



**I.K. GUJRAL PUNJAB TECHNICAL UNIVERSITY JALANDHAR,  
JALANDHAR-KAPURTHALA HIGHWAY,  
KAPURTHALA, PUNJAB- 144603**

**BID DOCUMENT**

**NATIONAL COMPETITIVE BIDDING**

**FOR**

**SUPPLY, INSTALLATION, COMMISSIONING & MAINTENANCE OF LABORATORY  
EQUIPMENT OF ELECTRICAL ENGINEERING**

**FOR**

**I.K. GUJRAL PUNJAB TECHNICAL UNIVERSITY MAIN CAMPUS,  
KAPURTHALA, PUNJAB**

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## CHAPTER-I

### **I.K. GUJRAL PUNJAB TECHNICAL UNIVERSITY JALANDHAR, JALANDHAR-KAPURTHALA HIGHWAY, KAPURTHALA, PUNJAB**

#### **NOTICE INVITING TENDER**

**(e-Tendering mode)**

I.K. Gujral Punjab Technical University, Kapurthala (Punjab) intends to float open e-tender for the supply of following item(s), as per the details given below:

<b>Name of work</b>	Supply, Installation, Commissioning & Maintenance of Power Systems Lab and Analog Communication Systems Lab for Department of Electrical Engineering, I.K. Gujral Punjab Technical University Main Campus, Kapurthala (Punjab)
<b>The Currency in which payment shall be made</b>	Indian Rupees (INR)
<b>Date of Publishing</b>	25/01/2019 at 11.30.AM
<b>Document Download Start Date</b>	25/01/2019 at 11.30 AM
<b>Pre Bid Meeting Date</b>	05/02/2019 at 10.00 AM Venue: Seminar Room, Department of Electrical Engineering, Second Floor, CB-II, IKGPTU Main Campus, Kapurthala
<b>Start Date for uploading of Bids</b>	12/02/2019 at 11.30 AM
<b>Last Date for uploading of Bids</b>	05/03/2019 at 05.00 PM
<b>Date of Opening of Technical Bids</b>	13/03/2019 at 2.00 PM

Dr Gagandeep Kaur

Dr Satvir Singh

Dr Nitya Sharma

Sh. Dinesh Juneja

Dr Rakesh Goyal

<b>Date of Opening of Financial Bids</b>	To be intimated later to the bidders, who have qualified technical bid.
<b>Processing Fee</b>	Processing fee (as mentioned on the web portal ) shall be paid through online mode only.
<b>Bid document Fee</b>	Rs 1180/- (inclusive of GST) Mode of payment: online ( <a href="https://eproc.punjab.gov.in">https://eproc.punjab.gov.in</a> )
<b>Earnest Money Deposit</b>	As mentioned in Section/ Annexure XIII Mode of payment: online ( <a href="https://eproc.punjab.gov.in">https://eproc.punjab.gov.in</a> )
<b>Bid Validity days</b>	120 days (From the date of opening of tender)
<b>Period of Supply</b>	45 days (From date of issuance of Purchase Order)
<b>On-site Warranty (including annual maintenance)</b>	<b>One year</b> Comprehensive warranty followed by <b>two years</b> comprehensive annual maintenance from the date of successful Commissioning & Handing over of Laboratory
<b>Performance Security</b>	10% of the total work order value of the successful bidder. Performance security is required to be submitted within 15 days from the date of issue of LOA.
<b>Purchaser</b>	I.K. Gujral Punjab Technical University (IKGPTU) Jalandhar-Kapurthala Highway, Kapurthala, Punjab-144603
<b>Place of delivery</b>	Department of Electrical Engineering, I.K. Gujral Punjab Technical University (IKGPTU) Main Campus, Jalandhar-Kapurthala Highway, Kapurthala, Punjab-144603
<b>Email Address</b>	<a href="mailto:registrar@ptu.ac.in">registrar@ptu.ac.in</a> Cc to: gaganpitk@gmail.com

1. For participating in the above e-tendering process, the bidder shall have to get them registered in <https://eproc.punjab.gov.in> and get User ID and Password. Class 3 digital signature is mandatory to participate in the e-tendering process. For any clarification difficulty regarding e-tendering process, please contact **Help Desk Number** 0172-2791326, 0172-2791226 (on Government working days from 09.00 AM to 05.00 PM) or call at 24 x 7 Help Desk Number 0120-4200462, 0120-4001002, 0120-4001005, 0120-6277787. International Bidders are requested to prefix 91 as country code. The blank tender documents can be obtained from Punjab Government e-procurement website: <https://eproc.punjab.gov.in>

2. All bids (both Technical and Financial) should be uploaded in the **E- procurement portal (<https://eproc.punjab.gov.in>)**. No manual bids will be accepted.
3. Bidders are advised to visit the I.K. Gujral Punjab Technical University Web site for getting themselves updated for information on this tender. Corrigendum and addendum (if any) will be uploaded **only on E- procurement portal (<https://eproc.punjab.gov.in>) and/or** IKGPTU website (**[www.ptu.ac.in/Tender.aspx](http://www.ptu.ac.in/Tender.aspx)**). Bidders are advised to visit web page and update themselves. Corrigendum/addendum are the part of tender documents and Bidders are supposed to upload the same, duly signed as per the guidelines given in the tender document.

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Registrar  
IKGPTU, Kapurthala

## CHAPTER-II ONLINE BID SUBMISSION DOCUMENTS

### Online Submissions:

The Online bids (complete in all respect) must be uploaded online as mentioned below: -

Technical Bid			
(Following documents to be provided as single PDF file)			
Sl. No.	Documents	Content	File Types
1.	Technical Bid	Technical Specification Compliance Sheet as per Annexure-I	PDF
2.		Organization Declaration Sheet as per Annexure-II	PDF
3.		List of organizations/clients where the same products have been supplied along with their contact number(s). (Annexure VI and Annexure-VII)	PDF
4.		Supporting documents in support of all claims made at Annexure- V, VI, VII, IX, XII	PDF
Financial Bid			
Sl. No.	TYPES	Content	
1.	Financial Bid	Price bid should be submitted only in standard Bill of Quantity (BOQ) file provided in the e-tender.	xls

**CHAPTER-III**  
**TERM OF REFERENCE & DEFINITIONS**

Supplier	“Supplier” shall mean the person, firm or corporation whom the Purchase/Supply Order is issued for Supply, Commissioning, Installation & Maintenance of Laboratory Equipment for Setting of I.K. Gujral Punjab Technical University Main Campus, Kapurthala (Punjab).
Authorized Signatory	The bidder’s representative (explicitly, implicitly, or through conduct) with the powers to commit the authorizing organization to a binding agreement.  Also called signing officer/ authority having the Power of Attorney from the Competent authority of the respective Bidding firm.
Bid	"Bid" means the response to this document presented in Two Packets, Technical Cum Commercial Bid and Financial Bid, which are supplied with necessary documents and forms as given in Annexure, complete in all respect adhering to the instructions and spirit of this document.
Bidder	“Bidder” means any individual/proprietor/ partnership firm/ agency/ company/ responding to Request for Proposal and who makes a Bid.
Contract	“The Contract” means the agreement entered into between I.K. Gujral Punjab Technical University, Kapurthala (Punjab) and the selected bidder(s) in terms of clauses mentioned
Day	“Day” means a working day as per rules of I.K. Gujral Punjab Technical University, Kapurthala (Punjab).
IKGPTU	I.K. Gujral Punjab Technical University, Kapurthala (Punjab)
EMD	Earnest Money Deposit
D.D	Demand Draft
TC	Tender Committee
PBG	Performance Bank Guarantee
Security Deposit (SD)	Amount of the Order Value deposited by the Bidder and retained till the successful completion of the project (as long as the bidder fulfils the contractual agreement).
Services	“Services” means the services to be delivered by the successful bidder and as required to run the project successfully as per the Contract.
RFP	“ <b>RFP</b> ” means the Request for Proposals
Goods and Materials	“Goods and Materials” shall mean the articles, materials, equipment, IT Equipment, supplier’s/Bidder’s drawings, Data/Software and other property and all services-including design, delivery, installation, inspection and maintenance support specified or required to complete the order and incidental thereto.

Order	“Order” shall mean the Purchase/Supply Order and its attachments and exhibits.
Purchaser	“Purchaser” shall mean I.K. Gujral Punjab Technical University, Kapurthala (Punjab)
Consignee	“Consignee” shall mean I.K. Gujral Punjab Technical University Main Campus, Kapurthala, Department of Electrical Engineering, where the items are to be supplied and commissioned.



## CHAPTER- IV INSTRUCTIONS FOR E-TENDERING

### 1. Instructions for Online Bid Submission:

- a) Bidders are free to bid for any equipment.
- b) Bid for the product to be uploaded in two parts i.e. Technical Bid and Financial Bid.
- c) Technical Bids should not contain any commercial details. Failure would result in rejection of the bid.
- d) Only authorized person should sign the tender/quotation. His name, designation and address should be given in capital letters. University may not consider the tender unless and until all the documents are properly signed by the authorized signatory.
- e) Copy of Power of Attorney for the authorized person shall be uploaded along with the bid.
- f) All the columns of the quotation form shall be duly, properly and exhaustively filled in. Quotations shall be only in figures.
- g) The quotations will be regarded as constituting an offer or offers open to acceptance in whole or in part or parts at the discretion of I.K. Gujral Punjab Technical University, Kapurthala (Punjab).
- h) The scanned copies of all the Annexures and required documents must be uploaded with the bids.

### 2. Minimum Criteria/ Qualifications for Bidding

**Following are the minimum criteria/requirements for the bidders participating in the bidding process** (Documents must be provided in support of the following otherwise University may not consider the tender)

S. No.	PQ criteria	Supporting Documents required
1	The bidder must be a Company/LLP registered with Statutory Authorities for the last five years	<ul style="list-style-type: none"> <li>• Copy of certificate of registration</li> </ul>
2.a	Only Original Equipment Manufacturer (OEM)/ agency of OEM/ authorized dealer having minimum 5 years of experience in execution of Laboratory Equipment/ Instrument supplies should apply against this invitation for bid. In the case of the bidder, offering to supply Equipment/Instrument under the bid, which the bidder does not manufacture or otherwise produce, the bidder has to provide Manufacturer's Authorization Certificate as per format at <b>Annexure XII</b> . Bids submitted without valid authorization certificate will be summarily rejected. Authorization certificate from OEM is essential for all the items of supply under scope of work.	<ul style="list-style-type: none"> <li>• Latest Authorization letter from OEM to the Bidder authorizing him to do business on OEM's Behalf, as associate or authorized business partner, for OEM's Manufactured Items.</li> <li>• In case of OEM participating as a bidder, a power of attorney by the company's Director to the authorized signatory to be submitted along with the technical bid.</li> <li>• Copies of work orders and completion certificates/ satisfactory certificate by various clients in last five years.</li> </ul>

<b>2.b</b>	An undertaking from the OEM is required stating that they would facilitate the bidder on a regular basis with technology/product updates and extend support for spares & maintenance facilities during warranty & AMC. The bid shall not be considered responsive in absence of the certificate from the OEM.	Undertaking by the authorized signatory of OEM in favour of the Bidder agency.
<b>3</b>	The average annual turnover of the bidder quoting for the bid should be <b>Rs. 50,000,00</b> (Rs. Fifty Lacs only) during the last three financial years (2015-2016, 2016-2017 & 2017-2018). In this regard, the bidder should submit copies of audited Balance sheets including profit and loss accounts for the last three financial years as above. The agency should have profit for all 3 years. A registered CA's certificate indicating Laboratory equipment supply turnover amount for the relevant period also is accompanied.	Certificate from the Chartered Accountant and copy of audited balance sheets/P&L Accounts
<b>4</b>	The Bidder must have successfully executed at least one order of supply of Laboratory equipment to Govt./PSU's/Autonomous bodies/ Govt. Institutions such as IIT's/NIT's/IIT's/Central Universities/ State Universities during last three Financial years for which necessary supporting documents have to be enclosed.	Copies of work orders and completion certificates/ satisfactory certificate issued by Govt./PSU's/Autonomous bodies/ Govt. Institutions such as IIT's/NIT's/IIT's/Central Universities/ State Universities in last three financial years.
<b>5</b>	The Bidder should indicate at least Four numbers of technically Qualified professionals having experience for not less than three years for installation & Maintenance support.	List of technical qualified Professionals duly self certified by the bidder along with the professional certificate.

Notwithstanding anything stated above, the Consignee reserves the right to assess bidder's capability and capacity to perform the contract, should circumstances warrant such an assessment in the overall interest of the I.K. Gujral Punjab Technical University, Kapurthala (Punjab).

### 3. Digital Signature Certificates

For integrity of data and authenticity/ non-repudiation of electronic records, and to be compliant with IT Act 2000, it is necessary for each user to have a Digital Signature Certificate (DSC). Also referred to as Digital Signature Certificate (DSC), of Class 2, issued by a Certifying Authority (CA) licensed by Controller of Certifying Authorities (CCA) [refer <http://www.cca.gov.in>].

### 4. Registration

For participating in the above e-tendering process, the bidder shall have to get them registered on **<https://eproc.punjab.gov.in>** and get User ID and Password. Class 2 digital signature is mandatory to participate in the e-tendering process

## **5. Preparation/ Submission of Bids**

- a) Bidder should take into account any corrigendum published on the tender document before submitting their bids.
- b) Please go through the tender advertisement and the tender document carefully to understand the documents required to be submitted as part of the bid. Please note the number of covers in which the bid documents have to be submitted, the number of documents-including the names and content of each of the document that need to be submitted. Any deviations from these may lead to rejection of the bid.
- c) Bidder, in advance, should get ready the bid documents to be submitted as indicated in the tender document/ schedule and generally, they can only be in PDF or xls format as required. Bid documents may be scanned with 100 dpi with black and white option.
- d) Bidder should log in to the site well in advance for bid submission and complete all formalities of registration (at least two days in advance) so that he/she upload the bid in time i.e. on or before the bid submission time.
- e) Bidder will be responsible for any delay due to any reason.

## **6. Instructions for Financial Bid/ BOQ**

- a) Price to be quoted in the Bid of Quantity (BOQ) according to the instructions provided.
- b) The Bidder can quote for all or any of the Laboratory items/equipment listed in this document.
- c) The rate shall be inclusive of all taxes, octroi, transportation (as per the location), packing, loading and unloading (as designated location), Insurance etc. and nothing shall be paid extra except GST as mentioned in BOQ.
- d) The prices quoted by the bidder shall be fixed for the quantity mentioned for the duration of the contract and shall not be subject to adjustment on any account. University reserves the right to increase/decrease the quantity.
- e) The changes displayed in the corrigendum/addendum to the bid documents, particularly with the BOQ should be applicable to the bid submission.

## **7. Evaluation of Bids**

- a) A committee of I.K. Gujral Punjab Technical University, Kapurthala (Punjab) will evaluate the bids of all the bidders, both technically and financially.
- b) Conditional bids shall be summarily rejected.
- c) The Technical bids shall be evaluated as per the following:

- i. Compliance to eligibility criteria: Compliance to the eligibility criteria specified in section “Minimum Eligibility Criteria/ Qualification for bidding” of this tender document. Non-compliance of ANY eligibility criteria would result in disqualification of the bid.
- ii. Compliance to the equipment specifications specified in this tender: The bids found eligible according to the eligibility criteria would then be checked for compliance to the equipment specifications mentioned in tender document. Non-compliance of any required specification would result in disqualification of the bid.
- d) The Financial Bids of only the technically qualified bidders would be opened. The date and time of the opening of the Financial Bids are mentioned in Chapter I and if there is **any change of date and time, the same shall be uploaded on <https://eproc.punjab.gov.in> and/or on the university website [www.ptu.ac.in](http://www.ptu.ac.in)**. No separate advertisement will be given in the newspaper. The bid shall be evaluated on the total value (inclusive of GST and AMC) of package wise. The bidder of the lowest commercial bid would be awarded the contract.

**Note:**

The Bid shall be typed in English and signed by the Bidder or a person duly authorized to bind the Bidder to the Contract. The person(s) signing the Bids shall initial all pages of the Bids.

Where ever any document has been issued in vernacular language, its translated copy in English from the competent authority is also required to be uploaded.

## **CHAPTER-V**

### **INSTRUCTIONS TO BIDDERS**

**1. Due date**

The e-tender bids have to be uploaded by the due date. The offers received after the due date and time will not be considered.

**2. EMD**

Details in Annexure XIII.

**3. Fee**

The tenderer should submit the cost of tender document, processing fee and EMD through online mode of payment (<https://eproc.punjab.gov.in>).

**4. Refund of EMD**

- a) No interest will be paid on EMD amount.
- b) The EMD will be returned to unsuccessful Tenderer only after the Tender is finalized.
- c) Earnest money will be forfeited if the bidder unilaterally withdraws the offer, or unilaterally amends, impairs or rescinds the offer within the period of its validity.
- d) In Case of Successful Bidder, the EMD shall be refunded after submission of 10% Performance Security from a scheduled bank operating in India.

**5. Acceptance/ Rejection of bids**

I.K. Gujral Punjab Technical University, Kapurthala (Punjab) reserves the right to reject any or all offers without assigning any reason.

I.K. Gujral Punjab Technical University, Kapurthala (Punjab) based on the requirement without assigning any reason to the Bidder may split work/Scope/Bid offer in stages or in parts according to the need of work for ease of execution of work.

I.K. Gujral Punjab Technical University Main Campus, Kapurthala (Punjab) reserves right to take decision according to requirement and no claim on whatsoever ground shall be entertained from the bidder.

**6. Performance Security**

The successful bidder should be required to deposit Performance Security equivalent to 10% of cost of equipment/instrument mentioned in the supply order to I.K. Gujral Punjab Technical University, Kapurthala (Punjab) within 15 days from the date of receipt of Purchase/supply Order. The Performance Security should be issued by a nationalized/scheduled bank in favour of "**Registrar, I.K. Gujral Punjab Technical University, Kapurthala (Punjab)**" to be valid for a period of 90 days beyond the date of completion of warranty period.

**7. Risk Purchase Clause**

In event of failure of supply of the item/equipment within the stipulated delivery schedule, the consignee has all the right to purchase the item/equipment from the other source on the total risk of the supplier under risk purchase clause.

**8. Packing Instructions**

Each package will be marked on three sides with proper paint/ indelible ink, the following:

- a) Item Nomenclature
- b) Supply Order/Contract No
- c) Country of Origin of Goods
- d) Supplier's Name and Address
- e) Consignee/Purchaser details
- f) Packing list reference number

All packing should be strong enough to withstand rough handling during loading unloading and transporting. Fragile articles should be packed with special precaution and should bear the marking like Fragile, handle with care, This side up etc. All delicate surfaces of equipment/goods should be carefully protected and painted with protective paint/ compound and wrapped to prevent rusting and damage.

Attachments and spare parts and all small pieces should be packed with adequate protections and wherever possible should be sent along with the major items. Each item should be tagged so as to identify it with the main equipment and part number and reference number should be indicated.

All protection and threaded fittings should be suitably protected and covers should block the openings.

**9. Unloading and Unpacking**

Unless specified otherwise in the purchase order, Unloading and storage of the same at the designated place should be undertaken by the supplier. The Unpacking of the materials should also be arranged by Supplier.

**10. Delivery and Documents**

Delivery of the goods should be made within a **maximum of 45 days** from the date of placement of purchase/supply order. The successful bidder to provide absolute supply schedule within 7 days from the receipt of Purchase Order. Within 24 hours of dispatch, the supplier should notify the consignee and the insurance company by cable/telex/fax/e mail the full details of the shipment including contract number, railway receipt number etc. and date, description of goods, quantity, name of the consignee, invoice etc. Till the consignee/purchaser takes over/ receives the equipment/ items, the supplier should be responsible to keep the same in safe custody and the charges (if any) to be borne by the supplier. The supplier should mail the following documents to the consignee with a copy to the insurance company:

- a) 4 Copies of the Supplier invoice showing contract number, goods 'description, quantity unit price, total amount;
- b) Acknowledgment of receipt of goods from the consignee(s) by the transporter;
- c) Insurance Certificate if applicable;
- d) Manufacturer's/Supplier's warranty certificate;
- e) Inspection Certificate issued by the nominated inspection agency, if any
- f) Supplier's factory inspection report; and
- g) Certificate of Origin (if possible by the beneficiary);
- h) Two copies of the packing list identifying the contents of each package.

The above documents should be received by the Consignee before arrival of the Goods (except where the Goods have been delivered directly to the Consignee with all documents) and, if not received, the Supplier will be responsible for any consequent expenses.

#### **11. Delayed delivery**

If the delivery is not made within the due date for any reason, the Consignee will have the right to impose penalty @ 1% per week and the maximum deduction is 10% of the contract value / price. Once the maximum is reached, I.K. Gujral Punjab Technical University, Kapurthala (Punjab) has the right to terminate the contract/ cancellation of purchase order without any liability to cancellation charges and encash the submitted performance security.

#### **12. Prices**

- a) Prices should be inclusive of charges for delivery of equipment at the sites specified in the scope of work section of this tender document, and are to be quoted in Indian Rupees only.
- b) The prices should be inclusive of current GST, excise duty, freight, insurance, etc. Further if there is any change in the GST by Govt. of India then the same shall be applicable on presentation of the proof. No change due to devaluation of Rupee, shall be entertained.
- c) The prices must be quoted in the standard Performa (BOQ) given in Financial Bid failing which the Bid would be treated as unresponsive.

#### **13. Progress of Supply**

- a) Wherever applicable, supplier should regularly intimate progress of supply, in writing, to the consignee as under:
- b) Quantity offered for inspection and date;
- c) Quantity accepted/rejected by inspecting agency and date;
- d) Quantity dispatched/delivered to consignees and date;

- e) Quantity where incidental services have been satisfactorily completed with date;
- f) Quantity where rectification / repair / replacement effected / completed on receipt of any communication from consignee/Consignee with date;
- g) Date of completion of entire Contract including incidental services, if any; and
- h) Date of receipt of entire payments under the Contract (In case of stage-wise inspection, details required should also be specified).

#### **14. Inspection and Tests**

Inspection and tests prior to shipment of Goods and at final acceptance are as follows:

- a) After the goods are manufactured and assembled, inspection and testing of the goods should be carried out at the supplier's plant by the supplier, prior to shipment to check whether the goods are in conformity with the technical specifications attached to the purchase order. Manufacturer's test certificate with data sheet should be issued to this effect and submitted along with the delivery documents. Officer/faculty from the university may inspect the material and testing if required at vendor's premise. The location where the inspection is required to be conducted should be clearly indicated by the bidder after confirmation of the order.
- b) The acceptance test will be conducted by the Consignee/Purchaser, or other such person nominated by the Consignee/Purchaser at its option after the equipment is installed at Purchaser's site in the presence of supplier's representatives. The acceptance will involve trouble free operation and ascertaining conformity with the ordered specifications and quality. There should not be any additional charges for carrying out acceptance test. No malfunction, partial or complete failure of any part of the equipment is expected to occur. The Supplier should maintain necessary log in respect of the result of the test to establish to the entire satisfaction of the Consignee, the successful completion of the test specified.
- c) In the event of the ordered item failing to pass the acceptance test, a period not exceeding one weeks will be given to rectify the defects and clear the acceptance test, failing which the Consignee reserve the right to get the equipment replaced by the Supplier at no extra cost to the Consignee.
- d) Successful conduct and conclusion of the acceptance test for the installed goods and equipment should also be the responsibility and at the cost of the Supplier.
- e) The time taken for pre-dispatch inspection is inclusive of the scheduled completion time of the delivery & installation of the equipment. Only the equipment certified by the Consignee/Purchaser should be dispatched to the consignee.
- f) The Supplier/manufacturer should display sample Item for verification of the equipment by Consignee/ purchaser before technical committee (if required)/ production of the same in bulk if required.

#### **15. Defective Equipment**

- a. If any of the equipment supplied by the Tenderer is found to be substandard, refurbished, un-merchantable or not in accordance with the description/specification or



otherwise faulty, the committee will have the right to reject the equipment or its part. The prices of such equipment should be refunded by the Tenderer with 18% interest if such payments for such equipment have already been made.

- b. All damaged or unapproved goods should be returned at suppliers cost and risk and the incidental expenses incurred thereon should be recovered from the supplier. Defective part in equipment, if found before installation and/or during warranty period, should be replaced within 45 days on receipt of the intimation from this office at the cost and risk of supplier including all other charges. In case supplier fails to replace above item as per above terms & conditions, I.K. Gujral Punjab Technical University Main Campus, Kapurthala (Punjab) should consider "Banning" the supplier.

#### **16. Right to Use Defective Goods**

- a) If after delivery, acceptance and installation and within the guarantee and warranty period, the operation or use of the goods proves to be unsatisfactory, the Consignee should have the right to continue to operate or use such goods until rectifications of defects, errors or omissions by repair or by partial or complete replacement is made without interfering with the Consignee's operation.
- b) Replacement of Goods broken, damaged or short: In the event of any material or part thereof found broken or damaged or received short during transit or during installation or Commissioning or testing at site, before commissioning in service the suppliers should replace the same free of cost. However, I.K. Gujral Punjab Technical University, Kapurthala will recover amount equivalent to the cost of such damaged / broken / short supplied materials and will repay when actual replacement is given.
- c) Substitution and Wrong Supplies: Unauthorized substitution or materials delivered in error of wrong description or quality or supplied in excess quantity or rejected goods should be returned to the supplier at their own cost and risk.

#### **17. Supplier Integrity**

The Supplier is responsible for and obliged to conduct all contracted activities in accordance with the Contract using state of the art methods and economic principles and exercising all means available to achieve the performance specified in the contract.

#### **18. Installation & Demonstration**

The supplier is required to undertake the installation and demonstration of the equipment within 15 days of the arrival of materials at I.K. Gujral Punjab Technical University (Main Campus) and site of installation, otherwise the penalty clause will be the same as per the supply of materials. The successful agency has to arrange for technician, other manpower, tools etc for installation and commissioning of the goods supplied by the agency.

In case of any mishappening/ damage to equipment and supplies during the carriage of supplies from the origin of equipment to the installation site, the supplier has to replace it with new equipment/supplies immediately at his own risk. Supplier will settle his claim with the

insurance company as per his convenience. I.K. Gujral Punjab Technical University Main Campus will not be liable to any type of losses in any form.

**19. Training of Personnel:**

- a) The Supplier is required to provide training to the designated Consignee's/Purchaser's technical and end user personnel to enable them to effectively operate the total equipment.
- b) The supplier should be required to undertake to provide the technical training to the personnel involved in the use of the equipment at the I.K. Gujral Punjab Technical University Main campus premises, immediately after completing the installation of the equipment for a minimum period of one week at the supplier's cost.

**20. Insurance**

- a) For delivery of goods at the Purchaser/Consignee premises, the insurance should be obtained by the Supplier in an amount equal to 110% of the value of the goods from "warehouse to warehouse" (final destinations) on "All Risks" basis including War Risks and Strikes. The insurance should be valid for a period of not less than 3 months after installation and commissioning. If orders placed on CIF/CIP basis, the insurance should be up to I.K. Gujral Punjab Technical University (Main campus) accordingly.
- b) The Supplier should make all arrangements towards safe and complete delivery at I.K. Gujral Punjab Technical University (main campus), Kapurthala, Punjab. Such responsibility on part of the supplier will include taking care of insurance, freight, octroi, state level permits etc. as applicable.
- c) The supplier should also take care of transit insurance, comprehensive insurance or any other insurance which have direct bearing on the delivery of the items / equipment at I.K. Gujral Punjab Technical University Main Campus, Kapurthala (Punjab).
- d) It is the total responsibility of supplier to complete all formalities to transit of goods from the place of dispatch to I.K. Gujral Punjab Technical University main campus, Kapurthala (Punjab).
- e) The bidder should ensure that no person can engage in the business of a common carrier unless he has granted a certificate of registration to do so for supply of items at PTU, Kapurthala (Punjab).
- f) The transportation of goods through unregistered common carrier is illegal. The bidder should ensure to comply the carriage by latest Road Act and any other relevant.
- g) The supplier will keep I.K. Gujral Punjab Technical University Main Campus, Kapurthala (Punjab) informed about various stages of deliveries & installation.

**21. Incidental services:**

The incidental services also include:

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- a) Furnishing of 01 set of detailed operations & maintenance manual in soft and hard copy.
- b) Arranging the shifting/moving of the item to their location of final installation within I.K. Gujral Punjab Technical University (main campus) premises at the cost of Supplier through their Indian representatives.

**22. Warranty and Maintenance:**

- a) Comprehensive Warranty should be for a minimum period of one (01) year from date of successful installation and acceptance of Goods at the I.K. Gujral Punjab Technical University Main Campus. The Supplier should, in addition, comply with the performance and/or consumption guarantees specified under the contract. If for reasons attributable to the Supplier, these guarantees are not attained in whole or in part, the Supplier should at its discretion make such changes, modifications, and/or additions to the Goods or any part thereof as shall be necessary in order to attain the contractual guarantees specified in the Contract at its own cost and expense and to carry out further performance tests. The warranty should be comprehensive on site/I.K. Gujral Punjab Technical University Main Campus. Supplier should give a written information (about the Engineers/technical representative name and cell numbers) before handing over of the Goods to the Consignee and to the end client's nominated representative/s to attend the issues related to the warranty of the goods supplied under the contract.
- b) The Consignee/Purchaser should promptly notify the Supplier in writing of any claims arising under this warranty. Upon receipt of such notice, the supplier should within one week arrange to repair or replace the defective goods or parts thereof free of cost at the ultimate destination. The Supplier should take over the replaced parts/goods at the time of their replacement. No claim whatsoever should lie on the Consignee for the replaced parts/goods thereafter. The period for correction of defects in the warranty period is one week. If the supplier having been notified fails to remedy the defects within one week, the consignee/purchaser should proceed to take such remedial action as should be necessary, at the supplier's risk and expenses and without prejudice to any other rights, which the consignee should have against the supplier under the contract.
- c) The comprehensive annual maintenance charges (AMC) for a period of two years immediate after completion of one year warranty period should also be mentioned.

**23. Governing Language**

The contract should be written in English language. English language version of the Contract should govern its interpretation. All correspondence and other documents pertaining to the Contract, which are exchanged by the parties, should be written in the same language.

**24. Notices**

- a) Any notice given by one party to the other pursuant to this contract/order should be sent to the other party in writing or FAX or e mail and confirmed in writing to the other party's address.

- b) A notice should be effective when delivered or on the notice's effective date, whichever is later.
- c) For the purpose of all notices, the following should be the address:

Registrar, I.K. Gujral Punjab Technical University, Kapurthala  
Punjab- 144603  
Email: registrar@ptu.ac.in

**25. Taxes**

Suppliers should be entirely responsible for all taxes, duties, license fees, octroi, road permits, etc., incurred until delivery of the contracted Goods to the Consignee.

**26. Duties (Custom & Excise)**

I.K. Gujral Punjab Technical University is exempted from paying Custom/excise Duty (for research and development purpose only) and necessary "Custom/Excise Duty Exemption Certificate" can be issued after providing following information and Custom Duty Exemption Certificate will be issued to the shipment in the name of the Institute, no certificate will be issued to third party:

- a) Shipping details i.e. Master Airway Bill No. and House Airway No. (if exists)
- b) Forwarder details i.e. Name, Contact No., etc.

The following information is required to be provided.

- a) Quotation with details of Basic Price, Rate, Tax & Amount on which Excise Duty is applicable
- b) Supply Order Copy
- c) Proforma-Invoice Copy.
- d) Any other information as required.

**27. Agency Commission (if applicable):**

Agency commission if any will be paid to the Indian agent in Rupees on receipt of the equipment and after satisfactory installation. Agency Commission will not be paid in foreign currency under any circumstances. The details should be explicitly shown in Tender even in case of Nil commission. The tenderer should indicate the percentage of agency commission to be paid to the Indian agent.

**28. Payment:**

- a) Payment of Laboratory equipment (Indigenous Items)
  - i) 80% payment shall be made against delivery of Laboratory equipment in good conditions at consignee/purchaser place and to the entire satisfaction of the consignee.
  - ii) 10% on successful installation and commissioning of equipment.
  - iii) 10% after one month of successful handing over of Laboratory equipment.

b) Payment for Laboratory equipment supplied from abroad (Imported Items)

For imported items Payment will be made through irrevocable Letter of Credit (LC). Letter of Credit (LC) will be established in favour of foreign Supplier/OEM after the submission of performance security. The letter of credit (LC) will be established on the exchange rates as applicable on the date of establishment. For Imports, LC will be opened for 100% Free on Board (FOB)/ Cost, Insurance and Freight (CIF) value. I.K. Gujral Punjab Technical University may ask for an equivalent value bank Guarantee duly acceptable to the Nationalized/Scheduled banks in India. The bidder should account for all such expenditures during offering their price. Nothing extra shall be paid beyond the quoted rates by the Bidder.

c) On shipment

80% of the LC amount should be released on presentation of complete and clear shipping documents.

d) On Installation and commissioning

20% of the LC amount shall be released after the installation and demonstration of the equipment at the I.K. Gujral Punjab Technical University, Kapurthala of installation in faultless working condition for period of 60 days from the date of the satisfactory installation and subject to the production of unconditional performance bank guarantee as specified in tender terms and conditions

e) Payment of AMC

AMC payment shall be made on quarterly basis after end of the quarter (if applicable).

**29. User list**

Brochure detailing technical specifications and performance, list of industrial and educational establishments where the items have been supplied must be provided.

**30. Manuals and Drawings**

- a) Before the goods and equipment are taken over by the Consignee, the Supplier should supply operation and maintenance manuals. These should be in such details as will enable the Consignee to operate, maintain, adjust and repair all parts of the works as stated in the specifications.
- b) The Manuals should be in the ruling language (English) in such form and numbers as stated in the contract.
- c) Unless and otherwise agreed, the goods equipment should not be considered to be completed for the purpose of taking over until such manuals and drawing have been supplied to the Consignee.

**31. Application Specialist**

The Tenderer should mention in the Techno- Commercial bid the availability and names of Application Specialist and Service Engineers in the nearest regional office.

**32. Site Preparation (if required):-**

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- a) The supplier should inform to the Consignee about the site preparation, if any, needed for the installation of equipment, immediately after the receipt of the purchase order. The supplier must provide complete details regarding space and all the other infrastructural requirements needed for the equipment, which the I.K. Gujral Punjab Technical University should arrange before the arrival of the equipment to ensure its timely installation and smooth operation thereafter.
- b) The supplier should visit I.K. Gujral Punjab Technical University and see the site where the equipment is to be installed and should offer his advice and render assistance to the I.K. Gujral Punjab Technical University in the preparation of the site and other pre-installation requirements.
- c) I.K. Gujral Punjab Technical University (Main campus) may provide electricity and water for installation of equipment.

### **33. Spare Parts**

The Supplier should be required to provide any or all of the following materials, notifications, and information pertaining to spare parts manufactured or distributed by the Supplier:

- a) Such spare parts as the Consignee should elect to purchase from the Supplier, providing that this selection should not relieve the Supplier of any warranty obligations under the Contract; and
- b) In the event of termination of production of the spare parts: Advance notification to the Consignee of the pending termination, in sufficient time to permit the Consignee to procure needed requirements; and following such termination, furnishing at no cost to the Consignee, the blueprints, drawings and specifications of the spare parts, if requested.
- c) Supplier should carry sufficient inventories to assure ex-stock supply of consumable spares for the Goods, such as gaskets, plugs, washers, belts etc. Other spare parts and components should be supplied as promptly as possible but in any case within six months of placement of order.

### **34. Product Life**

The supplied model of the equipment offered should strictly confirm to the specifications given in the product literature and these models should be supported for a minimum period of 5 years including warranty period. The Models proposed/ marked for withdrawal from the market and the models under quality testing should not be offered.

In addition to the above, if any additional/ enhanced configuration is suggested in view of technological changes, it may be furnished as optional feature with/without cost duly explaining the additional utility of the offered model in both the technical offer document as well as Commercial Offer document. However, the basic quote should be confined only to the configuration/ model offered for.

### **35. Termination for Default**

The Consignee should, without prejudice to any other remedy for breach of contract, by written notice of default sent to the Supplier, terminate the Contract in whole or part:

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- a) If the Supplier fails to deliver any or all of the Goods within the period(s) specified in the order, or within any extension thereof granted by the Consignee; or
- b) If the Supplier fails to perform any other obligation(s) under the Contract.
- c) If the Supplier, in the judgment of the Consignee has engaged in corrupt or fraudulent practices etc. in competing for or in executing the Contract.
- d) For the purpose of this Clause:
  - **“Corrupt practice”** means the offering, giving, receiving or soliciting of anything of value to influence the action of a public official in the procurement process or in contract execution.
  - **“Fraudulent practice”** means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the Borrower, and includes collusive practice among Bidders (prior to or after bid submission) designed to establish bid prices at artificial non-competitive levels and to deprive the Borrower of the benefits of free and open competition;”
  - In the event the Consignee terminates the Contract in whole or in part, the Consignee should procure, upon such terms and in such manner, as it deems appropriate, Goods or Services similar to those undelivered, and the Supplier should be liable to the Consignee for any excess costs for such similar Goods or Services. However, the Supplier should continue the performance of the Contract to the extent not terminated.

### 36. **Disputes and Jurisdiction:**

**Resolution of Disputes:** The dispute resolution mechanism to be applied pursuant should be as follows:

- a) In case of Dispute or difference arising between the Consignee/purchaser and a bidder/supplier relating to any matter arising out of or connected with this agreement, such disputes or difference should be settled in accordance with the Indian Arbitration & Conciliation Act, 1996, the rules there under and any statutory modifications or re-enactments thereof should apply to the arbitration proceedings.
- b) The dispute should be referred to the Competent Authority, I.K. Gujral Punjab Technical University Main Campus, Kapurthala (Punjab) and if he/she is unable or unwilling to act, to the sole arbitration of some other person appointed by him willing to act as such Arbitrator. The award of the arbitrator so appointed should be final, conclusive and binding on all parties to this order.
- c) In the case of a dispute between the consignee and a Foreign Supplier, the dispute should be settled by arbitration in accordance with provision of sub- clause (i) & (ii) above. But if this is not acceptable to the supplier then the dispute should be settled in accordance with provisions of UNCITRAL (United Nations Commission on International Trade Law)

Arbitration Rules.

- d) The venue of the arbitration should be the place from where the order is issued.

**37. Applicable Law**

The Contract should be interpreted in accordance with the laws of the Union of India. Any legal dispute arising out of any breach of contract pertaining to this tender should be settled in the court of competent jurisdiction located at Kapurthala.

**38. Technical Compliance certificate:**

This certificate must be provided indicating conformity to the technical specifications. (Annexure I)

**39. Award of Contract:**

- a) I.K. Gujral Punjab Technical University, Kapurthala, Punjab reserves the right to accept or reject any proposal and to annul the bidding process and reject all proposals at any time prior to award of contract, without thereby incurring any liability to the Bidders. In case of annulment, all proposals submitted and specifically, proposal securities shall be promptly returned to the Bidder.
- b) I.K. Gujral Punjab Technical University, Kapurthala, Punjab has the right to review at any time prior to award of contract that the qualification criteria, as specified in tender document are still being met by the Bidder whose offer has been determined as first rank. A proposal shall be rejected if the qualification criteria, as specified in tender document are no longer met by the Bidder whose offer has been determined as first rank.

**40. Negotiations:**

Normally Negotiations are not allowed. However, if required, negotiations will be held at IKGPTU, Kapurthala. Representatives conducting negotiations on behalf of the Bidder must have written authority to negotiate technical, financial and other terms and conclude a legally binding agreement.

**41. Rates in Figures**

- a) Rates Quoted by the Bidder in tender in figures shall be accurately filled.
- b) In the case of any tender where unit rate of any item/items appear unrealistic, such tender will be considered as unbalanced and in case the tender is unable to provide satisfactory explanation such a tender is liable to be disqualified and rejected.

**42. Acknowledgement:**

It is hereby acknowledged that we have gone through all the conditions mentioned above and we agree to abide by them.



## CHAPTER VI

**TECHNICAL SPECIFICATION/COMPLIANCE SHEET****Package I: Power System Lab**

<b>Sr. No.</b>	<b>Name of Equipment</b>	<b>Technical Specification (required)</b>	<b>Qty</b>	<b>Specifications (offered)</b>	<b>Whether comply (Yes/No)</b>
1	<b>Measurement of positive, negative and zero sequence reactance of Synchronous machine</b>	<p>Mains Supply : Three Phase, 415V<math>\pm</math>10 %, 50Hz</p> <p>Machines Specification (2 nos.): Both the Machines are flexibly coupled and mounted on "C" channel base, DC Machine: Type : Shunt, Rating : 2HP, Voltage Rating : 220V <math>\pm</math>10 %, Speed : 1500 RPM <math>\pm</math>5 %, Insulation : Class "B"</p> <p>Electrical Loading Arrangement, Flexible Shaft Coupling Arrangement, Provided with Digital Tachometer, Machine with Class "B" Insulation, Heavy Duty Base/Channel, Equipped with supply indication lamps, Terminals provided to use the optional externally, Equipped with supply indication lamps, Designed by considering all the safety standards, Diagrammatic representation for the ease of connections, Exclusive and Compact Design</p> <p>Three Phase Synchronous Machine: Type : Star Connected, Voltage Rating : 415V, Rating : 3HP, Speed : 1500 RPM, Excitation Voltage : 120V <math>\pm</math>10 %, Insulation : Class "B", Digital Meters used, DC Voltmeter : 300V, DC Ammeter : 10A, AC Voltmeter : 450V (2 nos), AC Ammeter : 5A &amp; 10A (1 each), MCB (TPN) : 10A</p>	<b>02</b>		
2	<b>Transmission Line Training</b>	Mains Supply : 230V $\pm$ 10%, 50Hz	<b>02</b>		

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	<b>System</b>	<p>Single Phase Variac, Input : 230V, Output : 0-270V, Current : 0-2A</p> <p>Display Measurement, Voltage : <math>\geq 25V</math>, Current : <math>\geq 0.2A</math>, Active Power : <math>\geq 20W \leq 2000W</math>, Reactive Power : <math>\geq 20VAR \leq 2000VAR</math>, Apparent Power : <math>\geq 20VA \leq 2000VA</math>,  Loads: Resistor: 7000/ 100W, Inductor : 800mH/ 0. 5A, Capacitor : 12.5<math>\mu</math>F/ 450V</p> <p>240 x 128 Graphical LCD Display, RISC Microcontroller based design for measurement, Simultaneous display of sending and receiving parameters, Highly sensitive to change in reading for better controlling, High Resolution ADC for accurate measurement, Inbuilt Single Phase Variac to regulate supply, Equipped with fixed R, L and C Load, Facility to configure Short, Medium and Long Transmission Line using multiple value of R, L and C, Designed by considering all the safety standards  Diagrammatic representation for the ease of connections</p>			
<b>3</b>	<b>Symmetrical and Unsymmetrical Fault Analysis Set</b>	<p>Input Supply : 0- 415V AC <math>\pm 10\%</math>, 50Hz, Auxiliary Supply : 0-230V AC <math>\pm 10\%</math>,</p> <p>Three Phase Transformer Rating : 1kVA, Primary Voltage : 415V AC (Line Voltage), Secondary Voltage : 240V AC (Line Voltage), Potential Transformer, Primary Voltage : 240V AC, Secondary Voltage : 18V AC, Current : 500mA, Current Transformer: Ratio : 1:1 and 1:2500, Current : 5A and 20A, Operating Voltage : 30V, Fault Current : 5A, Meters Used: Voltmeter : 500V AC, Ammeter : 5A AC, MCB : 10A</p>	<b>01</b>		

		<p>Dimension (mm) : W 800 x D 350 x H 600</p> <p>Fast response time, High quality meters, Test terminals provided to analyze the waveforms Line Voltage and Phase Voltage selection facility, Designed by considering all the safety precautions, Diagrammatic representation for the ease of connections</p>			
4	<b>Scott Connection using Three Phase Transformers</b>	<p>Mains Supply : Three Phase, 415V AC <math>\pm 10\%</math>, 50Hz,</p> <p>Main Transformer (Center tapped), Primary Winding : 200-0-200V <math>\pm 10\%</math>, 50Hz, Secondary Winding : 0-230V <math>\pm 10\%</math>, 50Hz,</p> <p>Teaser Transformer, Primary Winding : 0-115.6V (28.9%) <math>\pm 10\%</math>, 50Hz , 346.4V (86.6%) <math>\pm 10\%</math>, 50Hz, 400V <math>\pm 10\%</math>, 50Hz, Secondary Winding : 0-230V <math>\pm 10\%</math>, 50Hz,</p> <p>Step down Transformers (2 Nos.), Primary Winding: 0-230V <math>\pm 10\%</math>, 50Hz, Secondary Winding: 0-18V <math>\pm 10\%</math>, 50Hz.</p> <p>Digital Meters Used: AC Voltmeter: 450V (2 nos.), AC Ammeter: 5A (2 nos.)</p> <p>Main and Teaser Transformer are shown separately, Two Phase Step down Outputs for Waveform Observation, Control board consist of high grade FRP material to provide utmost safety to the users, Equipped with supply indication lamps, Provided with bulb holder to use load externally, Designed by considering all the safety standards, Diagrammatic representation for the ease of</p>	01		

		connections, Exclusive and Attractive Design			
5	<b>MCB and HRC Fuse Testing System</b>	<p>Mains Supply : 0-220V AC <math>\pm</math>10%, 50Hz,</p> <p>Single Phase Variac, Input : 230V, Output : 0-270V, Current : 10A</p> <p>Single Phase Transformer: Rating : 1kVA, Input : 230V, Output : 230V</p> <p>Experimental Setup: MCB's: B type, 6A, C type, 2A, HRC Fuse: 6A, Temperature Sensor (2 Nos.)</p> <p>Type : Mounting type, Display Resolution : 0.1°C</p> <p>Mounting : With Brass holder mounted on MCB's, Protective Devices : 10A (SPN), Rheostat : 100 / 5A</p> <p>Alphanumeric 16X2 Big Font LCD for better visibility</p> <p>Isolated Power Supply using Transformer, Inbuilt variable current injection facility, Transparent MCB's to understand internal architecture and its working, Inbuilt Timer, Current &amp; Temperature on LCD, MCBs are mounted with temperature sensor for current temperature analysis, Equipped with supply indication lamp, Designed by considering all the safety standards, Diagrammatic representation for the ease of connections</p>	01		
6	<b>Earth Fault Relay Testing System</b>	<p>Mains Supply : 230V<math>\pm</math>10%V AC, 50Hz</p> <p>Variac: Input : 230V, Output : 0-270V, Current : 0-2A</p> <p>Isolation Transformer: Rating : 1kVA, Primary Voltage : 0-230V, Secondary Voltage : 0-230V</p>	02		

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		<p>Earth Fault Relay: Type : Electro-mechanical Inverse Time, Normal Voltage : 110V AC, 50Hz</p> <p>Plug Setting : 0.5A, 0.75A, 1.0A, 1.25A, 1.50A, 1.75A and 2A, Rheostat : 1100, 5A</p> <p>Display Measurement Unit: Design Technology : AVR RISC Microcontroller, Voltmeter : 25 - 300V, Measurement Method : Direct ADC interface, Display Resolution : 1V, Ammeter : 0.2 - 5A</p> <p>Measurement Method : CT based ADC interface, Display Resolution : 0.01A, Timer Range : 10mSec - 30min, Operation : Automatic with relay start operating</p> <p>LCD Specification: No. of lines : 2, No. of Characters in each line : 16</p> <p>MCB : 6A (SPN)</p> <p>Inbuilt variable source, Big font LCD display for better visibility, Isolation transformer is provided for safe operation, Exclusive and rugged designed panel, Designed by considering all the safety precautions, Diagrammatic representation for the ease of connections</p>			
<b>7</b>	<b>Characteristics of Distance Relay Trainer</b>	<p>Mains supply: 415V <math>\pm</math>10%, 50 Hz, Auxiliary Supply: 230V <math>\pm</math> 10%, 50 Hz</p> <p>Relay Type Numeric, Current range 5 A. AC Ammeter range 10 A ( 03 in number), AC Voltmeter range 500V (03 in number) Forward/ reverse switch (01 in number), timer (01 in number)</p> <p>Three phase variac (external): Input : 415V <math>\pm</math>10%, 50 Hz, Output: 0-270 V <math>\pm</math>10%,</p>	<b>01</b>		

		50 Hz, Current 0-10 A.			
		Three phase resistive load for 5 A per phase, Single phase MCB of 6 A (SPN), Three phase MCB of 10A (TPN)			

## Package II: Analog Communication Systems Lab

S. No.	Items with brief Specifications and Experiments	Qty	Specifications (offered)	Whether comply (Yes/No)
1.	<p>AM Modulator &amp; Demodulator Kit</p> <p>1 Generation of DSB &amp; DSB-SC AM signal using balanced modulator &amp; determine modulation Index &amp; detection of DSB using Diode detector.</p> <p>2 Generation of SSB AM signal &amp; detection of SSB signal using product detector.</p> <p>5 To Study Super heterodyne AM receiver and measurement of receiver parameters viz. sensitivity, selectivity &amp; fidelity.</p> <p>Specifications:</p> <p>All Input-output and Test Points should be provided</p> <p>Built in DC Power Supply</p> <p>On-board audio, modulator, carrier frequency generation, antenna &amp; speaker</p> <p>Audio Oscillator : With adjustable Amplitude &amp; Frequency (300 Hz - 3.4 KHz)</p> <p>Audio Output : Amplifier with speaker</p> <p>Modulators : Balanced Modulator with Band pass Filter (1 MHz) - 2 Nos.</p> <p>Balanced Modulator (455 KHz) - 1 No.</p> <p>Carrier Frequency : 1 MHz</p> <p>Power Supply : 230 V <math>\pm 10\%</math>, 50/60 Hz</p> <p>Microphone : 1 no.</p> <p>On board RF Amplifier, Mixer, IF amplifier, Diode detector, Product detector, Audio amplifier.</p> <p>Construction : Superheterodyne</p> <p>Frequency Range : 980 KHz to 2060 KHz</p> <p>Intermediate Frequency : 455 KHz</p> <p>Tuning : With Variable Capacitor</p> <p>Receiving media : Telescopic Antenna / Cable</p> <p>Detectors: 1) Diode Detector (For DSB)</p> <p>2) Product Detector (SSB)</p> <p>Automatic Gain control : Switchable</p> <p>Complete set up with all necessary accessories and manuals</p>	1		
2.	<p>FM Modulator &amp; Demodulator</p> <p>3 To generate a FM Signal using Varactor &amp; reactance modulation.</p> <p>4 Detection of FM Signal using PLL &amp; foster seelay &amp; resonant detector.</p>	1		

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	<p>Specifications:</p> <p>All Input-output and Test Points should be provided</p> <p>Built in DC Power Supply</p> <p>On board audio, modulators, detectors, amplitude limiter &amp; filter circuits</p> <p>Audio Oscillator : With adjustable Amplitude &amp; Frequency (300 Hz - 3.4 KHz)</p> <p>Audio Oscillator : With adjustable Amplitude &amp; Frequency (300 Hz - 3.4 KHz)</p> <p>FM Modulator : 2 nos.</p> <p>1) Reactance Modulator (with carrier Frequency adjustment)</p> <p>2) Varactor Modulator (with carrier Frequency adjustment)</p> <p>Mixer / Amplifier : 1 no. (With Gain adjustment)</p> <p>FM Demodulator : 5 nos.</p> <p>1) Detuned Resonant Detector 2) Quadrature Detector</p> <p>3) Foster -Seeley Detector 4) Ratio - Detector</p> <p>5) Phase Locked Loop Detector</p> <p>Low Pass Filter</p> <p>Power Supply : 230 V <math>\pm</math>10%, 50 / 60 Hz</p> <p>Complete set up with all necessary accessories and manuals</p>			
3.	<p>PAM-PPM-PWM Modulator &amp; Demodulator</p> <p>6 To study the circuit of PWM &amp; PPM modulator &amp; Demodulator.</p> <p>Specifications:</p> <p>PAM-PPM-PWM Modulation &amp; Demodulation techniques, using Natural &amp; Flat-top sampling</p> <p>Analog Sample, Sample &amp; Hold and Flat-top outputs</p> <p>Selectable 4 different sampling pulse frequencies on board</p> <p>Voice communication using dynamic microphone &amp; Speaker</p> <p>On-board filter and AC amplifier</p> <p>On-board Sampling Frequencies (Pulse): 8 KHz, 16 KHz, 32 KHz, 64 KHz</p> <p>On-board Generator :</p> <p>Sinewave : 1 KHz &amp; 2 KHz (Gain adjustable)</p> <p>Squarewave : 1 KHz &amp; 2 KHz</p> <p>Voice communication : Voice link using dynamic mic &amp; speaker</p> <p>AC Amplifier : With adjustable Gain Control</p> <p>DC Output : 0-4 V (variable)</p> <p>Mains Supply : 110V - 260V AC, 50/60Hz</p> <p>Complete set up with all necessary accessories and manuals</p>	1		
4.	<p>FDM Kit</p> <p>7 Study of Frequency Division Multiplexing / Demultiplexing with sinusoidal &amp; audio inputs Using DSBSC.</p> <p>Specifications:</p> <p>Two variable modulating (sinusoidal) input channels with provision of voice inputs</p> <p>Two DSBSC modulators for frequency band translation of two test signals</p> <p>Two Carrier Generators</p>	1		

	<p>Two sets of audio input amplifier  One adder/transmission amplifier  Two Demodulators  Two low pass filters for smooth output  2 Sets of audio O/P amplifier</p> <p>Crystal Frequency : 4.096 MHz  Carrier Generator : Sine wave 100 KHz &amp; 200 KHz  Modulating Input Frequency : Sine wave 200 Hz - 10 KHz (variable)  Audio Input Amplifier : Gain of 100 (approx.)  Modulator / Demodulator : DSBSC Modulator/Demodulator  Low Pass Filters : Second Order Butterworth filters with a cut off frequency of 10 KHz  Audio Output Amplifier : Output Amplifier with a gain of 20  Power Supply : 220V/110V, 50 Hz / 60 Hz  Complete set up with all necessary accessories and manuals</p>			
5.	<p>TDM Kit  8 Generation &amp; study of Analog TDM at least 4 channels.  Specifications:  On-board four DDS Signal Generator for standard and Arbitrary signals  Selectable Sampling frequencies  LED indicators  Modulation &amp; Demodulation Techniques : Two channel TDM-PCM  Four channel TDM-PCM  Internal Signal Generator  Types of Signal : Sine, Triangle, Arbitrary signal  Frequency : 500Hz, 1KHz, 1.5KHz, 2KHz, 3KHz  signal frequency selection  Sampling selection  Technique selection  Crystal Frequency : 8MHz  Sampling Frequencies : 8KHz, 16KHz, 32KHz  Power Supply : 110V - 260V AC, 50/60Hz  Complete set up with all necessary accessories and manuals</p>	1		
6.	<p>Sampling Kit  9 Sampling Theorem &amp; Reconstruction of Signal from its samples using Natural Sampling, Flat Top Sampling &amp; Sample &amp; Hold Circuits &amp; effect of duty cycle.  Specifications:  Crystal controlled pulse generator  Demonstrates sampling and reconstruction as per Nyquist criterion  On-board synchronized analog signal generator  Six switch selectable sampling frequencies  Sampling pulse duty-cycle selectable  Internal/ External sampling signal selectable  Separate sample and sample/hold outputs available  Crystal Frequency : 8 MHz</p>	1		



	<p>Sampling Frequency : 20, 50, 80,100, 200 &amp;400 KHz (switch selectable)</p> <p>On-board Generator : Synchronized 1 KHz sine wave (5 V ) pp</p> <p>Duty cycle : 0 - 90% in Decade steps (Switch Selectable)</p> <p>Cut-off frequency : 3.4 KHz each</p> <p>Power Supply : 12VDC</p> <p>Complete set up with all necessary accessories and manuals</p>			
7.	<p>Antenna Kit</p> <p>10 To draw &amp; study Polar plots &amp; polarization of Helical, Ground plane, Yagiuda &amp; dipole Antenna &amp; calculate Antenna gain, Antenna beam width, Element current &amp; Front-back ratio of antenna.</p> <p>11</p> <p>To study Antenna matching using stubline.</p> <p>Hands on set-up for measuring and plotting radiation Patterns of 20+ different Antennas</p> <p>On board RF &amp; Tone Generators</p> <p>Antenna Matching Stub</p> <p>Characteristics and SWR Measurement</p> <p>Transmitting and Receiving levels observed On Built- in Meters</p> <p>Fully Documented Operating Manual and Polar Charts</p> <p>“Antenna kit” for fabricating Special Antenna</p> <p>Waveforms : Sine</p> <p>RF Generator : 750 MHz approximately (output adjustable)</p> <p>Tone Generator : 1 KHz approximately (output adjustable)</p> <p>Directional Coupler : Forward &amp; Reverse (selectable)</p> <p>Matching Stub : Slider type</p> <p>Antenna Rotation : 0-360 deg. Resolution 1 deg.</p> <p>Receiving Antenna : Folded dipole with reflector</p> <p>Detector Display : Level adjustable meter</p> <p>Power Supply : 230 V, <math>\pm 10\%</math> 50/60 Hz</p> <p>Complete set up with all necessary accessories and manuals</p>	1		
8.	<p>Transmission Line Kit</p> <p>12 To study a transmission line attenuation &amp; frequency characteristics.</p> <p>Specifications:</p> <p>On board line, terminating resistances and test generators</p> <p>Built in Power Supply</p> <p>Transmission Line : Coaxial cable 100m (25 m x 4)</p> <p>Impedance matching : 0 - 100 Ohms. 2 nos. resistances</p> <p>Test Generators :</p> <p>Sine Wave 40 KHz - 400 KHz (Low Range)</p> <p>Square Wave 400 KHz - 4MHz (High Range)</p> <p>Power Supply : 230 V <math>\pm 10\%</math>, 50/60 Hz</p> <p>Complete set up with all necessary accessories and manuals</p>	1		

I have also enclosed all relevant documents in support of my claims, (as above) in the following pages.

Dr Gagandeep Kaur

Dr Satvir Singh

Dr Nitya Sharma

Sh. Dinesh Juneja

Dr Rakesh Goyal

**Signature of Bidder Name:** \_\_\_\_\_

**Designation:** \_\_\_\_\_

**Organization Name:** \_\_\_\_\_

\_\_\_\_\_  
**Contact No.:** \_\_\_\_\_

Dr Gagandeep Kaur

Dr Satvir Singh

Dr Nitya Sharma

Sh. Dinesh Juneja

Dr Rakesh Goyal

## ANNEXURE-II

### << Organization Letter Head >>

#### DECLARATION SHEET

We, \_\_\_\_\_ hereby certify that all the information and data furnished by our organization with regard to this tender specification are true and complete to the best of our knowledge. We have gone through the specification, conditions and stipulations in details and agree to comply with the requirements and intent of specification.

This is certified that our organization has been authorized (Copy attached) by the OEM to participate in Tender. We further certify that our organization meets all the conditions of eligibility criteria laid down in this tender document. Moreover, OEM has agreed to support on regular basis with technology / product updates and extend support for the warranty.

The prices quoted in the financial bids are subsidized due to academic discount given to I.K. Gujral Punjab Technical University, Kapurthala, Punjab.

We, further specifically certify that our organization has not been Black Listed/ De Listed or put to any Holiday by any Institutional Agency/ Govt. Department/ Public Sector Undertaking in the last three years.	NAME & ADDRESS OF THE Vendor/ Manufacturer/ Agent
1 Phone	
2 Fax	
3 E-mail	
4 Contact Person Name	
5 Mobile Number	
6 GST Number	
7 PAN Number	
8 (In case of on-line payment of Tender Fees) UTR No. (For Tender Fee)	
9 (In case of on-line payment of EMD) UTR No. (For EMD)	
10 Kindly provide bank details of the bidder in the following format: a) Name of the Bank	
b) Account Number	

Dr Gagandeep Kaur

Dr Satvir Singh

Dr Nitya Sharma

Sh. Dinesh Juneja

Dr Rakesh Goyal

c) Kindly attach scanned copy of one Cheque book page to enable us to return the EMD to unsuccessful bidder	
---	--

**(Signature of the Tenderer) Name: \_**

**Seal of the Company**

## ANNEXURE III

### **LETTER OF UNDERTAKING** **(ON THE LETTER HEAD OF THE BIDDER)**

To

The Registrar

I.K. Gujral Punjab Technical University,  
Kapurthala

Punjab- 144603  
India

Sir,

**SUBJECT-** Supply, Installation, Commissioning & Maintenance of .....  
Laboratory Equipment of Electrical Engineering at I.K. Gujral Punjab Technical  
University Main Campus, Kapurthala (Punjab)

This bears reference to I.K. Gujral Punjab Technical University, Kapurthala (Punjab) Bid No.  
..... Dated DD.MM.YYYY. We, hereby, accept all the terms and conditions for  
submitting bid as mentioned in this Bid Document.

We hereby certify that no terms and conditions have been stipulated by us in the Financial  
Bid.

We warrant that the services do not violate or infringe upon any patent, copyright, trade secret  
or other property right of any other person or other entity. We agree that we shall not prevent I.K.  
Gujral Punjab Technical University, Kapurthala (Punjab) from any claim or demand, action or  
proceeding, directly or indirectly resulting from or arising out of any breach or alleged breach  
of any of the terms & conditions of bid document and contract.

The above document is executed on     /     /2018 at (place)\_\_\_\_\_and     we  
accept that if anything out of the information provided by us is found wrong/false/incorrect, our  
bid/ work order shall be liable for rejection.

Thanking you,

Yours faithfully,

Name of the Bidder\_\_\_\_\_

Authorized Signatory\_\_\_\_\_

Seal of the Organization\_\_\_\_\_

Date: Place:

## ANNEXURE IV

### UNDERTAKING

This is to confirm that we M/s\_\_\_\_\_ (give full address) have not been declared neither **failed to perform on any Agreement, nor have been expelled from any project or Agreement nor any Agreement terminated** for breach by the us (Agency) in any of the government department and public sector undertaking /enterprise or by any other Client in India, in last five year before release of advertisement.

If the above information found false at any stage after the placement of Work Order / Agreement, I.K. Gujral Punjab Technical University, Kapurthala (Punjab) will have full right to cancel the Contact and forfeit the Performance Guarantee. All the direct and indirect cost related to the cancellation of the order will be borne by us besides any legal action by I.K. Gujral Punjab Technical University, Kapurthala (Punjab) which shall be deemed fit at that point of time.

Authorized Signatory

**Note:** The undertaking regarding the non-blacklisting of firm is to be submitted on a non-judicial stamp paper of Rs. 100/- (Rupees Hundred only).

## ANNEXURE V

### Annual Average Turn Over:-

Sl. No.	Financial Year	Annual Turn over
1.	2015-16	
2.	2016-17	
3.	2017-18	

Note: Certificate from Statutory Auditor/ Chartered Accountant certifying balance sheet only for all three years to be attached.

**Signature with Seal of the Chartered Accountant**

**Signature with Seal of the Bidder**

**ANNEXURE-VI****Details of Projects Completed During Last 05 Financial Years****Bid No.:****Date of Opening: Time:****Name of the Firm:**

<b>S. No.</b>	<b>Name of the Projects</b>	<b>Order No. &amp; Date</b>	<b>Description &amp; Quantity of ordered Equipment</b>	<b>Value of Order</b>	<b>Date of Start</b>	<b>Scheduled Date of Completion</b>	<b>Actual Date of Completion</b>	<b>Reason for Delay, if any</b>
<b>1.</b>								
<b>2.</b>								
<b>3.</b>								
<b>4.</b>								
<b>5.</b>								
<b>6.</b>								
<b>7.</b>								

**Signature with Seal**



## ANNEXURE-VII

### **List of Order executed for Govt. Organization/ Department/ University During Last Three Financial Years**

<b>List of Govt./PSU's/Autonomous bodies/ Govt. Institutions such as IIT's/NIT's/IIT's/Central Universities/ State Universities for whom the Bidder</b>			
<b>Name of the organization</b>	<b>Year of Procurement</b>	<b>Total Value</b>	<b>Name of Contact Person and other details</b>

### **Technical Competency Details**

<b>Name of application specialist / Service Engineer who have the technical competency to handle and support the quoted product during the warranty period.</b>		
<b>Name of the organization</b>	<b>Name of Contact Person</b>	<b>Contact No.</b>

### **Details of Service Supports/Closest Service Station**

<b>Sr. No.</b>	<b>Full Address of Service Supports/Closest Service Station along with contact Nos.</b>	<b>Type of Service Supports/Closest Service Station</b>

**Signature of Bidder**

Name: \_\_\_\_\_

Designation: \_\_\_\_\_

Organization Name: \_\_\_\_\_

Contact No. : \_\_\_\_\_

**POWER OF ATTORNEY**

Know all men by these presents, we..... (name of firm and address of the registered office ) do hereby constitute, nominate appoint and authorize Mr./Ms.....son/daughter/wife of and presently residing at....., who is presently employed with /retained by us and holding position of.....as our true and lawful attorney

(hereinafter referred to as the “Authorized Representative”) to do in our name and on our behalf, all such acts, deeds and things are as necessary or required in connection with or incidental to submission of our proposal for and selection as the

<project title> for the <name of the client>.....project, proposed to be developed by the

..... (the “client”) including but not limited to signing and submission of all applications, proposals and other documents and writings, participating in pre bid and other conferences and providing information /responses to the client, representing us in all matters before the Client, signing and execution of all contracts and undertakings consequent to acceptance of our proposal and generally dealing with the client in all matter in connection with or relating to or arising out of our Proposal for the said project /or upon award thereof to us till the entering into of the Agreement with the client.

AND, we do hereby agree to ratify and confirm all acts, deeds and things lawful done or caused to be done by our said Authorized Representative pursuant to and in exercise of the powers conferred by this power and Attorney and that all acts, and things done by our said Authorized Representative in exercise of the powers hereby conferred shall and shall always be deemed to have been done by us.

[IN WITNESS WHEREOF WE.....THE ABOVE NAMED PRINCIPAL HAVE EXECUTED THIS POWER OF ATTORNEY ON THIS ..... DAY OF ..... 2018.

For ..... (Name and registered address of client)

(Signature, name, designation, and address)

Witness:

1. (Signature, name and address)
2. (Signature, name and address)

Notarized

Accepted

..... (Signature,

name, designation, and address of the attorney) Notes:

1. The mode of the execution of the power of Attorney shall be in accordance with the procedure, if any, laid down by the applicable law and the charter documents of the executants (s) and when it is so required the same should be under seal affixed in accordance with the required procedure.
2. Wherever required, the applicant should submitted for verification the extract of the charter documents and other documents such as a resolution/Power of Attorney in favor of the person executing this Power of Attorney for delegation of power hereunder on behalf of the applicant.
3. For a Power of Attorney executed and issued overseas, the document will also have to be legalized by the Indian Embassy and notarized in the jurisdiction where the Power and Attorney is being issued. However, the Power of Attorney provided by the applicants from countries that have signed The Hague Legislation Convention, 1961 are not required to be legalized by the Indian Embassy it is carries a conforming Apostle certificate.

## LETTER OF BID SUBMISSION

**Registrar**  
**I.K. Gujral Punjab Technical University, Kapurthala**  
**Punjab,**  
**India- 144603**

**SUBJECT- Supply, Installation, Commissioning & Maintenance of Applied Thermodynamics Laboratory Equipment of Electrical Engineering at I.K. Gujral Punjab Technical University Main Campus, Kapurthala (Punjab)**

**-Submission of Bid -**

Sir,

Having examined the details given in Press Notice, Notice Inviting Bid & Bid Document for the above work, I/we hereby submit the relevant information.

1. I/We hereby certify that all the statements made and information supplied in the enclosed form\_\_\_\_\_and accompanying statements are true and correct to the best of my/our knowledge and belief and nothing has been concealed.
2. I/we certify that we have not changed/alterd any word/sentence or any figure in number/s or words appearing the original tender document uploaded by I.K. Gujral Punjab Technical University, Kapurthala (Punjab) on the designated web page for e-tendering. In case, if a fraudulent activity is found at any stage between tender submission to final closure of the tender/contract, my/our candidature/bid/contract shall be immediately cancelled and EMD/Performance security/ security deposit along with the due amount towards the work executed or advance shall be forfeited. I.K. Gujral Punjab Technical University, Kapurthala (Punjab) may not entertain any claim or entertain any reason for this act. I.K. Gujral Punjab Technical University, Kapurthala (Punjab) may go for the legal action against the bidder for recovering any one or all damages caused to I.K. Gujral Punjab Technical University, Kapurthala (Punjab).
3. I/We have furnished all information and details necessary for eligibility and have no further pertinent information to supply.
4. I/We submit the requisite **certified solvency certificate** and authorize the I.K. Gujral Punjab Technical University, Kapurthala (Punjab) to approach the Bank issuing the solvency certificate to confirm the correctness thereof. I/We also authorize I.K. Gujral Punjab Technical University, Kapurthala (Punjab) to approach individuals, employers, firms and corporation to verify our competency and general reputation.
5. I/We submit the following **certificates** in support of our suitability, technical knowledge and capability for having successfully completed the following works :

S.No.	Name of Work	Certificate From

6. Earnest Money Deposit amounting to Rs. ----- is submitted.

7. Cost of tender document of Rs. 1180/- is submitted. Enclosures:

Thanking you,

Yours faithfully,

Name of the Bidder\_\_\_\_\_

Authorized Signatory\_\_\_\_\_

Seal of the Organization\_\_\_\_\_

Date: Place:

## ANNEXURE – X

### **PERFORMANCE BANK GUARANTEE FORMAT**

Name of the Bank: \_\_\_\_\_

To

Registrar  
I.K. Gujral Punjab Technical University, Kapurthala  
Punjab  
India- 144603

In consideration of the Registrar, I.K. Gujral Punjab Technical University, Kapurthala (Punjab) (hereinafter called "The I.K. Gujral Punjab Technical University Main Campus, Kapurthala (Punjab) having agreed under the terms and conditions of agreement/ Contract Acceptance letter No. \_\_\_\_

\_\_\_\_\_ Dt : \_\_\_\_\_ Made between \_\_\_\_\_ (Designation & address of contract signing Authority) and \_\_\_\_\_ (here in after called "the said Agency" for the work \_\_\_\_\_ (here in after called "the said agreement") having agreed for submission of an irrevocable Bank Guarantee Bond for \_\_\_\_\_ ( \_\_\_\_\_ only) as a performance security Guarantee from the Agency for compliance of his obligations in accordance with the terms & conditions in the said agreement.

1. We \_\_\_\_\_ (Indicate the name of the Bank) hereinafter referred to as the Bank, undertake to pay to the I.K. Gujral Punjab Technical University, Kapurthala an amount not exceeding \_\_\_\_\_ ( \_\_\_\_\_ only) on demand by the I.K. Gujral Punjab Technical, Kapurthala.
2. We \_\_\_\_\_ (Indicate the name of the bank, further agree that (and promise) to pay the amounts due and payable under this guarantee without any demur merely on a demand from the I.K. Gujral Punjab Technical University, Kapurthala through the Registrar, I.K. Gujral Punjab Technical University, Kapurthala or \_\_\_\_\_ (Designation & Address of contract signing authority), stating that the amount claimed is due by way of loss or damage caused to or would be caused or suffered by the I.K. Gujral Punjab Technical University, Kapurthala by reason of any breach by the said Agency of any of the terms of conditions contained in the said agreement or by reason of the Agency failure to perform the said agreement. Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding \_\_\_\_\_ ( \_\_\_\_\_)

Only).

3. (A) We \_\_\_\_\_ (indicate the name of Bank) further undertake to pay to the I.K. Gujral Punjab Technical University, Kapurthala any money so demanded notwithstanding any dispute or dispute raised by the Agency in any suite or proceeding pending before any court or Tribunal relating to liability under this present being absolute and unequivocal.

a. The payment so made by us under this Performance Guarantee shall be a valid discharge of our liability for payment there under and the Agency shall have no claim against us for making such payment.

4. We \_\_\_\_\_ (Indicate the name of bank) to further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said agreement and that it shall continue to be enforceable till all the dues of the I.K. Gujral Punjab Technical University, Kapurthala under or by virtue of the said agreement have been fully paid and its claims satisfied or discharged by \_\_\_\_\_

(Designation & Address of contract signing authority) on behalf of the I.K. Gujral Punjab Technical University, Kapurthala, certify that the terms and conditions of the said agreement have been fully and properly carried out by the said Agency and accordingly discharges this guarantee.

5 (a) Notwithstanding anything to the contrary contained herein the liability of the bank under this guarantee will remain in force and effect until such time as this guarantee is discharged in writing by the I.K. Gujral Punjab Technical University, Kapurthala or until (date of validity/ extended validity) whichever is earlier and no claim shall be valid under this guarantee unless notice in writing thereof is given by the I.K. Gujral Punjab Technical University, Kapurthala within validity/ extended period of validity of guarantee from the date aforesaid.

(b) Provided always that we \_\_\_\_\_ (indicate the name of the Bank) unconditionally undertakes to renew this guarantee or to extend the period of guarantee form year to year before the expiry of the period or the extended period of the guarantee, as the case shall be on being called upon to do so by the I.K. Gujral Punjab Technical University, Kapurthala. If the guarantee is not renewed or the period extended on demand, we \_\_\_\_\_ (indicate the name of the Bank) shall pay the I.K. Gujral Punjab Technical University, Kapurthala the full amount of guarantee on demand and without demur.

6. We \_\_\_\_\_ ( indicate the name of Bank ) further agree with the I.K. Gujral Punjab Technical University, Kapurthala that the I.K. Gujral Punjab Technical University, Kapurthala shall have the fullest liberty without our consent and without effecting in any manner out of obligations hereunder to vary any of the terms and conditions of the said contract from time to time or to postpone for any time or from time to time any to the powers exercisable by the I.K. Gujral Punjab Technical University, Kapurthala against the said Agency and to forbear or enforce any of the terms and conditions of the said agreement and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said Agency for any bearance act or omission on the part of the I.K. Gujral Punjab Technical University, Kapurthala or any indulgence by the I.K. Gujral Punjab Technical University, Kapurthala to the said Agency for by any such matter or thing whatsoever under the law relating to sureties for the said reservation would relive us from the liability.
7. This guarantee will not be discharged by any change in the constitution of the Bank or the Agency.
8. We, \_\_\_\_\_ (indicate the name of the Bank) lastly undertake not to revoke this guarantee except with the previous consent of the I.K. Gujral Punjab Technical University, Kapurthala in writing.
9. This guarantee shall be valid up to (Date of Completion plus Handholding Period). Unless extended on demand by I.K. Gujral Punjab Technical University, Kapurthala. Notwithstanding anything to the contrary contained hereinbefore, our liability under this guarantee is restricted to Rs..... (Rs.....only) unless a demand under this guarantee is made on us in writing on or before..... we shall be discharged from our liabilities under this guarantee thereafter.

Dated:            the            Day of            for

(indicate the name of bank)

Signature of Banks Authorized official

Witness (Name) \_\_\_\_\_

Designation with Code No. -----

1 Full Address-----

2.



**PROFORMA PRE CONTRACT INTEGRITY PACT**

**GENERAL**

This pre-bid pre-contract Agreement (hereinafter called the Integrity Pact) is made on..... day of the month..... of 2018, between, on one hand, acting through Shri/Smt.

\_\_\_\_\_, Designation, I.K. Gujral Punjab Technical University, Kapurthala (Punjab) (hereinafter called the “BUYER”/ “I.K. Gujral Punjab Technical University Main Campus, Kapurthala (Punjab)” interchangeably, which expression shall mean and include, unless the context otherwise requires, his successors in office and assigns) of the First Part

**AND**

M/s\_\_\_\_\_represented by Shri\_\_\_\_\_, Chief Executive Officer (hereinafter called the “BIDDER/Seller” which expression shall mean and include, unless the context otherwise requires, his successors and permitted assigns) of the Second Part.

WHEREAS the I.K. Gujral Punjab Technical University, Kapurthala proposes to procure services towards “Supply, Installation and Commissioning of..... LABORATORY Equipment at I.K. Gujral Punjab Technical University, Kapurthala (Punjab)”

For its clients and BIDDER/Seller is willing to offer the said services and related items as referred to in the Bid document No. .... / 2018 Dated ..... 2018.

WHEREAS the BIDDER is a private company /public company / Government undertaking / partnership / registered expert agency, constituted in accordance with the relevant law in the matter and the I.K. Gujral Punjab Technical University, Kapurthala is an autonomous body of Government of Punjab established by an Act of State Legislature on 16<sup>th</sup> January, 1997.

NOW, THEREFORE,

To avoid all forms of corruption by following a system that is fair, transparent and free from any influence / prejudiced dealings prior to, during and subsequent to the currency of the contract to be entered into with a view to:

Enabling the I.K. Gujral Punjab Technical University, Kapurthala to obtain the desired services as referred to in the Bid document No. .... dated .....2018 at a competitive price in conformity with the defined specifications by avoiding the high cost and the distortionary impact of corruption on public procurement and Enabling BIDDERS to abstain from bribing or indulging in any corrupt practice in order to secure the contract by providing assurance to them that their competitors will also abstain from bribing and other corrupt practices and the I.K. Gujral Punjab Technical University, Kapurthala will commit to prevent corruption, in any form, by its officials by following transparent procedures.

The parties hereto hereby agree to enter into this Integrity Pact and agree as follows:

**1. Commitments of the I.K. Gujral Punjab Technical University, Kapurthala**

Dr Gagandeep Kaur      Dr Satvir Singh      Dr Nitya Sharma      Sh. Dinesh Juneja      Dr Rakesh Goyal

- 1.1 The I.K. Gujral Punjab Technical University, Kapurthala undertakes that no official of the I.K. Gujral Punjab Technical University, Kapurthala, connected directly or indirectly with the contract, will demand, take a promise for or accept, directly or through intermediaries, any bribe, consideration, gift, reward, favour or any material or immaterial benefit or any other advantage from the BIDDER, either for themselves or for any person, organization or third party related to the contract in exchange for an advantage in the bidding process, bid evaluation, contracting or implementation process related to the contract.
  - 1.2 The BUYER will, during the pre-contract stage, treat all BIDDERS alike, and will provide to all BIDDERS the same information and will not provide any such information to any particular BIDDER which could afford an advantage to that particular BIDDER in comparison to other BIDDERS.
  - 1.3 All the officials of the I.K. Gujral Punjab Technical University, Kapurthala will report to the appropriate Government office any attempted or completed breaches of the above commitments as well as any substantial suspicion of such a breach.
2. In case any such preceding misconduct on the part of such official(s) is reported by the BIDDER to the I.K. Gujral Punjab Technical University, Kapurthala with full and verifiable facts and the same is prima facie found to be correct by the I.K. Gujral Punjab Technical University, Kapurthala, necessary disciplinary proceedings, or any other action as deemed fit, including criminal proceedings shall be initiated by the I.K. Gujral Punjab Technical University, Kapurthala and such a person shall be debarred from further dealings related to the contract process. In such a case while an enquiry is being conducted by the I.K. Gujral Punjab Technical University, Kapurthala the proceedings under the contract would not be stalled.

### **3. Commitments of Bidders**

The BIDDER commits itself to take all measures necessary to prevent corrupt practices, unfair means and illegal activities during any stage of its bid or during any pre-contract or post-contract stage in order to secure the contract or in furtherance to secure it and in particular commit itself to the following:

- 3.1 The BIDDER will not offer, directly or through intermediaries, any bribe, gift, consideration, reward, favour, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement to any official of the I.K. Gujral Punjab Technical University, Kapurthala, connected directly or indirectly with the bidding process, or to any person, organization or third party related to the contract in exchange for any advantage in the bidding, evaluation, contracting and implementation of the contract.
- 3.2 The BIDDER further undertakes that it has not given, offered or promised to give, directly or indirectly any bribe, gift, consideration, reward, favour, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement to any official of the I.K. Gujral Punjab Technical University, Kapurthala or otherwise in procuring the Contract or forbearing to do or having done any act in relation to the obtaining or execution of the contract or any other contract with the Government for

showing or forbearing to show favour or disfavor to any person in relation to the contract or any other contract with the Government.

- 3.3 Bidders shall disclose the name and address of agents and representatives and Indian BIDDERS shall disclose their foreign principals or associates.
- 3.4 BIDDERS shall disclose the payments to be made by them to agents/brokers or any other intermediary, in connection with this bid/contract.
- 3.5 The BIDDER further confirms and declares to the I.K. Gujral Punjab Technical University, Kapurthala that the BIDDER is the original manufacturer/integrator/authorized government sponsored export entity and has not engaged any individual or firm or company whether Indian or foreign to intercede, facilitate or in any way to recommend to the I.K. Gujral Punjab Technical University, Kapurthala or any of its functionaries, whether officially or unofficially to the award to the contract to the BIDDER, nor has any amount been paid, promised or intended to be paid to any such individual, firm or company in respect of any such intercession, facilitation or recommendation, as the case shall be for satisfactory performance of the proposed terms of Bidder.
- 3.6 The BIDDER, either while presenting the bid or during pre-contract negotiations or before signing the contract, shall disclose any payments he has made, is committed to or intends to make to officials of the I.K. Gujral Punjab Technical University, Kapurthala or their family members, agents, brokers or any other intermediaries in connection with the contract and the details of services agreed upon for such payments.
- 3.7 The BIDDER will not collude with other parties interested in the contract to impair the transparency, fairness and progress of the bidding process, bid evaluation, contracting and implementation of the contract.
- 3.8 The BIDDER will not accept any advantage in exchange for any corrupt practice, unfair means and illegal activities.
- 3.9 The BIDDER shall not use improperly, for purposes of competition or personal gain, or pass on to others, any information provided by the I.K. Gujral Punjab Technical University, Kapurthala as part of the business relationship, regarding plans, technical proposals and business details, including information contained in any electronic data carrier. The BIDDER also undertakes to exercise due and adequate care lest any such information is divulged.
- 3.10 The BIDDER commits to refrain from giving any complaint directly or through any other manner without supporting it with full and verifiable facts.
- 3.11 The BIDDER shall not instigate or cause to instigate any third person to commit any of the actions mentioned above.
- 3.12 If the BIDDER or any employee of the BIDDER or any person acting on behalf of the BIDDER, either directly or indirectly, is a relative of any of the officers of the I.K. Gujral Punjab Technical University, Kapurthala, or alternatively, if any relative of an officer of the I.K. Gujral Punjab Technical University, Kapurthala has financial interest / stake in

the BIDDER's firm, the same shall be disclosed by the BIDDER at the time of filing of Bid.

3.13 The BIDDER shall not lend to or borrow any money from or enter into any monetary dealings or transactions, directly or indirectly, with any employee of the I.K. Gujral Punjab Technical University, Kapurthala.

4. **PREVIOUS TRANSGRESSION**

4.1 The BIDDER declares that no previous transgression occurred in the last three years immediately before signing of this integrity pact, with any other company in any country in respect of any corrupt practices envisaged hereunder or with any Public Sector Enterprise in India or any Government Department in India that could justify BIDDER's exclusion from the bid process.

4.2 The BIDDER agrees that if it makes incorrect statement on this subject. BIDDER can be disqualified from the Bid process or the contract, if already awarded, can be terminated for such reason.

5. **EARNEST MONEY DEPOSIT**

5.1 While submitting Technical bid, the BIDDER shall deposit Earnest Money as mentioned in tender document.

5.2 The instrument for Security Deposit made shall be valid up to the specified period and the bidder shall be liable to keep the said instrument valid for such extended period as the case shall be for satisfactory performance of the terms of Bidder above referred till the complete conclusion of the contractual obligations to the complete satisfaction of both the BIDDER and the I.K. Gujral Punjab Technical University, Kapurthala, including warranty period, whichever is later.

5.3 In case of the successful BIDDER a clause would also be incorporated in the Article pertaining of Performance Bond in the corresponding Contract governing such agreement that the provisions of Sanctions for Violation shall be applicable for encashment of Performance Bank Guarantee deposited towards forfeiture of said amount in case of a decision by the I.K. Gujral Punjab Technical University, Kapurthala to forfeit the same without assigning any reason for imposing such sanction.

5.4 No interest shall be payable by the I.K. Gujral Punjab Technical University, Kapurthala to the BIDDER on Earnest Money Deposit.

6. **SANCTIONS FOR VIOLATIONS**

6.1 Any breach of the aforesaid provisions by the BIDDER or any one employed by it or acting on its behalf (whether with or without the knowledge of the BIDDER) shall entitle the I.K. Gujral Punjab Technical University, Kapurthala to take all or any one of the following actions, wherever required:

i. To immediately call off the pre contract negotiations without assigning any reason or

giving any compensation to the BIDDER. However, the proceedings with the other BIDDER(s) would continue.

- ii. The Earnest Money Deposit (in pre-contract stage) and/or Security Deposit / Performance Bond (Bank Guarantee) (after the contract is signed) shall stand forfeited either fully or partially, as decided by the I.K. Gujral Punjab Technical University, Kapurthala and the BUYER (I.K. Gujral Punjab Technical University, Kapurthala) shall not be required to assign any reason therefore.
- iii. To immediately cancel the contract, if already signed, without giving any compensation to the BIDDER.
- iv. To recover all sums already paid by the I.K. Gujral Punjab Technical University, Kapurthala, and in case of an Indian BIDDER with interest thereon at 2% higher than the prevailing Prime Lending Rate of State Bank of India, while in case of a BIDDER from a country other than India with interest thereon at 2% higher than the LIBOR as the case shall be. If any outstanding payment is due to the BIDDER from the I.K. Gujral Punjab Technical University, Kapurthala in connection with any other contract for any other stores or on any account whatsoever and by whatsoever name called, such outstanding payment could also be utilized to recover the aforesaid sum and interest thereto.
- v. To encash the advance bank guarantee and performance bond/warranty bond, if furnished by the BIDDER, in order to recover the payments, already made by the I.K. Gujral Punjab Technical University, Kapurthala, along with interest.
- vi. To cancel all or any other Contracts with the BIDDER. The BIDDER shall be liable to pay compensation for any loss or damage to the I.K. Gujral Punjab Technical University, Kapurthala resulting from such cancellation/rescission and the I.K. Gujral Punjab Technical University, Kapurthala shall be entitled to deduct the amount so payable from the money(s) due to the BIDDER.
- vii. To debar the BIDDER from participating in future bidding processes of the Government of India/Government of Punjab/PSUs/Autonomous bodies of Government of India/State Government for a minimum period of five years, which shall be further extended at the discretion of the I.K. Gujral Punjab Technical University, Kapurthala.
- viii. To recover all sums paid in violation of this Pact by BIDDER(s) to any middleman or agent or broker with a view to securing the contract.
- ix. In cases where irrevocable Letters of Credit have been received in respect of any contract signed by the I.K. Gujral Punjab Technical University, Kapurthala with the BIDDER, the same shall not be opened.
- x. Forfeiture by way of encashment of Performance Bond in case of a decision by the I.K. Gujral Punjab Technical University, Kapurthala to forfeit the same without assigning any reason for imposing sanction for violation of this Pact.

- 6.2 The I.K. Gujral Punjab Technical University, Kapurthala will be entitled to take all or any of the actions mentioned at Para 6.1(i) to (x) of this Pact also on the Commission by the BIDDER or any one employed by it or acting on its behalf (whether with or without the knowledge of the BIDDER), of any offence as defined in Chapter IX of the Indian Penal code, 1860 or Prevention of Corruption Act, 1988 or any other statute enacted for prevention of corruption.
- 6.3 The decision of the I.K. Gujral Punjab Technical University, Kapurthala to the effect that a breach of the provisions of this Pact has been committed by the BIDDER shall be final and conclusive on the BIDDER. However, an Independent Monitor(s) shall be appointed by I.K. Gujral Punjab Technical University, Kapurthala, in case of breach of the provisions of the pact.

## **7. INDEPENDENT MONITORS**

- 7.1 An Independent monitor (s) shall be appointed by I.K. Gujral Punjab Technical University, Kapurthala, in case of breach of the provisions of the pact.
- 7.2 The task of the Monitors shall be to review independently and objectively, whether and to what extent the parties comply with the obligations under this Pact.
- 7.3 The Monitors shall not be subject to instructions by the representatives of the parties and perform their functions neutrally and independently.
- 7.4 Both the parties accept that the Monitors have the right to access all the documents relating to the project / procurement, including minutes of meetings.
- 7.5 As soon as the Monitor notices, or has reason to believe, a violation of this Pact, he will so inform the Authority designated by the I.K. Gujral Punjab Technical University, Kapurthala.
- 7.6 The BIDDER(s) accept that the Monitor has the right to access without restriction to all Project documentation of the I.K. Gujral Punjab Technical University, Kapurthala including that provided by the BIDDER. The BIDDER will also grant the Monitor, upon his request and demonstration of a valid interest, unrestricted and unconditional access to his project documentation. The same is applicable to Sub-bidders. The Monitor shall be under contractual obligation to treat the information and documents of the BIDDER/Sub-bidder(s) with confidentiality.
- 7.7 The I.K. Gujral Punjab Technical University, Kapurthala will provide to the Monitor sufficient information about all meetings among the parties related to the Project provided such meetings could have an impact on the contractual relations between the parties. The parties will offer to the Monitor the option to participate in such meetings.
- 7.8 The Monitor will submit a written report to the designated Authority of BUYER/Secretary in the Department/within 8 to 10 weeks from the date of reference or intimation to him by the I.K. Gujral Punjab Technical University, Kapurthala / BIDDER and, shall the

occasion arise, submit proposals for correcting problematic situations.

**8. FACILITATION OF INVESTIGATION**

In case of any allegation of violation of any provisions of this Pact or payment of commission, the I.K. Gujral Punjab Technical University, Kapurthala or its agencies shall be entitled to examine all the documents including the Books of Accounts of the BIDDER and the BIDDER shall provide necessary information and documents in English and shall extend all possible help for the purpose of such examination.

**9. LAW AND PLACE OF JURISDICTION**

This Pact is subject to Indian Law. The place of performance and jurisdiction is the seat of the I.K. Gujral Punjab Technical University, Kapurthala.

**10. OTHER LEGAL ACTIONS**

The actions stipulated in this Integrity Pact are without prejudice to any other legal action that shall follow in accordance with the provisions of the extant law in force relating to any civil or criminal proceedings.

**11. VALIDITY**

11.1 The validity of this Integrity Pact shall be governed by the terms of the Bid No. .... towards complete execution of the contract to the satisfaction of both the I.K. Gujral Punjab Technical University, Kapurthala and the BIDDER/Seller, including warranty period, whichever is later. In case BIDDER is unsuccessful, this Integrity Pact shall expire after six months from the date of the signing of the contract awarding the Bidder with successful bidder.

11.2 Shall one or several provisions of this Pact turn out to be invalid; the remainder of this Pact shall remain valid. In this case, the parties will strive to come to an agreement to their original intentions.

**12.** The parties hereby sign this Integrity Pact at \_\_\_\_\_ on \_\_\_\_\_.

I.K. Gujral Punjab Technical University, Kapurthala

BIDDER

Name of the Officer:

Designation:

Authorised Signatory of IKGPTU,  
Kapurthala

Witness:

Witness

1. \_\_\_\_\_

1. \_\_\_\_\_

2. \_\_\_\_\_

2. \_\_\_\_\_

(The Pre Contract Integrity Pact shall be modified based in line with the conditions of the Bid Documents).

Dr Gagandeep Kaur

Dr Satvir Singh

Dr Nitya Sharma

Sh. Dinesh Juneja

Dr Rakesh Goyal

**ANNEXURE XII**

**MANUFACTURER AUTHORIZATION**  
**FORM**

No. \_\_\_\_\_ dated \_\_\_\_\_

To

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Dear Sir:

Bid No. \_\_\_\_\_

We \_\_\_\_\_ who are established and reputed manufacturer of \_\_\_\_\_ (name and description of goods offered) having factories at (address of factory) with factory registration no. ----- do hereby authorize M/s \_\_\_\_\_ (Name and address of Agent) to submit a bid, and sign the contract with you for the goods manufactured by us against the above bid.

We hereby extend our full warranty as per Clause 3 of the Conditions of Contracts, for the goods and services offered for supply by the above firm against this Invitation for Bid. We further certify that we shall support vendor with all related spares and maintenance during the entire contract period including the period of warranty/AMC.

Yours faithfully,

(Name): \_\_\_\_\_

(Name of manufacturers): \_\_\_\_\_

Note: This letter of authority should be on the letterhead of the manufacturer or OEM and should be signed by a person competent and having the power of attorney to legally bind the manufacturer.

Dr Gagandeep Kaur

Dr Satvir Singh

Dr Nitya Sharma

Sh. Dinesh Juneja

Dr Rakesh Goyal



**ANNEXURE XIII**  
**Earnest Money Details**

<b>S. NO.</b>	<b>NAME OF PACKAGE</b>	<b>EARNEST MONEY (IN Rs.)</b>
<b>1.</b>	<b>Power Systems Lab</b>	<b>63,500/-</b>
<b>2.</b>	<b>Analog Communication Systems Lab</b>	<b>9,500/-</b>

\* EMD is compulsory for all the bidders.

## ANNEXURE – XIV

### **CONTRACT FORM**

**THIS AGREEMENT** made the ..... day of ..... 2018 between ..... (Name of Procurement Consultant (hereinafter "the Procurement Consultant") on behalf of I.K. GUJRAL PUNJAB TECHNICAL UNIVERSITY, Kapurthala, Punjab of the one part and ..... (Name & address of Supplier) ..... (Hereinafter called "the Supplier") of the other part:

**WHEREAS** the Purchase is desirous that certain Goods and ancillary services viz. .... (Brief Description of Goods and Services) and has accepted a bid by the Supplier for the supply of those goods and services in the sum of ..... (Contract Prize in words and Figures) (Hereinafter called "the Contract Price")

NOW THIS AGREEMENT WITNESSETH 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 referred to.
2. The following documents shall be deemed to form and be read and constructed as part of this Agreement, viz.,
  - [a] The Price Schedule (BOQ) submitted by the Bidder; [b]  
The Schedule of Requirements;
  - [c] The Terms & Conditions
  - [d] The Consignee's Notification of Award/ Purchase Order
3. In consideration of the payments to be made by the Consignee to the Supplier as hereinafter mentioned, the Supplier hereby covenants with the Consignee to provide the goods and services and to remedy defects herein in conformity in all respects with the provisions of the Contract.
4. The Consignee hereby covenants to pay the Supplier in consideration of the provision of the goods and services and the remedying of defects therein, the Contact prices or such other sum as shall become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

Brief particulars of the goods and services, which shall be supplied/ provided by the Supplier, are as under:

S. No.	Brief Description of Goods & Services	Quantity to be supplied	Unit Price	Total Price	Delivery Terms

Dr Gagandeep Kaur

Dr Satvir Singh

Dr Nitya Sharma

Sh. Dinesh Juneja

Dr Rakesh Goyal

**TOTAL VALUE:**

**DELIVERY SCHEDULE:**

IN WITNESS where of the parties hereto have caused this Agreement to be executed in accordance with their respective laws the day and year first above written.

Signed, Sealed and Delivered by the

said ..... (For the Consignee) in the

presence of .....

Signed, Sealed and Delivered by the

said ..... (For the Supplier) in the

presence of .....

**ANNEXURE– XV****FORM - A DELIVERY CERTIFICATE**

(to be completed by the Consignee/Purchaser)

1. The items mentioned as per details given below, have been physically verified by way of opening the cartons/packing and verifying the machine/ equipment supplied and model of the Equipments/Items. It is certified and acknowledged that the same have been received at this Institution in good condition.

Sl. No.	Sl. No. (As per Work Order)	Description of Equipment	Origin	Model & Make	Quantity

Please make appropriate column, as per requirement.

2. The items as per details given below was/were received in damaged conditions and therefore are not acceptable. These damaged goods/equipment have been returned to the supplier and supplier is required to supply the new equipment in lieu of damaged one.

**Details of the Goods/Equipment received in objectionable condition**

Sl. No.	Sl. No. (As per Work Order)	Description of Equipment	Origin	Model & Make	Quantity

Date: \_\_\_\_\_

(Signature of the issuing official)

Authorized Official,

I.K. GUJRAL PUNJAB

TECHNICAL UNIVERSITY

Name \_\_\_\_\_

Designation \_\_\_\_\_

Rubber Seal of the Institution

**Received the Acknowledgement Certificate**

Date: \_\_\_\_\_

Signature of Supplier or his Authorized Representative

Name: \_\_\_\_\_

Dr Gagandeep Kaur

Dr Satvir Singh

Dr Nitya Sharma

Sh. Dinesh Juneja

Dr Rakesh Goyal

**ANNEXURE - XVI**

**FORM FOR ACCEPTANCE OF GOODS/EQUIPMENT AT SITE**  
**FORM – B**

**INSTALLATION CERTIFICATE**

(to be completed and issued by the Consignee/Purchaser)

**Note:** In case of need, a fresh form on these lines shall be prepared & issued by Consignee. 2 copies of this certificate to be provided to Supplier.

1. The following goods/equipment, supplied by the Supplier at this University have been successfully installed by the Supplier.

Sl. No.	Sl. No. (As per Work Order)	Description of Items with specifications	Origin	Model & Make	Quantity

2. The Supplier has fulfilled his contractual obligations related to supply & installation of the items.

or

3. The Supplier has not fulfilled his contractual obligation with regard to following. (Mention here **deviation**, if any, related to successful installation.)
- (a)
- (b)
- (c)

Date:

(Signature of the issuing official)

I.K. GUJRAL PUNJAB TECHNICAL UNIVERSITY

Name: \_\_\_\_\_

Designation: \_\_\_\_\_

Rubber Seal of the Institution Received the

Acceptance Certificate

Date:

Signature of Supplier or his Authorized Representative Name: \_\_\_\_\_

**FINANCIAL BID SUBMISSION FORM**

To:

Registrar  
I.K.Gujral Punjab Technical University, Kapurthala  
Punjab -144603

Dear Sir

We, the undersigned, offer to provide “SUPPLY, INSTALLATION, COMMISSIONING & MAINTENANCE OF ..... LABORATORY EQUIPMENT OF ELECTRONICS & COMMUNICATION ENGINEERING DEPARTMENT in accordance with your bid document.

Our attached Financial Bid is for the amount of \_\_\_\_\_[Indicate the corresponding to the amount(s), currency(ies) {Insert amount(s) in words and figures}].

Please note that all amounts shall be the same as in Bill of Quantity (BOQ). Our Financial Bid shall be binding upon by us subject to the modifications resulting from Contract negotiations, if any, up to expiration of the validity period of the Proposal.

We remain,

Yours

sincerely,

Authorized Signature {In full and initials}:

Name and Title of Signatory:

In the capacity of:

Address:

E-mail: