

TECHNICAL SPECIFICATION FOR ONLINE GAS ANALYZER

An online gas analyzer (based on electrochemical / NDIR / paramagnetic / thermal conductivity sensors) is required to measure the concentration of the following gases at the outlet of a lab scale solid waste combustion unit

Gas	Conc. range	Accuracy
O ₂	0-20%	0.5-1%
CO	0-25%	0.5-1%
CO ₂	0-50%	0.5-1%
CH ₄	0-20%	0.5-1%
H ₂	0-20%	0.5-1%
NO	0-1000 ppm	5 ppm
SO _x	0-1000 ppm	5 ppm

Outlet temperature of the exhaust gases < 100 °C

All the above gas concentrations should be measured and not calculated.

Continuous sampling and analysis of the gases should be possible.

Calibration certificate should be provided for all the above mentioned gases and their mixtures.

In-built display of the gas concentrations.

Data logger and software to record and transfer the data to a PC.

Tubing (10 meters) to connect the outlet of the exhaust to the analyzer.

In-built sampling pump provision is required.

Filter unit to trap the particulates and tarry vapors.

Should be capable of choosing the gases based on requirement.

Charging unit should be provided.

Warranty: 1 year from the date of installation.

Should provide cabinet or casing for the instrument.