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Dated: 05.02.2020

**DEPARTMENT OF ELECTRONICS
UNIVERSITY OF JAMMU, JAMMU – 180 006**

**BID DOCUMENT
(e - Procurement)**

Project

**Supply and Installation of Different types of Electronic Equipments
To the Department of Electronics, University of Jammu, Jammu under RUSA 2.0 Scheme**



Issued On:
05.02.2020

**BY
HEAD OF DEPARTMENT
DEPARTMENT OF
ELECTRONICS
UNIVERSITY OF JAMMU
JAMMU – 180 006**

e- Procurement Notice

BIDDING DOCUMENT AND TECHNICAL SPECIFICATIONS

NOTICE INVITING TENDER

Online tender/s invited under two bid systems (Technical and Financial) from the reputed manufacturers/ authorized representatives of manufacturer / authorized distributors/ dealers for the supply and installation of **Equipments** as per the technical specifications, terms and conditions and schedule of this tender document. Bidders can download complete set of bidding documents from e- procurement Platform <http://jktenders.gov.in> or from the university website www.jammuuniversity.in from 05.02.2020 onwards. Bidders need to submit the bids online by uploading all the required documents through <http://jktenders.gov.in>. Last Date/ Time for receipt of bids through e-procurement is: 24.02.2020 up to 05:00 PM (Server time). Late bids shall not be accepted. For further details regarding Tender Notification & Specifications please visit website: <http://jktenders.gov.in> and www.jammuuniversity.in.

CRITICAL DATES:

A.	Publishing Date	05.02.2020
B.	Bid Document Download Start Date	05.02.2020
C.	Bid Submission Start Date	05.02.2020
D.	Bid Submission End Date	22.02.2020 (05:00 PM)
E.	Online Technical Bid Opening Date	24.02.2020 (01:00 PM)
F.	Online financial e-Bid opening date & time (Only of the technical qualified bidders)	Will be communicated later to the technical qualified bidders
G.	Venue of opening of technical & financial e-Bids	Office of the Registrar, University of Jammu, Jammu
H.	Cost of the tender documents	Nil
I.	EMD amount	Rs.10000/- or 2% of the Quoted Value.

The interested bidders are requested to submit their offer along with terms & conditions, technical specifications and annexure forming part of this tender document.

1. The Bidders are advised to study the Bidding Document carefully. Submission of e-Bid against this NIT shall be deemed to have been done after careful study, site visit and examination of the procedures, terms and conditions of the Bidding Document with full understanding of its implications.
2. All the required documents excluding Price Schedule/BOQ should be uploaded by the-Bidder electronically in the PDF format, whereas Price Schedule/ BOQ should be uploaded electronically in the same BOQ sheet provided with the NIT.
3. All the e-Bids must be accompanied by the scanned copy of EMD in the form of CDR only, pledged to the Registrar, University of Jammu, Jammu. No Interest would be payable on Earnest Money deposited.
4. Hard Copy of original instrument of EMD shall be submitted to the office of the Head, Department of Electronics, University of Jammu, Jammu up to the last date and time of the online submission of e-Bid as given in the table.
5. The date and time of opening of Financial-Bids shall be notified on website <http://jktenders.gov.in>. This will be conveyed to the qualified bidders automatically through an e-mail message on their registered e-mail

address. The Financial-bids shall be opened accordingly online on the same Web Site in the office of the Registrar University of Jammu, Jammu.

6. The tender document is available at website <http://jktenders.gov.in> and www.jammuuniversity.in. Interested bidders may view, download the e-Bid document, seek clarification and submit their e-Bid online up to the date and time mentioned in the table above.
7. The e-Bids will be electronically opened in the presence of bidder's representatives, who choose to attend at the venue, date and time mentioned in the above table or any subsequent day to the convenience of the Tender Opening Committee. An authority letter of bidder's representative will be required to be produced.
8. The University of Jammu reserves the right to cancel any or all the e-Bids/ the e-Bid process without assigning any reason thereof. The decision of the university will be final and binding.
9. In the event of date specified for e-Bids opening being declared a holiday then the date for opening of e-Bids shall be the following working day at the appointed time and place.
10. To participate in e-bidding process, bidders have to get 'Digital Signature Certificate (DSC)'.
11. Hard copy of Technical and Commercial bid documents (complete) must be delivered to the office of Head of Department, University of Jammu, Jammu – 180 006 in two sealed covers up to 22.02.2020 up to 05.00 p.m. The first envelope (Marked as Technical Bid) shall contain all the documents mentioned below (a) to (i), and sealed.
 - a) A copy of the last audited balance sheet of your firm.
 - b) Up-to-date Income-Tax clearance certificate from the Income-Tax Officer concerned, certifying that the bidder has cleared all the Income-Tax dues.
 - c) Proof of manufacturing unit/ Authorized dealer letter from the Principal (OEM).
 - d) The names of the organizations and laboratories to which same equipment have been supplied preferably along with supply order in recent past.
 - e) GST Registration No.
 - f) Undertaking duly signed by the bidder stating that the bidder has not ever been blacklisted/debarred.
 - g) Technical specifications offered by the supplier.
 - h) Technical compliance statement.
 - i) All related Catalogue/Brochure/Manual should be submitted

The second envelope (Marked as Commercial/Financial Bid) shall contain the Schedule, in which the supplier shall register the rates of supply. The second envelope shall also be sealed. Each page of the tender shall be signed in full and stamped with the seal by the supplier. Both the envelopes then should be put together, and shall be sealed in a third envelope which should be marked as “Quotation for Current-Voltage - Resistance measurement unit (Source Meter)” along with enquiry number and date. It may be noted that the hard copy should be an exact replica of the uploaded offer documents. For evaluation purpose the uploaded offer documents will be treated as authentic and final. The hard copy shall be used only for the reference purpose. The documents submitted in hard copy but not uploaded on the website shall be treated as irrelevant.

Sd/-
Head of Department
Department of Electronics
University of Jammu
Jammu -180 006

Checklist for Bid/Tender Submission

(The following check-list must be filled in and submitted with the bid documents)

Pre- Qualification Bid

Sr. No.	Particulars	Attached Yes/No
1.	Duly Filled Technical bid	
2.	A copy of the last audited balance sheet of your firm	
3.	Details of the income tax clearance certificate	
4.	Proof of manufacturing unit/ Authorized dealer letter from the Principal OEM.	
5.	The names of the organizations and laboratories to which same equipment have been supplied along with supply order in recent past	
6.	GST Registration No.	
7.	Undertaking duly signed by the tenderer stating that authorized distributors/manufacturers/dealers has not ever been blacklisted/debarred;	
8	EMD as specified in Bid	
9	The schedule of requirement indicating the make offered without indicating the pricing components along with the technical bid	
10	Have you submitted the bids both techno commercial un priced and priced bid separately for each tender?	
11	The statement of deviations from financial terms and conditions, if any?	
12	Duly signed Price Bid under a separate sealed cover	
13	Schedule of requirements duly priced?	

1. GENERAL INSTRUCTIONS FOR ONLINE BID SUBMISSION THROUGH THE JAMMU & KASHMIR E- PROCUREMENT PORTAL AT <https://jktenders.gov.in>.

- a. The interested bidder can download the bidding document from the website <http://jktenders.gov.in> or www.jammuuniversity.in . Bidders are advised to download bid submission manual for the help of Bid Submission process from the "Downloads" option as well as from "Bidders Manual Kit" on website <http://jktenders.gov.in>.
- b. Possession of valid Digital Signature Certificate (DSC) and enrollment/registration of the contractors/bidders on the e-Procurement/e-tender portal are prerequisite for e-tendering. The bidders have to submit their bids online in electronic format with digital Signature. The bids proposed without digital signature will not be accepted. No proposal will be accepted in physical form.
- c. Bidder should register for the enrollment in the e-Procurement site using the “Online Bidder Enrollment” option available on the home page. Portal enrollment is generally free of charge. During enrollment/registration, the bidders should provide only valid and true information including valid email id. All the correspondence shall be made directly with the contractors/bidders through email id as registered. Bidder need to login to the site through their user ID/ password chosen during enrollment/registration.
- d. Bids will be opened online as per time schedule mentioned in table above.
- e. Before submission of online bids, bidders must ensure that scanned copy of all the necessary documents have been attached with bid. (Note: Scan all the documents on 100 dpi with black and white option) ordinarily it shall be in PDF formats.
- f. It is advisable that each document to be uploaded through online for the tenders should be less than 2 MB. The file size being less than 1 MB the transaction uploading time will be very fast.
- g. It shall be deemed that the bidder has read and understood all the terms and conditions before submitting the offer. Bidder should go through the tender schedules carefully and upload the documents as asked. All the required information for bid must be filled and submitted online otherwise, the incomplete bid shall stand rejected.
- h. The department will not be responsible for delay in online submission due to any reasons
- i. Bidders besides other details will also upload the scanned copies of DD, CDR, or any other form as specified in the bidding document. The original instruments in respect of cost of tender document, EMD and relevant documents be submitted to the office of Head of Department, Department of Electronics, University of Jammu, Jammu-180006 by Registered post/courier/by hand and should reach within bid submission due date and time as indicated in the tender, otherwise quoted bid shall be rejected.
- j. While submitting the bids online, the bidder shall read the terms and conditions and may accept the same to proceed further to submit the bid packets.
- k. The bidder has to select the payment option as offline to pay the Tender FEE/ EMD as applicable and enter details of the instruments.
- l. The details of the DD/any other accepted instrument, physically delivered, should tally with the details available in the scanned copy and the data entered during bid submission time, otherwise submitted bid shall not be acceptable or liable for rejection.
- m. Any clarifications may be sought online through the tender site, through the contact details or during pre-bid meeting if any. Bidder should take into account the corrigendum if any published before submitting the bids online.
- n. The bidder has to digitally sign and upload the required bid documents one by one as indicated. Very act of using DSC for downloading the bids and uploading their offers shall be deemed to be a confirmation that they have read, understood and agreed with all clauses of the bid document including General conditions of contract without any exception.

- o. The bidder has to upload the relevant files required as indicated in the cover content. In case of any irrelevant files, the bid may be rejected.
- p. The price bid format is to be provided in a spread sheet file like BoQ_XXXX.xls, the rates offered should be entered in the allotted space only and uploaded after filling the relevant columns. The Priced-bid/BOQ template shall not be modified / replaced by the bidder; else the bid submitted is liable to be rejected for the tender.
- q. The complete NIT document including Technical Specifications and Schedules duly signed be submitted along with Bid documents to the office of Head of Department, Department of Electronics, University of Jammu, Jammu-180006 by Registered post/courier/by hand and should reach within bid submission due date and time as indicated in the tender.
- r. Price quoted should be firm.
- s. Bidders are advised not to make any change in BOQ (Bill of Quantities) contents or its name. In no case they should attempt to create similar BOQ manually, otherwise the bid will be rejected automatically. The BOQ downloaded should be used for filling the net item rate as per columns mentioned in BOQ and it should be saved with the same name as it contains.
- t. Bidders are advised to use "My Documents" area in their user on <http://jktenders.gov.in> e-Tendering portal to store important documents which are used in all NIT's like Income tax / sales tax Clearance Certificate, audited balance sheets/ annual reports etc. and attach these certificates as Non-Statutory documents while submitting their bids.
- u. The guidelines regarding submission of bid online can be downloaded from website <http://jktenders.gov.in> ".
- v. It may be noted that the hard copy should be an exact replica of the uploaded offer documents. For evaluation purposes the uploaded offer documents will be treated as authentic and final. The hard copy shall be used only for reference purpose. Any documents submitted in hard copy but not uploaded on website shall be treated as irrelevant.

2. INSTRUCTIONS TO BIDDERS

- a. **Scope of Bid:** Supply and installation of Current-Voltage - Resistance measurement unit with all accessories as specified in the technical specification.
- b. **Eligibility**
 - i. A Bidder may be a manufacturing firm/company or an authorized representative of the manufacturer/ authorized distributors/dealer.
 - ii. A Bidder shall not have a conflict of interest. Any Bidder found to have a conflict of interest shall be disqualified.
 - iii. A foreign firm and individual may be ineligible if as a matter of law or regulations, India prohibits commercial relations with the country of bidder.
 - iv. The bidder must be able to provide evidences that they have installation of same model Current-Voltage - Resistance measurement unit (Source Meter) in India.
 - v. The Bidder shall provide such evidence of eligibility satisfactory to the Purchaser, as the Purchaser shall reasonably request.
- c. The bidder is expected to examine all instructions, forms, terms and specifications in the e-Bid document. Failing to furnish all information required as per the e-Bid document or submission of e-Bid not responsive to the e-Bid document in every respect will be at the bidder's risk and may result in rejection of the said e-Bid.
- d. **Clarification of Bidding Documents, Site Visit, Pre-Bid Meeting:**
 - i. A Bidder requiring any clarification shall contact the Purchaser in writing at the Purchaser's address specified in the BDS or raise its enquiries during the pre-bid meeting if provided. The Purchaser will respond in writing to any request for clarification, provided that such request is received prior to the deadline for submission of bids.

- ii. If required, the Bidder is advised to visit and examine the project site and obtain for itself on its own responsibility all information that may be necessary for preparing the bid. The costs of visiting shall be at the Bidder's own expense.
- iii. If specified in NIT, the Bidder's designated representative shall be invited to attend a pre-bid meeting.

e. Amendment of e-Bid Document:

- i. At any time prior to the deadline for submission of bids, the Purchaser may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective bidder, modify the bidding documents by corrigendum. In case of e-procurement, corrigendum / amendment shall be published on <http://jktenders.gov.in>.
- ii. It shall be the sole responsibility of the prospective bidders to check the web site <http://jktenders.gov.in> from time to time for any amendment in the e-tender document. In case of failure to get the amendments, if any, the Purchaser shall not be responsible for it.

3. Preparation of Bids:

- a. **Cost of Bidding:** The Bidder shall bear all costs associated with the preparation and submission of its bid. The Purchaser shall not be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.
- b. **Language of Bid :** English
- c. **Documents Comprising the Bid: The tender/Bid shall be submitted online in two part, viz., Technical Bid and Commercial Bid.**

I. TECHNICAL BID

The following documents are to be scanned and uploaded as part of the Technical Bid as per the tender document:

- i. Scanned copy of proof for submission of Earnest Money Deposit.
- ii. A copy of the last audited balance sheet of the firm along with Up-to-date Income-Tax clearance certificate.
- iii. Proof of manufacturing unit/ Authorized dealer letter from the Principal OEM.
- iv. The names of the organizations and laboratories to which same equipment have been supplied preferably along with supply order in recent past.
- v. GST Registration No.
- vi. Undertaking duly signed by the bidder stating that authorized distributors/manufacturers/dealers has not ever been blacklisted/debarred.
- vii. Technical specifications offered by the supplier along with Technical compliance statement .
- viii. All related Catalogue/Brochure/Manual.
- ix. Scanned copy of Tender Forms (Techno Commercial Un-Priced Bid) and Tender Acceptance Letter)..

All the original documents as well as the original payment instrument like CDR of any scheduled bank against EMD as specified in this tender document have to be sent to the address of the Purchaser by registered post/speed post/courier/by hand on or before bid Submission closing date & time. Beyond that the tender shall be summarily rejected without assigning any reason.

II. COMMERCIAL BID

The commercial bid comprises of :

- (i) Scanned copy of Tender Form (Price Bid)

- (ii) Price bid in the form of BoQ_XXXX.xls.
- (iii) Scanned copy of item wise breakup of price bid.

The Price bid format is provided as BoQ_XXXX.xls along with this Tender Document at <http://jktenders.gov.in>. Bidders are advised to download this BoQ_XXXX.xls and quote their offer/rates in the prescribed column. Bidders can quote Basic Price in INR or CURRENCY (for other than INR) but it is mandatory to quote taxes/levies in INR only, in the prescribed column and upload the same in the commercial bid.

4. General terms and conditions

- a) Tenders should be submitted online on the website www.jktenders.gov.in and the hard copy of the same be addressed to, “Head of the Department, Department of Electronics, New University Campus, University of Jammu, Jammu 180 006” .and must reach on this address by registered post/courier only on or before 22Feb. 2010.
- b) Delivery of goods should be FOR Department of Electronics, University of Jammu, Jammu.
- c) Rate should be valid upto 6 months from the due date of opening of the tender.
- d) General Sale tax/custom duty/excise/entry tax or any other tax, if any, should be clearly mentioned. Rates should be inclusive of custom clearance, insurance etc. It may kindly be noted that University of Jammu will not bear any cost/expenditure arising out of loss during transportation etc. Cost of equipment should include transportation charges and insurance charges up to FOR destination. University of Jammu is exempted from Custom Duty under DSIR registration. DSIR certificate shall be provided by the University of Jammu to the qualifier.
- e) Firm shall be required to submit the End of Life of product. It shall be responsibility of the supplying firm/manufacturing firm to collect condemned instruments/its salvage whenever it is declared unserviceable/obsolete/end of life/beyond economic repair etc. Firm shall be required to submit EPR authorization issued by CPCB.
- f) Concession to educational institutions, if any, should be clearly mentioned.
- g) Products conforming to particular standards (ISO, ISI etc.) should be clearly mentioned.
- h) In case any item is your proprietary product or if you are sole manufacturer / distributor of requisite item, a latest certificate to this effect should be enclosed.**
- i) In case company/firm is registered with GeM/any other Government organization/undertaking; should be clearly mentioned.
- j) It is at discretion of the competent authority to reject one/all tenders/part of tender without assigning any reason, thereof.
- k) In case seller fails to complete in full, all deliveries of product in accordance with supply order; the seller shall be responsible for the liquidity damages. Thereafter the buyer, will have right to terminate supply order in the case of such delay beyond period mentioned by seller in the offer and buyer will have total discretion to buy product from the market/other supplier at the lowest rate.
- l) An undertaking should be submitted by the concern/firm that rates quoted in this offer are lowest/at par with rates quoted to other Govt./Semi-Govt. institution in the country and the concern/firm has not sold the product to any other organization in India at lowest price than the price quoted in this offer.**
- m) Detailed Catalogue/Brochure/Manual should be submitted along with the offer necessarily.
- n) Debarment of the bidding firms shall be governed by Rule No. 151 of GFR 2017; Ministry of Finance, GOI, as mentioned below:
 - (i) A bidder shall be debarred if he has been convicted of an offence—
 - (a) under the Prevention of Corruption Act, 1988; or
 - (b) the Indian Penal Code or any other law for the time being in force, for causing any loss of life or property or causing a threat to public health as part of execution of a public procurement contract.

- (ii) A bidder debarred under sub-section (i) or any successor of the bidder shall not be eligible to participate in a procurement process of any procuring entity for a period not exceeding three years commencing from the date of debarment. Department of Commerce (DGS&D) will maintain such list which will also be displayed on the website of DGS&D as well as Central Public Procurement Portal.
- (iii) A procuring entity may debar a bidder or any of its successors, from participating in any procurement process undertaken by it, for a period not exceeding two years, if it determines that the bidder has breached the code of integrity. The Ministry/Department will maintain such list which will also be displayed on their website.
- (iv) The bidder shall not be debarred unless such bidder has been given a reasonable opportunity to represent against such debarment
- o) All the pages of hard copy of the offer should be endorsed along with the stamp/seal of the firm.
- p) It may kindly be noted that in case a firm quotes NIL charges/consideration, the bid shall be treated as unresponsive and will not be considered.
- q) **Equipments/instruments must be quoted with at least two years of warranty from the date of installation.** Warranty / Guarantee Clause needs to be mentioned necessarily wherever applicable.
- r) Detailed AMC conditions with price details should be furnished for next three years after the warranty period.
- s) Firm shall be required to submit the **EMD/Bid security amounting to Rs.10000/- or 2% of the Quoted Value pledged to Registrar, University of Jammu, Jammu. In the form of account payee DD, FDR, CDR Banker's cheque or bank guarantee from any of the commercial banks which should remain valid for 90 days from the date of NIT.**
- t) Firms which are exempted to submit the EMD/Bid security shall be required to submit certificate issued by the concerned Ministry/Department.
- u) Successful bidders shall be required to submit performance security amounting 5% of the equipment cost pledged to the Registrar, University of Jammu in the form of account payee DD, FDR, Banker's cheque or bank guarantee from any of the commercial banks which should remain valid for sixty days beyond the date of completion of all contractual obligations of the suppliers including warranty obligations.
- v) The purchase will be made on credit basis and the payment will be made after supply and acceptance, by bank transfer.
- w) **After sale service**/support in terms of availability of spares/consumables should be guaranteed for a period of minimum 10 years from the date of supply. A written commitment from the bidder should be submitted along with the bid. A complete set of printed documentation in English including reference manuals, technical diagrams and flow charts, electronic circuit diagrams and troubleshooting guide be also provided.
- x) **Tenders are invited under two bid system**
The supplier shall submit the tender in three envelopes. **The first envelope (Marked as Technical Bid)** shall contain all the documents mentioned below (a) to (i), and sealed.
 - a. A copy of the last audited balance sheet of your firm
 - b. Up-to-date Income-Tax clearance certificate from the Income-Tax Officer concerned, certifying that the bidder has cleared all the Income-Tax dues;
 - c. Proof of manufacturing unit/ Authorized dealer letter from the Principal OEM.
 - d. The names of the organizations and laboratories to which same equipment have been supplied preferably alongwith supply order in recent past;
 - e. GST Registration No.;
 - f. Undertaking duly signed by the bidder stating that authorized distributors/manufacturers/dealers has not ever been blacklisted/debarred;
 - g. Technical specifications offered by the supplier;
 - h. Technical compliance statement; and
 - i. All related Catalogue/Brochure/Manual should be submitted

The second envelope (Marked as Commercial/Financial Bid) shall contain the Schedule, in which the supplier shall register the rates of supply. The second envelope shall also, likewise, be sealed. Each page of the tender shall be signed in full and stamped with the seal by the supplier. **Both the envelopes then should be put together, and shall be sealed in a third envelope** which should be marked as, “Current-Voltage - Resistance measurement unit (Source Meter) ” alongwith enquiry number and date. The Technical Bid shall be opened first in the presence of tenderers who would like to be present during tender opening session. **The Technical Documents shall be opened in the office of the HOD, University of Jammu, at 01:00 pm on 24.02.2020.** Financial bids of only technically qualified tenderers shall be opened. If the Technical Bids are not in order or are deficient in some respect, the commercial bids in respect of such tenders shall not be opened and shall be returned back to the bidder. The date and time of opening the Financial bids shall be announced immediately after opening all the Technical bids.

- y) The delivery, installation and operational training of the instruments/equipment should be completed within 2 months from placing of the order in case of the imported equipment and within 1 months if the instrument/equipment is made in India.
- aa) Vendor shall ensure thorough installation, demonstration & relevant application training at the time of installation. Training for four persons for complete operation of the equipment should be provided on site.
- bb) **The Trained Technical operator** for the equipment for two years must also be provided by the Vendor and cost included in the tender.
- cc) It may kindly be noted that late offers received after stipulated date and time will not be taken into consideration and shall be considered as rejected. University of Jammu shall not take into account the delay caused in submission of offer due to any of the reasons after last date of submission of bids.
- dd) Any further changes in the details, like the date of opening or specification, will be posted on our web site only
- ee) Technical specifications of the required instruments/equipments/articles are given below:

Technical Specification of Equipments

	A	Name & Required Specification of the Item
S. No.	Name of Equipment	Specification
1.	Current-Voltage - Resistance measurement unit (Source Meter)	<ul style="list-style-type: none"> • Capabilities of analyzers, curve tracers, and I-V systems. • Five-inch, high resolution capacitive touch screens GUI. • 0.012% basic measure accuracy with 6½-digit resolution. • Enhanced sensitivity with new 20mV and 10nA sources/measure ranges. • Source and sink (four-quadrant) operation. • Four “Quickset” modes for fast setup and measurements. • Built-in, context-sensitive front panel help. • Front panel input banana jacks; rear panel input triaxial connections. • Scripting programming modes. • TSP programming • Front panel USB memory port for storing data, programming, instrument configurations, and to upgrade the unit • V-Ranges: 20 mV – 200 V, • R Ranges: 2 Ω –200 MΩ Resolution: 1μΩ –100Ω • I-Ranges: 10 nA – 1 A, 0.012% Basic Accuracy, Wideband Noise: 2 mVrms Typ. Sweep Types: Linear, Log, Dual Linear, Dual Log, Custom, Source-Memory, >250,000 Point Reading Buffer, >3000 Readings/Second, GPIB, USB, Ethernet (LXI) • Probes Supply along with instrument: Kelvin Clip lead Set, Low Cost Kelvin Clip Lead Set

TECHNICAL COMPLIANCE REPORT

	Name & Required Specification of the Item	Qty	Make & Model	Complied Yes/No	Deviation if any
A.		1			
1. Current-Voltage - Resistance measurement unit (Source Meter)	<ul style="list-style-type: none"> • Capabilities of analyzers, curve tracers, and I-V systems. • Five-inch, high resolution capacitive touch screen GUI. • 0.012% basic measure accuracy with 6½-digit resolution. • Enhanced sensitivity with new 20mV and 10nA sources/measure ranges. • Source and sink (four-quadrant) operation. • Four “Quickset” modes for fast setup and measurements. • Built-in, context-sensitive front panel help. • Front panel input banana jacks; rear panel input triaxial connections. • Scripting programming modes. • TSP programming • Front panel USB memory port for storing data, programming, instrument configurations, and to upgrade the unit • V-Ranges: 20 mV – 200 V, • R Ranges: 2 Ω –200 MΩ Resolution: 1μΩ –100Ω • I-Ranges: 10 nA – 1 A, 0.012% Basic Accuracy, Wideband Noise: 2 mVrms Typ. Sweep Types: Linear, Log, Dual Linear, Dual Log, Custom, Source-Memory, >250,000 Point Reading Buffer, >3000 Readings/Second, GPIB, USB, Ethernet (LXI) • Probes Supply along with instrument: Kelvin Clip lead Set, Low Cost Kelvin Clip Lead Set 				