

TECHNICAL SPECIFICATION FOR DUAL CHANNEL VIBRATION ANALYSER

Sl. No.	Features	Specification Requirement	Bidder's Remarks
1	Operational Requirement	<ol style="list-style-type: none"> 1. Instrument must be capable of carrying out the 'Vibration Analysis' and 'Balancing' of Hydro, Thermal & Gas Power generating machines including any other rotating equipment. And also must be capable of measuring 'Shaft & Bearing Housing Vibration'. 2. Instrument must be capable of recording data of Vibration, Velocity, and Displacement & Speed of all Power generating machines. 3. It should have capability for analyzing data for time & frequency domain and real time data capture & display. 4. Instrument should be capable of analyzing Overall Vibration, Time signal & phase, FFT, Live Spectrum, Bode plots, Orbits etc. 5. Instrument should be capable of accepting signals from all standard type of vibration probes. 6. Instrument should be portable i.e. comfortable for carrying. 7. There should be facility to 'Store' data & 'Transmit' data to PC. 	
2	Accessories Required	<ol style="list-style-type: none"> 1. Non-contact Pick-ups (For 'Shaft Vibration') with extension leads. --- 6 Nos. 2. Vibration Pick-ups (For measuring 'Bearing Housing Vibration' of frequency range from 1 Hz to 10 KHz) with magnetic base & cable --- 3 Nos 3. Extension leads (20 Meters Length) for Vibration Pick-ups --- 3 Nos. 	

		<ol style="list-style-type: none"> 4. DC supply for all non-contact Pick-ups. 5. Proximeters --- 6 Nos. 6. Cables (20 Meters Length) from 'Proximeter to Instrument'. --6 Nos. 7. Hard carrying case with provision for keeping manuals, probes, cables etc. 8. Photocell (For Speed & Phase Measurement) --- 2 Nos. 9. Extension cable (10 Meters Length) for Photocell --- 1 No. 10. 10 Points 'Selector Switch Box' for 'Velocity Pick-ups & Non Contact Pick-ups' having 2 Nos. parallel output signal terminals with inbuilt 24 V DC supply and connecting cable to the instrument. 	
3	Power Supply Back-up & operating time.	The instrument should have rechargeable battery back up with min. 6 to 8 hours of continuous operation.	
4	Frequency Range of Instrument.	0 to 20 K Hz	
5	Other Requirements	<ol style="list-style-type: none"> 1. Calibration Certificates of Instrument. 2. Instruction Manual. 3. Hard carrying case with lockable arrangement. 4. Guarantee /Warranty Certificates. 5. Service center India. Preferably in & around Delhi. 6. Supplier should provide calibration facility. 7. Commissioning, testing & training of personal at purchaser's office. 	
6	Vender List	Preferably Rockwell Automation, Entek IRD, Bentley Nevada, Schenck, SPM, or equivalent makes.	