Annexure - IV

Portable movable gas analyser system for the measurement of outlet gas composition in Laboratory reactor along with cooling arrangement and filter.

Sl. No.	Description	Qty
1	Gas Analyser for measurement of CO, CO2 Measuring Principle : ND-IR Measuring Ranges : CO : 0 - 2 vol% / 0 - 30 vol% CO2 : 0 - 2 vol% / 0 - 20 vol% Power Supply : 230 V AC, 50 Hz	1 no.
	Compact Sampling System *Consisting of the below components in a enclosure*	
2	Incoming Sample Filter	1 no.
3	Mini Gas Sample Cooler Power Supply : 230 V AC, 50 Hz.	1 no.
4	Auto Drain	1 no.
5	Moisture Filter	1 no.
6	Sample Gas Pump Power Supply: 230 V AC, 50 Hz.	1 no.
	Sample Flow Meter	3 nos.
8	5 Way Ball Valve	No. As required
9	Free Standing Mounting Rack with Wheels / Movable	1 no.
10	Fittings	As Req.
11	Internal Tubing	As Req.
	Calibration Cylinder	
12	Zero Gas Cylinder Composition : N2 Cylinder Capacity : 2.5 to 3.5 ltrs	1 no.
13	Span Gas Cylinder Composition: 80% of mixture of CO, CO2 span, balance N2 Cylinder Capacity : 2.5 to 3.5 ltrs	1 no.

	Additional Measurement - SO2, NO, CH4, H2 (Separate quotation)	
14	Gas Analyser for measurement of SO2, NO & CH4 Measuring Principle: ND-IR Measuring Ranges : NO : 0 - 500 ppm / 0 - 5000 ppm SO2 : 0 - 1000 ppm / 0 - 5000 ppm CH4 : 0 - 1000 ppm / 0 - 1 vol% Power Supply : 230 V AC, 50 Hz	1 no.
15	Gas Analyser for measurement of H2 Measuring Ranges : H2 : 0-10 vol% Power Supply : 230 V AC, 50 Hz	1 no.
16	Span Gas Cylinder Composition: 80% of H2 span, balance N2 Cylinder Capacity: 2.5 to 3.5 ltrs	1 no.
17	Span Gas Cylinder Composition: 80% of mixture of SO2 & NO & CH4 span, balance N2 Cylinder Capacity: 2.5 to 3.5 ltrs	1 no.

1. **On-site Installation**: - The equipment and accessories have to be installed or commissioned by the supplier within 10 days from the date of receipt of the item at the site of IIT Madras.