

No.ICFOSS/28/2025-TC4(IT)Part-(1)

14/09/2026

QUOTATION NOTICE

Competitive quotations are invited from qualified firms/agencies for Fermion: BMV080 - Smallest Fanless Air Quality Sensor PM1 PM2.5 and PM10. Specification & technical details as follows:

Item	Description	Quantity
Fermion: BMV080 - Smallest Fanless Air Quality Sensor PM1 PM2.5 and PM10	Device Type: Particulate matter sensor for air quality monitoring. • Target Measurement: PM2.5 / particulate matter in air. • Operating Voltage: 3.3V DC. • Operating Current: Around 70 mA at 3.3V in continuous measurement mode. • Sleep Current: Around 6 μA at 3.3V. • Communication Interface: I2C / SPI. • Connector Interface: 2.54 mm pin header socket or equivalent. • I2C Address: Default 0x57, with configurable address support preferred. • PM2.5 Measurement Range: 0–1000 μg/m³. • Output Resolution: 1 μg/m³. • Measurement Accuracy: ± 10 μg/m³ for 0–100 μg/m³ and $\pm 10\%$ for 101–1000 μg/m³. • Minimum Detectable Particle Size: 0.5 μm or better. • Measurement Modes: Continuous and periodic measurement modes. • Start-up Time: Around 1.2 seconds. • Stabilization Time: Around 10 seconds. • Laser Safety: Class 1 laser, compliant with IEC 60825-1 standard. • Operating Condition: Condensation shall not occur on the laser diode. • Dimensions: Approximately 24 × 20 × 4.24 mm. • Mounting Provision: Mounting holes with approximately 2.0 mm inner diameter and 19 mm spacing.	15

Rate should be quoted in gross amount including GST. Sealed quotation shall be reached this office on or before 4pm on 18/09/2026 to the undersigned marked properly on the cover “Quotation for Fermion: BMV080 - Smallest Fanless Air Quality Sensor PM1 PM2.5 and PM10”

Quotation will be opened on 18/09/2026 at 4.30pm





Bijumon Joseph
Secretary & Registrar
ICFOSS