

TECHNICAL SPECIFICATIONS AND OTHER ALLIED REQUIREMENT

Sl No.	Description of items	Quantity
PUR/539/COE-FMPA/AM/E/2019-20		
1	SUPPLY INSTALLATION TESTING AND COMMISSIONING OF PORTABLE VIBRATION ANALYSER	1

1. INSTALLATION, COMMISSIONING AND TRAINING

- 1.1. The ordered goods are required to be installed and commissioned within 15 days of receipt of goods at final destination. Installation should be carried out only by expert engineers of Supplier / Manufacturer. During the course of installation, necessary training on operation and maintenance of the goods shall be imparted to Institute's Scientist / Engineers/Technicians.

2. WARRANTY

- 2.1. Comprehensive on-site warranty for a period of one year must be provided to be effective from the date of completion of installation and commissioning and final acceptance of the items / equipment at the user's laboratory / Institute.

Specification of Portable Vibration Analyser

1. Number of Channel: one or more
2. Device measurement, range/accuracy
 - RPM: 10-15000rpm / ± 1 rpm
 - Displacement: 0-peak, peak-peak, 5000 $\mu\text{m(p-p)}$ / $\pm 2\%$ or better
 - Velocity: RMS, 0-Peak, 500mm/s(rms) / $\pm 2\%$ or better
 - Acceleration: (RMS, Peak), 500m/s² or better
3. FFT Spectrum
 - Fmin: 2Hz
 - F max: 125Hz-35kHz or better
 - Lines: 100-6400 or better
 - Window: Rectangular and Hanning
4. Operating modes
 - Vibration:
 - Overall values: vibration (acceleration, velocity, displacement), shock pulse(roller bearing condition), RPM.
 - Signals: FFT spectrum(amplitude, envelope), time-signal.
 - Tachometer: speed.
5. Memory
 - System flash memory: 2MB or more
 - Data file storage capacity: 500 file (min.)
6. Display: Graphic LCD With back-light
7. Supply
 - NiMH Battery, Exchangeable
 - Device charge time less than 3hrs
 - Operating duration : > 8hrs
8. Temperature range
 - Storage: 20° C to 70° C
 - Operation: -10° C to 55° C

Standard Delivery:

1. Vibration Analyser
2. Accelerometer, 2pcs
3. Accelerometer magnetic stud, 2pcs
4. Tachometer with cable attached
5. Magnetic mounting stand for tachometer
6. Bearing condition probe with cable attached
7. USB PC communication cable
8. AC charger
9. PC software & operating manual in CD-ROM
10. Calibration & Quality certificates
11. One carrying case with form insert
12. Warranty: 1 year

Terms and conditions

- Calibration / Repair Services should be available in India.
- Equipment & Transducer calibration certificate traceable to NABL / International standards
- Training : onsite (Two days minimum) at CMERI-CoEFM, Ludhiana -6

