



Pre-bid Meeting (ONLINE Mode) held on 14-12-2023 at 1100 hours
Tender No.: TENDER/2023-24/PRJ_069 dated 30-11-2023
QUERIES AND CLARIFICATIONS

TENDER FOR SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF IMPEDANCE TUBE TEST FACILITY

The following members have participated in the Online Meeting held on 14-12-2023 at 1100 hours:

1. Dr. Anoop Akkoorath Mana, Assistant Professor, Mechanical Engineering
2. Ms. Thasnin Harish C M, Assistant Registrar (Stores and Purchase)

Table-A indicates the Authorized Representatives of the firms participated in the Pre-bid Meeting.

Table-A

Sl. No.	Name of the Firm and details of the Authorized Representative(s) who participated
1.	Mr. Ganesh HV - M/s. Adams Technologies Private Ltd., Chennai
2.	Mr. Amar Kumar - M/s. Adams Technologies Private Ltd., Chennai
3.	Mr. Sudharsan C - M/s. Svi Geonoise Technologies Private Limited
4.	Mr. Abhishek Kasliwal - M/s. Welan Technologies, Pune

Table-B indicates the Queries raised and Clarifications provided.

Table-B

S. No.	Clause No.	Tender Clause	Query	Clarification
1.	Page No. 3 Terms and Conditions: Sl.No. 3: Documents Comprising The Bid (Point: (h (1)))	Bidders who are bidding for this tender should have implemented at least TWO ORDERS of Impedance Tube Test Facility during previous five financial years (2018-19, 2019-20, 2020-21, 2021-22, 2022-23) from Centrally Funded Technical Institutes (IITs, NITs, IISc, IISER), DRDO, ISRO, CSIR labs or Government Firms in India. Copies of the most recent purchase orders and user certificates of successful implementation must be included. Copies of financial statements or evidence of turnover must be furnished.	We have reference of supply and execution of the impedance tube more are private funded projects like IIT Madras, Vit etc. We request to extend your terms as similar system in both Centrally Funded Technical Institutes and private funded also.	We will also consider all Institutes of Eminence (https://ioe.ugc.ac.in/Home/ListofIOE) along with CFTIs.
2.	Page No. 4 Terms and Conditions: Sl.No. 5: PERFORMANCE SECURITY (point (a))	The performance security shall be submitted within FIFTEEN DAYS of receipt of the material by the IITPKD. The successful bidder shall furnish the Performance Security equal to 5% of the order / contract value (excluding the value of annual maintenance charges). The Performance Security shall be valid all along the warranty period and shall extend up to SIXTY DAYS after the date of completion of warranty period. It shall be ensured by the successful bidder that the validity of the Performance Security submitted is extended depending on the date of commencement of the Warranty.	The Impedance Tube is ready to use system, we request you the waive of the PBG. If waiving PBG is not possible, we urge you to reduce PBG to 2%.	Waiving the submission of the Performance Bank Guarantee (PBG) or reducing the PBG to 2% is not possible. The successful bidder is required to provide a Performance Security equivalent to 5% of the order/contract value.

3.	<p>Page No. 4</p> <p>Terms and Conditions: Sl.No. 7: Letter of Credit</p>	<p>(a) Upon the successful Bidder's furnishing of the copy of the Purchase Order duly signed on each page and the Performance Security, for the equipment ordered in foreign currency, IITPKD will open a letter of credit (LC) in a convenient Nationalized Bank in India. For opening of LC necessary information shall be provided by the supplier or its authorized agents.</p> <p>(b) In case the successful bidder is a foreign company and wishes to submit Performance Security in the form of Bank Guarantee, the Bank Guarantee should be routed through the Beneficiary Bank to the end user bank. Otherwise, the Indian Agent of the foreign vendor shall submit a Bank Guarantee from a Nationalized Bank of India. The following documents shall be submitted in case of an Indian agent submitting the Performance Security on behalf of his principal:</p> <ul style="list-style-type: none"> · Foreign principal's proforma invoice indicating the commission payable to the Indian agent and nature of after-sales service to be rendered by the Indian agent. · Copy of the agency agreement with the foreign principal and the precise relationship between them and their mutual interest in the business. <p>For imported equipment, a Letter of Credit (LC) shall be opened for</p> <p>100% CIP price on receipt of the acknowledgment of the purchase order. However, 80% of the LC amount only shall be released on proof of the shipment of the consignment with necessary documents to be provided in detail at the time of placing of the purchase order. Balance 20% of the LC amount shall be released upon the receipt of a performance security of 5% of the total value of the purchase order and installation, commissioning, integration, validation and installation report/certification jointly given by the end user and the supplier.</p> <p>Any costs associated with the amendments made in the LC as per the request made by the Supplier s should be borne by the supplier.</p> <p>Any fluctuation in rates / rate conversions arising due to the amendment requests made by the supplier shall be on the supplier and not on the institute.</p>	<p>Please confirm, can we quote partial items in foreign currency and balance items in Indian Rupee.</p>	<p>Quoting partial items in foreign currency and the remaining items in Indian Rupees is not allowed. The bidder should quote all items in Indian Rupees only.</p>
4.	<p>Page No. 5</p> <p>Terms and Conditions: Sl.No. 9: TIME FOR SUPPLY, INSTALLATION, COMMISSIONING AND VALIDATION OF THE EQUIPMENTS/ ITEMS (point no. (a))</p>	<p>The Supplier shall supply the equipment/items within the period specified in the tender document i.e. within 8 WEEKS of signing the purchase order or within the period mutually agreed between IITPKD and supplier. All the equipment and accessories should be delivered at IIT Palakkad, Dr. APJ Abdul Kalam Block, Sahyadri Campus, Kanjikode West, Palakkad – 678623, Kerala.</p>	<p>8 weeks delivery time will be very marginal looking at the system size. We would like you to consider it as 8 to 12 weeks. Additional buffer of 4 weeks.</p>	<p>The time for supply may be revised as 8 to 12 weeks. No additional buffer time.</p>
5.	<p>Page No. 5</p> <p>Terms and Conditions: Sl.No. 10: PRODUCT UPGRADES</p>	<p>The Supplier shall continue to support and maintain the version/model of the Equipment supplied by upgrading the software and the hardware as and when amendments are carried out in the existing version or the product is upgraded. Whereas upgrades to the software shall be supplied free of cost, the Supplier may charge for upgrade in hardware provided it is of major nature. An upgraded higher version of the instrument and software related with the instrument shall be supplied.</p>	<p>Our standard terms are one year warranty only. For additional 2 years, we only offer AMC. The AMC will include any hardware maintenance. Software Upgrades if required, can be quoted separately</p>	<p>The software and hardware supplied by the vendor must be able to work for a period of at least three years. If there are any mandatory upgrades either on software or on hardware that are necessary for conducting experiments, these upgrades must be provided at no additional cost for a period of THREE years.</p>

6.	Page No. 5 Terms and Conditions: Sl.No. 12 UP-TIME GUARANTEE/ DOWNTIME PENALTY CLAUSE	(a) The Supplier should provide up-time guarantee of 95% [24 (hours) X 7 (days) X 365 (days)] basis during the warranty period. (b) The Supplier should provide up-time guarantee of 95% (24 hours/day basis) both during warranty. If downtime exceeds the 5% limit, extension of the warranty period will be twice the excess down time period.	Our standard warranty policy is one year from the date of installation of the system. The warranty extension is only possible for the non-working period (if applicable) and NOT for 2 x the excess downtime period	This clause will remain unchanged
7.	Page No. 9 Technical Specification	Microphone with preamplifier Sl. No. 15 - Item: Dummy microphones of the same type IIT PKD required Specification: Two numbers	Not applicable. Dummy microphone plugs can be provided.	Dummy microphone plugs are acceptable, provided the plugs do not cause any insertion loss. There should not be any sound transmission through the plugs and diffraction at plugs affecting sound field at the downstream..
8.	Page No. 13 Technical Specification	Impedance tube with sound source Sl. No. 6: Parameter: Number of 1/4" microphone ports User requirement: 2+2/3+3	We offer Standard system qualifying ASTM E2611, ASTM E1050 and ISO 10534-2 will be with 2+2 microphone ports.	Number of microphone ports can be 2+2. (2 upstream and 2 downstream)
9.	Page No. 8 Technical Specification	Warranty Period: 3 Years	The standard warranty period offered from OEM is 1 year. On top of that if you want additional 2 years of warranty extend the charges for same will be applicable. Also, we can provide the standard warranty period of 1 year with additional 2 years of service warranty (AMC). No additional charge for will be applied for service warranty. Note: Service warranty will not include any hardware warranty. No exchange, replacement of damaged hardware will be done under service warranty.	We shall revise the warranty terms as 1 year standard + 2 years extended.
10.	Page No. 8 Technical Specification	Microphone with preamplifier Sl. No. 5 - Item: Pressure equalization vent IIT PKD required Specification: Rear / Side	Supplier Specs: Front Vent	This specification will remain unchanged. Note that, we require four pressure field microphones with either rear or side venting.
11.	Page No. 8 Technical Specification	Microphone with preamplifier Sl. No. 9 - Item: Peak output voltage Units: V _{peak} IIT PKD required Specification: ≤ 8	Supplier Specs: Maximum Output Voltage (V _{peak}) 2: ±3.16	This specification will remain unchanged.
12.	Page No. 8 Technical Specification	Microphone with preamplifier Sl. No. 12 - Item: IEC 61094-4 Compliance IIT PKD required Specification: WS3P compliant Type 1 microphone	Supplier Specs: IEC 61672 Class 1	This specification will remain unchanged.
13.	Page No. 9 Technical Specification	Microphone with preamplifier Sl. No. 18 - Item: Static pressure coefficient @ 250 Hz Units: dB/kPa IIT PKD required Specification: -0.01	Supplier Specs: Not specified by OEM	This specification will remain unchanged.
14.	Page No. 9 Technical Specification	Microphone with preamplifier Sl. No. 19 - Item: Temperature coefficient @ 250 Hz Units: dB/°C IIT PKD required Specification: ≤0.02	Supplier Specs: Not Specified by OEM	This specification will remain unchanged.
15.	Page No. 9 Technical Specification	Microphone with preamplifier Sl. No. 21- Item: Warranty Units: Year IIT PKD required Specification: THREE years	Supplier Specs: 1 Year + Two year extended warranty	We shall revise the warranty terms as 1 year standard + 2 years extended.

16.	Page No. 9 Technical Specification	DAQ with signal generator Sl. No. 2 - Item: Rated input voltage/ Power Input Units: V IIT PKD required Specification: If AC Mains: 90–260 V, 50-60Hz If DC: 9-36V	Supplier Specs: need to reach 500mA capacity Every system has his own design, Our system is capable to rum all the measuements	This specification will remain unchanged.
17.	Page No. 10 Technical Specification	DAQ with signal generator Sl. No. 9- Item: Warranty Units: Year IIT PKD required Specification: THREE years	Supplier Specs: 1 Year + Two year extended warranty	We shall revise the warranty terms as 1 year standard + 2 years extended.
18.	Page No. 10 Technical Specification	Input channel characteristics Sl. No. 16 - Item: Input Impedance Units: k Ω IIT PKD required Specification: 1 M Ω in parallel with \leq 100 pF	Supplier Specs: Not Specified by OEM	This specification will remain unchanged.
19.	Page No. 10 Technical Specification	Input channel characteristics Sl. No. 20 - Item: Crosstalk Units: dB IIT PKD required Specification: -100 or lower	Supplier Specs: Not specified by OEM	This specification will remain unchanged.
20.	Page No. 10 Technical Specification	Input channel characteristics Sl. No. 21 - Item: Channel-to-channel gain accuracy Units: dB IIT PKD required Specification: Minimal ($\sim\pm 0.1$)	Supplier Specs: Not specified by OEM	This specification will remain unchanged.
21.	Page No. 10 Technical Specification	Input channel characteristics Sl. No. 22 - Item: Channel-to-channel phase accuracy Units: $^{\circ}$ IIT PKD required Specification: Minimal ($\sim\pm 0.1$)	Supplier Specs: Not specified by OEM	This specification will remain unchanged.
22.	Page No. 10 Technical Specification	Output channel characteristics Sl. No. 24 - Item: Output Voltage Range IIT PKD required Specification: 0 to ± 10 V	Supplier Specs: 1.85Vrms	This specification will remain unchanged.
23.	Page No. 12 Technical Specification	Power Amplifier Sl. No. 16- Item: Warranty Units: Year IIT PKD required Specification: THREE years	Supplier Specs: 1 Year + Two year extended warranty	We shall revise the warranty terms as 1 year standard + 2 years extended.
24.	Page No. 13 Technical Specification	Impedance tube with sound source Sl. No. 13- Item: Warranty Units: Year IIT PKD required Specification: THREE years	Supplier Specs: 1 Year + Two year extended warranty	We shall revise the warranty terms as 1 year standard + 2 years extended.
25.	Page No. 13 Technical Specification	Sound source (Fully integrated with the impedance tube) Sl. No. 14(e)- Item: Warranty Units: Year IIT PKD required Specification: THREE years	Supplier Specs: 1 Year + Two year extended warranty	We shall revise the warranty terms as 1 year standard + 2 years extended.

All other Terms and Conditions of the Tender remain unchanged.

**REGISTRAR
IIT PALAKKAD**