

**Laboratory D : Chemical (Air)**

Sr. No.	Group of products, materials or items tested	Specific tests or types of tests performed	Specification, standard (method) or technique used	Range of testing/ Limit of detection	MU (calculated at required level) (±)
1.	<b>Ambient Air</b>	Particulate Matter (PM2.5)	IS : 5182 (Part – 23) 2006	5 – 150 µg/m <sup>3</sup>	± 4.86% at 1.3530 µg/m <sup>3</sup>
2.		Particulate Matter (PM10)	IS : 5182 (Part – 23) 2006	5 – 250 µg/m <sup>3</sup>	±5.21% at 2.4958 µg/m <sup>3</sup>
3.		Suspended Particulate Matter (SPM)	IS: 5182 (Part– 4) 1973 (Reaffirmed-1999)	50 – 500 µg/m <sup>3</sup>	±4.64% at 5.3700 mg/Nm <sup>3</sup>
4.		Sulphur Dioxide * (SO <sub>2</sub> )	IS: 5182 (Part– 2) 1969 (Reaffirmed-2001)	1 – 200 µg/m <sup>3</sup>	±9.32% at 1.1728 µg/m <sup>3</sup>
5.		Oxides of Nitrogen* (NO <sub>x</sub> )	IS: 5182 (Part– 6) 1969 (Reaffirmed-2006)	0.5 - 100 µg/m <sup>3</sup>	±13.04% at 0.1509µg/m <sup>3</sup>
1.	<b>Stack Emissions</b>	Suspended Particulate Matter (SPM)	IS: 11255 (Part – 1) 1985	10 – 1000 mg/Nm <sup>3</sup>	±9.32% at 3.1606 mg/Nm <sup>3</sup>
2.		Sulphur Dioxide * (SO <sub>2</sub> )	IS: 11255 (Part– 2) 1985	1.0 – 150 mg/Nm <sup>3</sup>	±9.04% at 3.5217 mg/Nm <sup>3</sup>
3.		Oxides of Nitrogen* (NO <sub>x</sub> )	IS: 11255 (Part – 7) 2005	0.5 – 100 mg/Nm <sup>3</sup>	±14.09% at 0.3873 mg/Nm <sup>3</sup>

\* In case of both Ambient Air & Air (Stationary Location) Gaseous Pollutant Air present are absorbed in standard Absorbent media.