

HIGH VELOCITY CENTRIFUGAL BLOWERS AND FLOW RATE METER

Sr.	Description/Specifications	Quantity
1.	High volume centrifugal blower MRP452 or equivalent Make: EU or UK or equivalent Specification sheet as per Annexure-B vide page no 03/05 Essential spare be quoted separately for fifteen years	15 nos
2.	Air flow Meter & Totalizer Make: EU or UK or equivalent Specification sheet as per Annexure-C vide page no 04/05	10 nos
3.	Multifunction Airflow Meter With Capture Hood Make: EU or UK or equivalent PCE-VA 20-SET-ICA or equivalent Specification sheet as per Annexure-D vide page no 05/05	01 no
4.	Industrial Scale Natural Gas Meter High range with secure reset option (Inlet & outlet dia: 4", approximate Air flow: 500-4000 m ³ /hr)	02 nos
5.	Vibration meter PCE-VT 1100 or equivalent Essential spare be quoted separately for five years	01 no

Important Note:

- Make and country of origin should be clearly mentioned in quotation.

Annex-B

Specifications of High Velocity Centrifugal Blowers

- i. Direct driven high-Volume Centrifugal Blower (preferably MPR 452 or equivalent)
- ii. Approx. Air Flow: 18-50 m³/min
- iii. Inlet pressure: 225-341 kg/m²
- iv. Outlet Pressure: 230-355 kg/m²
- v. Installed Power (Electric Motor): 3kw 100L -2 poles
- vi. Rotation speed: 2900 round/min
- vii. Fluid type: Air (clean, dusty)
- viii. Orientation: LG90
- ix. Operating temperature conditions: up to 55 °C
- x. Durable for round the clock operation
- xi. Make: EU or UK or Equivalent

Essential Spares and accessories with quoted blower(for 15 years):

Bearing assemblies with quoted blower

Spare Motors for quoted blower

Silencer/Noise attenuator at exhaust

Maintenance Kit including bearing puller tool, essential tools etc

for rectangular flanged outlet, quoted rectangular outlet to 4" circular assembly
(counter flange assembly)

P#04/05

Annex-C

Specifications of Air Flow Meter & Totalizer

- i. Any Type (Orifice plate/venturi/Constriction nozzle/Turbine Flow Meter)
- ii. Approximate Flow capacity: 4000 m³/hr
- iii. **Must have totalizer option** (preferably mechanical type like in case of old Residential Natural Gas Meter)
- iv. Able to read instantaneous flow and totalize accumulated flow
- v. Approx. Pipe Dia: 4"
- vi. Pressure range: 200-400kg/m²
- vii. operating temperature: up to 55 °C or higher
- viii. Durable & capable of 24/7 operation
- ix. Each essential spare also be quoted separately for 10 years
- x. Necessary Maintenance kit
- xi. Make: EU or UK or equivalent

Application:

To be fitted at discharge of centrifugal blower at remote location.

P#05/05

Annex-D

Specifications of Multifunction Air Flow Meter with capture hoods

Model : PCE-VE 20-SET or equivalent meeting following specifications.

Approximate Air Velocity Range: 5-45m/s

Estimated Volume Flow Range: 20-4000 m³/hr

Air Temperature range: up to 55 °C or higher

Operating Temperature conditions: 40- 55 °C

carrying case must be included

Make: EU or UK or equivalent

Essential Spares:

Essential spares like batteries etc must be quoted with price separately for each spare item.