DEPARTMENT OF MECHANICAL ENGINEERING NATIONAL INSTITUTE OF TECHNOLOGY: TIRUCHIRAPPALLI -15

Tender No.6/2007

Item. No. 5. MEC Respirable Dust High Volume Sampler with Thermo electrically cooled gaseous sampling attachment

Respirable Dust High Volume Sampler with thermo electrically cooled gaseous sampling attachment

Specifications:

0.9 to 1.4 m³/min free flow (with flow stabilization Flow Rate:

disabled and electronic flow controller to maintain

constant flow)

Particle size: Particles of 10 microns and below collected on Filter

Paper holder. SPM bigger than 10 microns collected in

a separate sampling bottle under the cyclone.

Sampling Time: 28 Hrs (maximum)

0 to 9999.99 hrs recorded on a Time Totalizer Sampling Time Record:

Automatic Sampling: 24 hrs programmable timer to automatically shut off

the system after pre-control set time interval.

Power Requirement: 220V, Single Phase, 50Hz AC mains supply.

Size and Weight. 400×300×650mm, 60kg.

Filter Papers: 200sheets, GF/A Grade, Glass Fibre Filter, 8" x 10"

Thermo electrically cooled Gaseous Sampling Attachment Specifications:

Flow Rate: 0.3 to 3 LPM, ±2% accuracy on span.

Flow Control: Four inlet and one outlet with built in needle valves for

flow control.

Sampling Train: 4Nos. of 35ml Borosilicate midjet glass impingers. Reagents: Absorption and analysis of Gaseous Pollutants like

NO_x and SO₂

Size and Weight: 240×125×350mm, 2kg.