



# VISON LABS

Environmental Consultants & Analytical Services

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

## AMBIENT AIR QUALITY 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	TC50642000000888F
		Your Ref No	AHB/VO/BHU/Hospital/11
		Your Ref Date	17.06.2019
Date of Monitoring	07.01.2020	Sample Description	Ambient Air
Date of Registration	08.01.2020	Sample(s) condition	Found Ok
Monitoring Location	<b>Near In Gate Area</b>		
Monitoring Conducted by <b>VISON LABS</b>			

## TEST RESULTS

S.No.	Parameters	Units	Test Results	(NAAQS) Standards	Analysis Method
1.	Particulate Matter (PM <sub>10</sub> )	µg/m <sup>3</sup>	52	<100	Respirable Dust Sampler method (IS : 5182 P 23 – 2006, RA-2017)
2.	Particulate Matter (PM <sub>2.5</sub> )	µg/m <sup>3</sup>	26	<60	CPCB Guidelines for the measurement of Ambient Air Pollutants Vol. I, May 2011
3.	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	7.4	<80	Improved West and Geake method (IS : 5182 P II – 2001, RA-2017)
4.	Oxides of Nitrogen (NO <sub>2</sub> )	µg/m <sup>3</sup>	23.6	<80	Jacob and Hochheiser modified (Na- Arsenite) method (IS:5182 P VI – 2006, RA-2017)

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NOTE: - 1. Above tested results are well with the limits as per **NAAQS** (National Ambient Air Quality Standards)

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

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		Your Ref No	AHB/WO/BHU/Hospital/11
		Your Ref Date	17.06.2019
Date of Monitoring	07.01.2020	Sample Description	Ambient Air
Date of Registration	08.01.2020	Sample(s) condition	Found Ok
Monitoring Location	Near WTP Plant Area		
Monitoring Conducted by <b>VISON LABS</b>			

## TEST RESULTS

S.No.	Parameters	Units	Test Results	(NAAQS) Standards	Analysis Method
1.	Particulate Matter (PM <sub>10</sub> )	µg/m <sup>3</sup>	59	<100	Respirable Dust Sampler method (IS : 5182 P 23 – 2006, RA-2017)
2.	Particulate Matter (PM <sub>2.5</sub> )	µg/m <sup>3</sup>	28	<60	CPCB Guidelines for the measurement of Ambient Air Pollutants Vol. I, May 2011
3.	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	7.4	<80	Improved West and Geake method (IS : 5182 P II – 2001, RA-2017)
4.	Oxides of Nitrogen (NO <sub>2</sub> )	µg/m <sup>3</sup>	24.0	<80	Jacob and Hochheiser modified (Na- Arsenite) method (IS:5182 P VI – 2006, RA-2017)

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NOTE: - 1. Above tested results are well with the limits as per NAAQS (National Ambient Air Quality Standards)

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		Our Ref No	TC50642000000890F
		Your Ref No	AHB/WO/BHU/Hospital/11
		Your Ref Date	17.06.2019
Date of Monitoring	07.01.2020	Sample Description	Ambient Air
Date of Registration	08.01.2020	Sample(s) condition	Found Ok
Monitoring Location	Near DG Area		
Monitoring Conducted by <b>VISON LABS</b>			
Ambient Temperature <sup>0</sup> C	26 (Average)	Wind Direction	NE
Monitoring Conducted by <b>VISON LABS</b>			

## TEST RESULTS

S.No.	Parameters	Units	Test Results	(NAAQS) Standards	Analysis Method
1.	Particulate Matter (PM <sub>10</sub> )	µg/m <sup>3</sup>	42	<100	Respirable Dust Sampler method (IS : 5182 P 23 – 2006, RA-2017)
2.	Particulate Matter (PM <sub>2.5</sub> )	µg/m <sup>3</sup>	20	<60	CPCB Guidelines for the measurement of Ambient Air Pollutants Vol. I, May 2011
3.	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	6.3	<80	Improved West and Geake method (IS : 5182 P II – 2001, RA-2017)
4.	Oxides of Nitrogen (NO <sub>2</sub> )	µg/m <sup>3</sup>	17.8	<80	Jacob and Hochheiser modified (Na- Arsenite) method (IS:5182 P VI – 2006, RA-2017)

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NOTE: - 1. Above tested results are well with the limits as per NAAQS (National Ambient Air Quality Standards)

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## COMPRESSOR AIR ANALYSIS

<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	TC50642000000892F
		Your Ref No	AHB/WO/BHU/Hospital/11
		Your Ref Date	17.06.2019
Sample description	Medical Compressor Air	Sample condition of testing	Found Ok
Sample Collection Date	07.01.2020		
Sample Registration Date	08.01.2020		
Sample collected by VISON LABS, Hyderabad			

## TEST RESULTS

S.No.	Parameters	Units	Test Method	Test Results	Acceptance Criteria
1.	Odor	--	Qualitative	Odorless	Odorless
2.	Oxygen	%	IS/ISO 8573-6 Edn 2003 Annexure C by Gas Analyzer	20.4	NMT 21
3.	Carbon Monoxide	ppm	IS/ISO 8573-6 Edn 2003 Annexure C by Gas Analyzer	0.52	NMT 9
4.	Carbon dioxide	ppm	IS/ISO 8573-6 Edn 2003 Annexure C by Gas Analyzer	430	NMT 500
5.	Condensed Oil	mg/Nm <sup>3</sup>	IS/ISO: 8573-8,5 Edn 1999(Sampling) + VL/SOP/37, Issue No.01 Issue Date: 20.08.2018 (Analysis)	Nil	Nil
6.	Moisture Content	ppm	IS/ISO 8573-3 Edn 1999 Annexure C By Dew point Comparison	02.36	NMT 50.0

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### NOTE: -

1. NMT: Not More Than
2. Analysis was done as per standard methods prescribed by BIS.

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## AMBIENT NOISE LEVEL MONITORING 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	TC50642000000891F
		Your Ref No	AHB/WO/BHU/Hospital/11
		Your Ref Date	17.06.2019
Sample Collection Date	07.01.2020	Sample Registration Date	08.01.2020
Monitoring done by VISON LABS			

### TEST RESULTS

Units : dB(A)

S.No	Name of The Locations	Results Day Time
1.	Near Chiller Plant	62.4
2.	Near PMGS Plant	60.9
3.	Near WTP Plant	57.0
4.	Near D.G Area (1 meters away from D.G set)	66.3
5.	Near STP Plant	53.8

### Noise Level Ambient Standards

Area Code	Category of Area	Limits in dB (A) Day Time
A	Industrial Area	< 75
B	Commercial Area	< 65
C	Residential Area	< 55
D	Silence Zone	< 50

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#### Notes:

1. Noise monitoring were done as per standard method prescribed by IS 9876: 1981 (Reaffirmed-2001).

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