



INDIAN INSTITUTE OF TECHNOLOGY BOMBAY

MATERIALS MANAGEMENT DIVISION

Powai, Mumbai 400076.

Ref. PR No. 1000037629

Rfx. No. 6100001639

Technical Specification of Realtime Aerosol Chemical Characterization Monitor (RACCM)

| Sr. No. | Detailed Specification | Qty | Compliance (Yes/No) |
|---------|--|-----|---------------------|
| 1. | <p>Detection Limits (in $\mu\text{g}/\text{m}^3$, 10 minutes, 3σ):</p> <ul style="list-style-type: none">\leq Organic: 0.35\leq Sulfate: 0.05\leq Nitrate: 0.10\leq Ammonium: 0.20\leq Chloride: 0.08 <p>Data collection time resolution: Adjustable, but at least one data in every 10 minutes or less</p> <p>Sample Flow: more than 80 cc/min but less than 100 cc/min (volumetric flow)</p> <p>Operating Pressure: Ambient</p> <p>Aerosol Size range (vacuum aerodynamic diameter): ≤ 120 nm to ≥ 700 nm</p> <p>DAQ Control: Hi-speed USB 14 bit acquisition card, PC attached to the equipment or embedded in an instrument rack.</p> <p>Size/Weight: ≤ 70 cm x 60 cm x 90 cm, less than 90 kg</p> <p>Electric Power: 600 W Max; 90-260 VAC, 50-60 Hz</p> <p>Software: Custom acquisition and analysis routines. Specialized routines for organics source apportionment</p> <p>Warranty : 1 Year</p> | 1 | |