



# 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](http://www.shreecement.com)

SCL / KCP/ENV/2021-22/ 217

Date:07/09/2021

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

**Sub:** Environment Statement Report as per Environment Protection Act, 1986 for 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 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,

With reference to the above subject, and referred letter. We are submitting herewith the Annual Environmental Statement as per Rule 14 of EP Act, 1986 for 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 by M/s Shree cement Ltd (Unit: Karnataka Cement Project), Village Benkanhalli and Kodla, Taluk-Sedam, District: Kalaburagi, Karnataka for the financial year 2020-21.

Submitted for your kind information and record please.

**Thanking you,**  
**Yours faithfully,**  
**For SHREE CEMENT LIMITED,**

(Arvindkumar Patil)  
Unit Head

Copy: The Regional Environmental Officer, Karnataka State Pollution Control Board, Plot No. 12/2,Sy.No. 19/P Mansafdar layout, M.G. Road, Santraswadi, Kalaburagi-585101.



**ENVIRONMENTAL STATEMENT**  
**FORM-V**  
**Shree Cement Limited**  
**(Unit: Karnataka Cement Project),**  
**Period from: April 2020 to March 2021**

**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	24-08-2020

**PART -B**  
**Water and Raw Material Consumption**

I. Water consumption in m<sup>3</sup>/d

Process : 57 KLD (WHRS)

Cooling and dust suppression : 156 KLD (Cement Plant)

Domestic : 224 KLD (Plant and Township)

Name of Products	Process water consumption per unit of products	
	During the current financial Year (2019-20)	During the current financial Year (2020-21)
1. Cement	0.030 KL/MT of Cement	0.0202 KL/MT of Cement
2. Clinker	0.019 KL/MT of Clinker	0.0041 KL/MT of Clinker
3. WHRS	0.0006 KL/KWH of WHRS power generation	0.0002KL/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 (2019-20)	During the current financial year (2020-21)
Gypsum	Cement	0.0505	0.0495
Fly Ash		0.2075	0.1974
Clinker		0.7334	0.7375
Limestone	Clinker	1.3777	1.4000
Fuel (Pet Coke/Coal)		0.1048	0.1260
Additives (Iron Ore, Red Mud)		0.1356	0.1044

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

Product Name	During Previous Financial Year (2019-20)	During Current Financial Year (2020 -21)
Cement	77.34	76.91
Clinker	58.28	60.42

IV. Total Production (MT):

Product Name	During Previous Financial Year (2019-20)	During Current Financial Year (2020 -21)
Cement	1532227	2200284
Clinker	1180759	1726301
WHR	50322000 KWH	103757000 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	The plant is being operated on dry process technology, there is no liquid effluent is generated	No variation. Meeting the requirements of prescribed standards.

		<p>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 <b>Annexure-IV</b>.</p>	
(b) Air Pollutants (PM, SO <sub>2</sub> & NO <sub>x</sub> )	Quantity of Pollutants Discharged (Ton/day)	Concentration of Pollutants in Discharge (Mass/Volume)	Percentage of variation from prescribed standard with reasons
Raw mill & Kiln (PM)	0.58	10.46	We have installed appropriate air pollution control equipment's (viz. ESP, Bag House & Bag Filters). Installed low NO <sub>x</sub> burner and De-NO <sub>x</sub> system to control NO <sub>x</sub> emissions.
Raw mill & Kiln (SO <sub>2</sub> )	0	0	
Raw mill & Kiln (NO <sub>x</sub> )	26.376	444.23	
Coal mill (PM)	0.06	0.70	
Cooler stack (PM)	0.34	5.86	
Cement mill (PM)	0.45	9.31	

Stack emission, AAQ & Noise monitoring report are enclosed as **Annexure-I, II & III**

#### PART-D HAZARDOUS WASTES

(As specified under Hazardous and Other Wastes (Management, Handling and Transboundary Movement) Rules, 2016).

Hazardous Wastes	Total Quantity (Kg)	
	During the previous financial year (2019-20)	During the current financial year (2020-21)
Common for plant & mines		
I. From Process	2 KL	14.02
2. From Pollution Control Facilities	NA	NA

**PART – E**  
**SOLID WASTE**

<b>Solid Wastes</b>	<b>Total Quantity (Kg)</b>		
	<b>During the previous financial year (2019-20)</b>	<b>During the current financial year (2020-21)</b>	
a. From process	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.	
b. From Pollution Control Facility	Dust collected in the ESP, Bag Houses and Bag filters are recycled to the system.		
c.	1. Quantity recycled or re-utilized within the unit. 2. Sold 3. Disposed	100%	100%
		Nil	Nil
		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:**

No used batteries generated for the FY2020-21.

**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-2020 to March-2021 under the Bio-medical waste (management & Handling) Rules 2016, are as follows.

Period	Bio Medical Waste Quantity (Kg) as per Color Coding <b>(Common for Cement plant and Mines)</b>			
	Red	Blue	Yellow	White
April 2019 to March 2020	25	-	33	-
April 2020 to March 2021	67.1	15.1	85.25	2.5

### E-Wastes

	Total Quantity <b>(Common for Cement Plant and Mines)</b>	
	During the previous financial year (2019-20)	During the current financial year (2020-21)
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.

1. The expenditure towards environmental protection measure during the period April-2020 to March-2021 is given below:

S. No.	Description	Amount (in lakh)
1	Plantation	28.73
2	Housekeeping and Vacuum Sweeping m/c	70.0
3	Env. Monitoring (Plant and Mines)	4.0
4	Technical consultancy charges (Plant and Mines)	12.0
5	Pollution control equipment's maintenance (Plant and Mines)	31.45
6	Sewage treatment plant	9.0
	Total	155.18

2. Greenbelt development and tree plantation is our ongoing activity. Out of total plant area of 173.32 Ha, about 42762 saplings have been planted in 29.91 Ha (17.26%) in the plant area.
3. Further greenery development at Plant by planting 7000 Nos trees of mixed variety in 2021-22.
4. Identifying new sources of Alternate Fuels for maximizing the utilization of Alternate fuels at all Kilns.

### 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. Installed 4 numbers of online Ambient Air Quality Monitoring Stations.
9. 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.
10. We are maintaining Zero Liquid Discharge (ZLD) from our premises.
11. We create environment awareness for all our stakeholders through meetings, training programs, day celebrations etc.
12. Installed NOx mitigation system in cement kiln as pollution control measure to achieve prescribed standards.
13. Repairing and filling of media as sand and gravels in all the RWH structures.  
Regular maintenance of RWH structures is being carried out.
14. Covered shed and silos have been construed for raw material storage.
15. Piezometer is constructed for monthly water level monitoring.



**M/s Vimta Lab Limited Stack Analysis Report:****Cement Mill Stack****Vimta Labs Limited**

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**ISSUED TO:**

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

Report Number : VLL/VLS/20/01911/006  
Issued Date : 2020-06-30  
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	: 2020/06/16
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 <sup>2</sup>	-	12.56
Flue Gas Temperature	°C	-	89
Flue Gas Velocity	m/sec	IS:11255 PART (III)	8.7
Volumetric Flow Rate	Nm <sup>3</sup> /Sec	IS:11255 PART (III)	102
Moisture Content, %,V/V	%	IS:11255 PART (III)	< 5.0
Particulate Matter	mg/Nm <sup>3</sup>	IS:11255 PART (I)	10.3

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/20/03478/004  
Issued Date : 2020-07-30  
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	: 2020-07-22
Sample Collected by	Vimta Labs Ltd.

**TEST REPORT**

Parameter	UOM	Method Adopted	RESULTS
Diameter of Stack	m	-	4.0
Area of stack	m <sup>2</sup>	-	12.56
Flue Gas Temperature	°C	-	68
Velocity	m/sec	IS:11255 PART (III)	7.1
Volumetric Flow Rate	Nm <sup>3</sup> /Sec	IS:11255 PART (III)	88.7
Moisture Content, V/V	%	IS:11255 PART (III)	<5.0
Particulate Matter	mg/Nm <sup>3</sup>	IS: 11255 PART (I) 1985	10.26

**Dr. SubbaReddy Mallampati**  
Group Leader- Environment

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

Report Number :	VLL/VLS/20/04489/004
Issued Date :	2020-08-14
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 CEMENT MILL**

Test Required	: Particulate Matter
Sample Collected date	: 2020-08-04
Sample Collected by	Vimta Labs Ltd.

**TEST REPORT**

Parameter	UOM	Method Adopted	RESULTS
Diameter of Stack	m	-	4.0
Area of stack	m <sup>2</sup>	-	12.56
Flue Gas Temperature	°C	-	71
Velocity	m/sec	IS:11255 PART (III)	6.9
Volumetric Flow Rate	Nm <sup>3</sup> /Sec	IS:11255 PART (III)	87.3
Moisture Content, V/V	%	IS:11255 PART (III)	<5.0
Particulate Matter	mg/Nm <sup>3</sup>	IS: 11255 PART (I) 1985	12.01

**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/20/05587/004  
 Issued Date : 2020-09-18  
 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	: 2020-09-08
Sample Collected by Vimta Labs Ltd.	

**TEST REPORT**

Parameter	UOM	Method Adopted	RESULTS
Diameter of Stack	m	-	4.0
Area of stack	m <sup>2</sup>	-	12.56
Flue Gas Temperature	°C	-	79
Velocity	m/sec	IS:11255 PART (III)	7.3
Volumetric Flow Rate	Nm <sup>3</sup> /Sec	IS:11255 PART (III)	77.1
Moisture Content, V/V	%	IS:11255 PART (III)	<5.0
Particulate Matter	mg/Nm <sup>3</sup>	IS: 11255 PART (I) 1985	15.7

Dr. SubbaReddy Mallampati  
 Group Leader- Environment

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ISSUED TO:

SHREE CEMENT LIMITED (UNIT KARNATAKA CEMENT PROJECT)	Report Number : VLL/VLS/20/07250/003
VILLAGE KODLA, TALUKA SEDAM KALABURAGI, KARNATAKA.	Issued Date : 2020-11-05
	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	: 2020-10-31
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	$^{\circ}C$	-	79
Velocity	m/sec	IS:11255 PART (III)	7.9
Volumetric Flow Rate	Nm <sup>3</sup> /Sec	IS:11255 PART (III)	80.7
Moisture Content, V/V	%	IS:11255 PART (III)	<5.0
Particulate Matter	mg/Nm <sup>3</sup>	IS: 11255 PART (I) 1985	26.9

Dr. SubbaReddy Mallampati  
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**ISSUED TO:**

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

Report Number : VLL/VLS/20/07546/003  
 Issued Date : 2020-12-09  
 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	: 2020-11-09
Sample Collected by Vimta Labs Ltd.	

**TEST REPORT**

Parameter	UOM	Method Adopted	RESULTS
Diameter of Stack	m	-	4.0
Area of stack	m <sup>2</sup>	-	12.56
Flue Gas Temperature	°C	-	72
Velocity	m/sec	IS:11255 PART (III)	7.1
Volumetric Flow Rate	Nm <sup>3</sup> /Sec	IS:11255 PART (III)	76.8
Moisture Content, V/V	%	IS:11255 PART (III)	<5.0
Particulate Matter	mg/Nm <sup>3</sup>	IS: 11255 PART (I) 1985	13.7

**Dr. SubbaReddy Mallampati  
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**ISSUED TO:**

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

Report Number : VLL/VLS/20/09358/001  
 Issued Date : 2020-12-31  
 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	2020-12-07
Sample Collected by Vimta Labs Ltd.	

**TEST REPORT**

Parameter	UOM	Method Adopted	RESULTS
Diameter of Stack	m	-	4.0
Area of stack	m <sup>2</sup>	-	12.56
Flue Gas Temperature	°C	-	74
Velocity	m/sec	IS:11255 PART (III)	7.2
Volumetric Flow Rate	Nm <sup>3</sup> /Sec	IS:11255 PART (III)	76.9
Moisture Content, V/V	%	IS:11255 PART (III)	<5.0
Particulate Matter	mg/Nm <sup>3</sup>	IS: 11255 PART (I) 1985	21.1

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/20/10666/004  
Issued Date : 2021-01-19  
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4932.  
And Date : 2019-05-28

Kind Attn. : Mr. J. Sunil  
Designation : Asst. Manager-Environment

Page 1 of 1

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

Test Required	: Particulate Matter
Sample Collected date	: 2021-01-12
Sample Collected by Vimta Labs Ltd.	

**TEST REPORT**

Parameter	UOM	Method Adopted	RESULTS
Diameter of Stack	m	-	4.0
Area of stack	m <sup>2</sup>	-	12.56
Flue Gas Temperature	°C	-	68
Velocity	m/sec	IS:11255 PART (III)	8.0
Volumetric Flow Rate	Nm <sup>3</sup> /Sec	IS:11255 PART (III)	86.8
Moisture Content, V/V	%	IS:11255 PART (III)	<5.0
Particulate Matter	mg/Nm <sup>3</sup>	IS: 11255 PART (I) 1985	13.4

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**ISSUED TO:**

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

Report Number : VLL/VLS/20/11095/004  
 Issued Date : 2021-03-08  
 Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4932.  
 And Date : 2019-05-28

Kind Attn. : Mr. J. Sunil  
 Designation : Asst. Manager-Environment

Page 1 of 1

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

Test Required	: Particulate Matter
Sample Collected date	: 2021-02-26
Sample Collected by Vimta Labs Ltd.	

**TEST REPORT**

Parameter	UOM	Method Adopted	RESULTS
Diameter of Stack	m	-	4.0
Area of stack	m <sup>2</sup>	-	12.56
Flue Gas Temperature	°C	-	65
Velocity	m/sec	IS:11255 PART (III)	6.8
Volumetric Flow Rate	Nm <sup>3</sup> /Sec	IS:11255 PART (III)	74.4
Moisture Content, V/V	%	IS:11255 PART (III)	<5.0
Particulate Matter	mg/Nm <sup>3</sup>	IS: 11255 PART (I) 1985	16.0

Dr. SubbaReddy Mallampati  
 Group Leader- Environment

**Vimta Labs Limited**

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**ISSUED TO:**

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

Report Number : VLL/VLS/20/10055/004  
 Issued Date : 2021-03-27  
 Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4932.  
 And Date : 2019-05-28

Kind Attn. : Mr. J. Sunil  
 Designation : Asst. Manager-Environment

Page 1 of 1

**SAMPLE PARTICULARS**

: STACK ATTACHED TO CEMENT MILL

Test Required	: Particulate Matter
Sample Collected date	: 2021-03-12
Sample Collected by Vimta Labs Ltd.	

**TEST REPORT**

Parameter	UOM	Method Adopted	RESULTS
Diameter of Stack	m	-	4.0
Area of stack	m <sup>2</sup>	-	12.56
Flue Gas Temperature	°C	-	68
Velocity	m/sec	IS:11255 PART (III)	7.0
Volumetric Flow Rate	Nm <sup>3</sup> /Sec	IS:11255 PART (III)	76.5
Moisture Content, V/V	%	IS:11255 PART (III)	<5.0
Particulate Matter	mg/Nm <sup>3</sup>	IS: 11255 PART (I) 1985	15.4

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 CIN : L24110TG1990PLC011977

## Raw 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/20/03478/001  
 Issued Date : 2020-07-30  
 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	: 2020-07-22
Sample Collected by Vimta Labs Ltd.	

**TEST REPORT**

Parameter	UoM	Method Adopted	Results
Diameter of Stack	m	-	5.6
Area of stack	m <sup>2</sup>	-	24.64
Flue Gas Temperature	°C	-	115
Velocity	m/sec	IS:11255 PART (III)	7.49
Volumetric Flow Rate	Nm <sup>3</sup> /Sec	IS:11255 PART (III)	184.4
Oxygen	%	Flue Gas Analyzer	10.3
Moisture Content, V/V	%	IS:11255 PART (III)	<5.0
Particulate Matter	mg/Nm <sup>3</sup>	IS: 11255 PART (I) 1985	7.9
Sulphur dioxide	mg/Nm <sup>3</sup>	IS: 11255 PART (I) 1985	<3.4
Oxide of Nitrogen	mg/Nm <sup>3</sup>	IS: 11255 PART (I) 1985	584

PM, SO<sub>2</sub> and NO<sub>x</sub> are corrected to 10% oxygen  
 Minimum Detectable Limit of for SO<sub>2</sub> ~ 3.4 mg/Nm<sup>3</sup>

**Dr. SubbaReddy Mallampati**  
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**ISSUED TO:**

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 VILLAGE KODLA,  
 TALUKA SEDAM KALABURAGI,  
 KARNATAKA.

Report Number : VLL/VLS/20/04489/001  
 Issued Date : 2020-08-14  
 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**

Test Required	: STACK ATTACHED TO RAW MILL KILN
Sample Collected date	: Particulate Matter, Sulphur dioxide, Oxide of Nitrogen;
Sample Collected by Vimta Labs Ltd.	: 2020-08-04

**TEST REPORT**

Parameter	UoM	Method Adopted	Results
Diameter of Stack	m	-	5.6
Area of stack	m <sup>2</sup>	-	24.64
Flue Gas Temperature	°C	-	109
Velocity	m/sec	IS:11255 PART (III)	7.62
Volumetric Flow Rate	Nm <sup>3</sup> /Sec	IS:11255 PART (III)	187.8
Oxygen	%	Flue Gas Analyzer	10.9
Moisture Content, V/V	%	IS:11255 PART (III)	<5.0
Particulate Matter	mg/Nm <sup>3</sup>	IS: 11255 PART (I) 1985	9.3
Sulphur dioxide	mg/Nm <sup>3</sup>	IS: 11255 PART (I) 1985	<3.4
Oxide of Nitrogen	mg/Nm <sup>3</sup>	IS: 11255 PART (I) 1985	528

PM, SO<sub>2</sub> and NO<sub>x</sub> are corrected to 10% oxygen  
 Minimum Detectable Limit of for SO<sub>2</sub> - 3.4 mg/Nm<sup>3</sup>

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Report Number : VLL/VLS/20/04489/001  
 Issued Date : 2020-09-18  
 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	: 2020-09-09
Sample Collected by Vimta Labs Ltd.	

**TEST REPORT**

Parameter	UoM	Method Adopted	Results
Diameter of Stack	m	-	5.6
Area of stack	m <sup>2</sup>	-	24.64
Flue Gas Temperature	°C	-	116
Velocity	m/sec	IS:11255 PART (III)	8.46
Volumetric Flow Rate	Nm <sup>3</sup> /Sec	IS:11255 PART (III)	157.54
Oxygen	%	Flue Gas Analyzer	10.0
Moisture Content, V/V	%	IS:11255 PART (III)	<5.0
Particulate Matter	mg/Nm <sup>3</sup>	IS: 11255 PART (I) 1985	12.4
Sulphur dioxide	mg/Nm <sup>3</sup>	IS: 11255 PART (I) 1985	<3.4
Oxide of Nitrogen	mg/Nm <sup>3</sup>	IS: 11255 PART (I) 1985	539

PM, SO<sub>2</sub> and NOx are corrected to 10% oxygen  
 Minimum Detectable Limit of for SO<sub>2</sub> - 3.4 mg/Nm<sup>3</sup>

**Dr. SubbaReddy Mallampati**  
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 KARNATAKA.

Report Number : VLL/VLS/20/07250/002  
 Issued Date : 2020-11-05  
 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

<b>SAMPLE PARTICULARS</b>	: STACK ATTACHED TO RAW MILL KILN
Test Required	: Particulate Matter, Sulphur dioxide, Oxide of Nitrogen;
Sample Collected date	: 2020-10-30
Sample Collected by Vimta Labs Ltd.	

**TEST REPORT**

Parameter	UoM	Method Adopted	Results
Diameter of Stack	m	-	5.6
Area of stack	m <sup>2</sup>	-	24.64
Flue Gas Temperature	°C	-	127
Velocity	m/sec	IS:11255 PART (III)	8.61
Volumetric Flow Rate	Nm <sup>3</sup> /Sec	IS:11255 PART (III)	153.68
Oxygen	%	Flue Gas Analyzer	6.9
Moisture Content, V/V	%	IS:11255 PART (III)	<5.0
Particulate Matter	mg/Nm <sup>3</sup>	IS: 11255 PART (I) 1985	28.7
Sulphur dioxide	mg/Nm <sup>3</sup>	IS: 11255 PART (II) 1985	<3.4
Oxide of Nitrogen	mg/Nm <sup>3</sup>	IS: 11255 PART (II) 1985	564

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 INDIA.

Report Number : VLL/VLS/20-21/07444/001  
 Issued Date : 2020-12-09  
 P.O. Number : SCL/CC/ARC/KODLA/18-19/WO-  
 4932/Amd-1.  
 P.O. Date : 2019-05-28/Amd 22.09.2020

Page 1 of 3

**SAMPLE PARTICULARS :** SOURCE EMISSION MONITORING FOR AFR STACK ATTACHED TO RAW MILL KILN

Sample Registration Date	: 2020-11-12	Sampling Date	: 2020-11-11
Analysis Starting Date	: 2020-11-13	Analysis Completion Date	: 2020-12-09
Sample Collected by Vimta Labs Ltd.			

**TEST REPORT**

Sr. No.	Parameters	UoM	Method of Testing	Results	Limits as per MoEF & CC Notification GSR 497(E)
1	Diameter of Stack	m	--	5.6	--
2	Temperature of Flue gas	°C	--	106	--
3	Velocity	m/Sec	USEPA method -03	10.3	--
4	Sulphur Dioxide as SO <sub>2</sub>	mg/Nm <sup>3</sup>	USEPA method -06	BDL	<100
5	Oxides of Nitrogen NOx as NO <sub>2</sub>	mg/Nm <sup>3</sup>	USEPA method -07	558	< 800
6	Carbon Monoxide as CO	mg/Nm <sup>3</sup>	Electro Chemical	84.3	<100
7	Particulate Matter as PM	mg/Nm <sup>3</sup>	USEPA method -5	17.5	<30.0
8	Hydrogen Fluoride as HF	mg/Nm <sup>3</sup>	USEPA method -13	0.28	<1.0
9	Hydrogen Chloride as HCl	mg/Nm <sup>3</sup>	USEPA method -26	3.0	<10
10	Total Organic Carbon	mg/Nm <sup>3</sup>	USEPA method -40 & MM5 (10)	6.4	<10
11	Volatile Organic Compounds as VOC's	mg/Nm <sup>3</sup>	USEPA method -30 & 31	BDL	--
12	Hydro Carbons	ppm	USEPA method -25A	BDL	--
13	Cyanide as CN	mg/Nm <sup>3</sup>	CTM-27	BDL	--
14	Poly Aromatic Hydrocarbon as PAH	mg/Nm <sup>3</sup>	USEPA method -23	<0.0001	--

All the Values are represented at 10% O<sub>2</sub>

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 TALUKA SEDAM KALABURAGI,  
 KARNATAKA.

Report Number : VLL/VLS/20/09358/003  
 Issued Date : 2020-12-31  
 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	: 2020-12-08
Sample Collected by	Vimta Labs Ltd.

**TEST REPORT**

Parameter	UoM	Method Adopted	Results
Diameter of Stack	m	-	5.6
Area of stack	m <sup>2</sup>	-	24.64
Flue Gas Temperature	°C	-	117
Velocity	m/sec	IS:11255 PART (III)	8.1
Volumetric Flow Rate	Nm <sup>3</sup> /Sec	IS:11255 PART (III)	150.14
Oxygen	%	Flue Gas Analyzer	10.2
Moisture Content, V/V	%	IS:11255 PART (III)	<5.0
Particulate Matter	mg/Nm <sup>3</sup>	IS: 11255 PART (I) 1985	16.8
Sulphur dioxide	mg/Nm <sup>3</sup>	IS: 11255 PART (I) 1985	<3.4
Oxide of Nitrogen	mg/Nm <sup>3</sup>	IS: 11255 PART (I) 1985	551

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**ISSUED TO:**

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Report Number : VLL/VLS/20/10666/001  
 Issued Date : 2021-01-19  
 Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4932  
 And Date : 2019-05-28

Kind Attn. : Mr. J. Sunil  
 Designation : Asst. Manager-Env

Page 1 of 1

**SAMPLE PARTICULARS****: STACK ATTACHED TO RAW MILL KILN**

Test Required	: Particulate Matter, Sulphur dioxide, Oxide of Nitrogen;
Sample Collected date	: 2021-01-11
Sample Collected by Vimta Labs Ltd.	

**TEST REPORT**

Parameter	UoM	Method Adopted	Results
Diameter of Stack	m	-	5.6
Area of stack	m <sup>2</sup>	-	24.64
Flue Gas Temperature	°C	-	64
Velocity	m/sec	IS:11255 PART (III)	8.42
Volumetric Flow Rate	Nm <sup>3</sup> /Sec	IS:11255 PART (III)	180.8
Oxygen	%	Flue Gas Analyzer	10.4
Moisture Content, V/V	%	IS:11255 PART (III)	<5.0
Particulate Matter	mg/Nm <sup>3</sup>	IS: 11255 PART (I) 1985	9.2
Sulphur dioxide	mg/Nm <sup>3</sup>	IS: 11255 PART (I) 1985	<3.4
Oxide of Nitrogen	mg/Nm <sup>3</sup>	IS: 11255 PART (I) 1985	554

PM, SO<sub>2</sub> and NOx are corrected to 10% oxygen  
 Minimum Detectable Limit of for SO<sub>2</sub> – 3.4 mg/Nm<sup>3</sup>

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**ISSUED TO:**

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 VILLAGE KODLA,  
 TALUKA SEDAM KALABURAGI,  
 KARNATAKA.

Report Number : VLL/VLS/20/11095/001  
 Issued Date : 2021-03-08  
 Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4932  
 And Date : 2019-05-28

Kind Attn. : Mr. J. Sunil  
 Designation : Ast. Manager-Env

Page 1 of 1

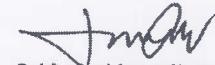
**SAMPLE PARTICULARS : STACK ATTACHED TO RAW MILL KILN**

Test Required	: Particulate Matter, Sulphur dioxide, Oxide of Nitrogen;
Sample Collected date	: 2021-02-26
Sample Collected by Vimta Labs Ltd.	

**TEST REPORT**

Parameter	UoM	Method Adopted	Results
Diameter of Stack	m	-	5.6
Area of stack	m <sup>2</sup>	-	24.64
Flue Gas Temperature	°C	-	66
Velocity	m/sec	IS:11255 PART (III)	9.58
Volumetric Flow Rate	Nm <sup>3</sup> /Sec	IS:11255 PART (III)	204.59
Oxygen	%	Flue Gas Analyzer	10.2
Moisture Content, V/V	%	IS:11255 PART (III)	<5.0
Particulate Matter	mg/Nm <sup>3</sup>	IS: 11255 PART (I) 1985	10.3
Sulphur dioxide	mg/Nm <sup>3</sup>	IS: 11255 PART (I) 1985	<3.4
Oxide of Nitrogen	mg/Nm <sup>3</sup>	IS: 11255 PART (I) 1985	541

PM, SO<sub>2</sub> and NOx are corrected to 10% oxygen  
 Minimum Detectable Limit of for SO<sub>2</sub> - 3.4 mg/Nm<sup>3</sup>

Dr. SubbaReddy Mallampati  
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**ISSUED TO:**

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 VILLAGE KODLA,  
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 KARNATAKA.

Report Number : VLL/VLS/20/10055/001  
 Issued Date : 2021-03-27  
 Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4932  
 And Date : 2019-05-28

Kind Attn. : Mr. J. Sunil  
 Designation : Asst. Manager-Env

Page 1 of 1

**SAMPLE PARTICULARS : STACK ATTACHED TO RAW MILL KILN**

Test Required	: Particulate Matter, Sulphur dioxide, Oxide of Nitrogen;
Sample Collected date	: 2021-03-05
Sample Collected by	Vimta Labs Ltd.

**TEST REPORT**

Parameter	UoM	Method Adopted	Results
Diameter of Stack	m	-	5.6
Area of stack	m <sup>2</sup>	-	24.64
Flue Gas Temperature	°C	-	68
Velocity	m/sec	IS:11255 PART (III)	9.80
Volumetric Flow Rate	Nm <sup>3</sup> /Sec	IS:11255 PART (III)	208.08
Oxygen	%	Flue Gas Analyzer	10.1
Moisture Content, V/V	%	IS:11255 PART (III)	<5.0
Particulate Matter	mg/Nm <sup>3</sup>	IS: 11255 PART (I) 1985	11.2
Sulphur dioxide	mg/Nm <sup>3</sup>	IS: 11255 PART (I) 1985	<3.4
Oxide of Nitrogen	mg/Nm <sup>3</sup>	IS: 11255 PART (I) 1985	538

PM, SO<sub>2</sub> and NO<sub>x</sub> are corrected to 10% oxygen  
 Minimum Detectable Limit of for SO<sub>2</sub> – 3.4 mg/Nm<sup>3</sup>

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## Coal Mill Stack

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Report Number : VLL/VLS/20/03478/003  
 Issued Date : 2020-07-30  
 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	: 2020-07-22
Sample Collected by Vimta Labs Ltd.	

**TEST REPORT**

Parameter	UOM	Method Adopted	RESULTS
Diameter of Stack	m	-	1.6
Area of stack	m <sup>2</sup>	-	2.01
Flue Gas Temperature	°C	-	81
Velocity	m/sec	IS:11255 PART (III)	5.6
Volumetric Flow Rate	Nm <sup>3</sup> /Sec	IS:11255 PART (III)	9.4
Moisture Content, V/V	%	IS:11255 PART (III)	<5.0
Particulate Matter	mg/Nm <sup>3</sup>	IS: 11255 PART (I) 1985	15.06

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 VILLAGE KODLA,  
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 KARNATAKA.

Report Number	:	VLL/VLS/20/03478/003
Issued Date	:	2020-07-30
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And Date	:	2019-05-28

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

Page 1 of 1

<b>SAMPLE PARTICULARS</b>	:	STACK ATTACHED TO COAL MILL
Test Required	:	Particulate Matter
Sample Collected date	:	2020-07-22
Sample Collected by Vimta Labs Ltd.	:	

**TEST REPORT**

Parameter	UOM	Method Adopted	RESULTS
Diameter of Stack	m	-	1.6
Area of stack	m <sup>2</sup>	-	2.01
Flue Gas Temperature	°C	-	87
Velocity	m/sec	IS:11255 PART (III)	6.0
Volumetric Flow Rate	Nm <sup>3</sup> /Sec	IS:11255 PART (III)	9.9
Moisture Content, V/V	%	IS:11255 PART (III)	<5.0
Particulate Matter	mg/Nm <sup>3</sup>	IS: 11255 PART (I) 1985	11.7



**Dr. SubbaReddy Mallampati**  
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Report Number	:	VLL/VLS/20/05587/003
Issued Date	:	2020-09-18
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	:	2020-09-09
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	$^{\circ}C$	-	90
Velocity	m/sec	IS:11255 PART (III)	5.6
Volumetric Flow Rate	Nm <sup>3</sup> /Sec	IS:11255 PART (III)	9.1
Moisture Content, V/V	%	IS:11255 PART (III)	<5.0
Particulate Matter	mg/Nm <sup>3</sup>	IS: 11255 PART (I) 1985	16.4

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ISSUED TO:

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

Report Number : VLL/VLS/20/07250/001  
 Issued Date : 2020-11-05  
 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	2020-10-30
Sample Collected by Vimta Labs Ltd.	

**TEST REPORT**

Parameter	UOM	Method Adopted	RESULTS
Diameter of Stack	m	-	1.6
Area of stack	m <sup>2</sup>	-	2.01
Flue Gas Temperature	°C	-	83
Velocity	m/sec	IS:11255 PART (III)	5.8
Volumetric Flow Rate	Nm <sup>3</sup> /Sec	IS:11255 PART (III)	9.1
Moisture Content, V/V	%	IS:11255 PART (III)	<5.0
Particulate Matter	mg/Nm <sup>3</sup>	IS: 11255 PART (I) 1985	25.2

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 KARNATAKA.

Report Number : VLL/VLS/20/07546/002  
 Issued Date : 2020-12-09  
 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	: 2020-11-09
Sample Collected by Vimta Labs Ltd.	

**TEST REPORT**

Parameter	UOM	Method Adopted	RESULTS
Diameter of Stack	m	-	1.6
Area of stack	m <sup>2</sup>	-	2.01
Flue Gas Temperature	°C	-	75
Velocity	m/sec	IS:11255 PART (III)	5.0
Volumetric Flow Rate	Nm <sup>3</sup> /Sec	IS:11255 PART (III)	8.4
Moisture Content, V/V	%	IS:11255 PART (III)	<5.0
Particulate Matter	mg/Nm <sup>3</sup>	IS: 11255 PART (I) 1985	17.3

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 KARNATAKA.

Report Number : VLL/VLS/20/09358/002  
 Issued Date : 2020-12-31  
 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	: 2020-12-07
Sample Collected by Vimta Labs Ltd.	

**TEST REPORT**

Parameter	UOM	Method Adopted	RESULTS
Diameter of Stack	m	-	1.6
Area of stack	m <sup>2</sup>	-	2.01
Flue Gas Temperature	°C	-	6.1
Velocity	m/sec	IS:11255 PART (III)	5.8
Volumetric Flow Rate	Nm <sup>3</sup> /Sec	IS:11255 PART (III)	10.2
Moisture Content, V/V	%	IS:11255 PART (III)	<5.0
Particulate Matter	mg/Nm <sup>3</sup>	IS: 11255 PART (I) 1985	24.7

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Report Number : VLL/VLS/20/10666/003  
 Issued Date : 2021-01-19  
 Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4932.  
 And Date : 2019-05-28

Kind Attn. : Mr. J. Sunil  
 Designation : Asst. Manager-Environment.

Page 1 of 1

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

Test Required	: Particulate Matter
Sample Collected date	: 2021-01-12
Sample Collected by Vimta Labs Ltd.	

**TEST REPORT**

Parameter	UOM	Method Adopted	RESULTS
Diameter of Stack	m	-	1.6
Area of stack	m <sup>2</sup>	-	2.01
Flue Gas Temperature	°C	-	74
Velocity	m/sec	IS:11255 PART (III)	6.3
Volumetric Flow Rate	Nm <sup>3</sup> /Sec	IS:11255 PART (III)	10.8
Moisture Content, V/V	%	IS:11255 PART (III)	<5.0
Particulate Matter	mg/Nm <sup>3</sup>	IS: 11255 PART (I) 1985	15.9

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 KARNATAKA.

Report Number : VLL/VLS/20/11095/003  
 Issued Date : 2021-03-08  
 Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4932.  
 And Date : 2019-05-28

Kind Attn. : Mr. J. Sunil  
 Designation : Asst. Manager-Environment.

Page 1 of 1

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

Test Required	: Particulate Matter
Sample Collected date	: 2021-02-27
Sample Collected by Vimta Labs Ltd.	

**TEST REPORT**

Parameter	UOM	Method Adopted	RESULTS
Diameter of Stack	m	-	1.6
Area of stack	m <sup>2</sup>	-	2.01
Flue Gas Temperature	°C	-	78
Velocity	m/sec	IS:11255 PART (III)	7.0
Volumetric Flow Rate	Nm <sup>3</sup> /Sec	IS:11255 PART (III)	11.8
Moisture Content, V/V	%	IS:11255 PART (III)	<5.0
Particulate Matter	mg/Nm <sup>3</sup>	IS: 11255 PART (I) 1985	12.8

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Report Number : VLL/VLS/20/10055/003  
 Issued Date : 2021-03-27  
 Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4932.  
 And Date : 2019-05-28

Kind Attn. : Mr. J. Sunil  
 Designation : Asst. Manager-Environment.

Page 1 of 1

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

Test Required	: Particulate Matter
Sample Collected date	: 2021-03-06
Sample Collected by Vimta Labs Ltd.	

**TEST REPORT**

Parameter	UOM	Method Adopted	RESULTS
Diameter of Stack	m	-	1.6
Area of stack	m <sup>2</sup>	-	2.01
Flue Gas Temperature	°C	-	76
Velocity	m/sec	IS:11255 PART (III)	7.2
Volumetric Flow Rate	Nm <sup>3</sup> /Sec	IS:11255 PART (III)	12.2
Moisture Content, V/V	%	IS:11255 PART (III)	<5.0
Particulate Matter	mg/Nm <sup>3</sup>	IS: 11255 PART (I) 1985	17.7

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## Cooler Stack

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 KARNATAKA.

Report Number : VLL/VLS/20/03478/002  
 Issued Date : 2020-07-30  
 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	: 2020/07/22
Sample Collected by Vimta Labs Ltd.	

**TEST REPORT**

Parameter	UOM	Method Adopted	Results
Diameter of Stack	m	-	4.3
Area of stack	m <sup>2</sup>	-	14.52
Flue Gas Temperature	°C	-	284
Velocity	m/sec	IS:11255 PART (III)	9.36
Volumetric Flow Rate	Nm <sup>3</sup> /sec	IS:11255 PART (III)	136
Moisture Content, V/V	%	IS:11255 PART (III)	<5.0
Particulate Matter	mg/Nm <sup>3</sup>	IS: 11255 PART (I) 1985	14.7

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**ISSUED TO:**

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KARNATAKA.**

Report Number : VLL/VLS/20/04489/002  
Issued Date : 2020-08-14  
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 ESP COOLER**

Test Required	: Particulate Matter
Sample Collected date	: 2020/08/04
Sample Collected by Vimta Labs Ltd.	

**TEST REPORT**

Parameter	UOM	Method Adopted	Results
Diameter of Stack	m	-	4.3
Area of stack	m <sup>2</sup>	-	14.52
Flue Gas Temperature	°C	-	284
Velocity	m/sec	IS:11255 PART (III)	9.55
Volumetric Flow Rate	Nm <sup>3</sup> /sec	IS:11255 PART (III)	139.0
Moisture Content, V/V	%	IS:11255 PART (III)	<5.0
Particulate Matter	mg/Nm <sup>3</sup>	IS: 11255 PART (I) 1985	10.4

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Report Number : VLL/VLS/20/05587/002  
 Issued Date : 2020-09-18  
 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	2020/09/08
Sample Collected by Vimta Labs Ltd.	

**TEST REPORT**

Parameter	UOM	Method Adopted	Results
Diameter of Stack	m	-	4.3
Area of stack	m <sup>2</sup>	-	14.52
Flue Gas Temperature	°C	-	124
Velocity	m/sec	IS:11255 PART (III)	8.6
Volumetric Flow Rate	Nm <sup>3</sup> /sec	IS:11255 PART (III)	92.93
Moisture Content, V/V	%	IS:11255 PART (III)	<5.0
Particulate Matter	mg/Nm <sup>3</sup>	IS: 11255 PART (I) 1985	11.8

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 KARNATAKA.

Report Number : VLL/VLS/20/07250/004  
 Issued Date : 2020-11-05  
 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	2020-10-31
Sample Collected by Vimta Labs Ltd.	

**TEST REPORT**

Parameter	UOM	Method Adopted	Results
Diameter of Stack	m	-	4.3
Area of stack	m <sup>2</sup>	-	14.52
Flue Gas Temperature	°C	-	139
Velocity	m/sec	IS:11255 PART (III)	5.07
Volumetric Flow Rate	Nm <sup>3</sup> /sec	IS:11255 PART (III)	68.44
Moisture Content, V/V	%	IS:11255 PART (III)	<5.0
Particulate Matter	mg/Nm <sup>3</sup>	IS: 11255 PART (I) 1985	27.2

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Report Number : VLL/VLS/20/07546/001  
Issued Date : 2020-12-09  
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	: 2020-11-10
Sample Collected by Vimta Labs Ltd.	

**TEST REPORT**

Parameter	UOM	Method Adopted	Results
Diameter of Stack	m	-	4.3
Area of stack	m <sup>2</sup>	-	14.52
Flue Gas Temperature	°C	-	37
Velocity	m/sec	IS:11255 PART (III)	4.72
Volumetric Flow Rate	Nm <sup>3</sup> /sec	IS:11255 PART (III)	65.36
Moisture Content, V/V	%	IS:11255 PART (III)	<5.0
Particulate Matter	mg/Nm <sup>3</sup>	IS: 11255 PART (I) 1985	9.8

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 And Date : 2019-05-28

Kind Attn. : Mr. J. Sunil  
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Page 1 of 1

**SAMPLE PARTICULARS : STACK ATTACHED TO ESP COOLER**

Test Required	Particulate Matter
Sample Collected date	2020-12-08
Sample Collected by Vimta Labs Ltd.	

**TEST REPORT**

Parameter	UOM	Method Adopted	Results
Diameter of Stack	m	-	4.3
Area of stack	m <sup>2</sup>	-	14.52
Flue Gas Temperature	°C	-	142
Velocity	m/sec	IS:11255 PART (III)	6.9
Volumetric Flow Rate	Nm <sup>3</sup> /sec	IS:11255 PART (III)	71.1
Moisture Content, V/V	%	IS:11255 PART (III)	<5.0
Particulate Matter	mg/Nm <sup>3</sup>	IS: 11255 PART (I) 1985	8.31

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Report Number : VLL/VLS/20/10666/002  
 Issued Date : 2021-01-19  
 Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4932.  
 And Date : 2019-05-28

Kind Attn. : Mr. J. Sunil  
 Designation : Asst. Manager-Environment.

Page 1 of 1

**SAMPLE PARTICULARS : STACK ATTACHED TO ESP COOLER**

Test Required	: Particulate Matter
Sample Collected date	: 2021/01/11
Sample Collected by Vimta Labs Ltd.	

**TEST REPORT**

Parameter	UOM	Method Adopted	Results
Diameter of Stack	m	-	4.3
Area of stack	m <sup>2</sup>	-	14.52
Flue Gas Temperature	°C	-	36
Velocity	m/sec	IS:11255 PART (III)	6.79
Volumetric Flow Rate	Nm <sup>3</sup> /sec	IS:11255 PART (III)	93.92
Moisture Content, V/V	%	IS:11255 PART (III)	<5.0
Particulate Matter	mg/Nm <sup>3</sup>	IS: 11255 PART (I) 1985	10.1

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Report Number : VLL/VLS/20/11095/002  
 Issued Date : 2021-03-08  
 Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4932.  
 And Date : 2019-05-28

Kind Attn. : Mr. J. Sunil  
 Designation : Asst. Manager-Environment.

Page 1 of 1

**SAMPLE PARTICULARS : STACK ATTACHED TO ESP COOLER**

Test Required	: Particulate Matter
Sample Collected date	: 2021/02/26
Sample Collected by Vimta Labs Ltd.	

**TEST REPORT**

Parameter	UOM	Method Adopted	Results
Diameter of Stack	m	-	4.3
Area of stack	m <sup>2</sup>	-	14.52
Flue Gas Temperature	°C	-	39
Velocity	m/sec	IS:11255 PART (III)	7.0
Volumetric Flow Rate	Nm <sup>3</sup> /sec	IS:11255 PART (III)	96.57
Moisture Content, V/V	%	IS:11255 PART (III)	<5.0
Particulate Matter	mg/Nm <sup>3</sup>	IS: 11255 PART (I) 1985	12.4

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Report Number : VLL/VLS/20/10055/002  
 Issued Date : 2021-03-27  
 Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4932.  
 And Date : 2019-05-28

Kind Attn. : Mr. J. Sunil  
 Designation : Asst. Manager-Environment.

Page 1 of 1

**SAMPLE PARTICULARS**

: STACK ATTACHED TO ESP COOLER

Test Required	: Particulate Matter
Sample Collected date	: 2021/03/06
Sample Collected by Vimta Labs Ltd.	

**TEST REPORT**

Parameter	UOM	Method Adopted	Results
Diameter of Stack	m	-	4.3
Area of stack	m <sup>2</sup>	-	14.52
Flue Gas Temperature	°C	-	37
Velocity	m/sec	IS:11255 PART (III)	7.2
Volumetric Flow Rate	Nm <sup>3</sup> /sec	IS:11255 PART (III)	100.05
Moisture Content, V/V	%	IS:11255 PART (III)	<5.0
Particulate Matter	mg/Nm <sup>3</sup>	IS: 11255 PART (I) 1985	13.7

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## Ambient Air Quality Monitoring

Location Name	Month	PM2.5 ( $\mu\text{g}/\text{m}^3$ )	PM10 ( $\mu\text{g}/\text{m}^3$ )	SO2 ( $\mu\text{g}/\text{m}^3$ )	NOx ( $\mu\text{g}/\text{m}^3$ )
<b>AAQ-1 Near West Plant and Mine Boundary</b>	Apr-20	30.1	63.8	13.6	11.4
	May-20	29.3	64.9	11.3	16.4
	Jun-20	28.6	63.8	12.7	14.8
	Jul-20	35.7	64.2	12.9	14.4
	Aug-20	32.4	66.1	10.9	16.3
	Sep-20	28.1	63.8	9.6	14.8
	Oct-20	35.6	78.2	13.6	15.3
	Nov-20	32.8	80.7	14.2	16.3
	Dec-20	29.6	72.8	13.7	15.8
	Jan-21	38.8	80.7	12.3	14.8
	Feb-21	35.2	78.3	15.9	18.2
	Mar-21	30.6	75.4	12.1	13.7
<b>AAQ-2 Near East Side Plant and Mine Boundary</b>	Apr-20	30.4	65.6	13.2	15.5
	May-20	27.2	63.5	12.8	14.3
	Jun-20	25.8	62.7	12.1	13.6
	Jul-20	28.7	64.8	10.6	12.9
	Aug-20	31.3	68.3	14.6	16.8
	Sep-20	20.6	65.8	12.9	14.3
	Oct-20	31.7	73.9	12.7	14.8
	Nov-20	30.4	70.6	13.9	15.2
	Dec-20	32.6	74.2	13.1	15
	Jan-21	37.6	82.1	13.4	15.7
	Feb-21	39.4	85.7	12.6	14.9
	Mar-21	31.8	80.2	11.7	12.8

<b>AAQ-3 Near North side Boundary wall</b>	Apr-20	23.5	63.1	11.9	12.7
	May-20	24.3	64.9	12.3	13.8
	Jun-20	21.7	62.8	11.9	12.3
	Jul-20	28.6	66.4	9.1	11.7
	Aug-20	23.2	61.7	9.9	14.1
	Sep-20	21.5	59.8	10.6	13.9
	Oct-20	28.9	68.4	12.3	14.8
	Nov-20	30.2	70.1	13.7	15.4
	Dec-20	31.5	69.8	13.2	14.7
	Jan-21	34.3	75.6	12.1	13.3
	Feb-21	31.6	73.9	13.6	16.1
	Mar-21	26.4	69.5	13.3	15.7
<b>AAQ-4 Near South Mine Boundary</b>	Apr-20	22.6	61.7	12.2	14.6
	May-20	23.5	62.3	13.4	14.1
	Jun-20	22.9	61.6	12.3	13.4
	Jul-20	22.4	60.6	8.9	12.6
	Aug-20	20.8	58.7	8.1	11.5
	Sep-20	19.6	57.4	9.6	12.1
	Oct-20	27.1	65.2	13.8	15.9
	Nov-20	30.3	69.6	14.9	16.1
	Dec-20	29.5	67.9	14.2	15.3
	Jan-21	28.2	66.1	12	13.5
	Feb-21	26.7	65.4	12.6	14.3
	Mar-21	25.1	60.6	11.1	12.9

## M/s Vimta Lab Limited AAQ Analysis Report:

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**ISSUED TO:**

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

Report Number : VLL/VLS/20/01911/003  
 Issued Date : 2020-06-30  
 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	: 2020-06-19	Sampling Date	: 2020-06-17
Analysis Starting Date	: 2020-06-19	Analysis Completion Date	: 2020-06-26
Test Required	PM <sub>2.5</sub> , PM <sub>10</sub> , SO <sub>2</sub> , NO <sub>2</sub> , and CO.		

SAMPLE COLLECTED BY VIMTA LABS LTD

**TEST REPORT**

Sr. No.	Location Details	PM <sub>2.5</sub> ( $\mu\text{g}/\text{m}^3$ )	PM <sub>10</sub> ( $\mu\text{g}/\text{m}^3$ )	SO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ )	NO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ )	CO ( $\mu\text{g}/\text{m}^3$ )		
						I	II	III
1	Near Switch Yard-1	35.2	58.6	12.8	16.5	195	377	287
2	Near east side plant & mine boundary	27.5	46.9	13.1	14.6	201	332	213
3	Near Crusher	35.6	61.2	13.4	16.2	169	298	221
4	Near Mines south side	31.8	51.9	12.2	14.8	210	317	239
Limits As Per NAAQS		60	100	80	80	2000		
Test Methods		Gravimetric Method		Improved West & Geake	Modified Jacob & Hochheiser Method	NDIR spectroscopy method		

PM<sub>2.5</sub>, PM<sub>10</sub>, SO<sub>2</sub>, NO<sub>2</sub>, is monitored on 24 hrs. Basis & CO is monitored on 8 hrs basis.

Dr. SubbaReddy Mallampati  
 Group Leader - Environment

**Vimta Labs Limited**

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**ISSUED TO:**

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

Report Number : VLL/VLS/20/07250/007  
Issued Date : 2020-11-10  
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		AMBIENT AIR QUALITY MONITORING					
Sample Registration Date	: 2020-11-02	Sampling Date	: 2020-10-30 31				
Analysis Starting Date	: 2020-11-02	Analysis Completion Date	: 2020-11-10				
Test Required	: PM <sub>2.5</sub> , PM <sub>10</sub> , SO <sub>2</sub> , NO <sub>2</sub> , and CO.						

SAMPLE COLLECTED BY VIMTA LABS LTD

**TEST REPORT**PM<sub>2.5</sub>, PM<sub>10</sub>, SO<sub>2</sub>, NO<sub>2</sub>, is monitored on 24 hrs. Basis & CO is monitored on 8 hrs basis.

Sr. No.	Location Details	PM <sub>2.5</sub> ( $\mu\text{g}/\text{m}^3$ )	PM <sub>10</sub> ( $\mu\text{g}/\text{m}^3$ )	SO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ )	NO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ )	CO ( $\mu\text{g}/\text{m}^3$ )		
						I	II	III
1	Near Switch Yard-1	36.9	53.5	15.6	16.5	256	324	331
2	Near east side plant & mine boundary	31.6	52.8	14.9	16.3	235	351	319
3	Near Crusher	34.5	62.6	13.2	15.4	225	335	325
4	Near Mines south side	32.6	54.6	13.7	15.7	214	338	315
Limits As Per NAAQS		60	100	80	80	2000		
Test Methods		Gravimetric Method	Improved West & Geake	Modified Jacob B. Hochheiser Method	NDIR spectroscopy method			

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/20/10055/009  
 Issued Date : 2021-03-27  
 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	: 2021-03-15	Sampling Date	: 2021-03-12 & 13				
Analysis Starting Date	: 2021-03-15	Analysis Completion Date	: 2021-03-27				
Test Required	: PM <sub>2.5</sub> , PM <sub>10</sub> , SO <sub>2</sub> , NO <sub>2</sub> , and CO.						

SAMPLE COLLECTED BY VIMTA LABS LTD

**TEST REPORT**PM2.5, PM10, SO<sub>2</sub>, NO<sub>2</sub>, is monitored on 24 hrs. Basis & CO is monitored on 8 hrs basis.

Sr. No.	Location Details	PM <sub>2.5</sub> ( $\mu\text{g}/\text{m}^3$ )	PM <sub>10</sub> ( $\mu\text{g}/\text{m}^3$ )	SO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ )	NO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ )	CO ( $\mu\text{g}/\text{m}^3$ )		
						I	II	III
1	Near Switch Yard-1	42.3	56.8	16.1	16.8	263	329	345
2	Near east side plant & mine boundary	40.6	55.4	15.7	16.7	244	347	324
3	Near Crusher	39.8	64.6	14.9	15.6	229	338	334
4	Near Mines south side	43.5	59.9	14.6	16.2	219	341	321
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



**Noise Monitoring****SCL Noise analysis report:****Apr-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	50.7	39.8
02.	Near east side plant & mine boundary	54.3	42.6
03.	Near CCR building	59.8	46.4
04.	Near crusher	68.2	57.1
05.	Near cement mill	69.9	61.2

**May-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	52.6	40.3
02.	Near east side plant & mine boundary	55.2	40.7
03.	Near CCR building	58.1	42.3
04.	Near crusher	69.9	56.8
05.	Near cement mill	68.3	58.4

**Jun-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	51.2	38.7
02.	Near east side plant & mine boundary	53.8	40.2
03.	Near CCR building	59.4	41.9
04.	Near crusher	70.3	53.8
05.	Near cement mill	69.7	56.3

### July-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	53.7	45.6
02.	Near east side plant & mine boundary	54.6	43.8
03.	Near CCR building	58.2	42.3
04.	Near crusher	71.6	54.7
05.	Near cement mill	70.4	55.1

### Aug-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	51.9	42.6
02.	Near east side plant & mine boundary	53.6	40.8
03.	Near CCR building	56.7	39.2
04.	Near crusher	68.3	51.5
05.	Near cement mill	69.6	54.3

### Sep-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	40.6
02.	Near east side plant & mine boundary	51.7	39.2
03.	Near CCR building	59.2	41.6
04.	Near crusher	70.9	53.4
05.	Near cement mill	71.6	55.1

Oct-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	50.6	39.7
02.	Near east side plant & mine boundary	53.8	41.2
03.	Near CCR building	51.2	38.3
04.	Near crusher	69.6	52.7
05.	Near cement mill	70.4	52.1

Nov-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	51.8	40.7
02.	Near east side plant & mine boundary	54.2	42.5
03.	Near CCR building	53.1	37.2
04.	Near crusher	70.5	54.3
05.	Near cement mill	69.2	49.8

Dec-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	52.7	39.1
02.	Near east side plant & mine boundary	53.6	41.9
03.	Near CCR building	52.7	38.2
04.	Near crusher	69.3	53.7
05.	Near cement mill	68.9	48.5

**Jan-21**

<b>Sl. No.</b>	<b>Location</b>	<b>Noise Level at Day Time Limit: 75 dB (A)</b>	<b>Noise Level at Night Time Limit: 70 dB (A)</b>
01.	Near Switch Yard-I	49.3	33.6
02.	Near east side plant & mine boundary	51.6	42.8
03.	Near CCR building	53.4	31.8
04.	Near crusher	68.6	48.2
05.	Near cement mill	70.1	49.7

**Feb-21**

<b>Sl. No.</b>	<b>Location</b>	<b>Noise Level at Day Time Limit: 75 dB (A)</b>	<b>Noise Level at Night Time Limit: 70 dB (A)</b>
01.	Near Switch Yard-I	48.4	30.5
02.	Near east side plant & mine boundary	52.4	40.1
03.	Near CCR building	54.1	33.2
04.	Near crusher	69.3	47.1
05.	Near cement mill	68.6	48.2

**March-21**

<b>Sl. No.</b>	<b>Location</b>	<b>Noise Level at Day Time Limit: 75 dB (A)</b>	<b>Noise Level at Night Time Limit: 70 dB (A)</b>
01.	Near Switch Yard-I	50.9	45.7
02.	Near east side plant & mine boundary	52.6	48.9
03.	Near CCR building	59.8	57.7
04.	Near crusher	59.4	56.1
05.	Near cement mill	52.9	51.7

## M/s Vimta Lab Limited Noise Analysis Report:

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**ISSUED TO:**

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

Report Number : VLL/VLS/20/01911/002  
 Issued Date : 2020-06-30  
 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		Sampling Date : 2020-06-17						
Test Required		L <sub>10</sub> , L <sub>20</sub> , L <sub>50</sub> , L <sub>90</sub> , L <sub>eq</sub> , L <sub>day</sub> & L <sub>night</sub>						
SAMPLE COLLECTED BY VIMTA LABS LTD								

**TEST REPORT**

S.No.	Location Details	L <sub>10</sub>	L <sub>20</sub>	L <sub>50</sub>	L <sub>90</sub>	L <sub>eq</sub>	L <sub>day</sub>	L <sub>night</sub>	L <sub>dn</sub>
1	Near Switch Yard-1	53.2	49.3	45.6	50.3	51.1	47.5	54.5	
2	Near east side plant & mine boundary	51.4	47.5	43.8	48.5	49.3	45.7	52.8	
3	Near Crusher	61.8	57.9	54.2	58.9	59.7	56.1	63.2	
4	Near Cement Mill	63.1	59.2	55.5	60.2	61.0	57.4	64.5	
5	Near CCR Building	56.8	52.9	49.2	53.9	54.7	51.1	58.2	

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/20/07250/006  
 Issued Date : 2020-11-05  
 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	2020-11-02	Sampling Date	2020-10-30 & 31
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

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

Report Number : VLL/VLS/20/10055/008  
 Issued Date : 2021-03-27  
 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	: 2021-03-08	Sampling Date				: 2021-03-05 & 06							
Test Required	: L <sub>10</sub> , L <sub>50</sub> , L <sub>90</sub> , L <sub>eq</sub> , L <sub>day</sub> , L <sub>night</sub> , L <sub>dn</sub> .												
SAMPLE COLLECTED BY VIMTA LABS LTD													

**TEST REPORT**

S.No.	Location Details	L <sub>10</sub>	L <sub>50</sub>	L <sub>90</sub>	L <sub>eq</sub>	L <sub>day</sub>	L <sub>night</sub>	L <sub>dn</sub>
1	Near Switch Yard-1	52.8	48.4	44.7	48.9	50.9	45.7	51.8
2	Near east side plant & mine boundary	53.2	50.6	46.9	51.7	52.6	48.9	55.6
3	Near Crusher	61.5	59.7	56.4	57.6	59.8	57.7	61.5
4	Near Cement Mill	61.6	57.6	55.9	58.6	59.4	56.1	60.6
5	Near CCR Building	56.4	52.0	50.7	51.8	52.9	51.7	57.6

Dr. Subba Reddy Mallampati  
 Group Leader - Environment



## STP water Analysis Report

**Vimta Labs Limited**

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

Report Number : VLL/VLS/20/01911/004  
Issued Date : 2020-06-30  
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	: 2020-06-19	Sampling Date	: 2020-06-17
Analysis Starting Date	: 2020-06-19	Analysis Completion Date	: 2020-06-26

**SAMPLE COLLECTED BY VIMTA LABS LTD****TEST REPORT**

S.No	Parameters	Unit	STP Outlet @ Canteen	STP Outlet @ 92 Seater at Plant
1	pH	-	7.32	7.38
2	Total Suspended Solids	mg/l	28	36
3	Total Dissolved Solids	mg/l	1358	1241
4	Dissolved oxygen	mg/l	3.8	4.2
5	Chemical Oxygen Demand	mg/l	80	90
5	Biological Oxygen Demand	mg/l	16	18
6	Fecal Coliform	mg/l	$1.1 \times 10^4$	$1.2 \times 10^4$
7	Ammonical Nitrogen as NH3	mg/l	10.8	9.4
8	Total Nitrogen as N	mg/l	16.4	13.8
9	Sulphide as S	mg/l	<0.01	<0.01
10	Chloride as Cl	mg/l	478.5	424.6
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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**SHREE CEMENT LIMITED**  
**(UNIT KARNATAKA CEMENT PROJECT)**  
**VILLAGE KODLA,**  
**TALUKA SEDAM KALABURAGI,**  
**KARNATAKA.**

Report Number : VLL/VLS/20/03478/006  
Issued Date : 2020-07-30  
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	: 2020-07-23	Sampling Date	: 2020-07-22
Analysis Starting Date	: 2020-07-23	Analysis Completion Date	: 2020-07-30

Sample Collected by Vimta Labs Ltd

**TEST REPORT**

Sr. No.	Parameters	Unit	STP Outlet @ Canteen	STP Outlet @ CCR
1	pH	-	7.18	7.31
2	Total Suspended Solids	mg/l	24	31
3	Total Dissolved Solids	mg/l	1318	1234
4	Dissolved oxygen	mg/l	3.7	4.5
5	Chemical Oxygen Demand	mg/l	50	80
5	Biological Oxygen Demand	mg/l	8.7	14
6	Fecal Coliform	MPN/100ml	<1.8	<1.8
7	Ammonical Nitrogen as NH3	mg/l	5.6	9.4
8	Total Nitrogen as N	mg/l	8.1	11.3
9	Sulphide as S	mg/l	<0.01	<0.01
10	Chloride as Cl	mg/l	287.2	384.7
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

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**ISSUED TO:**

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

Report Number : VLL/VLS/20/04489/006  
 Issued Date : 2020-08-14  
 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	: 2020-08-05	Sampling Date	: 2020-08-04	
Analysis Starting Date	: 2020-08-04	Analysis Completion Date	: 2020-08-14	
Sample Collected by Vimta Labs Ltd				

**TEST REPORT**

Sr. No.	Parameters	Unit	STP Outlet @ Canteen	STP Outlet @ CCR
1	pH	-	6.97	7.28
2	Total Suspended Solids	mg/l	35	48
3	Total Dissolved Solids	mg/l	1487	1365
4	Dissolved oxygen	mg/l	3.6	4.3
5	Chemical Oxygen Demand	mg/l	65	70
5	Biological Oxygen Demand	mg/l	8.7	9.2
6	Fecal Coliform	MPN/100ml	<1.8	<1.8
7	Ammonical Nitrogen as NH3	mg/l	3.2	5.2
8	Total Nitrogen as N	mg/l	6.4	9.7
9	Sulphide as S	mg/l	<0.01	<0.01
10	Chloride as Cl	mg/l	367.4	415.2
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/20/05587/006  
 Issued Date : 2020-09-18  
 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	: 2020-09-10	Sampling Date	: 2020-09-09
Analysis Starting Date	: 2020-09-10	Analysis Completion Date	: 2020-09-18

Sample Collected by Vimta Labs Ltd

**TEST REPORT**

Sr. No.	Parameters	Unit	STP Outlet @ Canteen	STP Outlet @ CCR	CPCB Standards
1	pH	-	7.01	7.17	5.5 - 9.0
2	Total Suspended Solids	mg/l	39	44	100
3	Total Dissolved Solids	mg/l	1376	1394	2100
4	Dissolved oxygen	mg/l	4.4	4.9	--
5	Chemical Oxygen Demand	mg/l	72	76	250
5	Biological Oxygen Demand	mg/l	9.9	9.6	30
6	Fecal Coliform	MPN/100ml	<1.8	<1.8	2000
7	Ammonical Nitrogen as NH3	mg/l	4.5	5.8	50
8	Total Nitrogen as N	mg/l	7.3	10.5	100
9	Sulphide as S	mg/l	<0.01	<0.01	5
10	Chloride as Cl	mg/l	373.2	425.4	--
11	Total Residual Chlorine	mg/l	<0.2	<0.2	--
12	Oil & Grease	mg/l	<1.0	<1.0	10.0

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Report Number : VLL/VLS/20/07250/006  
 Issued Date : 2020-11-05  
 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	: 2020-11-02	Sampling Date : 2020-10-31
Analysis Starting Date	: 2020-11-02	Analysis Completion Date : 2020-11-05
Sample Collected by Vimta Labs Ltd		

**TEST REPORT**

Sr. No.	Parameters	Unit	STP Outlet @ Canteen	STP Outlet @ CCR	CPCB Standards
1	pH	-	7.35	7.49	5.5 - 9.0
2	Total Suspended Solids	mg/l	59	51	100
3	Total Dissolved Solids	mg/l	1510	1695	2100
4	Dissolved oxygen	mg/l	6.7	7.5	--
5	Chemical Oxygen Demand	mg/l	78	84	250
5	Biological Oxygen Demand	mg/l	13.6	16.6	30
6	Fecal Coliform	MPN/100ml	<1.8	<1.8	<1000
7	Ammonical Nitrogen as NH3	mg/l	3.4	4.6	5
8	Total Nitrogen as N	mg/l	7.9	9.4	10
9	Sulphide as S	mg/l	<0.01	<0.01	5
10	Chloride as Cl	mg/l	399.2	456.4	--
11	Total Residual Chlorine	mg/l	<0.2	<0.2	--
12	Oil & Grease	mg/l	<1.0	<1.0	10.0

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 KARNATAKA.

Report Number : VLL/VLS/20/07546/005  
 Issued Date : 2020-12-09  
 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	:	2020-11-10	Sampling Date	:	2020-11-09
Analysis Starting Date	:	2020-11-11	Analysis Completion Date	:	2020-12-09

Sample Collected by Vimta Labs Ltd

**TEST REPORT**

Sr. No.	Parameters	Unit	STP Outlet @ Canteen	STP Outlet @ CCR	CPCB Standards
1	pH	-	7.28	7.37	5.5 - 9.0
2	Total Suspended Solids	mg/l	66	57	100
3	Total Dissolved Solids	mg/l	1598	1684	2100
4	Dissolved oxygen	mg/l	7.2	7.8	--
5	Chemical Oxygen Demand	mg/l	85	89	250
5	Biological Oxygen Demand	mg/l	14.3	15.8	30
6	Fecal Coliform	MPN/100ml	<1.8	<1.8	<1000
7	Ammonical Nitrogen as NH3	mg/l	3.0	4.1	5
8	Total Nitrogen as N	mg/l	6.8	8.8	10
9	Sulphide as S	mg/l	<0.01	<0.01	5
10	Chloride as Cl	mg/l	386.1	442.6	--
11	Total Residual Chlorine	mg/l	<0.2	<0.2	--
12	Oil & Grease	mg/l	<1.0	<1.0	10.0

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 VILLAGE KODLA,  
 TALUKA SEDAM KALABURAGI,  
 KARNATAKA.

Report Number : VLL/VLS/20/09358/006  
 Issued Date : 2020-12-31  
 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	: 2020-12-09	Sampling Date	: 2020-12-08	
Analysis Starting Date	: 2020-12-10	Analysis Completion Date	: 2020-12-16	
Sample Collected by Vimta Labs Ltd				

**TEST REPORT**

Sr. No.	Parameters	Unit	STP Outlet @ Canteen	STP Outlet @ CCR	CPCB Standards
1	pH	-	7.32	7.21	5.5 - 9.0
2	Total Suspended Solids	mg/l	20	18	100
3	Total Dissolved Solids	mg/l	1530	1880	2100
4	Dissolved oxygen	mg/l	3.1	3.4	--
5	Chemical Oxygen Demand	mg/l	110	100	250
5	Biological Oxygen Demand	mg/l	16	14	30
6	Fecal Coliform	MPN/100ml	<1.8	<1.8	<1000
7	Ammonical Nitrogen as NH3	mg/l	17.8	20.6	5
8	Total Nitrogen as N	mg/l	27.3	28.9	10
9	Sulphide as S	mg/l	<0.01	<0.01	5
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	10.0

Dr. SubbaReddy Mallampati  
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 (UNIT KARNATAKA CEMENT PROJECT)**  
**VILLAGE KODLA,  
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 KARNATAKA.**

Report Number : VLL/VLS/20/10666/006  
 Issued Date : 2021-02-08  
 Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4932  
 And Date : 2019-05-28

Kind Attn. : Mr. J. SUNIL  
 Designation : Asstt. Manager-Environment

Page 1 of 1

**SAMPLE PARTICULARS**

: STP Wastewater

Sample Registration Date	: 2021-01-13	Sampling Date	: 2021-01-12
Analysis Starting Date	: 2021-01-13	Analysis Completion Date	: 2021-01-31

Sample Collected by Vimta Labs Ltd

**TEST REPORT**

Sr. No.	Parameters	Unit	STP Outlet @ Canteen	STP Outlet @ CCR	CPCB Standards
1	pH	-	7.25	7.63	5.5 - 9.0
2	Total Suspended Solids	mg/l	48	56	100
3	Total Dissolved Solids	mg/l	1867	1345	2100
4	Dissolved oxygen	mg/l	4.6	3.7	--
5	Chemical Oxygen Demand	mg/l	90	88	250
5	Biological Oxygen Demand	mg/l	18.0	25	30
6	Fecal Coliform	MPN/100ml	<1.8	<1.8	<1000
7	Ammonical Nitrogen as NH3	mg/l	1.8	2.1	5
8	Total Nitrogen as N	mg/l	3.1	3.3	10
9	Sulphide as S	mg/l	<0.01	<0.01	5
10	Chloride as Cl	mg/l	413.3	512.5	--
11	Total Residual Chlorine	mg/l	<0.2	0.2	--

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KARNATAKA.

Report Number : VLL/VLS/20/11095/006  
Issued Date : 2021-03-08  
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4932  
And Date : 2019-05-28

Kind Attn. : Mr. J. SUNIL  
Designation : Asst. Manager-Environment

Page 1 of 1

SAMPLE PARTICULARS	STP Wastewater	Sampling Date	Analysis Completion Date
Sample Registration Date	2021-02-27	2021-02-26	
Analysis Starting Date	2021-02-27		2021-03-08

Sample Collected by Vimta Labs Ltd

**TEST REPORT**

Sr. No.	Parameters	Unit	STP Outlet @ Canteen	STP Outlet @ CCR	CPCB Standards
1	pH	-	7.31	7.46	5.5 - 9.0
2	Total Suspended Solids	mg/l	44	52	100
3	Total Dissolved Solids	mg/l	1851	1336	2100
4	Dissolved oxygen	mg/l	4.1	3.4	--
5	Chemical Oxygen Demand	mg/l	83	80	250
5	Biological Oxygen Demand	mg/l	16.8	20	30
6	Fecal Coliform	MPN/100ml	<1.8	<1.8	<1000
7	Ammonical Nitrogen as NH3	mg/l	1.4	2.4	5
8	Total Nitrogen as N	mg/l	3.6	3.0	10
9	Sulphide as S	mg/l	<0.01	<0.01	5
10	Chloride as Cl	mg/l	416.6	503.2	--
11	Total Residual Chlorine	mg/l	<0.2	0.1	--

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 KARNATAKA.

Report Number : VLL/VLS/20/10055/006  
 Issued Date : 2021-03-27  
 Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4932  
 And Date : 2019-05-28

Kind Attn. : Mr. J. SUNIL  
 Designation : Asstt. Manager-Environment

Page 1 of 1

**SAMPLE PARTICULARS : STP Wastewater**

Sample Registration Date	: 2021-03-15	Sampling Date	: 2021-03-13
Analysis Starting Date	: 2021-03-15	Analysis Completion Date	: 2021-03-27

Sample Collected by Vimta Labs Ltd

**TEST REPORT**

Sr. No.	Parameters	Unit	STP Outlet @ Canteen	STP Outlet @ CCR	CPCB Standards
1	pH	-	7.68	7.34	5.5 - 9.0
2	Total Suspended Solids	mg/l	67	49	100
3	Total Dissolved Solids	mg/l	1869	1321	2100
4	Dissolved oxygen	mg/l	4.9	3.1	--
5	Chemical Oxygen Demand	mg/l	92	74	250
5	Biological Oxygen Demand	mg/l	24.9	14.6	30
6	Fecal Coliform	MPN/100ml	<1.8	<1.8	<1000
7	Ammonical Nitrogen as NH3	mg/l	3.1	2.0	5
8	Total Nitrogen as N	mg/l	3.9	3.0	10
9	Sulphide as S	mg/l	<0.01	<0.01	5
10	Chloride as Cl	mg/l	519.9	498.4	--
11	Total Residual Chlorine	mg/l	<0.2	0.1	--

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