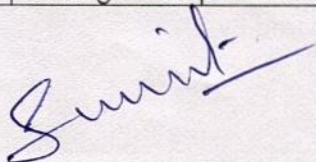


TECHNICAL SPECIFICATIONS OF INTEGRATING-AVERAGING SOUND LEVEL METER**(COMPLIANCE SHEET)**

SL NO	Description	Remarks/ Vendor to specify
1	General Purpose: The Instrument should be Integrating, fully automatic and suitable to use for assessment of Environmental Noise levels, measurement of noise in workplace like Humming Noise level of power Transformers & Rectifier transformer at its rated voltage	
2	Standards: The instrument should comply with all the latest Sound level Meter Standard IEC/INSI or any equivalent standard; precision, Robust and easy to use.	
3	Type: Instrument should be of Integrating averaging Sound Level Meter Simple in use-just point and measure. It should measures the equivalent, or average, sound pressure level L_{eq} and capable to measure the instantaneous, maximum and peak sound pressure levels at the same time.	
4	User Interface: Start/stop key: for starting & stopping the measurements Parameter Keys: for selecting required parameters to display Range Key for selecting the measurement range	
5	Parameters: Should measure four parameters simultaneously. LAF: Instantaneous sound pressure level, frequency weighting 'A' and time weighting 'F' LAFmax : Maximum sound pressure level, frequency weighting 'A' and time weighting 'F' LAeq: Equivalent continuous sound pressure level, frequency weighting 'A'	
6	Resolution: 0.1 db for all parameters.	
7	Measuring Ranges: RMS: Total range 30- 130 db, Linear Operating range : (Wide Range) and (normal Range) Accuracy Class: standard ± 1.5 db or better (at 1 kHz)	
8	Detectors: Simultaneous RMS & Peak with independent frequency weightings	
9	Frequency Range: 20 Hz to 16 kHz	
10	Frequency Weighting : - A - Weighting (RMS) C - Weighting (Peak) Time Weighting : - F - (Fast) S - (Slow)	
11	Microphone: Prepolarized Free field or back electret type 1/2" Condenser Microphone /back electret Sensitivity : - 29 db Frequency Range: 20 Hz to 16 kHz	
12	Display : Semitransparent LCD with LED backlight Measurement value displayed by numeric and bar indicators Displays of date, time, measurement time, Measurement in Progress, Selected parameters with level.	
13	Update Cycle: 1 Second (numeric), 0.1 Second (bar graph)	
14	Settling Time: Less than 05 Second	
15	Environmental Conditions: Operating Temperature: 0 °C to 50 °C, Storage Temperature: 0 °C to 50 °C,	



TECHNICAL SPECIFICATIONS OF INTEGRATING-AVERAGING SOUND LEVEL METER**(COMPLIANCE SHEET)**

16	Batteries: AA- alkaline batteries Should be approx 8 Hrs.	
17	Physical characteristics: Dimensions :275 x 80 x 48 mm (max) including microphone Weight: should not be more than 480 grams including batteries.	
The Test equipment shall be offered complete with the items as mentioned below...		
18	• Main Equipment with different type of accessories needed including, Wind screen, Prepolarized Free field or backelectret 1/2" Microphone, Carrying Case, batteries etc. • Two sets of operating and maintenance manuals in English language. • Original technical catalog to be included along with technical bid • Three sets of calibration reports from NABL accredited Lab with following data i.e. Calibration date, periodicity, calibration validity duration & next calibration due date, Uncertainty, Traceability details of standard used for calibration • All documents should be endorsed by authorized signature.	
19	Price of one set of spare microphone suitable to offered model to be quoted with the offer.	
20	Performance & Warranty Certificate: The Supplier shall guarantee the product performance for 24 months from the date of successfully commissioning at our works and shall provide spares and services during guarantee period to maintain the Sound Level meter in working condition.	
21	Installation/Commissioning/Acceptance: Installation/Commissioning of the instrument to be done at BHEL Jhansi works by supplier's representative free of charge. Demonstration of all features of Sound Level Meter & all accessories to satisfaction of BHEL for their efficient and effective use. Instrument shall be accepted only after successful calibration at our end.	
22	Live Demonstration: Live demonstration of offered meter shall be called during technical evaluation if required.	
Note: Supplier should submit his technical compliance/comments against points in above format. Technical bid without complete technical compliance sheet will not be considered for technical evaluation.		

Checked and Approved By

Prepared By-

