

**Civil Engineering Department**  
**IIT Delhi, Hauz Khas, New Delhi -16**

December 18, 2014

Sealed Quotations are invited in Indian Rupees (INR)/USD/EURO from well-known companies/distributors or their authorized Indian representatives for supply of following equipment's conforming the technical specifications and prescribed terms & conditions as given hereunder. Interested parties are required to submit their quotations.

The bid should be addressed to Dr Supratic Gupta and submitted/sent by post at Department of Civil Engineering, IIT Delhi, Hauz Khas, New Delhi – 110016 latest **by 1:00 PM on January 2, 2014.**

S.NO	Product	Description
<b>1</b>	<b>Audio Analyzer</b>	
1a	Sound Pressure Level Measurements	<ul style="list-style-type: none"> <li>•SPL actual, Leq, Lmin, Lmax, Lcpeak</li> <li>•All measurement results are simultaneously available.</li> <li>•Correction value measurement wizard.</li> <li>•Logging all data or subsets in selectable intervals.</li> <li>•Digital I/O interface for control external peripherals.</li> <li>•Level resolution: 0.1dB</li> </ul>
1b	Weighting	<ul style="list-style-type: none"> <li>•Frequency Weighting: A, C, Z, X-curve acc.ISO2969</li> <li>•Time Weighting: Fast and Slow</li> </ul>
1c	Real Time Analyzer (RTA)	<ul style="list-style-type: none"> <li>•Frequency resolution: 1/3 octave, 1/1 octave, wide band.</li> <li>•Frequency range: 6.3Hz to 20kHz.</li> </ul>
1d	Reverberation Time RT60	•1/3 octave bands results from minimum 50Hz to 5000Hz (1/3 octave band centre frequency)
1e	Frequency	Range: 50 to 5kHz (1/3 octave band centre frequency)
1f	USB Interface	USB connector for data transfer to PC
1g	Memory	If Internal memory only available. (Minimum 10000 individual measurements)
1h	Power Supply	Rechargeable Li-Po or Dry cell batteries type AA Battery life: Minimum 4 hours
1i	Mechanics	Tripod mount and wire stand mounted on rear side.
1j	<b>Optional feature Audio recording (If not available 15%cost will be increased for compression)</b>	Audio recording directly or by connecting through computer
<b>2</b>	<b>Class 2 Frequency measurement Microphone</b>	
2a	Microphone Type	Omni directional, pre-polarized condenser, free field microphone
2b	Capsule/ Transducer	½" detachable capsule according IEC 61094-4 or IEC 61672 standards
2c	Frequency range	6Hz to 20kHz
2d	Maximum SPL @THD 3%, 1kHz	144 dB SPL
2e	Sensitivity typical @1kHz	26 mV/Pa
<b>3</b>	<b>Omnidirectional Speaker with Suitable Amplifier</b>	<ul style="list-style-type: none"> <li>• Dodecahedron or Hemi-Dodecahedron omnidirectional Compliance to ISO 140</li> </ul>

		<ul style="list-style-type: none"> <li>• It should be light in weight with appropriate mounting accessory and satisfy the requirements of ISO 140 and ISO 3382 standards.</li> <li>• Frequency range: minimum 50-5000 Hz (1/3 octave band centre frequency)</li> <li>• Temperature Range: +5 to 40 °C</li> <li>• Suitable amplifier to power the Omni directional speaker.</li> </ul>
4	<b>Sound Source</b>	Should generate Pink noise and White noise
5	<b>Calibration Certificate</b>	One year Calibration Certificate for Acoustic & Audio Analyzer and Measurement Microphone
6	<b>Heavy duty carrying case</b>	For all instruments either separately or single carrying case

### Terms and Conditions:

1. The **Technical Bid** with detailed specifications and **Commercial Bid** for financial details should be in two separate sealed envelopes marked as “**Technical Bid**” and “**Financial Bid**”, put into one larger envelope and marked as “**Quotation for Sound insulation measurement setup**”. All envelopes should bear the title of the item quoted and the content, failing which the quotation shall be rejected.
2. Vendor should attach a letter from the manufacturer/their product principal permitting to quote for this tender at IIT Delhi for authenticity of dealership/agency and the dealer should be an authorized service provider. Quotations without authorized service provider certificate will be rejected.
3. Vendor should provide a certificate from their product principal clearly mentioning on-site comprehensive warranty at least for one year for the equipment. Vendor may also quote for additional two year additional warranty charges separately as an optional. item
4. The Company/Manufacturer should be registered for ISO certificate. The Company/Vendor should attach a copy of the certificate.
5. The Vendor should have minimum experience for selling similar kind of equipment should be at least for 5 years.
6. If the item quoted is proprietary in nature, please enclose proprietary certificate from the principals stating, “Certified that \_\_\_\_\_ is a proprietary of M/s \_\_\_\_\_ and no other manufacturer makes this item.”
7. Special discount/rebate wherever admissible keeping in view that the supplies are being made for educational purpose in respect of Public Institution of national importance may please be indicated.
8. Validity of the quotation should be at least 90 days from the closing date of this tender.
9. Applicable taxes, duties, delivery period, payment Terms and Conditions should be clearly mentioned.
10. Preferred modes of payment for foreign agents are through Letter of Credit (L/C) or as payment on delivery. For Indian agents, typically payment is on delivery. The payment will be made on the norms and conditions of IIT Delhi
11. All prices quoted should be FOB/CIF New Delhi.
12. Vendor should attach the relevant product brochure/leaflet for the model quoted.
13. A signed, stamped compliance sheet should be provided along with the technical bid, the specifications format for compliance sheet should be similar to the given specification sheet.

14. Supplier/Vendors will do the installation of Equipment at IIT Delhi without any additional cost.
15. The power cables, power plug used for equipment supplied should be compatible as per Indian power supply standards i.e Single phase 220 - 240 Volts AC, 50Hz.
16. In case a Computer System is required for processing of observed data of the equipment to be supplied, the required Computer System would be made available by us. The price for computer system should not be included in the equipment's cost but the software for data acquisition should be compatible with MS Windows environment i.e all version of MS Windows 7 / Windows 8 Operating Systems.
17. **The institute authority /purchase committee reserves the right to accept or reject any bid or all quotations without assigning any reasons whatsoever. The purchase committee also has the right to increase/decrease quantity of items/optional accessories/consumables as per the requirement and available budget.**