near east side plant & mine boundary	57.6	51.8
03.	Near CCR building	58.9	48.2
04.	Near crusher	70.6	62.4
05.	Near cement mill	69.6	64.3

Oct-19

Sl. No.	Location	Noise Level at Day Time Limit: 75 dB (A)	Noise Level at Night Time Limit: 70 dB (A)
01.	Near Switch Yard-I	57.9	48.3
02.	Near east side plant & mine boundary	59.7	50.6
03.	Near CCR building	55.6	45.2
04.	Near crusher	71.3	66.4
05.	Near cement mill	70.8	65.1

Nov-19

Sl. No.	Location	Noise Level at Day Time Limit: 75 dB (A)	Noise Level at Night Time Limit: 70 dB (A)
01.	Near Switch Yard-I	55.2	45.8
02.	Near east side plant & mine boundary	58.6	47.4
03.	Near CCR building	60.2	50.7
04.	Near crusher	71.5	64.1
05.	Near cement mill	68.6	62.8

Dec-19

Sl. No.	Location	Noise Level at Day Time Limit: 75 dB (A)	Noise Level at Night Time Limit: 70 dB (A)
01.	Near Switch Yard-I	55.7	42.3
02.	Near east side plant & mine boundary	56.4	46.8
03.	Near CCR building	59.1	45.3
04.	Near crusher	68.6	59.8
05.	Near cement mill	70.8	65.1

Jan-20

Sl. No.	Location	Noise Level at Day Time Limit: 75 dB (A)	Noise Level at Night Time Limit: 70 dB (A)
01.	Near Switch Yard-I	52.4	40.6
02.	Near east side plant & mine boundary	55.1	44.8
03.	Near CCR building	58.6	45.1
04.	Near crusher	67.2	58.3
05.	Near cement mill	68.9	63.1

Feb-20

Sl. No.	Location	Noise Level at Day Time Limit: 75 dB (A)	Noise Level at Night Time Limit: 70 dB (A)
01.	Near Switch Yard-I	53.1	40.2
02.	Near east side plant & mine boundary	56.3	43.9
03.	Near CCR building	57.2	44.1

04.	Near crusher	68.9	55.6
05.	Near cement mill	70.2	58.4

Mar-20

Sl. No.	Location	Noise Level at Day Time Limit: 75 dB (A)	Noise Level at Night Time Limit: 70 dB (A)
01.	Near Switch Yard-I	52.1	39.8
02.	Near east side plant & mine boundary	55.7	41.4
03.	Near CCR building	56.3	42.8
04.	Near crusher	69.2	55.3
05.	Near cement mill	68.2	54.1

M/s Vimta Lab Limited Noise Analysis Report:

Vimta Labs Limited

Registered Office
142, IDA Phase II, Cherlepalay
Hyderabad-500 051, Telangana, India
T : +91 40 2726 4141
F : +91 40 2726 3657



ISSUED TO:

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

Report Number : VLL/VLS/19/03510/001
Issued Date : 2019-07-16
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4932.
And Date : 2019-05-28

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

Page 1 of 1

SAMPLE PARTICULARS : AMBIENT AIR QUALITY MONITORING


Sample Registration Date : 2019-06-24 Sampling Date : 2019-06-21
Analysis Starting Date : 2019-06-25 Analysis Completion Date : 2019-07-16
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	32.1	54.5	14.2	15.3	245	319	327
2	Near east side plant & mine boundary	27.6	50.2	13.7	15.1	227	342	308
3	Near Crusher	37.9	60.2	11.8	13.4	218	322	306
4	Near Mines south side	30.3	51.1	12.2	15.6	209	327	296
Limits As Per NAAQS		60	100	80	80	2000		
Test Methods		Gravimetric Method		Improved West & Geake	Modified Jacob & Hochheiser Method	NDIR spectroscopy method		


Dr. Subba Reddy Mallampati
Group Leader - Environment

Vimta Labs Limited
Registered Office
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F : +91 40 2726 3657



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Report Number : VLL/VLS/19/10599/008
Issued Date : 2019-12-14
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4932.
And Date : 2019-05-28

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

Page 1 of 1

SAMPLE PARTICULARS : AMBIENT NOISE MONITORING

Sample Registration Date : 2019-11-23 Sampling Date : 2019-11-21

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	50.4	49.1	46.2	48.3	52.1	47.3	54.1
2	Near east side plant & mine boundary	52.1	48.7	47.6	52.4	52.6	49.4	56.2
3	Near Crusher	60.6	59.2	55.2	58.9	62.6	57.3	60.6
4	Near Cement Mill	61.6	57.6	54.9	56.1	59.4	56.9	59.9
5	Near CCR Building	57.9	54.3	51.3	54.6	56.1	52.6	57.6

Dr. Subba Reddy Mallampati
Group Leader - Environment