Detailed Specifications

- 1. The analyser should be capable of measuring THC (Total HC) , CO, NOx (NO and NO_2), O_2 and CO_2 from Diesel, LPG, CNG and Gasoline fuelled internal combustion engines.
- 2. Additional provision to measure Methane (Optional).
- 3. Complete (stand alone) system with gas handling, filtering and cabinet/rack to be provided.
- 4. Principle of operation range and accuracy needed are indicated below in the table.
- 5. A list of reputed research labs/R and D institutions or automotive R and D establishments around the world that use your automotive exhaust gas analysing instruments for similar measurements is to be provided.

Component	Range	Principle of Operation	Accuracy / repeatability	Linearity
THC (ppm C)	0-200,000 ppm C (or)	Heated FID (Flame ionization	+ / - 1 % Full	+/- 1% Full
,, ,	0-20000 ppm C3	detector)	Scale	Scale
CO ₂	0-20% Vol	NDIR (Non dispersive	+ / - 1 % Full	+/- 1% Full
	7 v	infrared analyser)	Scale	Scale
NO and	0-10000ppm	Heated –	+ / - 1 % Full	+/- 1% Full
NOx	,	Chemiluminescence	Scale	Scale
	(4)	(Single and dual channel		
		options to be quoted		
		separately)	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	
CO	0-10% vol	NDIR	0.01%	0.03% vol or
			volume or	3% of reading
	30		2% of	
	-		reading	
O_2	0%-ambient value	Paramagnetic analyser	0.1% volume	0.1% vol or
			or 2% of	3% of reading
			reading or	
	· 1	* 1	+/- 1% full	-
			scale	
Methane	0-1% Vol in different	Suitable FID or NDIR	+ / - 1 % Full	+/- 1% Full
	ranges		Scale	Scale