

## INDIAN INSTITUTE OF TECHNOLOGY BOMBAY MATERIALS MANAGEMENT DIVISION Proved: Month of 400076

Powai, Mumbai 400076.

## Ref No.(PR No. 1000035616)

(Rfx No. 6100001583)

SI. No.		Technical Specifications	Quantity	Compliance	Remarks
	Dual Channel	Ambient Fine Dust Sampler, For	16	Yes	
1	Simultaneous Measurement of PM2.5 And PM10				
	in Ambient Air	•			
	Microprocesso	r Based Model with Data Logging			
	for all 5 parame	eters.			
	Designed As I	Per International Standards			
		A Compliances & Indian			
	CPCB Guide L				
	PM 10 Inlet	USEPA based Omni-directional			
		ambient particle inlet with 10µ			
		separation assembly & sample			
		transport tube.			
	PM 2.5 Inlet	USEPA based PM10 Inlet			
		coupled with USEPA based PM			
		2.5 WINS Impactor for separation			
		of coarse particles.			
	Filter Media	Designed for accommodating any			
		filter paper having size 47mm (for			
		PM10) or 46.2mm (for PM2.5)			
	Flow Rate	Dual channel Flow display for			
	Meter &	PM2.5 and PM10 in LPM with a			
	Volume	Resolution of 0.01 LPM under			
	Totaliser	actual operating conditions.			
		Cumulative Volume totalization			
		after every 30 seconds available			
		on Display with resolution of			
		0.01m <sup>3</sup>			
	Flow	Flow rate for both channels			
	Control as	(PM2.5 & 10) independently			
	per FRM	maintained			
	sampler	Constant @ 16.67 LPM with ±2%			
	guidelines	Accuracy throughout Sampling			
	of USEPA	Period using indigenously			

	developed Microprocessor Based Digital Dual Flow Controller.
Clock / Timer System	Programmable Real Time control system with Automatic start & stop & Digital Display of Date & Time & Time of Sampling.  Accuracy ± 2 min / month.
Temperature Sensors	One Ambient Temperature & 2 Filter Temperatures (for PM2.5 and PM10) Range - 5°C to 50°C With a Resolution of 0.1°C.
Bar Press Sensor	Range 600 to 800 mm Hg. Resolution, 1 mm Hg
Display	20x4 LCD display showing parameters in real time with switchable option for viewing PM2.5 or PM10 parameters • Flow Rate in LPM • Volumetric Flow in m³ • Barometric Pressure in mmHg • Ambient Temperature in Deg C • Filter Temperature in Deg C  RS-232C for connection to PC
Terminal USB PORT	and USB Flash Drive  USB Interface for remote data logging into PEN/USB drive. (Data Transfer Module)
Calibration	Factory Calibration Certificate
Accessory 1	Thermoelectric Gaseous Sampling Attachment IPM 117 (16 Nos)
Accessory 2	MS Coated Carry Case (16 Nos)
Warranty	12 Months from the date of Dispatch