

TENDER DOCUMENT

FOR

**PROCUREMENT OF ICT RESEARCH CENTER
EQUIPMENT AT MUET, JAMSHORO UNDER
EUROPEAN EDUCATION AND CULTURE
EXECUTIVE AGENCY (EACEA) PROJECT.**

AT

MEHRAN UNIVERSITY

OF

ENGINEERING AND TECHNOLOGY

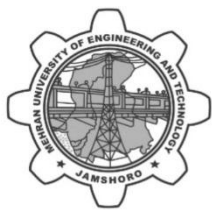
JAMSHORO

SINDH- PAKISTAN

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B.O.Q FOR PROCUREMENT OF ICT RESEARCH CENTER EQUIPMENT AT MUET, JAMSHORO UNDER EUROPEAN EDUCATION AND CULTURE EXECUTIVE AGENCY (EACEA) PROJECT.	YELLOW
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**MEHRAN UNIVERSITY OF ENGINEERING & TECHNOLOGY,****JAMSHORO - 76062, SINDH, PAKISTAN****Phone / Fax No. +92 22 2771403****Email: nadeem.soomro@admin.muuet.edu.pk****ISO-9001:2015****Certified****DEPUTY DIRECTOR
(Procurement)****“SAY NO TO CORRUPTION”**

No. & Dated: DD(Proc.)/MUET/JAM/-204, 11-11-2024

NOTICE INVITING TENDERS

All the interested Contractors / Firms / Parties / Suppliers, Manufacturers and Sole Distributors meeting eligibility criteria, viz. having registration with Federal Board of Revenue (FBR) for Income Tax, Sales Tax in case of procurement of goods, registration with the Sindh Revenue Board in case of procurement of Works and Services and registration with Pakistan Engineering Council as the case may be and not black listed in any procuring agency or authority, are invited to participate in full / item rate tender for the following works:

S#	Name of Work	Estimated Cost	Tender Fee	Completion Time	Earnest Money	Date of Purchase	Date of Submission of Bids	Purchase From
1.	Procurement of ICT Research Center Equipment at MUET, Jamshoro under European Education and Culture Executive Agency (EACEA) project.	Rs. 9.084 (M)	5000/-	04 Month	5%	15-11-2024 To 02-12-2024	03-12-2024 upto 10.30 A.M	Deputy Director (Procurement)
2.	General Repair & Maintenance works at Mehran University Higher Secondary Public School and Mehran University Public School Junior Section at Jamshoro.	Rs. 8.864 (M)	5000/-	09 Month	5%	15-11-2024 To 02-12-2024	03-12-2024 upto 11.00 A.M	Deputy Director (Procurement)
3.	Procurement of Smart ID Card Printer Consumables and Accessories at MUET, Jamshoro.	Rs. 2.062 (M)	2000/-	02 Month	5%	15-11-2024 To 02-12-2024	03-12-2024 upto 11.30 A.M	Deputy Director (Procurement)
4.	Supply of Examination Material for Examination Department at MUET, Jamshoro.	Rs. 10.180 (M)	5000/-	06 Month	5%	15-11-2024 To 02-12-2024	03-12-2024 upto 12.00 Noon	Deputy Director (Procurement)

The terms and conditions are given as under:-

1. E-Bidding documents as per regulations, containing detailed terms and conditions, specifications and requirements etc are available for the registered bidders on Sindh Public Procurement Regulatory Authority's EPADS at <https://portalsindh.eprocure.gov.pk/#/> and University website <https://www.muuet.edu.pk/tender-notice> on the payment noted above (non-refundable) on any working day except the day of opening of tenders. Also, original pay orders / demand drafts of requisite tender fee and 5% bid security of the total Quoted amount must be sent to office of the Deputy Director (Procurement), MUET, Jamshoro prior opening of bids.
2. The electronics bids, must be submitted by using EPADS on or before the date & time mentioned in above table. Manual bids will not be accepted. Electronic Bids will be opened for Sr. No. 1 on the 03-12-2024 @ 11.00 (A.M), for Sr. No. 2 on the 03-12-2024 @ 11.30 (A.M), for Sr. No. 3 on the 03-12-2024 @ 12.00 Noon and for Sr. No. 4 on the 03-12-2024 @ 12.30 (P.M) in presence of the representatives, who so ever will be present at that time. In case of any unforeseen situation resulting in closure of office on the date of opening or if Government declares Holiday the tenders shall be submitted / opened on the next working day at the same time & venue. Any conditional or un-accompanied of the earnest money, tender will not be considered in the competition.

3. The Method of Procurement is Single Stage – One Envelope Procedure.
4. The Bidders should have at least 03 years' experience of same services in any university or large organization.
5. The Bidders should be registered with tax paying agencies which would be verified by concerned agencies.
6. The Bidders should not Black Listed in any procuring agency. (Affidavit is required)
7. The Bidders should have at least for Sr. No.1 & 2 Rs. 20.000 (M), Sr. No. 3 Rs. 4.000 (M) and Sr. No. 4 Rs. 20.000 (M) annual turnover of 03 years which would be verified by bank statement. (*Attached Annual Turnover Certificate to be issued by the concerned bank*).

The Procuring Agency reserves the right to reject any or all bids subject to relevant provisions of SPP Rules, 2010 (Amended time to time) and may cancel the bidding process at any time prior to the acceptance of a bid or proposal under Rule-25" of said Rules.

Sd/-

Deputy Director (Procurement),

Mehran University of Engg. & Tech. Jamshoro,

Phone No. 022-2109010 Fax: 022-2771403

Email: nadeem.soomro@admin.muet.edu.pk

ARTICLES OF AGREEMENT

This Agreement made this _____ day of _____ 2024, by and between the Vice-Chancellor, Mehran University of Engineering and Technology, located at Jamshoro, Sindh, including his successors in office and Assignees / Agents, acting through the Director (Works & Strategic Planning), Mehran University of Engineering & Technology, hereinafter called the “**University**”, of the one part,

And _____ of
 _____, located at
 _____, hereinafter called the
 “**Contractor**” which expression shall include their successors, legal representatives of the second part.

Whereas the **University** requires ICT Research Center Equipment at MUET, Jamshoro under European Education and Culture Executive Agency (EACEA) project., and whereas the **Contractor** has agreed to supply, install, put into operation and demonstrate the working of the said Equipment valued at Rs. _____ (in figures and words) in the period of _____ months, subject to the terms and conditions set forth, hereinafter, which have been accepted by the **Contractor**.

(amount in figures and words)

Now this Agreement witnesses as follows:

1. In this agreement words and expressions shall have the same meanings as are respectively assigned to them in the **Conditions of Contract** hereinafter referred to.
2. The following documents which, for the purpose of identification, have been signed by _____ on behalf of the **Contractor**, and by

 (name and designation of the authorized person)
 _____ on behalf of the **University**, all of

 (name and designation of the authorized person)
 which shall be deemed to form and be read and construed as a part of this **Agreement** viz.:
 - a) Articles of Agreement;
 - b) Instructions to Tenderers;
 - c) Conditions of Contract;
 - d) Contractor’s Offer including the relevant correspondence prior to signing of this Agreement with all Annexures duly filled in;
 - e) The specifications of the equipment; and
 - f) Bill of Quantity with prices.

3. In consideration of the payment to be made to the Contractor, the **Contractor** hereby **covenants** with the University to supply, deliver, install, put into operation and demonstrate the working of the Equipment in conformity in all respects of the Contract & the order form No. _____.
4. The **University** hereby **covenants to pay** the Contractor in consideration of the supply, delivery, installation, putting into operation and demonstration of the working of the Equipment the contact price in the manner prescribed by the Contract and approved by the University.

In Witness Whereof the parties have hereunto set their respective hands and seals, the day, month and year first above written.

WITNESSES:

University_____

Contractor_____

Witness No.1:

Witness No.1:

Signature:_____

Signature:_____

Name: _____

Name: _____

Designation: _____

Designation: _____

Witness No.2.

Witness No.2:

Signature:_____

Signature:_____

Name: _____

Name: _____

Designation: _____

Designation: _____

INSTRUCTIONS TO TENDERERS

The Mehran University of Engineering and Technology, Jamshoro, Sindh, intends to procure ICT Research Center Equipment at MUET, Jamshoro under European Education and Culture Executive Agency (EACEA) project. This tender is issued for the supply, installation, putting into operation and demonstration of the working of the Equipment required for the ICT Research Center at the NCRAAI, MUET, Jamshoro as per the Schedule of requirements given in this Tender Document.

PREPARATION OF TENDER.

1. Language of Tender

The **Tender** alongwith any accompanying literature shall be prepared in **English** language only:

2. Submission of Tender

- a) The **Tender** shall be enclosed in a double cover. The outer cover shall bear the address of the Director (Works & Strategic Planning), Mehran University of Engineering and Technology, Jamshoro, Sindh, without any indication that it encloses a tender. The inner cover shall be marked with the little of the Tender, number of invitation to the Tender and the date of opening of the Tender, and **must be sealed**.
- b) The **Form for Tender**, (Annexure-A) **Tender Particulars (Annexure-B)** and **Forms of Schedule to Tender** (Annexure "C1"&"C2") enclosed herewith, shall be submitted in duplicate. The authorized person signing the tender documents must state his full name and authorized position designation underneath his signature.
- c) The **erasing and/or alterations**, if any, in the Tender shall be authenticated by the authorized person by his full signature.
- d) The **Tender** shall be accompanied with the **original quotations** from the manufacturers, in case the Tender is submitted through their authorized agents or distributors, and shall be supported by credentials establishing the experience and standing of the manufacturers and / or their authorized agents or distributors.
- e) A **Corporate Certificate / Competency Certificate of the Manufacturer** regarding installation, testing, commissioning & training of equipment be attached.
- f) **Ambiguous and incorrect answers** and/or incorrect filling of Tender Documents will render the tender liable to rejection.
- g) **Quotations** through cable, telegraph, telex, fax, or e-mail will not be considered.

- h) The tenders shall not rely on any **interpretation or correction** given by any person except the written **addenda and/or corrigenda** to documents issued by the Director (Works & Strategic Planning), Mehran University of Engineering and Technology, Jamshoro, Sindh.

3. Bid Bond and Contract Performance Bond

- a) The tenderer shall enclose with his/her tender a **Bid Bond** on requisite stamp paper, as per **Annexure “D”** to this Tender Document, issued by a scheduled / commercial bank doing business in Pakistan, for an amount equivalent to **5% of the total cost** of the Equipment required for ICT Research Center at the NCRAAI, offered as per the Tender submitted by him/her, or Rs. 50,000.00 (Fifty thousand), whichever is more. The Bid Bond shall be in favor of the Vice Chancellor, Mehran University of Engineering and Technology, Jamshoro, including his successor in office and assignees acting through the Director (Works & Strategic Planning), Mehran University of Engineering and Technology. The bond so furnished shall remain **valid for a period 28 days beyond the period of validity of the Tender** or till it is revalidated / extended for a period mutually agreed upon by the tenderer and the Director (Works & Strategic Planning), Mehran University of Engineering and Technology.
- b) As soon as an award is made, the provisions in paragraphs **c), d) and e)**, hereunder, shall **operate**.
- c) If the Tender is **rejected**, the Bid Bond will be returned to the tenderer as soon as possible after rejection.
- d) The **successful bidder** shall have to give a **Contract Performance Bond**, as per **Annexure “E”** to this Tender Document, to the extent of **2% of the total value** of the contract on the same conditions as the Bid Bond. The Performance Bond shall be retained by the Director (Works & Strategic Planning), Mehran University of Engineering and Technology, till the completion of the guarantee period as per Clause 23 of the Conditions of Contract.

4. Quality of Stores.

- a) The Time Attendance System and other relevant materials (hereinafter called **“Stores”**) quoted and supplied against this “Invitation to Tender” shall be strictly in accordance with the **Specifications** attached with this Tender Document. The Stores shall be the product of an established manufacturer shall conform to internationally acceptable commercial standards, and shall be a model that has been successfully operated over a reasonable period of time in educational institutions R&D organizations, or relevant industry.
- b) In Tenderers must also warrant the use of best material in the making of the stores. by thefind that the Specifications for any items of the Stores are lacking in details, they may give their own proposals with detailed specifications, preferably three alternate proposals if possible, for such items in Annexure “F”.

- c) The Stores offered by the tenders must be of a quality suitable for the purposes and operations for which they are required, and must be capable of rendering the required performance and services at site in the local conditions of extreme tropical climate, air, dust, water, power and fuel at Jamshoro.
- d) The Hardware for operation of the Stores will be made available by University.
- e) The electric supply for operation of the Stores will be made available at 220 volt single phase, or 380 volt three phase, and 50 cycles.
- f) The Stores offered shall be complete with their standard accessories and must be accompanied by their normal instructions book/manual.
- g) Wherever possible or feasible, each item of Stores offered must have its own protection devices, e.g, overload protection by circuit breakers or fuses, or voltage stabilizer for electric equipment.
- h) Unless stipulated otherwise in the specifications for any item, the Stores conforming to ASA, SAE, SSI or DIN will be acceptable.
- i) The successful bidders may be asked to supply list of spares for 5 years satisfactory operation of any item of the Stores, prior to award of the contract.

5. Literature.

The tenderers must furnish with their bids catalogues giving full technical details of the Stores to enable the University to check their offers technically against the prescribed specifications failing which the offers will be liable to rejection.

6. Principals Name, Certificate and Invoice.

- a) The tenderers are required to mention in their quotations/offers the name and address of their Principals along with a certificate authorizing them (tenderers) to quote on their (Principals) behalf as under:
“This is to certify that M/s _____ located at _____ have obtained quotations from us against tender inquiry No. _____ dated _____ from Mehran University of Engineering and Technology, Jamshoro, due for opening on _____ and have agreed to make available the Equipment required for ICT Research Center at the NCRAAI, on the quotations and terms and conditions of the tender”.

The above condition does not apply to the manufacturers bidding directly.

- b) The tenderers must also furnish along with their offers their Principals original Proforma Invoice failing which their offers will be rejected.

7. Country of Origin.

The tenderers must state in his Tender the country of origin of the Stores offered.

8. Alternative Proposal.

If any tenderer elects to submit alternative proposal(s) complete information on the alternative items including all data relating to technical specifications in Vol. I, II & III shall be given as per Annexure “F”.

9. **Prices.**

- a) **CATEGORY-‘A’** **Stores Manufactured/Available in Pakistan without Involving Import.**

The prices quoted must be total per unit in Pakistani Rupees as shown in **Annexure “C-1”** and shall include:

- i. All charges for packing, marking, handling, insurance, inspection, guarantees, freight/transportation, agent’s commission; and all duties, taxes, levies, octrois etc; and.
- ii. The cost of installation, putting into operation and demonstration of the working of the Equipment required for ICT Research Center at the NCRAAI of the University.

- b) **CATEGORY-“B”**. **Stores Imported from approved Countries.**

The prices must be quoted for each item of Stores in **Annexure-“C2”** separately for each of the PARTS given below:

PART-1. Payment in Foreign currency.

The C&F prices quoted by the Principals in the currency of the country of origin.

For the purpose of comparison, the prices quoted shall be converted to equivalent prices in Pakistani Rupees on the basis of the official bank rate prevalent on the date of opening of the Tender.

PART-2 Payment in Pakistani Rupees.

- (i) The agent’s/supplier’s commission in Pakistani Rupees.
- (ii) The insurance charges. The insurance will be arranged by the Contractor through the University with Pakistan Insurance Corporation. The University will assist the Contractor in obtaining the insurance at concessional rates, if any, as allowed by the Government.
- (iii) The cost of installation, putting into operation and demonstration of the working of the Equipment required for ICT Research Center at the NCRAAI in the University in Pakistani Rupees.
- (iv) All the charges pertaining to handling and clearance of the Stores at the port including all taxes, levies, octrois etc. but excluding the customs duties for the payment of which the University is exempted by the Government. However, if the customs duties are charged for any items of the Stores for which the Government the exemption, the University will make the payment.

- (v) The transportation charges for transporting the Stores from the port to the Software Engineering Department of the University including the charges for loading the Stores at the port and unloading the same at the University.

For the purpose of evaluation/ comparison of bids, as stated in Clause-15, the total price for the Stores under this Category shall be the sum of the amounts mentioned for Parts 1 & 2 above.

- (c) In addition to what is stated in para a) & b) above, the prices given in Annexure C1 & C2 shall also include the following for the Stores of both the Categories-A & B.
 - (i) Supply, detailing, manufacture, factory testing, export preparation and all costs incidental to shipping/transport up to the stage of installation in ICPC of the University.
 - (ii) Responsibility for any loss and/or damage at any stage from manufacture to installation in the Software Engineering Department of the University.
 - (iii) Provision for clean on boards bills of landing.
 - (iv) The cost of export taxes, fees and charges levied and out going incurred on exporting goods in the country of origin.
 - (v) The expenses on account of the certificate of origin, invoices or any other documents issued in the country or origin.

10. Validity of Prices/Tender

- a) The prices quoted shall be valid for a period of at least 90 days from the date of opening of the tender.
- b) Until the final Contract is executed, the successful bidder shall be bound by the terms and conditions of this Tender Document.

11. Acceptance of the Terms

- a) The submission of the tender against this tender inquiry by the tenderer means that the tenderer has read and accepted the terms and conditions relating to all the tender documents and annexures, and that he/she have thoroughly examined the specifications and particulars in the tender inquiry. Further the tender shall be deemed to be fully aware of the nature of the Stores and the purpose for which they are required and shall be bound to accept the Contract if placed with him/her on the basis of the prices and of the delivery schedule as indicated in Clause 12 hereof within the validity of his/her Tender.

- b) If the Tender is awarded in favour of Proprietor / Principals who has no authorized agent or distributor in Pakistan, he/she shall have to appoint a distributor or nominee for the purpose of successful completion of the contract and to provide after-sales service.

12. Delivery Period.

i. Shipment of Imported Items.

- a) The shipment of the items of Stores which are to be imported shall be started as early as possible, the shipment schedule shall be submitted to the Director (Works & Strategic Planning), Mehran University, and shall be negotiable and subject to approval by the University.
- b) The tenderer must indicate in his/her offer the port from where the Stores will be shipped.

ii. Delivery Period.

- a) The entire Stores must be delivered, installed and put into operation in the Software Engineering Department of the University as early as possible after receiving the letter of award of the Contract.
- b) The Tenderer shall give in the offer his/her own schedule for the delivery and installation of various items of the Stores which shall be negotiable and subject to approval of the University.

iii. Delay in the Delivery of the Stores.

- a) For the Stores delayed beyond the delivery period, as specified in the Contract, or as approved by the University as stated in Clause 12 ii b) above, there shall be levied liquidated damages as specified in Clause 22 of the Conditions of Contract given in this Tender Document.
- b) The liquidated damages may be waived fully or partially by the Director (Works & Strategic Planning), with the approval of the Vice Chancellor of the University, if there are reasonable grounds for such a delay.

13. Negotiations.

Under no circumstances will the negotiations take place with any tenderer with regard to Specifications and Prices quoted and read out at the public opening of the tenders and with regard to the substance of the offer. The tenderers cannot revise their prices after the public opening of the tenders.

14. Rights of the University

- (a) The University reserves the right to reject any or all bids without any reason whatsoever, or not waive minor irregularities or errors in any offer. If it appears to the University that such irregularities or errors must be corrected in the offer in which they occur, the same will be corrected prior to issue of the letter of intent which may be awarded thereupon.

- (b) The University is neither bound to accept the lowest or any other offer nor is it bound to assign reason for rejection of any offer.
- c) The University reserves the right to award the contract to one bidder or divide it among several bidders.
- d) The University reserves the right to increase or decrease the quantity of the Stores at its discretion without assigning any reason whatsoever.
- e) The University reserves the right to cancel the offer of the tenderer whose bid has been found / evaluated to be the lowest if it is revealed to the University that the tenderer does not have the capability or financial resources or facilities to carry out the Contract in accordance with the terms and conditions of this Tender Document.

15. Evaluation of Bids.

- a) In comparing bids the University will consider, besides the prices quoted, such other factors as compliance with specifications, relative quality of Stores, past experience of the tenderer, after-sales services facilities available in Pakistan and the tenderer's capacity to perform.
- b) The evaluation criteria specifically mentioned in the specifications will also be considered for evaluation of the bids.
- c) For the purpose of evaluation, the prices to be compared shall be the total prices inclusive of all duties, taxes, freight charges etc. as stated in clause 9 titled "Prices" above.
 - (i) For the items quoted in Annexure-C-1, the total prices as mentioned in Clause-9(b) shall be compared.
 - (ii) For comparison of the items quoted in Annexure C-1 with those quoted in Annexure C-2, the total prices as mentioned in Clause-9 (a) including the charges/cost packing, making, handling, insurance, inspection guarantees, clearance, freight / transportation upto the University's Software Engineering Department duties, taxes, levies, octrois etc.

16. Errors in the Bids.

- (i) Any arithmetic errors found during evaluation of bids will be rectified on the following basis:
 - a) If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail and the total price shall be corrected by the University.
 - b) If there is a discrepancy between the words and figures, the amount in figures shall prevail.

- c) If there is any discrepancy between the total tender price entered in the Articles of Agreement and the total shown in the Schedule of Prices, the amount stated in the Articles of Agreement shall be corrected by the University in accordance with the corrected schedule of Prices.
- (ii) If the tenderer does not accept the corrected amount of tender, his/her Tender will be rejected and the Bid Bond submitted with the tender shall be forfeited.

17. Foreign Exchange for Items of Stores to be imported.

For the items of Stores which are to be imported and for which the prices have been quoted on C&F basis in Annexure C-2, the University will arrange payment in the foreign currency, to the extent of the C&F amount, as stated in Clause 9(b), through its bank in Pakistan in accordance with the prevailing foreign exchange control rules/regulations of the Government of Pakistan.

CONDITIONS OF CONTRACT

1. **Scope of the Contract**

- a) The **Scope of the Contract** shall be the supply, delivery, installation, putting into operation and demonstration of the working of the Stores in the Software Engineering Department of the University at Jamshoro, Sindh, in accordance with the technical Specifications and Bill of Quantities enclosed in this Tender Document.
- b) The Contractor shall within a period of one month of the execution of the agreement furnish to the University a **detailed program** for supply and delivery of various items of the Stores for necessary approval by the University.

2. **Definition of Terms**

In writing these Conditions of Contract, Specifications and Bill of Quantities, the following words shall have the meanings hereby indicated, unless there is some thing in the subject matter or Contract inconsistent with such constructions:

- i. **The University** shall mean the Mehran University of Engineering and Technology, Jamshoro, Sindh.
- ii. **The Vice Chancellor** shall mean the Vice Chancellor of Mehran University of Engineering and Technology, Jamshoro, Sindh, including his successor in office and assignees, empowered to act in all matters pertaining to the University either directly or through the Director (Works & Strategic Planning), Mehran University of Engineering and Technology, Jamshoro.
- iii. **The Contractor or Supplier** shall mean the Tenderer (Bidder) whose Bid has been accepted by the University and shall include the Bidder's executors, administrators, successors and permitted assignees.
- iv. **The Stores** shall mean and include all the Equipment required for ICT Research Center at the NCRAAI, literature, materials and articles to be provided by the Contractor under the Contract.
- v. **The Contract** shall mean the agreement signed by the Contractor for the supply, delivery, installation, putting into operation and demonstration for the working of the Stores, as stated under the Scope of the Contract above.
- vi. **The Contract Price** shall mean the sum mentioned in or calculated in accordance with the provisions of the Contract, which is to be paid to the Contractor for satisfactory execution of the Contract in accordance with these Conditions of Contract.

- vii. **The Specifications** shall mean the specifications annexed to or issued, herewith, and shall include the schedule and drawings attached hereto as well as the samples and patterns if any.
- viii. **Month** shall mean the Calendar month.
- ix. **Writing** shall include any manuscript, type-written, printed or other statement reproduced in any visible form and whether under seal or under hand.

3. **Contract Documents.**

- a) The term **Contract Document** shall mean the following documents which shall be deemed to form an integral part of the Contract:
 - i. Articles of Agreement;
 - ii. Instructions to Tenderers;
 - iii. Conditions of Contract;
 - iv. Contractor's Proposal / Offer including the relevant correspondences prior to signing of the agreement with all Annexures duly filled in;
 - v. The Specifications of the Stores; and
 - vi. Bill of Quantities with prices.
- b) In the event of any **conflict** between the above mentioned documents, the present Articles of Agreement and Conditions of Contract shall prevail.

4. **Signing of the Contract Agreement**

Within 30 days of the issue of the letter of intent, the successful bidder (bidders) will be required to **sign an agreement** with the University for the supply of such quantity, in whole or in part, of the tendered Stores as will be communicated to him / her (them) in the letter of intent.

5. **Packing, Marking and Handling**

- a) All the Stores, whether imported or locally manufactured / available, shall be delivered to the University at Jamshoro in **safe and secure condition** at the risk and cost of the Contractor.
- b) The packing, marking and handling shall be so arranged by the Contractor as to **prevent any loss of or damage** to the Stores.

- c) In case any of the items of the Stores are to be imported by the Contractor, the **import** shall be **arranged by the Contractor** himself / herself with such packing and marking and through such means as deemed fit by him / her for safe and secure delivery at Jamshoro. The packing of the Equipment shall be the usual export packing to ensure safe journey by air, sea, rail and road, as the case may be, of the Stores to destination. Each packing shall be clearly marked in English with the following:

- i. Port of Destination: **KARACHI.**
- ii. Name of the Ship: _____
- iii. Name of the Consignee: **DIRECTOR (WORKS & STRATEGIC PLANNING)**
MEHRAN UNIVERSITY OF
ENGINEERING & TECHNOLOGY
JAMSHORO, SINDH, PAKISTAN

- i. Name of the Contractor: **CONTRACTOR'S NAME & ADDRESS**
- ii. Case Number & Contents: _____
- iii. Net Weight & Dimensions: (length, Breadth & Height)
- iv. Gross Weight: (Kg.)
- v. Number & Date of Contract: _____

- vi. Marking: **MUET** in a 6 in. x 4 in. rectangle

MUET

6. Transportation and Shipment

a. For Stores to be Imported

- i. All those items of Stores which are to be imported by the Contractor shall be **shipped** by whatever means the Contractor deems fit **at his / her risk and cost**. The Contractor must keep the University informed of the shipping arrangements, schedule of shipping, arrival at the port, clearance from the port, and transportation from the port to the University.
- ii. **All costs** of loading of the Stores from the wharves at port of shipment and also the cost of ship wharf age / berthing, demurrage charges, stevedoring, handling charges and other port and river dues in respect of shipment companies' vessels at the port of shipment and all other expenditure up to the stage of placing the Stores at rest on board the ship and the freight charges shall be **borne by the Contractor**.
- iii. Similarly all costs of unloading the Stores at the wharves, wharf age / berthing, demurrage, stevedoring, handling charges and other port dues at the port of arrival in Pakistan and transportation from the port up to the stage of placing the Stores position in the Software Engineering Department of the University shall be borne by the **Contractor**. In order to facilitate the clearance of the Stores at the port of arrival, a clearing agent will be engaged by the University, in consultation with the Contractor, who will get the Stores cleared with the assistance of the University and the Contractor, and the clearing agent's charges shall be **borne by the Contractor**.

- iv. All things being equal, **Pakistan flag ships** should be used, as far as possible, for shipment of the Stores. If no such ship is available, such other ships may be used consistent with the execution of this Contract with economy and efficiency.
- v. The Stores must be shipped **under deck**
- vi. The Contractor shall send by air mail/courier service or personally deliver 4 (four) sets of non-negotiable shipping documents direct to the Director (Works & Strategic Planning), Mehran University of Engineering and Technology, Jamshoro, Sindh, so as to reach him at least 8 (eight) days before arrival of the ship at the port in Pakistan.

b. For Stores Manufactured / Available in Pakistan

- i. All those items of the Stores which are to be manufactured in Pakistan, or are to be supplied from the locally available stocks (whether imported or manufactured in Pakistan), may be transported from the place of manufacture or availability to Jamshoro by **any mode of transportation** as deemed convenient and suitable by the Contractor at his / her risk and cost.
- ii. **All costs** of handling, loading, transportation, unloading and placing the Stores in position in the Software Engineering Department of the University shall be **borne by the Contractor**.

7. Pre-shipment and After-fabrication Inspection

- a) The **pre-shipment inspection** and / or the inspection of the Stores Principals/Proprietor at the premises, if desired by the Contractor, shall be arranged by the Contractor at his / her own cost. The responsibility for the quality, quantity, correctness and adherence to the Specifications etc. of the Stores shall lie solely and squarely on the Contractor.
- b) The University may, at its discretion, waive pre-shipment inspection and hence issue the waiver in writing so that the Stores could be shipped under manufacturer's test certificate. This waiver shall be deemed as authorization to ship for the purpose of negotiating the letter of credit under Clause 13(b) ii.
- c) The pre-shipment inspection and/or the waiver thereof shall in no way above the Contractor of any of his obligations under this Contract.

8. Insurance

The **Contractor shall arrange** the insurance for the Stores in whatever way he / she deems fit at his / her risk and cost. The prices quoted in the offer of the Contractor shall include the cost of insurance. The Contractor shall have to inform the University of the Insurance Arrangements made by him / her for the Stores.

9. On-arrival Inspection

There shall be inspection of the Stores by the representatives of the University after arrival in the Software Engineering Department of the University in presence of the Contractor or his authorized representatives and the representatives of the insurance company. The **inspection report**, which, inter-alia, should indicate the condition in which each item of the Stores has been received, shall be signed by the above representatives. The Contractor shall coordinate with the Director (Works & Strategic Planning), Mehran University, and the insurance company for arranging the inspection at such date and time as is convenient to the above representatives.

10. Taking Over

Upon receipt of the Equipment required for ICT Research Center at the NCRAAI in the University and after inspection, as stated in Clause 9 above, the University will issue a **taking-over certificate** in respect of those items of Stores which are received in acceptable condition. The taking-over of the damaged items will be with-held until the same are repaired / replaced and are re-inspected and found in acceptable condition.

11. Installation and Demonstration of Stores

a). Installation

- i) After inspection and taking over of the Stores, as stated in Clauses 9 and 10 above, the **Contractor shall install** those items of Stores which are to be permanently positioned in place in the Software Engineering Department of the University. For this purpose, the Contractor shall co-ordinate with the Director (Works & Strategic Planning), Mehran University, for making arrangements for the Hardware needed for the installation.
- ii) The cost of hardware **for installation** shall be borne by the University. The Contractor shall provide, alongwith his offer, the details of the hardware needed for each item of the Stores separately. The technical and other personnel needed for installation of the Stores shall be provided by the Contractor at his cost. The entire cost of installation, configuration, application except that of the needed hardware, shall be borne by the Contractor.

b) Demonstration

- i) After installation of the Stores, as stated in Clause **11 a)** above, the complete **working of each item** of Stores for the purpose of performing the intended Software Engineering Department experiments, testing of specimens and recording of the test results etc., shall be demonstrated fully to the designated staff of the University by the Contractor or his technical personnel.
- ii) The entire **cost**, including the T.A. / D.A. of the personnel involved in the demonstration, shall be **borne by the Contractor**.

12. Completion Certificate

After completion of the installation and demonstration, as stated in Clause **11** above, a certificate is to be obtained by the Contractor from the concerned Head of the Department / Director of the Institute stating that the Stores (item-wise) have been satisfactorily installed and demonstrated by the Contractor.

13. Terms of Payment

The Contractor shall be paid for Stores in the following manner:

- a) **CATEGORY A: Stores Manufactured/Available in Pakistan without involving import.**
 - i. For all those items of Stores for which the completion certificate has been issued by the University, as stated in Clause **12** above, the University will pay to the Contractor total price of the items quoted by the Contractor.
 - ii. The payment for those items of Stores for which the completion certificate has not been issued by the University, as stated in Clause **12** above, will be with-held and released only after the damaged items are replaced / repaired, re-inspected and found in satisfactory condition with consequent issuance of the completion certificate. The payment will be made in the same manner as stated in Clause **13 a) i** above.
- b) **CATEGORY-B Stores Imported from Approved Countries.**

The payment for this category of Stores will be made in two parts as under:-

PART-I. Payment in Foreign currency

- i. An irrevocable **letter of credit** of one hundred percent (**100%**) of the C&F price, in the currency quoted by the Principals, will be opened in a bank in the country of origin in favor of the Principals/Contractor within 30 days after signing the Contract.

- ii. One hundred percent (**100%**) of the letter of credit amount will be paid against presentation of the shipping documents to the bank through the above letter of credit. The required shipping documents include:
- Clean on board bill of lading;
 - Contractor's detailed invoice showing description of the Stores, specifications, quantity, unit price and total price;
 - Detailed packing list;
 - Certificate of origin of the Stores' and
 - Certificate of pre-shipment/after-fabrication inspection or authorization to ship the Stores as per Clause-7.

PART-2. Payment in Pakistani Rupees

The Rupee component of the price of the Stores, as stated in Clause **9 b)** of “Instructions to Tenderers” will be paid to the Contractor in the following manner:

- i. For all those items of Stores for which the taking over certificate has been issued by the University, as stated in Clause **10** above, the University will pay to the Contractor seventy percent (70%) of the total price of the items quoted by the Contractor, the remaining thirty percent (30%) will be paid after presentation of the completion certificate, as stated in Clause 12 above.
- ii. The payment for those items of Stores for which the completion certificate has not been issued by the University, as stated in Clause **10** above, will be withheld and released only after the damaged items are replaced/repared, re-inspected and found in satisfactory condition with consequent issuance of the completion certificate. The payment will be made in the same manner as stated in Clause **13 a)i** above

14. Warranty / Guaranty

- a) The Contractor shall **warranty** that the Stores shall be fit for the purposes and operation mentioned in the relevant clauses of the “Instructions to the Tenderers” and “Conditions of Contract”, notwithstanding the fact that the entire Stores, or any item or part of the Stores, bear or are found to bear a patent or trade mark.
- b) The Contractor shall guarantee supply of good quality Stores in accordance with the Specifications and as stated in Clauses 4 and 5 of the “Instructions to the Tenderers”. Further, the Stores shall be brand new and absolutely free from all defects in material, quality and workmanship. In case of defects, the defective Stores, or the defective parts / components of the Stores thereof, shall be replaced by the Contractor free of cost to the University within reasonable time.

15. Breach of Contract

In case of breach of warranty / guarantee or Contract, the **damages** suffered by the University shall be **recovered from the Contractor** out of any payment due to the Contractor and / or in accordance with the terms and conditions of the Contract Performance Bond given at Annexure “E” enclosed with this Tender Document, without notice to the Contractor.

16. Contractor’s Default Liability

- a) The University may upon written notice of default to the Contractor **terminate the Contract** in the circumstances detailed hereunder:
 - i. If in the judgment of the University, the Contractor fails to make delivery of the Stores within the time specified in the Contract Agreement or within the period for which extension has been granted by the University; and
 - ii. If, in the judgment of the University, the Contractor fails to comply with any of the other provisions of the Contract.
- b) In the event the University terminates the Contract, in whole or in part, as provided in Clause **16 a)** above, the University reserves the right to **purchase**, on such terms and conditions as it may deem appropriate, Stores similar to the one terminated, and the Contractor will be liable to the University for any additional costs for such **similar Stores**, and / or for liquidated damages for delay, as defined in Clause **22** of the Conditions of Contract until such reasonable time as may be required for the final supply of the Stores.
- c) If the Contract is terminated, as provided in Clause **16 a)** above, the University, in addition to any other rights provided in this Clause, may require the Contractor to **transfer title** and deliver to the University under any of the following cases in the manner and as directed by the University:
 - i) Any **completed Stores**; and
 - ii) Such **partially completed Stores**, drawings, information and contract right (hereinafter called manufacturing material) as the Contractor has specifically produced or acquired for the performance of such parts of the Contract as has been terminated.
- d) The University will **pay to the Contractor** the Contract Price for the completed Stores delivered to and accepted by the University and also for the manufacturing materials delivered and accepted.
- e) In the event the University does not terminate the Contract, as provided in Clause **16 a)** above, the Contractor shall continue with the performance of his / her Contract, in which case the Contractor shall be liable to the University for **Liquidated Damages for delay** as set out in Clause 22 until the Stores are accepted.

17. Bankruptcy

If the **Contractor** shall become **bankrupt** or have a receiving order made against him / her or compound with his / her creditors, or being a corporation commence to be wound up, not being a voluntary winding up for the purpose of amalgamation or reconstruction, or carry on its business under a receiver for the benefit of its creditors or any of them, **the University shall be at liberty to:**

- a) **terminate the Contract** forthwith by a notice in writing to the Contractor or to the liquidator or receiver or to any person in whom the Contract may become vested, and to act in the manner provided in Clause 16 above as though the last mentioned notice has been the notice referred in such Clause and the Stores have been taken out of the Contractor's hand; and / or
- b) give such liquidator, receiver, or other person the **option of carrying out the Contract** subject to his / her providing a guarantee for the due and faithful performance of the Contract upto an amount to be determined by the University.

18. Termination of Contract

- a) If, for any cause as set forth in Clause **19** hereafter, the Contractor finds it impracticable to continue operation or, if owing to force majeure or to any cause beyond its control, the University finds it impossible to continue operation, then **prompt notification** in writing shall be given by the party affected to the other.
- b) If the delay or difficulties so caused cannot be expected to cease or become avoidable, or if operation cannot be resumed within six months, then either party shall have the right to terminate the Contract by giving ten **(10) days written notice** to the other.
- c) In the event of termination of the Contract under this Clause, **payment** will be made to the Contractor as follows:
 - i) The Contractor shall be paid for all the Stores for which the completion certificate has been issued, as stated in Clause 12, and for all the reimbursable expenses due and unpaid.
 - ii) The Contractor shall also be paid reasonably for any work done during the said six months period as well as for settlement of any financial commitment made in connection with proper performance of the Contract and which are not reasonably defrayed by payments under i) above.
 - iii) On termination of the contract for any cause, the Contractor shall see to the orderly suspension and termination of operations with due consideration to the interests of the University with respect to completion, safeguarding or storing of the Stores produced for the performance of the Contract and the salvage and resale thereof

19. Force Majeure.

The Contractor shall not be liable for any additional cost or for liquidated damages for delay or any failure to perform the Contract arising out of force majeure or cause beyond his / her control including acts of God, or of the public enemy, or of the Government, fires, floods, epidemic quarantine restrictions, strikes, freight embargoes and default of subcontractors due to any such cause (unless the University shall determine that the Stores to be furnished by the Contractor might reasonably have been obtained from other sources in sufficient time to allow the Contractor to meet the required time schedule), provided that the Contractor shall within ten (10) days from the beginning of such delay notify the University in writing of the **causes of the delay**. The University shall ascertain the facts and the extent of the delay and **extend the time** for completing the supplies as in its judgment the findings justify.

20. Rejection

- a) In the event any portion of the Stores supplied by the Contractor is found before taking over to be **defective in material or workmanship**, or otherwise not in conformity with the requirements of the Contract, the University shall have the right to either reject or require, in writing, rectification of the Stores. In the later case, the Contractor shall with utmost diligence, and at his own expense, make good the defects so specified or replace the defective Stores. If the Contractor fails to rectify or replace the rejected Stores, the University may adopt any of the following options:
 - i) **replace or rectify**, at its option, such defective Stores and charge to the Contractor the excess cost occasioned to the University plus (15%) fifteen percent; or
 - ii) acquire the said Stores **at a reduced price** considered equitable under the circumstances; or
 - iii) **terminate the Contract** as provided in Clause **18** of these Conditions of Contract.
- b) Nothing in this Clause shall affect any claim by the University under Clause **22** hereafter.

21. Extension of Time

If the completion of the Contract is delayed due to reason beyond the control of the Contractor, the Contractor shall without delay request the University, in writing, of his **claim** for an extension of time. The University on receipt of such request may agree to **extend the completion date** as may be reasonable in the circumstances of the case but without prejudice to other terms and conditions of the Contract.

22. Delay in Delivery - Liquidated Damages

- a) Should the **progress** of the Contract at any time be **lagging behind** the program agreed between the University and the Contractor, the University will notify the Contractor in writing and the Contractor shall there upon take such steps as he / she may deem fit to **expedite the progress** of the Contract. Non-issuance of this notice by the University shall not in any way absolve the Contractor of the liquidated damages as stated in Clause **22 b)** below.
- b) If the Contractor **fails to complete the Contract**, in full or part, within the time laid down in the Contract Agreement or any extension thereof, there shall be deducted from the Contract Price, as **liquidated damages**, a sum of one half of one percent (**0.5%**) of the **Contract price** of each unit of the delayed Stores for each calendar week of delay subject to the maximum of five percent (5%) of the Contract Price of the unit or units so delayed, and such deduction shall be in full satisfaction of the Contractor's liability for the said failure.

23. Period of Guarantee

- a) The term **period of guarantee** shall mean the period of twelve (**12**) **months** from the date on which the Stores have been put into operation and demonstrated to University staff. In any case this period shall not exceed eighteen (18) months from the date of taking-over certificate.
- b) During the period of guarantee, the Contractor shall **remedy**, at his / her expense, **all defects** in design, materials, and workmanship that may develop or are revealed under normal use of the said Stores upon receiving written notice from the University; the notice shall indicate in what respect the Stores are faulty.
- c) The provisions of this Clause include all the **expenses** that the Contractor may have to incur for delivery and installation of such replacement parts, material, and Equipment required for ICT Research Center at the NCRAAI, as are needed for satisfactory operation of the Stores at the University premises.

24. Non-assignment

The Contractor shall **not have the right to assign or transfer** without the prior approval of the University the benefit and obligations of the Contract or any part thereof.

25. Expenditure Under Contract

The Contractor shall not make any expenditure for the purpose of this Contract in any **country not authorized** by the Government of Pakistan

26. **Certificate Not to Affect the Rights of the University or the Contractor**

No certificate of the University on account nor any sum paid on account by the University nor any extension of time for the delivery of the Stores pursuant to Clause 19 shall affect or **prejudice the rights of the University** against the Contractor nor relieve the Contractor of his obligation for due performance of the Contract or be interpreted as approval of the Stores supplied, and no certificate shall create liability of the University to pay for the alterations, amendments, variations etc. not ordered in writing by the University or discharge the Contractor for the payment of damages or of any sum against the payment of which he / she is bound to indemnify the University nor shall such certificate nor the acceptance by him / her of any sum paid affect or **prejudice the rights of the Contractor** against the University.

27. **Payments Due from the Contractor**

All costs, ascertained damages or expenses for which under the Contract the Contractor is liable to the University may be deducted by the University from any money due or may become due to the Contractor under the Contract or may be recovered by action of law or other wise from the Contractor.

28 **Legal Proceedings**

The Contract and the Tender Documents are governed by the **laws of Pakistan** and no proceedings to or arising out of any of them shall be instituted in any courts other than those situated at Hyderabad and Karachi, Sindh Pakistan..

29. **Dispute**

Should any question or dispute arise as to the material, design, construction or delay in the supply of the Stores or the purpose or the performance for which they are required or are warranted, the University shall nominate an independent **certifier / expert** having knowledge of Time Attendance System, etc., who will, after affording the parties to the dispute an opportunity to present their contention, and after having tests made as the certifier deems fit, certify whether there has been any breach of Contract or warranty and, if so, what sum shall be paid to the University in diminution or extinction of price, and such certificates shall be final and binding and shall not be questioned and shall be acted upon in arbitral or other legal proceedings. The award of the costs of the certifier will be within his / her own discretion and shall be recoverable from the party against which the costs are awarded.

30. **Arbitration**

All disputes and matters of difference whatsoever (other than those relating to the certificate of expert certifier) between the University and the Contractor relating to and arising out of the Contract and Tender Documents shall be referred to arbitration under the arbitration act 1940 with amendments and re-amendments thereof, each party nominating its own arbitrator. The umpire will be nominated by the arbitrators within the first three arbitral hearings. The **award of the arbitrators or of the umpire shall be final and binding** upon the parties. The arbitral proceedings shall be held at Jamshoro, Sindh Pakistan.

FORM OF TENDER
(LETTER OF OFFER)

Tender Reference No. _____

Dated _____

Name of Contract: **Supply, Installation, Putting into Operation and Demonstration of ICT Research Center Equipment at MUET, Jamshoro under European Education and Culture Executive Agency (EACEA) project.**

The Director (Works & Strategic Planning)
Mehran University of Engineering & Technology
JAMSHORO, SINDH

Dear Sir,

1. Having examined the Tender Documents including Instructions to Tenderers, Conditions of Contract, Specifications, Drawings, Schedule of Prices and Addenda Nos. _____ for the execution of the above-named Contract, we, the undersigned, being a company doing business under the name and address _____ and being duly incorporated under the laws of Pakistan hereby offer to execute and complete such Contract and remedy any defects therein in conformity with the said Documents including Addenda thereto for the Total Tender Price of Rs. _____ (in figures and words) or such other sum as may be ascertained in accordance with the said Documents.
2. We understand that all the Schedules attached hereto form part of this Tender.
3. As security for due performance of the undertakings and obligations of this Tender, we submit herewith a Bid Bond referred to in Clause 3 of the Instructions Tenderers and as per Annexure “D”, in the amount of Rs. _____ (in words and figures) drawn in favor of or made payable to Mehran University of Engineering and Technology, Jamshoro, and valid for a period of 90 days beyond the period of validity of this Tender.
4. We undertake, if our Tender is accepted, to complete the whole of the work comprised in the above-named Contract within the time stated in Clause 12 of the Instructions to Tenderers.
5. We agree to abide by this Tender for the period of 90 days beyond the date of opening of the Tender, and it shall remain binding upon us and may be accepted at any time before the expiration of this period.
6. Unless and until a formal Contract Agreement is signed, this Tender, together with your acceptance thereof, shall constitute a binding contract between us.
7. We undertake, if our Tender is accepted, to execute the Contract Performance Bond referred to in Clause 3 of the Instructions to Tenderers and as per Annexure “E” for the due performance of the Contract.

8. We understand that you are not bound to accept the lowest or any Tender you may receive.
9. We do hereby declare that this Tender is made without any collusion, comparison of figures or arrangement with any other person or persons making a Tender for the above-named Contract.
10. We confirm, if our Tender is accepted, that all partners of the joint venture shall be liable jointly and severally for the execution of the Contract and the composition or the constitution of the joint venture shall not be altered without the prior consent of the Vice Chancellor, Mehran University of Engineering and Technology, Jamshoro. (Please delete this clause in case of Tender from a single firm)

Dated this _____ day of _____ 2024

Signature _____ in the capacity of _____ duly authorized

to sign Tender for and on behalf of _____
(Name of Tenderer in Block Capitals)

Address: _____

Witness:

Name: _____

Address: _____

Occupation: _____

Bid Data Sheet

Notes on the Bid Data Sheet

Section II is intended to assist the Procuring agency in providing the specific information in relation to corresponding clauses in the Instructions to Bidders included in Part one Section I, and has to be prepared for each specific procurement.

The Procuring agency should specify in the Bid Data Sheet information and requirements specific to the circumstances of the Procuring agency, the processing of the procurement, the applicable rules regarding bid price and currency, and the bid evaluation criteria that will apply to the bids. In preparing Section II, the following aspects should be checked:

- (a) Information that specifies and complements provisions of Part One Section I must be incorporated.
- (b) Amendments and/or supplements, if any, to provisions of Part One Section I as necessitated by the circumstances of the specific procurement, must also be incorporated.

BIDDING DATA

(This section should be filled in by the Engineer/Procuring Agency before issuance of the Bidding Documents).

- a) Name & Address of the procuring agency. : Mehran University of Engineering & Technology, Jamshoro
- b) Brief Description of Works : **Procurement of ICT Research Center Equipment at MUET, Jamshoro under European Education and Culture Executive Agency (EACEA) project.**
- c) Estimated Cost : **Rs. 9.084 (M)**
- d) Amount of Bid Security : **5%**
- e) Period of Bid Validity : **90 days.**
- f) Amount of Performance Security : **5%**
- g) Percentage if any, to be deducted from bill : **N.A.**

Tenders will be issued from **15-11-2024 up-to 02-12-2024**

- h) Deadline of submission of Bids along with time : **03-12-2024 upto 10:30 (A.M)**
Bidders are advised to submit bids through EPADS. Manual bids will not be entertained / received.
- i) Venue, Date & Time of Bid opening : Office of the Deputy Director (Procurement), MUET, Jamshoro
03-12-2024 @ 11:30 (A.M)
- j) Time for Completion from written order of commence : **Delivery should be made within (04) Months after the award of Contract**

k) Liquidity damages : (0.05% of Estimated cost or Bid cost)

l) Stamp duty : **0.35%** or notified by the Govt. of Sindh, will be paid by successful bidder as stamp duty.

m) Deposit Receipt No. : _____
Date : _____
Amount : _____

BID DATA SHEET

Introduction

ITB 1.1	Mehran University of Engineering & Technology, Jamshoro
ITB 1.1	Loan or credit or Project allocation number.
ITB 1.1	Procurement of Goods:
ITB 1.1	Procurement of ICT Research Center Equipment at MUET, Jamshoro under European Education and Culture Executive Agency (EACEA) project.
ITB 4.1	Mehran University of Engineering & Technology, Jamshoro
ITB 6.1 Address	Deputy Director (Procurement), Directorate of Works & Strategic Planning, MUET Jamshoro. Ptcl # 022-2772250-72 (Ext: 7515)
ITB 8.1	English

Bid Price and Currency

ITB 11.2	The price quoted shall be FOR basis (in Pak Rupees)
ITB 11.5	The price shall be fixed,

Preparation and Submission of Bids

ITB 13.3 (d)	Qualification requirements. The Bidder/s should have Minimum Three years of experience in the supply of similar type of Goods. The Bidder/s should be the tax payer and registered with GST.
ITB 14.3 (b)	Spare parts required for.... Not Applicable
ITB 15.1	Amount of bid security: 5% of the total bid quoted.
ITB 16.1	The bid should be valid for 90 days
ITB 17.1	Number of copies.
ITB 18.2 (a)	Deputy Director (Procurement), Directorate of Works & Strategic Planning, MUET Jamshoro
ITB 18.2 (b)	IFB Procurement of Goods.
ITB 19.1	Deadline for online bid submission through EPADS:- 3rd December, 2024 upto 10:30 (a.m) Bids received after the due date and time will not be entertained.
ITB 22.1	Date, Time, and Place for bid opening through EPADS. 3rd December, 2024 upto 11:00 (a.m) in the office Deputy Director (Procurement), MUET, Jamshoro.

Bid Evaluation	
ITB 25.3	The MUET will accept Most Advantageous Bids as per Rule 48 & 49 of SPPRA Rules, 2010 (Amended 2021)
ITB 25.4 (a) ITB 25.4 (b)	Incomplete and conditional quotations will be rejected forthwith. No cutting / overwriting in the offered prices will be accepted.
Option (i) Option (ii) Option (iii)	adjustment expressed as a percentage, or adjustment expressed in an amount in the currency of bid evaluation, or adjustment expressed as a percentage
ITB 25.4 (c) (ii)	Deviation in payment schedule. Annual interest rate.
ITB 25.4 (d)	Cost of spare parts.
ITB 25.4 (e)	Spare parts and after sales service facilities in the Procuring agency's country.
ITB 25.4 (f)	Operating and maintenance costs. Factors for calculation of the life cycle cost: (i) number of years for life cycle; (ii) operating costs; (iii) maintenance costs; and (iv) rate, as a percentage, to be used to discount all annual future costs calculated under (ii) and (iii) above to present value. or Reference to the methodology specified in the Technical Specifications or elsewhere in the bidding documents.
ITB 25.4 (g)	Performance and productivity of equipment.
ITB 25.4 (h)	Details on the evaluation method or reference to the Technical Specifications.
ITB 25.4 Alternative	Specify the evaluation factors.

Contract Award	
ITB 29.1	Percentage for quantity increase or decrease. (15) percent.

TENDER PARTICULARS

THE TENDERERS MUST SUPPLY THE FOLLOWING SPECIFIC INFORMATION FOR EACH ITEM OR GROUP OF ITEMS OF THE STORES:

1. Conformation of Stores:

Whether the Stores offered conform to the particulars specified in the Schedules; if not, details of deviations must be stated in Annexure “F”.

2. Manufacturing Details:

- (i) Brand of Time Attendance System Equipment.
- (ii) Name and address of Manufacturer; and
- (iii) Country of origin of Stores.

3. Delivery Schedule: `

- (i) Earliest date by which delivery can be affected;
- (ii) Complete schedule of delivery; and
- (iii) If the delivery period is different for different items, it must be indicated item wise.

4. Packing Specification:

Whether the specifications for packing given in the Tender Documents will be adhered to.

ANNEXURE "C1"

**FORM OF SCHEDULE TO TENDER FOR STORES MANUFACTURED/AVAILABLE IN
PAKISTAN WITHOUT INVOLVING IMPORT.**

Due by _____ hours on _____
(time) (date) (month) (year)

SCHEDULE TO TENDER NO. _____ DATED _____

The Tender will be opened at _____ hours on _____
(time) (date) (month) (year)

Delivery on or before _____
(date) (month) (year)

Rates and amount to be quoted in Pakistani Rupees

S.No.	Code/ Item No.	Description Of Stores	Detailed Specifications Of Stores with Model No.	Quantity Of Stores.	Unit	Rate Per Unit	Total Price.
1	2	3	4	5	6	7	8

It is certifies that:

- i) The Stores offered above conform in all respects with the particulars/specifications given in the Tender Documents' and
- ii) All the terms and conditions of the Tender Documents are acceptable to us.

(signature of the authorized person)

SEAL

(name of the authorized person)

(name of the Tenderer)

BID BOND

(Bank Guarantee)

Guarantee No _____

Executed on _____

Expiry date _____

Letter by the Guarantor (Bank) to the Employer (University)

Name of Guarantor (Bank) with address: _____

Name of Principal (Tenderer) with address: _____

Penal sum of Security (Bond),(in figures and words): _____

Tender Reference No. _____ Date of Tender _____

KNOW ALL MEN BY THESE PRESENTS, that in pursuance of the terms of the Tender and at the request of the said Principal (Tenderer), we the Guarantor above-named are held and firmly bound unto the Vice Chancellor, Mehran University of Engineering and Technology, Jamshoro, acting through the Director (Works & Strategic Planning), Mehran University of Engineering and Technology, {hereinafter called The “Employer” (“University”)} in the sum stated above, for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators and successors, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH, that whereas the Principal (Tenderer) has submitted the accompanying Tender numbered and dated as above for supply, installation, putting into operation and demonstration of Equipment required for ICT Research Center at the NCRAAI at Mehran University of Engineering and Technology, Jamshoro, to the said Employer (University); and

WHEREAS, the Employer (University) has required as a condition for considering the said Tender that the Principal (Tenderer) furnish a Bid Bond in the above said sum to the Employer (University), conditioned as under:

- 1) that the Bid Bond shall remain valid for a period of 28 days beyond the period of validity of the Tender;

2) that in the event of;

- a) the Principal (Tenderer) withdraws his Tender during the period of validity of the Tender;
- b) the Principal (Tenderer) does not accept the correction of his Tender Price, pursuant to Clause 16 of “Instructions to Tenderers”; or
- c) failure of the successful Tenderer to:
 - i) furnish the required Contract Performance Bond, in accordance with Clause 3 of “Instructions to Tenderers”; or
 - ii) sign the proposed Contract Agreement, in accordance with Clause 4 of the “Conditions of Contract”;

then the entire sum be paid immediately to the said Employer (University) as liquidated damages and not as penalty for the successful Tenderer’s failure to perform.

NOW THEREFORE, if the successful tenderer shall, within the period specified therefore, on the prescribed form presented to him for signature enter into a formal Contract with the said Employer (University) in accordance with his Tender as accepted and furnish within twenty eight (28) days of his being required to do so, a Contract Performance Bond with good and sufficient surety, as may be required, upon the form prescribed by the said Employer (University) for the faithful performance and proper fulfillment of the said Contract or in the event of rejection of the said Tender by the Employer (University) within the time specified then this obligation shall be void and of no effect, but otherwise to remain in full force and effect.

PROVIDED THAT, the Guarantor shall forthwith pay to the Employer (University) the said sum stated above upon first written demand of the Employer (University) without cavil or argument and without requiring the Employer (University) to prove or to show grounds or reasons for such demand notice of which shall be sent by the Employer (University) by registered post duly addressed to the Guarantor at its address given above.

PROVIDED ALSO THAT, the Employer (University) shall be the sole and final judge for deciding whether the Principal (Tenderer) has duly performed his / her obligations to sign the Contract Agreement and to furnish the required Contract Performance Bond within the time stated above, or has defaulted in fulfilling the said requirements and the Guarantor shall pay without objection the sum stated above upon first written demand from the Employer (University) forthwith and without reference to the Principal (Tenderer) or any other person.

IN WITNESS WHEREOF, the above bounden Guarantor has executed the instrument under its seal on the date indicated above, the name and seal of the Guarantor being hereto affixed and these presents duly signed by its undersigned representative pursuant to the authority of its governing body.

Guarantor (Bank)

Witness:

1. _____
(Signature)

(Signature)

(Name, Title, Address and Seal)

(Name)

2. _____
(Signature)

(Title)

(Name, Title, Address and Seal)

(Corporate Guarantor Seal)

ANNEXURE “E”

CONTRACT PERFORMANCE BOND

(Bank Guarantee)

Guarantee No. _____

Executed on _____

Expiry Date _____

Letter by the Guarantor (Bank) to the Employer (University)

Name of Guarantor (Bank) with Address: _____

Name of Principal (Contractor) with address: _____

Penal Sum of Security (Bond), (in words and figures) _____

Letter of Acceptance No. _____ Dated _____

KNOW ALL MEN BY THESE PRESENTS, that in pursuance of the Tender Documents and above said Letter of Acceptance (hereinafter called the Documents) and at the request of the said Principal (Contractor) we, the Guarantor above named, are held and firmly bound unto the Vice Chancellor, Mehran University of Engineering and Technology, Jamshoro, Sindh, acting through the Director (Works & Strategic Planning), Mehran University of Engineering and Technology {hereinafter called the Employer (University)} in the penal sum of amount stated above for the payment of which sum well and truly to be made to the said Employer (University), we bind ourselves, our heirs, executors, administrators and successors, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH, that whereas the Principal (Contractor) has accepted the Employer's (University's) above said Letter of Acceptance for the supply, installation, putting into operation and demonstration of Equipment required for ICT Research Center at the NCRAAI, Mehran University of Engineering and Technology, Jamshoro, Sindh.

NOW THEREFORE, if the Principal (Contractor) shall well and truly perform and fulfill all the undertakings, covenants, terms and conditions of the said Documents during the original terms of the said Documents and any extensions thereof that may be granted by the Employer (University), with or without notice to the Guarantor, which notice is hereby waived and shall also well and truly perform and fulfill all the undertakings, covenants, terms and conditions of the Contract and of any and all modifications of the said Documents that may hereafter be made, notice of which modifications to the Guarantor being hereby waived, then, this obligation to be void; otherwise to remain in full force and virtue till the expiry of the guaranty period as per Clause 23 of the Conditions of Contract.

Our total liability under this Guarantee is limited to the sum stated above and it is a condition of any liability attaching to us under this Guarantee that the claim for payment in writing shall be received by us within the validity period of this Guarantee, failing which we shall be discharged of our liability, if any, under this Guarantee.

We, _____ (the Guarantor), waiving all objections and defenses under the Contract, do hereby irrevocably and independently guarantee to pay to the Employer (University) without delay upon the Employer's (University's) first written demand without cavil or arguments and without requiring the Employer (University) to prove or to show grounds or reasons for such demand any sum or sums up to the amount stated above, against the Employer's (University's) written declaration that the Principal (Contractor) has refused or failed to perform the obligations under the Contract which payment will be effected by the Guarantor to the Employer's (University's) designated Bank and Account Number.

PROVIDED ALSO THAT the Employer (University) shall be the sole and final judge for deciding whether the Principal (Contractor) has duly performed his obligations under the Contract or has defaulted in fulfilling the said obligations, and the Guarantor shall pay without objection any sum or sums up to the amount stated above upon first written demand from the Employer (University) forthwith and without any reference to the Principal (Contractor) or any other person.

IN WITNESS WHEREOF, the above bounden Guarantor has executed this Instrument under its seal on the date indicated above, the name and corporate seal of the Guarantor being hereto affixed and these presents duly signed by its undersigned representative, pursuant to authority of its governing body

Guarantor (Bank)

Witness:

1. _____
(Signature)

(Signature)

Name, Title and Address (Seal)

(Name)

2. _____
(Signature)

(Title)

Name, Title and Address (Seal)

Corporate Guarantor (Seal)

ANNEXURE “F”

Statement Describing Deviation from Specifications.

S.No.	Code No.	Description of Stores	Statement of Variation from Specifications	Reasons for Variations.
1	2	3	4	5

(signature of the authorized person)

(name of the authorized person)

SEAL

On behalf of

(name and address of the Tenderer)

BILL OF QUANTITIES

BOQ OF ICT RESEARCH CENTER EQUIPMENT

1. WIRELESS SENSOR NETWORK SOLUTIONS

S#	Description of Items	Qty	Unit Rate	Amount Rs.
1.	RS-ZS-N01-* Noise Sensor (OR equivalent / Advanced) Power supply: 10~30V DC (0-10V output type recommends DC24V power supply) Measurement range 30dB~120dB Resolution 0.1dB Frequency range 20Hz~12.5kHz Accuracy ± 0.5 dB (at reference pitch, 94dB@1kHz) Transmitter working environment -20°C~+60°C, 0%RH~95%RH (non-condensing) Response time ≤ 3 s Stability less than 2% in the use cycle Output single RS485/4-20mA/0-5V/0-10V	2		
2.	Rain and Snow Sensor RS-YUX (OR Equivalent / Advanced) Supply Voltage 12-24VDC, Automatic heating Heating power: 10W max, Output, Relay(NO), Load Capacity(relay), AC120V/2A, DC24V/2A, Coil material, old-plated (Strong corrosion resistance), Ingress protection, IP67, Operating Temperature -30°C~+70°C, Weight (unpacked) 150g, Dimension 90*60*40mm, Storage Condition, 10°C-60°C @ 20%-90%RH	2		
3.	Wifi temperature and humidity data logger (OR Equivalent / Advanced) Power Supply : 10-30VDC Output signal: WiFi wireless (2.4GHZ) Capacity : 65000 readings Upload : 5S-12H can be set Range : -40~+80°C, 0~100%RH Accuracy : ± 0.4 °C, ± 2 %RH Data refresh : 2S Device storage : 1-1999 minutes can be set, the default is 30 minutes	2		
4.	Air Quality Monitor (or equivalent/Advanced) Detection parameters: temperature, humidity, PM2.5, PM10, TSP, air pressure, light, noise, odor, TVOC, CO2, formaldehyde, O3, CO, CH4, O2, SO2, NO2, renke, H2, H2S, NH3, PM2.5. Detect item Range PM2.5, Resolution 0~1000ug/m3 1ug/m3 Accuracy $\pm 3\%$ FS (@100ug/m3, 25°C, 50%RH)	2		

S#	Description of Items	Qty	Unit Rate	Amount Rs.
5.	Dji Mini 3 Pro Smart Controller (Dji Rc) + Sensors (OR equivalent / Advanced) Camera: 1/1.3-inch CMOS Effective Pixels: 48 MP CMOS sensor, Lens FOV: 82.1° Format Equivalent: 24 mm Aperture: f/1.7 Focus Range: 1 m to ∞, Speed: 16 m/s, Weight: <249 g (with standard battery), ~290 g (with Flight Plus battery), Range: 12 km, Battery: 34 minutes (standard battery), 47 minutes (Flight Plus battery), Storage: 1.2 GB (expandable up to 1 TB with microSD), Dimensions: 145×90×62 mm (folded), 171×245×62 mm (unfolded), Video resolution: 4K (3840×2160) at 24/25/30/48/50/60 fps or 1080p at 120 fps, Video formats: MP4/MOV (H.264/H.265) @ up to 150 Mbps Color Profiles: Normal, D-Cinelike	1		
6.	DJI Mavic 3 Multispectral (OR equivalent / Advanced) Control Method Included Transmitter Maximum Operating Distance 9.3 Miles / 15 km SanDisk 256GB Extreme UHS-I microSDXC Memory: 1+1 , DJI Battery Kit for Mavic 3 Enterprise 1+1, DJI 100W USB-C Power Adapter 1+1, DJI Propellers for Mavic 3 Enterprise (Pair) 2+2, Xcellon USB Multi-Card Reader 1+1, DJI Speaker for Mavic 3 Enterprise 1+1, Software : M3M Mapping (3 years licenses) DJI Pilot 2 (3 years licenses) DJI Terra – 3 months license included But we need (3 years licenses) DJI Smart Farm Platform – 1 year license included But we need (3 years licenses)	1		
7.	P4 Multispectral Dji (OR Equivalent / Advanced) Aircraft: Max Flight Time: Approx. 27 minutes, Max Speed: 31 mph (50 kph) (P- mode); 36 mph (58 kph) (A-mode), Takeoff Weight 1487 g, Mapping Functions: round Sample Distance (GSD) (H/18.9) cm/pixel, H indicates the aircraft altitude relative to the area mapped (unit: m), GNSS: Single-Frequency High-Sensitivity GNSS GPS + BeiDou + Galileo[2] (Asia); GPS + GLONASS + Galileo[2] (other regions), Gimbal: Controllable RangeTilt: -90° to +30°, Vision System: Velocity Range ≤ 31 mph (50 kph) at 6.6 ft (2 m) above ground with adequate lighting Altitude Range 0 - 33 ft (0 - 10 m), Camera: Sensors: Six 1/2.9" CMOS, including one RGB sensor for visible light imaging and five monochrome sensors for multispectral imaging. Each Sensor: Effective pixels 2.08 MP (2.12 MP in total). Filters: Blue (B): 450 nm ± 16 nm; Green (G): 560 nm ± 16 nm; Red (R): 650 nm ± 16 nm; Red edge (RE): 730 nm ± 16 nm; Near-infrared (NIR): 840 nm ± 26 nm; Lenses FO (Field of View): 62.7° Focal Length: 5.74 mm (35 mm format equivalent: 40 mm), autofocus set at ∞ Aperture: f/2.2, Remote Controller, Mobile Device Holder along with 8" Tablet for Display, Operating Frequency, 2.4000 GHz to 2.4835 GHz (Europe, Japan, Korea), 5.725 GHz to 5.850 GHz (Other countries/regions) , Built-in Battery 6000 mAh LiPo 2S, Intelligent Flight Battery (PH4-5870mAh-15.2V, Battery Type, LiPo 4S, Intelligent Flight Battery Charging Hub (PHANTOM 4 CHARGING HUB): 17.4 V, AC Power Adapter (PH4C160) :17.4 V	1		

2. CTD-DIVER CONDUCTIVITY, TEMPERATURE AND DEPTH SENSOR FOR AUTOMATIC GROUND WATER MONITORING

S#	Description of Items	Qty	Unit Rate	Amount Rs.
1.	<p>CTD-Diver Conductivity, Temperature and Depth Sensor For Automatic Ground Water Monitoring (OR Equivalent / Advanced)</p> <p>Diver data logger & Diver link: Data logger range 100m , Diver link include of barometer , DXT cable 400 meter , Data transmission plan Row (1 YEAR) water level logger Operation Range 0 to 207 kPa (0 to 30 psia); approximately 0 to 9 m (0 to 30 ft) of water depth at sea level, or 0 to 12 m (0 to 40 ft) of water at 3,000 m (10,000 ft) of altitude</p> <p>Factory Calibrated Range 69 to 207 kPa (10 to 30 psia), 0° to 40°C (32° to 104°F)</p> <p>Burst Pressure 310 kPa (45 psia) or 18 m (60 ft) depth</p> <p>Water Level Accuracy* Typical error: $\pm 0.05\%$ FS, 0.5 cm (0.015 ft) water Maximum error: $\pm 0.1\%$ FS, 1.0 cm (0.03 ft) water</p> <p>Raw Pressure Accuracy** $\pm 0.3\%$ FS, 0.62 kPa (0.09 psi) maximum error Resolution <0.02 kPa (0.003 psi), 0.21 cm (0.007 ft) water</p> <p>Pressure Response Time (90%)* < 1 second; measurement accuracy also depends on temperature response time</p> <p>Temperature Measurements (All Models) Operation Range -20° to 50°C (-4° to 122°F)</p> <p>Accuracy $\pm 0.44^\circ\text{C}$ from 0° to 50°C ($\pm 0.79^\circ\text{F}$ from 32° to 122°F), see Plot A in manual</p> <p>Resolution 0.10°C at 25°C (0.18°F at 77°F), see Plot A in manual</p> <p>Response Time (90%) 5 minutes in water (typical)</p> <p>Stability (Drift) 0.1°C (0.18°F) per year Logger</p> <p>Real-time Clock ± 1 minute per month 0° to 50°C (32° to 122°F)</p> <p>Battery 2/3 AA, 3.6 Volt lithium, factory-replaceable</p> <p>Battery Life (Typical Use) 5 years with 1 minute or greater logging interval Memory (Non-volatile) 64K bytes memory (approx. 21,700 pressure and temperature samples)</p> <p>Weight Stainless steel models: approximately 210 g (7.4 oz)</p> <p>Titanium models: approximately 140 g (4.8 oz)</p> <p>Dimensions 2.46 cm (0.97 inches) diameter, 15 cm (5.9 inches) length; mounting hole 6.3 mm (0.25 inches) diameter</p> <p>Wetted Materials 316 stainless steel, Viton® o-rings, acetyl cap, ceramic sensor Logging Interval Fixed-rate or multiple logging intervals, with up to 8 user- defined logging intervals and durations; logging intervals from 1 second to 18 hours.</p> <p>Launch Modes Immediate start and delayed start Offload Modes Offload while logging; stop and offload Battery Indication Battery voltage can be viewed in status screen and optionally logged in data file. Low battery indication in data file.</p>	5		

3. MODULAR SOLUTIONS WIRELESS SENSORS

S#	Description of Items	Qty	Unit Rate	Amount Rs.
1.	Carbon Monoxide (CO) sensor - MQ7 (OR Equivalent / Advanced) Carbon Monoxide sensor: Temperature: 20°C ± 2°C Humidity: 65% ± 5% RH Standard Test Circuit: Vc: 5.0V ± 0.1V; Vh(high):5.0V±0.1V Vh(low): 1.5V±0.1V	5		
2.	Gravity: Analog CO2 Gas Sensor (MG-811 Sensor) (OR Equivalent / Advanced) Operating Voltage 5V Interface Gravity Analog Surface Immersion gold surface Connector High quality Output One digital output Onboard Heating circuit Size 32x42mm (1.26x1.65")	5		
3.	BNP 280 Pressure Sensor in Hpa(300-1100) interface (OR Equivalent / Advanced) Chip: BMP280 Power Supply: 3V Communication Method: Standard IIC/SPI Communication Protocol Air Pressure Range: 300-1100hPa Pin Pitch: 2.54mm Module Size: 11.5mm*15mm	5		
4.	Soil Moisture Sensor V2.2.4 (OR Equivalent / Advanced) Operating voltage: 3.3V~5V Dual output mode, analog output more accurate A fixed bolt hole for easy installation With power indicator (red) and digital switching output indicator (green) Having LM393 comparator chip, stable Panel PCB Dimension: Approx.3cm x 1.5cm Soil Probe Dimension: Approx. 6cm x 3cm Cable Length: Approx.21cm Interface Description(4-wire): VCC: 3.3V-5V GND: GND DO: digital output interface(0 and 1) AO: analog output interface	5		
5.	Grove - Dust Sensor (PPD42NS) (OR Equivalent / Advanced) Detectable particle size approx. 1µm (minimum.) Detectable range of concentration 0~28,000 pcs/liter (0~8,000pcs/0.01 CF=283ml) Supply Voltage DC5V +/- 10% (CN1:Pin1=GND, Pin3=+5V) Ripple Voltage within 30mV Operating Temperature Range 0~45°C Operating Humidity Range 95%rh or less (without dew condensation) Power consumption 90Ma Storage temperature -30~60°C Time for stabilization 1 minute after power turned on Dimensions 59(W) × 45(H) × 22(D) [mm] Weight 24g(approx.)	3		

S#	Description of Items	Qty	Unit Rate	Amount Rs.
6.	Microphone Sound Detection Sensor Module Lm393 (OR Equivalent / Advanced) Operating Voltage: 3.3V to 5V DC LM393 comparator with threshold preset PCB Size: 3.4cm * 1.6cm Induction distance: 0.5 Meter Operating current: 4~5 mA Microphone Sensitivity (1kHz): 52 to 48 dB	3		
7.	Grove - High Precision Barometric Pressure Sensor (DPS310) (OR Equivalent / Advanced) Operating Voltage 3.3V / 5V Operating air pressure 300 to 1200hPa Precision ± 0.002 hPa Interface I2C,SPI I2C Address The default address is 0x77 When short-circuited, the address is 0x76	3		
8.	CQ-robot ocean water level sensor (OR Equivalent / Advanced) Working Voltage : DC 3-5V Working Current : <20mA Operating temperature: 10~30 Celsius Sensor Type : Analog Detection Area : 40 mm x 16 mm Size : 65 mm x 20 mm x 8 mm Humidity: 10% -90% non-condensing	2		
9.	BH1750 Ambient Light Sensor (OR Equivalent / Advanced) To measure light intensity up to the range of 65535 lx units. This sensor uses the I2C communication protocol to send data to the microprocessor. The main module present in the sensor. This module works on 3.3V. So, a voltage regulator is used with the IC. IR radiation has very less effect on the measurements of this sensor. The measurement range of the sensor is adjustable.. The operating temperature range of this sensor is from -40°C to 85°C. The minimum I2C reference voltage is 1.65V. This sensor works with a 400kHz of I2C clock frequency.	2		
10.	Gravity - Analog Electrical Conductivity Sensor / Meter for Arduino (OR Equivalent / Advanced) Supply Voltage: 3.0~5.0V Output Voltage: 0~3.4V Probe Connector: BNC Signal Connector: PH2.0-3Pin Measurement Accuracy: $\pm 5\%$ F.S. Board size: 42mm*32mm/1.65in*1.26in Electrical Conductivity Probe Probe Type: Laboratory Grade Cell Constant: 1.0 Support Detection Range: 0~20ms/cm Recommended Detection Range: 1~15ms/cm Temperature Range: 0~40°C Probe Life: >0.5 years (depending on the frequency of use) Cable Length: 100cm	1		

S#	Description of Items	Qty	Unit Rate	Amount Rs.
11.	MQ-137 NH3 ammonia gas sensor (OR Equivalent / Advanced) Detect/Measure NH3, Ammonia Concentration 5-500ppm (Ammonia) Heater Resistance(RH) $31\Omega \pm 3\Omega$ Room Temp. Heater consumption(PH) $\leq 900\text{mW}$ Sensing Resistance(Rs) $2\text{K}\Omega - 15\text{K}\Omega$ (in 50ppm NH3) Sensitivity(S) $R_s(\text{in air})/R_s(5000\text{ppm CH}_4) \geq 5$ Slope(α) $\leq 0.6(R_{100\text{ppm}}/R_{50\text{ppm NH}_3})$ Output Voltage(V) 0 ~ 5	1		
12.	Gravity - Analog Waterproof Capacitive Soil Moisture Sensor V2.0 - DFRobot SEN0308 (OR Equivalent / Advanced) Supply Voltage: 3.3 ~ 5.5VDC Interface: 2.54-3Pin Output Voltage: 0 ~ 3VDC Cable Length: 1.5m Dimension(L x W): 175 x 30mm / 6.89 x 1.18 inches	1		
13.	Gravity: I2C Ozone Sensor (0-10ppm) (OR Equivalent / Advanced) Detection of Gases: Ozone Operating Voltage: 3.3 to 5.5V DC Output Signal: IIC output Measurement Range: 0 to 10ppm Resolution: 0.01ppm (10ppb) Preheat Time: 3 minutes Response Time: ≤ 90 seconds Recovery Time: ≤ 90 seconds Operating Temperature: -20°C to 50°C Operating Humidity: 15 to 95%RH (no condensation) Storage Temperature: -20°C to 50°C	1		
14.	DF-Robot Gravity - analogy ph. Pro sensor/meter (OR Equivalent / Advanced) Module Power : 5.00V Module Size : 43 x 32mm(1.69x1.26") Measuring Range :0 - 14PH Measuring Temperature: 0 - 60 °C Accuracy : $\pm 0.1\text{pH}$ (25 °C) Response Time : $\leq 1\text{min}$ pH Sensor with BNC Connector pH2.0 Interface (3 foot patch) Gain Adjustment Potentiometer Power Indicator LED	1		
15.	Grove 4 Pin Buckled 50cm Cable - Single Piece (OR Equivalent / Advanced) Dimensions: 500mm x 9.6mm x 4mm. Weight: G.W 45g. Grove - Universal 4 Pin Buckled 50cm Cable. Converts Grove Connector to Grove Connector. Supports Raspberry Pi and Arduino. Compatible with Grove System, check all Grove modules that we carry. 5 Pieces 1 PIECE per Pack.	1		
16.	GPS module Neo6m V2 Ublox (OR Equivalent / Advanced) 5Hz position update rate. Operating temperature range: -40 TO 85°C UART TTL socket. EEPROM to save configuration settings. Rechargeable battery for Backup. The cold start time of 38 s and Hot start time of 1 s. Supply voltage: 3.3 V. Configurable from 4800 Baud to 115200 Baud rates	1		

S#	Description of Items	Qty	Unit Rate	Amount Rs.
17.	3D Lidar Livox MID 360, Small but Mighty (OR Equivalent / Advanced) LiDAR Laser Wavelength: 905 nm Detection Range: 40 m @ 10% reflectivity, 70 m @ 80% reflectivity FOV: Horizontal: 360°, Vertical: -7°~52° Range Precision: $\leq 2 \text{ cm}^4$ (@ 10m), $\leq 3 \text{ cm}^5$ (@ 0.2m) Angular Precision: $< 0.15^\circ$ Frame Rate: 10 Hz (typical) Data Port: 100 BASE-TX Ethernet Data synchronization: IEEE 1588-2008 (PTPv2), GPS Anti-Interference Function: Available IMU: Built-in IMU Model: ICM40609 Operating Temperature: -4°F to 131°F (-20°C to 55°C) ⁷ Power: 6.5 W (average) Dimensions: 65×65×60 mm Weight: 265 g	1		
18.	Intel Real Sense Depth Camera D455 (OR Equivalent / Advanced) Depth Camera Length × Depth × Height: 124 mm × 26 mm × 29 mm Stereoscopic depth Range: 0.6 - 6 m Integrated IMU Depth Field of View (FOV): $87^\circ \times 58^\circ$ Minimum Depth Distance (Min-Z) at Max Resolution: ~52 cm Depth output resolution: 1280×720 RGB frame resolution: 1280×800 RGB sensor resolution: 1 MP Depth frame rate: Up to 90 fps Depth Accuracy: $< 2\%$ at 4 m	1		
19.	OAK-D Depth Camera (OR Equivalent / Advanced) AI Depth Camera Processing power: 4 TOPS Sensor: IMX378 DFOV / HFOV / VFOV: $81^\circ / 69^\circ / 55^\circ$ Resolution: 12MP (4056x3040) Focus: AF: 8cm - ∞ Max Framerate: 60 FPS IR Sensitive: With IR filter	1		

4. MICROPROCESSOR AND PROCESSING BOARDS

S#	Description of Items	Qty	Unit Rate	Amount Rs.
1.	Arduino Starter kit (OR Equivalent / Advanced) The only official Arduino starter kit 170-page Arduino Project Book Components for 15 projects Arduino Uno R3 Over 200 electronic parts	1		
2.	Arduino Uno Rev3 (OR Equivalent / Advanced) Microcontroller ATmega328P Operating Voltage 5V Input Voltage (recommended) 7-12V Input Voltage (limit) 6-20V Digital I/O Pins 14 (of which 6 provide PWM output) PWM Digital I/O Pins 6 Analog Input Pins 6 DC Current per I/O Pin 20 mA DC Current for 3.3V Pin 50 mA Flash Memory 32 KB (ATmega328P) of which 0.5 KB used by bootloader SRAM 2 KB (ATmega328P) EEPROM 1 KB (ATmega328P) Clock Speed 16 MHz LED_BUILTIN 13	1		
3.	Grove Base Shield V2.0 for Arduino (OR Equivalent / Advanced) Dimensions 69mm x53mm x23mm Weight G.W 40g Battery Exclude	1		
4.	T-Beam V1.1 Meshtastic Firmware: 868 MHz Lora Modules: X1278/ SX1276 (Node) (OR Equivalent / Advanced) MCU ESP32 Flash 4MB PSRAM 8MB Serial Chip CH9102 Wireless protocol Wi-Fi + Bluetooth 4.2 PMU AXP2101 Onboard functions 3 Buttons (Power+IO38+Reset)Antenna 3D WiFi Antenna [Use by default] (Support WiFi IPEX external antenna, but you need to jump resistance) LoRa antenna GPS ceramic antenna	2		
5.	The Things UNO (LoRa connectivity) for 868 MHZ (Node) (OR Equivalent / Advanced) Type of RF device network node Kit contents prototype board Components RN2483A Communications protocol LoRa Frequency 868MHz Range 10 km	2		

S#	Description of Items	Qty	Unit Rate	Amount Rs.
6.	The Things indoor Gateway - 868 MHz (Gateway) (OR Equivalent / Advanced) Chipset Semtech SX1308 Channels 8 Channels Receive Sensitivity -140/-135 dBm (EU/US) Transmit Power Upto +27 dBm LoRaWAN® Spec Version V.1.0.3 Packet Forwarder Basic station protocol SoC ESP9266 Mode 802.11 b/g/n, Client Mode Tx Power +20 dBm Frequency Bands 2.4 GHz WAN/LAN ports - USB Port USB Type-C (900 mA) Security WPA/WPA2 Dimensions 90*80*40 mm Operating Temperature 0-40°C	1		
7.	ESP-WROOM 32 4 MB (OR Equivalent / Advanced) Dual-core processor with 448 Kbyte ROM, 520 Kbyte SRAM, 16 Kbyte SRAM in RTC, 802.11 b/g/n/e/I Wi-Fi, Bluetooth v4.2 BR/EDR & BLE, clocks & Times,	5		
8.	Raspberry Pi 3 Model B+ 2019 Quad Core 64 Bit Wi-Fi Bluetooth (4GB) (OR Equivalent / Advanced) ARM Cortex-A53 1.4GHz 15W 1GB RAM LPDDR2 RAM WIFI 2.4 GHZ AND 5 GHZ / POWER 180mA/ Operating system : Rasberrian / GPU : video core IV 1080P@ 30 Raspberry pi 3	2		
9.	Jetson Nano 4 GB (OR Equivalent / Advanced) GPU: 128-core Maxwell CPU: Quad-core ARM A57 @ 1.43 GHz Memory: 4 GB 64-bit LPDDR4 25.6 GB/s Storage: micro SD (not included) Video Encode: 4K @ 30 4x 1080p @ 30 9x 720p @ 30 (H.264/H.265) Video Decode: 4K @ 60 2x 4K @ 30 8x 1080p @ 30 18x 720p @ 30 (H.264/H.265) Camera: 2x MIPI CSI-2 DPHY lanes Connectivity: Gigabit Ethernet, M.2 Key E Display: HDMI and display port USB: 4x USB 3.0, USB 2.0 Micro-B Other connectors: GPIO, I2C, I2S, SPI, UART Mechanical: 69 mm x 45 mm, 260-pin edge connector	1		
10.	Lexar memory cards 128 GB (OR Equivalent / Advanced) Capacity: 128GB Read Speed: up to 100MB/s Write Speed: up to 45MB/s Operating Temperature: 0 °C to 70 °C (32 °F to 158 °F)	10		
11.	NVIDIA: Jetson Orin Nano Developer Kit 8GB (OR Equivalent / Advanced) AI Performance 40 TOPS, 8GB Memory, 1024-core GPU with 32 Tensor Cores, GPU Max Frequency 625MHz	1		

S#	Description of Items	Qty	Unit Rate	Amount Rs.
12.	PX4 Development Kit - X500 v2 (OR Equivalent / Advanced) Body - Full Carbon Fiber Top & Bottom plate (144 x 144mm, 2mm thick) Arm - High strength & ultra-lightweight 16mm carbon fiber tubes with newly designed fiber reinforced nylon connectors Landing gear - 16mm & 10mm diameter carbon fiber tubes with strengthened & improved plastic tee connectors. Platform board - With mounting holes for GPS & popular companion computer such as the Raspberry Pi 3 & Jetson Nano Dual 10mm Ø rod x 250 mm long rail mounting system Battery mount with two Battery Straps Hand tools for installation Mechanical Specification: Wheelbase: 500mm Motor mount pattern: 16x16mm Frame Body: 144x144mm, 2mm thick Landing gear height: 215mm Space between top and bottom plates: 28mm Weight: 610g Flight time: ~18 minutes hover with no additional payload. Tested with 5000mAh Battery. Max payload: ~1kg (w/ 4S 5000 mAh battery @70% Throttle)	1		
13.	Radio-Master TX16S Mark II Radio Controller (Mode 2) (OR Equivalent / Advanced) Size: 287x129x184mm Weight: 750g (without battery) Transmission frequency: 2.400GHz-2.480GHz Transmitter module: Option 1: Internal 4-in-1 multi-protocol module (CC2500 CYRF6936 A7105 NRF2401) ; Option 2: Internal ELRS (SX1280) SD card: 256MB by default, 8GB maximum Antenna gain: 2db (transmit power adjustable) Working current: 400mA Working voltage: 6.6-8.4v DC Radio firmware: EdgeTX Module Firmware: Multiprotocol- Module (4IN1) -OR- Express LRS (ELRS) Channels: Up to 16 channels (depending on the receiver) Display: 4.3-inch TFT full-colour touch display with a resolution of 480 * 272 Gimbal: Option 1: V4.0 Hall sensor with Aluminium fascia; Option 2: AG01 CNC Hall sensor Module Bay: JR compatible module bay Upgrade method: Supports USB-C online / SD card offline upgrade	1		

5. PROTOTYPING

S#	Description of Items	Qty	Unit Rate	Amount Rs.
1.	Snap maker 2.0 Modular 3-In-1 3d Printer A350t/A250t (OR Equivalent / Advanced) Print Technology Fused Filament Fabrication (FFF), Marketed as Fused Deposition Modeling (FDM) Build Volume: 12.6 x 13.8 x 13" / 32.0 x 35.1 x 33.0 cm, Number of Extruders 1 Layer Resolution 50 to 300 micron / 0.05 to 0.3 mm Supported Extruder Nozzle Diameter 0.4 mm (Included) Extruder Nozzle Temperature 527°F / 275°C Filament Compatibility ABS, PLA, TPU, Wood, System Connection 1 x Unspecified USBOS Compatibility Window, smacOS 10, Linux	1		
2.	CR-10 Smart 3D Printer (OR Equivalent / Advanced) Assembly: Partially assembled Mechanical arrangement: Cartesian-XZ-head Manufacturer: Creality 3D PRINTER PROPERTIES Build volume: 300 x 300 x 400 mm Feeder system: Bowden drive Print head: Single nozzle Nozzle size: 0.4 mm Max. hot end temperature: 260 °C Max. heated bed temperature: 100 °C Print bed material: Tempered glass Frame: Aluminum Bed leveling: Automatic Connectivity: SD card, WiFi Print recovery: Yes Filament sensor: Yes MATERIALS Filament diameter: 1.75 mm Third-party filament: Yes Filament materials: Consumer materials (PLA, ABS, PETG, Flexibles) SOFTWARE Recommended slicer: Cura, Simplify3D, Repetier-Host Operating system: Windows, Mac OSX, Linux File types: STL, OBJ, AMF DIMENSIONS AND WEIGHT Frame dimensions: 578 x 522 x 648 mm	1		
3.	PLA 1.75MM FILAMENT (OR Equivalent / Advanced) Diameter: 1.75mm	5		

6. BATTERIES & SOLDERING STATION

S#	Description of Items	Qty	Unit Rate	Amount Rs.
1.	Soldering (Shenzhen, de-soldering braid, sealant liquid, soldering wire, stainless steel liquid flux) (OR Equivalent / Advanced) DE soldering braid Sealant liquid soldering wire stainless steel liquid flux	1		
2.	IMAX B6 80W LIPO Battery Balance Charger (OR Equivalent / Advanced) Operation voltage range : DC 11.0 ~ 18.0 Volt or AC 100V ~ 240V 50/60Hz Circuit power : AC to DC adaptor (DC 11.0 ~ 18.0V / 5A) Max. charge power: 80W Max. discharge power: 5W Charge current range : 0.1~5.0A Discharge current range : 0.1~1.0A Current drain for balancing Li-Po: 300mAh/cell	2		
3.	Battery Lipo 3.6 V 2000mA (OR Equivalent / Advanced) Dimensions: 60mm x 36mm x 7mm / 2.4" x 1.4" x 0.3" Weight: 34g Nominal Capacity: 2000mAh \pm 2% Nominal Voltage: 3.7V Standard Charge Current: ~0.2C / 0.5A Charge Cut-Off Voltage: 4.2V Standard Discharge Current: ~0.2C / 0.5A	20		
4.	Gens ace 11.1V 2200mAh 3S 25C Lipo Battery Pack with Deans Plug for RC Heli-Airplane Car Boat Truck (OR Equivalent / Advanced) Material: Li-Polymer Cells: 3S Voltage: 11.1v Capacity: 2200mAh Discharge Rate: 25C Voltage per cell: 3.7V Max voltage per cell: 4.2V Charge Plug: JST-XHR-5P Discharge Plug: EC3 Suggest charge rate: 1	5		
5.	Venom Drive Series 35C 3S 5000mAh 11.1V LiPo Battery - Includes 12 AWG Soft Silicone Wire Connector (OR Equivalent / Advanced) Battery Type: Lithium Polymer (LiPo) Voltage: 11.1V Capacity: 5000mAh C-Rating: 35C Cell Count: 3S Dimensions: 129 x 43 x 29 mm / 5.1 x 1.7 x 1.1 in Weight: 12.3 oz (347 g) Plug Type: XT60 Adapters: EC3, Deans, Traxxas Watt Hours: 55.5 Charge Rate: 1C (5A)	5		
6.	12 V Li-ion battery (OR Equivalent / Advanced) Nominal Voltage: 12.8V Charge Voltage: 14.4v to 14.6V Max Charge / Discharge Current: 100A (amps) Cold Cranking Amps: 1000A (amps) L x W x H: 12.75" x 6.5" x 8.7" Weight: 28 Lbs.	1		

S#	Description of Items	Qty	Unit Rate	Amount Rs.
7.	V-Slot 20x40 Linear Rail (OR Equivalent / Advanced) Type: V-Slot Dimensions: 20x40	20		
8.	V-Slot 20x20 Linear Rail (OR Equivalent / Advanced) Type: V-Slot dimensions: 20x20	20		
9.	90 Degree Joining Plate for 20x20 V-slot Rail (OR Equivalent / Advanced)	25		
10.	90 Degree Joining Plate for 20x40 V-slot Rail (OR Equivalent / Advanced)	25		
11.	90 degrees' corner brackets (OR Equivalent / Advanced) Aluminum Corner for 2040 Extrusion Material: Aluminum	200		
12.	90 degrees' corner brackets (OR Equivalent / Advanced) Aluminum Corner for 2020 Extrusion Material: Aluminum	200		
13.	M4 T-Nuts (or equivalent/Advanced) Type: T-Nuts Screw Size: 3 , 4, 5, 6 mm Material: Carbon Steel Thread Size: M4 Length: 9.7 mm Width: 9.8 mm Height: 4.5 mm	400		
14.	Acrylic Sheets Dimensions: 4'x6' Thickness: 5mm	5		
15.	Vero Board Dimensions: 7 cm x 6 cm	5		
16.	M4 Nuts and Screws (Box of 100): 8/10mm Button Head Socket Cap Screw Assortment, Stainless Steel (OR Equivalent / Advanced) M4 8/10 mm Button Head Socket Cap Stainless Steel	5		
17.	M5 Nuts and Screws (Box of 100): 20mm Button Head Socket Cap Screw Assortment, Stainless Steel Vero board: 7 cm x 6 cm (OR Equivalent / Advanced) M5: 20 mm Button Head Socket Cap Stainless Steel	9		
18.	M6 Nuts and Screws (Box of 100): 8/10/12/16/20mm Button Head Socket Cap Screw Assortment, Stainless Steel (OR Equivalent / Advanced) M6 8/10/12/16/20 mm Button Head Socket Cap Stainless Steel	3		

S#	Description of Items	Qty	Unit Rate	Amount Rs.
19.	Solar Panel: 10W integrated Solar Panel, Die Aluminium Enclosure, 12V 9Ah (OR Equivalent / Advanced) Maximum Power (Wp): 10Wp Maximum Power Voltage (V): 18.00V Maximum Power Current (A): 0.56A Open Circuit Voltage (V): 21.7V Short Circuit Current (A): 0.62A Number of Cells (pcs): 36(4*9)pcs Size of Cell (mm): 26*156mm Size of Module (mm): 350*285*17mm	5		
20.	Wire Connector Signal Head 3 pin 3 way (OR Equivalent / Advanced) Connector: jst 2.0 ph 3pin Plug 2.0 3-Pin Male Connector plug with Wire 2.0 3-Pin Female Connector plug(have not cable) Pitch: 2mm / 0.078 inch	50		
21.	Solid Mono Core Wire 22AWG 50 meter (OR Equivalent / Advanced) Specification: 22AWG Outer diameter: 1.6mm Core Diameter: 0.6mm Length: 50m	1		
22.	Breadboard (OR Equivalent / Advanced) Dimension (l-w-h) in mm: 170-55-10 Tie points: 830 Weight: 85 grams Temperature range: -20 ~ +80°C Contact resistance: 100 mΩ max. Insulation resistance: 1000MΩ min. Dielectric withstanding voltage: 500V AC per 1 minute.	5		
23.	USB to Type B cables (OR Equivalent / Advanced) Output Power : 1.5A Cable Type: USB A and micro USB B outputs Cable Length: 2 meters	5		
24.	USB to Type C cables (OR Equivalent / Advanced) Type: Type C Maximum Current: 3A Connector A : USB A Connector B: Type-C Transmission rate: 480Mbps Cable length: 1m/2m	5		
25.	Male to Male jumper wires bundle Type: male to male Length: 30 cm	10		
26.	Female to Female jumper wires bundle Type: female to female Length: 30 cm	10		
27.	Male to Female jumper wires bundle Type: male to female Length: 30 cm	10		
28.	Clamp Multimeter (OR Equivalent / Advanced) AC current: 400 A / 600 A AC current frequency: 50 Hz ~ 100 Hz DC current: 400 A / 600 A AC voltage: 600 V AC voltage frequency: 10 Hz ~ 10 kHz / 10 Hz ~ 60 kHz	1		

S#	Description of Items	Qty	Unit Rate	Amount Rs.
	DC voltage: 600 V Resistance: 40 MΩ / 60 MΩ Capacitance: 4 mF / 40 mF / 60 mF Temperature: -40°C ~ 1000°C Frequency: 10 Hz ~ 10 MHz Display count 4000 Power: 1.5 V battery (R 03) x 2 Display: 37 mm x 25 mm Dimension: 215 mm × 63 mm × 36 mm temperature probe test leads			
29.	Angle protractor (OR Equivalent / Advanced) Laser engraved scale Measurement accuracy: 0.5. Scoring length: 190mm /7 inches	1		
30.	Digital Vernier calliper (OR Equivalent / Advanced) Measurement Range: 0-6 inches/150mm Accuracy: ±0.001"/0.02mm Resolution: 0.0005"/0.01mm Size: 23.5*7.5*0.5cm Weight: 150g	1		
31.	Cut-off machine (OR Equivalent / Advanced) Rated input power: 2,400 W Cutting disc diameter: 355 mm Cutting disc bore: 25.4 mm No-load speed: 3,800 rpm Cutting capacity at rectangle 0°: 100 x 196 mm Cutting capacity at square 0°: 119 x 119 mm Cutting capacity at L-profile 0°: 130 x 130 mm Weight: 17 kg Cutting capacity at rectangle 45° mitre: 107 x 115 mm Cutting capacity at square 45° mitre: 110 x 110 mm Cutting capacity at L-profile 45° miter: 115 x 115 mm Tool dimensions (width x length x height): 256 x 520 x 400 mm	1		
32.	DC-AC Inverter (OR Equivalent / Advanced) Input voltage: 12V DC Output voltage: AC 220V Output frequency: 50 +/- 3 Hz Output power: 1500W Output voltage: 210V - 240V AC(Inaccuracy: ±10%) Frequency: 50Hz	2		
33.	LaCie Rugged USB-C Portable Hard Drive - 5TB (OR Equivalent / Advanced) Capacity: 5TB Storage: HDD Interface Type: 1 × USB-C (USB 3.0 compatible) Max. Speeds: 130 MB/s Drop Resistance: 4ft (1.2 m)	1		
34.	LaCie Rugged USB-C Portable Hard Drive - 2TB (OR Equivalent / Advanced) Capacity: 2TB Storage: HDD Interface Type: 1 × USB-C (USB 3.0 compatible) Max. Speeds: 130 MB/s Drop Resistance: 4ft (1.2 m)	1		

7. MONITORING (VISUALIZATION)

S#	Description of Items	Qty	Unit Rate	Amount Rs.
1.	Laptop (HP / Dell OR Equivalent / Advanced) HP PROBOOK 450G10 Notebook or Latest Higher Intel® Core™ i7-13th Generation 16 GB DDR4-3200MHz RAM 512 GB PCIe® NVMe™ SSD Integrated Intel® Graphics 15.6" Diagonal, Full HD (1920 x 1080), IPS, Anti- Glare Display Integrated 720p HD Camera Wi-Fi 6E (2x2) and Bluetooth® 5.3 Wireless Card Dual Stereo Speakers, Dual Array Microphones Finger Print Sensor HP Premium Keyboard – Spill Resistant, Backlit Keyboard FreeDOS HP Long-life 3-cell Li-ion Battery, 42 WHR HP Smart 45W AC Adapter Top Load HP Prelude Pro Bag Pike Silver Aluminium Colour - 1 Year HP Official & Local Warranty Verifiable by Local Principle.	2		
2.	High End Desktop System (HP / Dell OR Equivalent / Advanced) Intel Core i9-13900k, motherboard ASUS ROG Strix Z790-E Gaming WiFi, RAM Corsair Vengeance 64 GB (2 x 32 GB) DDR5, graphic card NVIDIA RTX 4090 Super (16 GB), Storage 1 TB NVMe SSD and 2 TB SATA SSD, Cooling Sytem: NZXT Kraken X63 (280mm AIO Liquid Cooler), PC CASECooler Master CM 590 III Mid Tower Chassis 6	2		
3.	SMART LCD Smart Android LCD TV 55" latest model	1		

Note: Quoted amount should be inclusive of all applicable taxes.

Contractor

Deputy Director (Procurement)

(INTEGRITY PACT)**DECLARATION OF FEES, COMMISSION AND BROKERAGE ETC; PAYABLE BY CONTRACTORS.**

Contract No. _____ Dated _____

Contract Value: _____

Contract Title: **Procurement of ICT Research Center Equipment at MUET, Jamshoro under European Education and Culture Executive Agency (EACEA) project.**

M/s _____ hereby declares that it has not obtained or induced the procurement of any contract, right, interest, privilege or other obligation or benefit from Government of Sindh (GoS) or any administrative subdivision or agency thereof or any other entity owned or controlled by it (GoS) through any corrupt business practice.

Without limiting the generality of the foregoing, [name of Contractor] represents and warrants that it has fully declared the brokerage, commission, fees etc. paid or payable to anyone and not given or agreed to give and shall not give or agree to give to anyone within or outside Pakistan either directly or indirectly through any natural or juridical person, including its affiliate, agent, associate, broker, consultant, director, promoter, shareholder, sponsor or subsidiary, any commission, gratification, bribe, finder's fee or kickback, whether described as consultation fee or otherwise, with the object of obtaining or inducing the procurement of a contract, right, interest, privilege or other obligation or benefit in whatsoever form from, from Procuring Agency (PA) except that which has been expressly declared pursuant hereto.

[name of Contractor] accepts full responsibility and strict liability that it has made and will make full disclosure of all agreements and arrangements with all persons in respect of or related to the transaction with PA and has not taken any action or will not take any action to circumvent the above declaration, representation or warranty.

[name of Contractor] accepts full responsibility and strict liability for making any false declaration, not making full disclosure, misrepresenting facts or taking any action likely to defeat the purpose of this declaration, representation and warranty. It agrees that any contract, right, interest, privilege or other obligation or benefit obtained or procured as aforesaid shall, without prejudice to any other rights and remedies available to PA under any law, contract or other instrument, be voidable at the option of PA.

Notwithstanding any rights and remedies exercised by PA in this regard, [name of Supplier/ Contractor/ Consultant] agrees to indemnify PA for any loss or damage incurred by it on account of its corrupt business practices and further pay compensation to PA in an amount equivalent to ten times the sum of any commission, gratification, bribe, finder's fee or kickback given by [name of Contractor] as aforesaid for the purpose of obtaining or inducing the procurement of any contract, right, interest, privilege or other obligation or benefit in whatsoever form from PA.

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Deputy Director (Procurement)

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(Contractor)