



# VISON LABS

Environmental Consultants & Analytical Services

Recognised by ISO/IEC 17025:2005 (NABL), MoEF & CC,  
NABET-QCI, FSSAI, ISO 9001 : 2015 & OHSAS 45001 : 2018

## STACK EMISSION MONITORING & ANALYSIS TEST REPORT

<b>Issued to:</b> <b>M/s. APOLLO HOSPITALS</b> 251, Sainik School Road, unit-15, Bhubaneswar-751005, Odisha,India.		Issued Date	17.01.2020
		Our Ref No	TC50642000000881F
		Your Ref No	AHB/WO/BHU/Hospital/11
		Your Ref Date	17.06.2019
Sample Collection Date	07.01.2020	Sample condition of testing	Found Ok
Sample Registration Date	08.01.2020		
Monitoring done by VISON LABS			

### STACK DETAILS

Source of Emission	D.G.Set -2 (750 KVA)
Type of Chimney	Metal Rounded
Normal Operating Schedule (Hr/day)	As per requirement

### TEST RESULTS

S.No.	Parameter	Units	Results
1.	Ambient Temperature	°C	31
2.	Flue gas Temperature	°C	220
3.	Average Velocity	m/sec	12.56
4.	C/s area of the duct	m <sup>2</sup>	0.073
5.	Quantity of Emission	m <sup>3</sup> /hr	3300

### EMISSION DATA

S.No.	Parameter	Test Method	Units	Results	Limits (CPCB)
1.	Suspended Particulate Matter (SPM)	IS:11255 part-1 1985 (Reaffirmed 2009)	mg/Nm <sup>3</sup>	58	<115
2.	Sulphur Dioxide (SO <sub>2</sub> )	IS:11255 part-2 1985 (Reaffirmed 2009)	mg/Nm <sup>3</sup>	130	--
3.	Oxides of Nitrogen (No <sub>x</sub> )	IS:11255 part-7 2005	mg/Nm <sup>3</sup>	290	--

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Note:

1. Sampling & Testing were done as per standard method prescribed by CPCB
2. Above the test results are well within the limits as per CPCB guidelines.

Checked by	Sr. Chemist	Authorized Signatory T. Laxmikanth Reddy Technical Manager

VL/QEHS/5. 10/TR



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		Our Ref No	TC50642000000882F
		Your Ref No	AHB/VO/BHU/Hospital/11
		Your Ref Date	17.06.2019
Sample Collection Date	07.01.2020	Sample condition of testing	Found Ok
Sample Registration Date	08.01.2020		
Monitoring done by VISON LABS			

### STACK DETAILS

Source of Emission	D.G.Set -3 (1010 KVA)
Type of Chimney	Metal Rounded
Normal Operating Schedule (Hr/day)	As per requirement

### TEST RESULTS

S.No.	Parameter	Units	Results
1.	Ambient Temperature	°C	30
2.	Flue gas Temperature	°C	214
3.	Average Velocity	m/sec	11.80
4.	C/s area of the duct	m <sup>2</sup>	0.073
5.	Quantity of Emission	m <sup>3</sup> /hr	3100

### EMISSION DATA

S.No.	Parameter	Test Method	Units	Results	Standards as per G.S.R 489 (E)
1.	Suspended Particulate Matter (SPM)	IS:11255 part-1 1985 (Reaffirmed 2009)	mg/Nm <sup>3</sup>	60	75 max
2.	Sulphur Dioxide (SO <sub>2</sub> )	IS:11255 part-2 1985 (Reaffirmed 2009)	mg/Nm <sup>3</sup>	96	--
3.	Oxides of Nitrogen (No <sub>x</sub> )	IS:11255 part-7 2005	ppmv	240	710 max

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Note:

1. Sampling & Testing were done as per standard method prescribed by CPCB
2. Above the test results are well within the limits as per Standards as per G.S.R 489 (E) guidelines.

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		Our Ref No	TC50642000000883F
		Your Ref No	AHB/WO/BHU/Hospital/11
		Your Ref Date	17.06.2019
Sample Collection Date	07.01.2020	Sample condition of testing	Found Ok
Sample Registration Date	08.01.2020		
Monitoring done by VISON LABS			

### STACK DETAILS

Source of Emission	D.G.Set -4 (1010 KVA)
Type of Chimney	Metal Rounded
Normal Operating Schedule (Hr/day)	As per requirement

### TEST RESULTS

S.No.	Parameter	Units	Results
1.	Ambient Temperature	°C	33
2.	Flue gas Temperature	°C	260
3.	Average Velocity	m/sec	12.54
4.	C/s area of the duct	m <sup>2</sup>	0.073
5.	Quantity of Emission	m <sup>3</sup> /hr	3295

### EMISSION DATA

S.No.	Parameter	Test Method	Units	Results	Standards as per G.S.R 489 (E)
1.	Suspended Particulate Matter (SPM)	IS:11255 part-1 1985 (Reaffirmed 2009)	mg/Nm <sup>3</sup>	68	75 max
2.	Sulphur Dioxide (SO <sub>2</sub> )	IS:11255 part-2 1985 (Reaffirmed 2009)	mg/Nm <sup>3</sup>	120	--
3.	Oxides of Nitrogen (No <sub>x</sub> )	IS:11255 part-7 2005	ppmv	260	710 max

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Note:

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