

Indent No.:636210628 / Rev 01

## Technical Specification for Digital Display Vibration Meter

|     |                                 |  |
|-----|---------------------------------|--|
| A   | Vibration Analyzer includes     | 1. Carrying Bag<br>2. Instruction manual   |
| B   | Vibration monitoring includes   | 1. Vibration Transducer<br>2. Probe<br>3. Cable<br>4. Magnetic Base<br>5. Holding screw<br>6. 01 No. spare cable   |
| C   | Speed Monitoring includes       | 1. Tachometer probe with cable<br>2. Contact adapter<br>3. Contact centre<br>4. Contact wheel<br>5. Reflecting tape pad<br>6. 01 No. spare cable<br>7. Spare rubber tips |
| D   | Temperature Monitoring includes | 1. Temperature probe with cable<br>2. 2 Nos. Temperature probe tips  |
| 1   | Shock pulse (SPM dBm/dBc)       |  |
| i   | Measuring range                 | -9 to 99 dBsv  |
| ii  | Resolution                      | 1dBsv  |
| iii | Accuracy                        | $\pm 1$ dBsv   |
| 2   | Vibration severity (ISO 10816)  |  |
| i   | Measuring range                 | 0.1 to 49.9 mm/s RMS   |
| ii  | Resolution                      | 0.1 mm/s   |
| iii | Accuracy                        | $\pm(0.1 \text{ mm/s} + 2\% \text{ of reading})$   |
| iv  | Frequency range                 | 3 to 1000 Hz   |
| 3   | Vibration analysis (EVAM)       |  |
| i   | Window                          | Hanning  |
| ii  | Number of samples               | 1024/2048  |
| iii | FFT result                      | 400/800 spectrum lines   |
| iv  | Frequency range                 | 3 to 5000Hz  |
| v   | Lines displayed                 | 15 highest, toggle Hz/cpm  |
| vi  | Line saved                      | 1 to 200 Highest   |

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| 4  | <b>Speed measurement</b>        |   |
| i  | Measuring range                 | 10 to 19999 rpm optical   |
| ii   | Measuring distance              | Max. 0.6m   |
| iii  | Resolution                      | 1 rpm   |
| iv   | Accuracy                        | $\pm (1\text{rev.} + 0.1\% \text{ of reading})$   |
| 5  | <b>Temperature measurement</b>  |   |
| i  | Measuring range                 | -20 to +350 <sup>0</sup> C  |
| ii   | Resolution                      | 1 <sup>0</sup> C  |
| 6  | <b>Instrument specification</b> |   |
| i  | Temperature range               | 0 to +50 <sup>0</sup> C   |
| ii   | Power supply                    | Battery operated with 1.5V Cells  |
| iii  | Battery life                    | Power down 1 Year   |
| iv   | Instrument size                 | Portable handheld   |
| v  | Weight                          | Portable handheld   |
| vi   | Casing / cover                  | ABS/ polyurethane   |
| vii  | Keypad                          | Sealed membrane   |
| viii   | Display                         | LCD ,4x16 characters, LED back light  |
| 7  | <b>Other Features</b>           | <ol style="list-style-type: none"> <li>1. Calibrator</li> <li>2. Automatic power off</li> <li>3. Language selection</li> <li>4. Battery test</li> <li>5. Vibration severity, ISO-10816</li> </ol> |
| <b>Note</b> Acceptance of meter depends upon its successful calibration/ commissioning at BHEL Jhansi works. |                                 |   |

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