



Institute of Infrastructure, Technology, Research And Management

(An Autonomous University Established by Government of Gujarat)

IITRAM Campus, Near Khokhra Circle,

Maninagar (East), Ahmedabad – 380026, Gujarat.

Contact No.: 079-67775430

E-mail: purchase@iitram.ac.in

Website: www.iitram.ac.in

Tender No.: 2023/33

Date: 30.11.2023

NOTICE INVITING TENDER

Important Information:

Name of Item(s):	Supply, Installation, Testing & Commissioning of 3-ph Power Quality Analyser (Including 04 voltage probes each of 1000 Vrms + 4 current probes each of 40 Arms) for Power Electronics Laboratory
Date of Issue of Tender	30.11.2023
Tender Fee	Rs.1770/- (Including 18% GST) (Non-Refundable)
Earnest Money Deposit(EMD)	Rs.18,000/- (Refundable)
Last date and time for online bid/offer submission	22.12.2023 till 06.00 pm
Last date and time for bid/offer physical document submission	27.12.2023 till 05:00 pm
Date & Time for opening of technical bid/offer	28.12.2023 at 11:30 am
Date & Time for opening of financial bid/offer	To be informed later through email <i>(Only technically qualified bidders will be informed)</i>
Tender Inviting Authority and Address	The Registrar Institute of Infrastructure, Technology, Research And Management Near Khokhara Circle, Maninagar (East), Ahmedabad – 380026, Gujarat, India. Phone: - 079-67775430 e-Mail: purchase@iitram.ac.in

Institute of Infrastructure, Technology, Research And Management

NOTICE INVITING TENDER

Subject: Inviting bids through e-Tender format for Supply, Installation, Testing & Commissioning of 3-ph Power Quality Analyser (Incl. 04 voltage probes each of 1000 Vrms + 4 current probes each of 40 Arms) for Power Electronics Laboratory

Institute of Infrastructure, Technology, Research And Management (IITRAM), Ahmedabad invites bids for **“Supply, Installation, Testing & Commissioning of 3-ph Power Quality Analyser (Including 04 voltage probes each of 1000 Vrms + 4 current probes each of 40 Arms) for Power Electronics Laboratory”** under “Two bid system in e-Tender format”. Interested parties/bidders who wish to participate in this e-Tender may obtain/download the tender documents from IITRAM website i.e. www.iitram.ac.in or from (n)Procure portal i.e., <https://educationtender.nprocure.com/>. After submission of online bid on (n)Procure portal, the bidder(s) have to submit the technical bid/offer documents through RPAD, Speed Post or in Person till the last date and time prescribed for submission. Tender sent by other means will not be accepted in any case. Hardcopy of Technical Bid Documents, Tender Fee, EMD and other essential documents should be submitted on or before **27.12.2023 till 05:00 PM** in the office of the IITRAM Room No. G2, Near Khokhara Circle, Maninagar (East), Ahmedabad-380026, Gujarat. Financial bid is to be submitted in electronic form only on (n)Procure portal i.e., <https://educationtender.nprocure.com/>.

1. Eligibility Criteria:

- 1.1 The bidder should have valid PAN Card. Copy of PAN Card to be submitted.
- 1.2 The bidder should have valid GST Registration. Copy of GST Registration to be submitted.
- 1.3 The bidder has to submit (Photocopies) last three years Income Tax Returns.
- 1.4 The bidder has to submit (Photocopies) the Firm Registration Certificate.
- 1.5 The bidder has to submit the Authorization Letter from the Original Equipment Manufacturer (OEM) on OEM's letter head (in original).

2. General Terms and Conditions:

- 2.1 The quoted price shall include taxes (if any), other levy payable, all freight, packing & forwarding, transportation, loading & unloading, custom duty, excise duty & other duties, other charges (if any) to supply the item(s)/goods at our site.
- 2.2 Rates quoted also shall include training, installation, commissioning, erection and demonstration of item(s)/goods at our site.
- 2.3 The items for which quotation have been submitted must be in accordance with the specifications given in **Annexure-I**.
- 2.4 The rates quoted by the firm shall be fixed for the duration of the contract and shall not be subject to adjustment on any account.
- 2.5 The offer shall be valid up to 90 (ninety) days from the date of opening of Technical bid/offer.
- 2.6 The tender is liable to be rejected if complete information is not given therein or if the particulars and date (if any) asked for in the scheduled tender are not fully filled in. Particular attention must be paid to delivery date and also to the particulars referred to in the condition of the contract.
- 2.7 Financial bids will be opened in online format of technically qualified firms only.
- 2.8 Tender not complying with the above conditions are liable to be rejected at the sole discretion of IITRAM without any further reference/ communication.
- 2.9 This tender is not transferable.

- 2.10 IITRAM reserves its right to choose, accept or reject any or all requests/deviations/offers, in full or part and also reserve the right at any stage to reduce or increase the quantity and split the order.
- 2.11 The bidder has to submit duly signed & stamped photocopy of following documents:
- PAN Card of the firm
 - GST Registration Certificate
 - Last three years Income Tax Return (ITR) of their firm
 - Valid Firm Registration Certificate
 - Authorization Letter from the Original Equipment Manufacturer (OEM) on OEM's letter head (in original)
 - Warranty certificate from Original Equipment Manufacturer (OEM) on OEM's letter head (in original)
 - All relevant Annexure(s)
- 2.12 **Performance Security:** The successful bidder shall be required to deposit Performance Security in form of (i) Account Payee Demand Draft (ii) Fixed Deposit Receipt from a Nationalized bank (iii) Bank Guarantee from a Nationalized bank, at the rate of 5% of the total cost of contract, for the duration of warranty period plus additional two months, in favor of **"Institute of Infrastructure, Technology, Research And Management"** from the date of installation of ordered item(s)/goods. No payment shall be released without performance security.
- 2.13 This Performance Security will be returned (without any interest) within 30 working days after satisfactorily completion of warranty period.
- 2.14 The successful bidder shall have to enter into the Agreement (Contract Form) in the prescribed Performa provided by IITRAM. (on Rs.300 Stamp Paper). The said agreement should be submitted by the respective bidder within 30 (thirty) days after the receipt of the contract/purchase order.
- 2.15 **Inspection:** Pre-dispatch inspection at Bidders site or inspection after the delivery of goods, as the case may be.
- 2.16 **Inspection Charges** @0.5% within Gujarat State and Inspection Charges @1% for outside Gujarat State of the total order value, if required, should be borne by the bidder.
- 2.17 All or any Claim(s), dispute(s) or difference(s) arising out of or in with connection with this agreement shall be subject to the jurisdiction of the Courts at Ahmedabad only.
- 2.18 If any civil work is required to be done for installation and commissioning of the ordered item(s)/goods, then the supplier shall arrange the essential drawing. For this, prior permission of IITRAM's authority is required. The cost of such work is to be borne by the supplier.
- 2.19 Any loss or damage caused to the article in transit/installation/testing is to be made up by the firm free of cost within period of 30 days.
- 2.20 Standard toolkit required for the item(s)/goods to be supplied.
- 2.21 If the firm is blacklisted by Central Government or State Government or any other Government body, then the submitted tender will be rejected. It is essential for firm to submit **Annexure- V** duly filled, signed, sealed & stamped manner in hardcopy, failing which the tender will be summarily rejected.
- 2.22 If there happens to be a holiday on any date indicated in this tender notice, the transaction shall be performed on the next working day.
- 2.23 In case the tender is cancelled, the tender fee will not be refunded to the concerned bidder.
- 2.24 The tender/bid (i.e. technical bid/offer) will be opened on **28.12.2023, 11:30 am** at IITRAM Ahmedabad Premises. No separate information shall be given to individual bidders.
- The bidders or their authorized representative may remain present during the opening of the Technical bid, if they desire so, at their own expenses. The required technical specifications for the cited item(s)/goods is mentioned in Annexure-I.
 - Only those financial bids will be opened whose technical offers/bids are found suitable by the expert panel/committee appointed for the concerned item(s)/goods. The respective dates for opening of financial bid shall be informed to the technically qualified bidder(s) through email only.
 - In incomparable situation, the committee may negotiate price with the technically and financially qualified bidder before awarding the offer.

- The tender committee reserves its right to select or reject any or all of the item(s) mentioned above without assigning any reasons.
- 2.25 If the bidder fails to meet any of the above eligibility criteria/ fails to submit the adequate testimonials in support of the above mentioned requirement will be disqualified.
- 2.26 Any effort by a bidder to influence IITRAM's tender evaluation, tender comparison or contract/order award decisions may result in the rejection of the bidder's tender and forfeiture of the bidder's EMD.
- 2.27 After opening of bids, information relating to the examination, clarification, evaluation and comparisons of bids and recommendations concerning the award of contract shall not be disclosed to bidders or other persons not officially concerned with such process.
- 2.28 In the event of any dispute or difference(s) between the vendee (IITRAM Ahmedabad) and the bidder(s) arising out of non-supply of material or supplies not found according to the specifications or any other cause whatsoever relating to the supply or purchase order before or after the supply has been executed, shall be referred to the concerned authority of IITRAM Ahmedabad who may decide the matter himself or may appoint arbitrator(s) under the arbitration and conciliation Act 1996. The decision of the arbitrator shall be final and binding on both the parties.
- 2.29 No firm shall withdraw their rates after the Tender is opened. If a firm does so, their tender related deposit/s shall be forfeited and such firm shall be considered ineligible for work/contract in future.

3. Submission of bid:

- 3.1 The Tender documents can be downloaded from Institute's website i.e., www.iitram.ac.in or (N)Procure portal i.e., <https://educationtender.nprocure.com/>. The bidder(s) are required to submit the Tender Acceptance Letter (**Annexure - IV**) endorsed by seal and signature as acceptance of terms and conditions of this tender. Incomplete tenders, amendments and additions to tender after opening or late tenders are liable to be ignored and rejected.
- 3.2 The fully filled in and complete in all respect tender must be submitted with Tender Fee and EMD through Electronic Transfer / Demand Draft. Bank/DD details are as follows:

For Electronic Transfer, Bank Account details are as follows:

Account Name:	Institute of Infrastructure, Technology, Research And Management
Account No.:	923010019592531
Bank Name:	AXIS BANK LTD
IFSC Code:	UTIB0002645
Branch Name:	Hatkeshwar Ahm GJ, Ahmedabad - 380026

Note: Kindly submit Electronic Transfer advise with UTR details along with bid document.

OR

Demand Draft in favor of the "INSTITUTE OF INFRASTRUCTURE, TECHNOLOGY, RESEARCH AND MANAGEMENT" payable at Ahmedabad. Please mention Tender number and name of the firm on back side of DD.

- 3.3 Bidders registered with Micro and Small Enterprises (MSEs) and having valid MSE Certificate will be considered for relaxation of EMD. In view of the above, if the bidder will claim for EMD exemptions, the bidder should meet all the criteria for Micro and Small Enterprises. The bidder must submit the supporting document i.e. MSME registration certificate issued by competent government bodies (i.e. issued by Government of Gujarat & Government of India only) to become eligible for the EMD exemptions. The registration certificate (MSE) of the bidder must cover the items tendered to get EMD exemptions.
- 3.4 The EMD is refundable (without any interest) within 30 (thirty) working days after successful award of Purchase Order:
- 3.4.1 EMD of unsuccessful bidder(s) will be returned within 30 (thirty) working days from the date of award of offer/contract.
- 3.4.2 EMD of successful bidder(s) will be returned within 30 (thirty) working days after submission of a Performance Security.
- 3.4.3 The EMD shall be forfeited:

- If bidder(s) withdraws their bid during the period of bid validity specified in this tender notice; and/or
 - In case of a successful Bidder fails, (i) To sign the contract agreement and (ii) To furnish a performance security
- 3.5 The firm has to submit the Tender in two parts viz., (a) Technical bid/offer in *envelop No. (1)* and (b) Tender Fee & EMD in *envelope No. (2)*; both these envelopes should be sealed and put together in a *main covering envelope*, super scribed with – Please Don't Open, Bid for “*Tender for Supply, Installation, Testing & Commissioning of 3-ph Power Quality Analyser (Including 04 voltage probes each of 1000 Vrms + 4 current probes each of 40 Arms) for Power Electronics Laboratory*” with due date, Tender Number and complete address along with contact number and email id.
- 3.6 **The bidder has to specify the make, model, and detailed technical specifications of the quoted/offered item and attach a separate compliance sheet if any deviation compares to the technical specifications mentioned in Annexure-I. Mere copying of the expected technical details into the product details will not be entertained and may even lead to disqualification of the bidder.**
- 3.7 **The bidder must produce the brochure, model and the make of the product being offered.**
- 3.8 It is essential for firm to submit **ANNEXURE(s), Tender documents and other essential documents** as mentioned in this tender notice **with duly filled, signed, sealed & stamped manner in hardcopy**, failing which that bidder's/firm's tender will be summarily rejected.
- 3.9 The “**Financial Bid**” to be filled as per **ANNEXURE – ‘III’** and **should be submitted online only at (n)Procure Portal** as ‘Financial Bid’. Rates quoted ‘ONLINE’ will only be considered.

4. Evaluation of Quotations:

The tender evaluation committee of the IITRAM will evaluate and compare the received quotations/bids to determine the substantially responsive tender i.e. (i) tender is complete (ii) properly signed (iii) confirm the terms/conditions and specifications. Further, the financial evaluation will be done only for the substantially responsive tender based on the following parameter(s):

- Total price quoted (ONLINE) at (n)Procure portal as Financial Bid

5. Award of Contract:

- 5.1 IITRAM will award the contract to the firm who has offered lowest price.
- 5.2 Notwithstanding the above, IITRAM reserves the right to accept or reject any quotation and to cancel the bidding process and reject all quotations at any time prior to the award of contract without giving any reason.
- 5.3 The firm whose bid is accepted will be notified of the award of contract by the IITRAM prior to expiration of the bid validity period. The terms of the accepted offer shall be incorporated in the Purchase Order.

6. Delivery Period & Penalty:

- 6.1 **Delivery Period:** The item(s)/goods are to be delivered within a maximum time limit of 90 days from the issue date of Purchase Order. However, in case of imported item(s)/goods can be delivered within a maximum time limit of 120 days from the issue date of Purchase Order.
- 6.2 After the receipt of ordered item(s)/goods in acceptable condition at IITRAM, Ahmedabad bidder has to install item(s)/goods within 30 (thirty) days.
- 6.3 **Penalty:** Penalty of 1% per week of order value will be charged after duration specified above individually. Further, 06 weeks or above delay from above mention days may lead to cancellation of order at the discretion of the university and forfeiting the Performance Security or EMD or Maximum penalty shall be applicable @10%.

7. Warranty:

- 7.1 Minimum Two (02) years complete warranty (including 01 year on accessories & 06 months on battery) from the date of complete installation, commissioning and erection of all item(s)/goods at our site.

- 7.2 Warranty certificate should be provided from Original Equipment Manufacturer (OEM) on OEM's letter head.

8. Terms of Payment:

- 8.1 **Payment:** 100% payment shall be released within 30 (thirty) working days on satisfactory receipt, installation and commissioning of the ordered item(s)/goods at our site, submission of clear Tax-Invoice(s) and supporting documents.
- 8.2 Advance payment will not be made under any circumstances.
- 8.3 Recoveries as per the Institute's norms shall be made while making payment (if any) without prior intimation to the supplier.

9. Address for the submission of bid/offer documents:

The Registrar
Institute of Infrastructure, Technology, Research And Management
Room No. G2,
Near Khokhara Circle, Maninagar (East),
Ahmedabad- 380026, Gujarat, INDIA.
Email: purchase@iitram.ac.in

Registrar

(Schedule of Quantity)

Name of Item(s): **Supply, Installation, Testing & Commissioning of 3-ph Power Quality Analyser (Incl. 04 voltage probes each of 1000 Vrms + 4 current probes each of 40 Arms) for Power Electronics Laboratory**

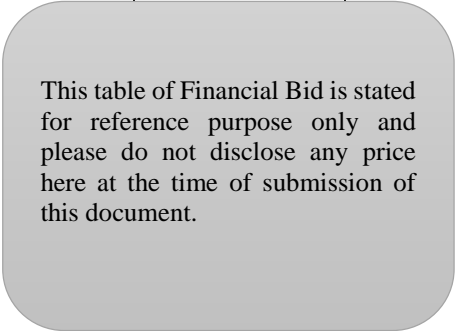
Name of Item & Specifications		Qty.
Name of Item	3-ph Power Quality Analyser (Incl. 04 voltage probes each of 1000 Vrms + 4 current probes each of 40 Arms)	01 Nos.
Preferred Make	Fluke, Yokogawa or Hioki	
Voltage Inputs		
Number of Inputs	4 (3 phases and neutral)	
Maximum Input Voltage	1000 Vrms (1700 Vpk) phase to neutral	
Maximum Resolution	0.1 V	
Accuracy	±(0.2 % + 0.01 %)	
THD on Voltage/Accuracy	1000%/±(2.5 % + 0.05 %)	
Input Impedance	10 MΩ each phase to neutral	
Bandwidth	42.5 Hz – 3.5 kHz	
Scaling	1:1, variable	
Current Inputs		
Number of Inputs	4, mode selected automatically for attached sensor	
Range	40 mA to 4 A/ 0.4 A to 40 A with 40 A clamp	
Maximum Resolution	1 mA	
Accuracy	(0.7 % + 0.02 %)	
THD on Current/Accuracy	1000%/±(2.5 % + 0.05 %)	
Bandwidth	42.5 Hz – 3.5 kHz	
Scaling	1:1, variable	
Frequency		
Range	42.5 Hz to 69 Hz	
Maximum Resolution	0.01 Hz	
Accuracy	±0.1 %	
Power/Energy		
Power Range W, VA, var	4 kW / 40 kW	
Max. Resolution W, VA, var	1 W / 10 W	
Max. Resolution PF, DPF	0.01	
Data Acquisition		
Resolution	16-bit synchronous sampling	
Sampling Frequency	10.24 kHz at 50/60 Hz, synchronized to mains frequency	
Input Signal Frequency	50/60 Hz (42.5 Hz to 69 Hz)	
Wiring Configurations	1-Φ, 1-Φ IT, Split phase, 3-Φ wye, 3-Φ wye IT, 3-Φ wye balanced, 3-Φ delta, 3-Φ Aron/Blondel (2-element delta), 3-Φ delta open leg, 3-Φ high leg delta, 3-Φ delta balanced. Currents only (load studies)	
Data Storage	Internal flash memory (not user replaceable)	
Memory Size	Typical 10 logging sessions of 8 weeks with 1-minute intervals and 100 events. The number of possible logging sessions and logging period depends on user requirements	
Measured Parameter	Voltage, Current, Aux, Frequency, THD V, THD A, Power, Power Factor, fundamental Power, DPF, Energy	
Averaging Interval	User selectable: 1 sec, 5 sec, 10 sec, 30 sec, 1 min, 5 min, 10 min, 15 min, 30 min	
Total Harmonic Distortion	THD for voltage and current is calculated on 25 harmonics	
Averaging time min/max values		
Voltage	Full cycle RMS (20 ms at 50 Hz, 16.7 ms at 60 Hz)	
Current	Half cycle RMS (10 ms at 50 Hz, 8.3 ms at 60 Hz)	
Demand Interval		
Measured Parameter	Energy (Wh, varh, VAh), PF, Maximum Demand, Cost of Energy	

Averaging Interval	User selectable: 5 min, 10 min, 15 min, 20 min, 30 min, off
Power Quality Measurements	
Measured Parameter	Voltage, Frequency, Unbalance, Voltage Harmonics, THD V, Current Harmonics, THD A, and TDD
Averaging Interval	10 min
Individual Harmonics	2nd to 50th
Total Harmonic Distortion	Calculated on 50 harmonics
Events	Voltage: Dips, Swells, Interruptions Current: Inrush Current
Standards Compliance	
Harmonics	IEC 61000-4-7: Class 1
Power Quality	IEC 61000-4-30 Class S, IEC62586-1 (PQI-S device)
Power	IEEE 1459
General Specifications	
Interfaces	USB-A, WiFi, Bluetooth
Color LCD Display	4.3-inch active matrix color TFT, 480 pixels x 272 pixels, resistive touch panel
Warranty	2 Year on main unit. 1 year on accessories. 6 months on battery.
Operating Temperature	-10 °C to +50 °C
Storage Temperature	-20 °C to +60 °C
Operating Altitude	2000 m (up to 4000 m derate to 1000 V CAT II/600 V CAT III/300 V CAT IV)
Storage Altitude	12 000 m
IP Rating	IEC 60529:IP50, in connected condition with protection caps in place
Vibration	MIL-T-28800E, Type 3, Class III, Style B
Clamp-on Current Transformer suitable for measurements up to 40 A current with 10 mA resolution and 0.7% of reading accuracy; suitable for measuring accurately on 1A & 5A secondary CTs. Jaw suitable for clamping on current conductors up to 15mm in diameter.	

FINANCIAL BID

(Format for Submission of Financial Details)

(Data Sheet to be submitted ONLY Online at (n)Procure Portal)

Sr. No.	Name of Item(s)	Unit	Qty.	Rate (Without GST)	Total Amount (INR)	GST Slab Rate (%)
A	B	C	D	E	F = (D*E)	G
1.	3-ph Power Quality Analyser (Incl. 04 voltage probes each of 1000 Vrms + 4 current probes each of 40 Arms)	Nos.	01.00			

Declaration:

I/We hereby declare and affirm that I/We have read and understood the terms and conditions of the contract as stipulated in this tender notice.

Seal & Signature of Company

Date: _____

Place: _____

*(To be printed on firm's letterhead)***FORMAT FOR SUBMISSION OF BIDDER'S INFORMATION**

1	Registered Name of the Bidder:	
2	Registered Office Address: Contact Number Fax Number E-Mail	
3	Correspondence Address: Contact Number Fax Number E-Mail	
4	Details of the authorized person: (Name, Designation, Address) Contact Number Fax Number E-Mail	
5	Bidder Registration Type - <ul style="list-style-type: none"> • Proprietary Firm • Partnership Firm (if yes, give partnership deed) • Company or LLP • Government/ Public Sector Undertaking • Member of a group of companies (if yes, give name, address & details of group companies) • Subsidiary of a large corporation (if yes, give the name & address of the parent organization) If the company is subsidiary, state what involvement will the parent company have in the project. 	
6	Permanent Account Number (PAN):	
7	Goods & Service Tax Number (GST):	
8	<u>Particulars of Bank Account</u> Name of the Bank: Name of the Branch: Branch Code: Address & Contact Details: IFSC Code: Type of Bank Account: Bank Account No.:	

Seal & Signature of Company**Date:** _____**Place:** _____

(To be printed on firm's letterhead)

TENDER ACCEPTANCE LETTER

To,
The Registrar
Institute of Infrastructure, Technology, Research And Management
Near Khokhra Circle, Maninagar (East),
Ahmedabad – 380026, Gujarat.

Subject: **Acceptance of Terms & Conditions of the Tender**

Tender Reference No:

Name of Tender / Work: **Supply, Installation, Testing & Commissioning of 3-ph Power Quality Analyser (Including 04 voltage probes each of 1000 Vrms + 4 current probes each of 40 Arms) for Power Electronics Laboratory**

Dear Sir,

1. I/We have downloaded/obtained the tender document(s) for the above mentioned "Tender/Work" from the web site(s) namely: _____
2. I/We hereby certify that I/we have read the entire terms and conditions of the tender documents (including all documents like annexure(s), schedule(s), etc.), which form part of the contract agreement and I/we shall abide hereby by the terms / conditions / clauses contained therein.
3. The corrigendum(s) issued from time to time by your department / organizations too have also been taken into consideration, while submitting this acceptance letter.
4. I/We hereby declare that I/We have carefully studied the conditions of contract, specifications and other tender documents of this work and unconditionally accept the tender conditions of above-mentioned tender document(s) / corrigendum(s) in its totality / entirety.
5. I/We do hereby declare that our Firm has not been blacklisted/ debarred by any Govt. Department/Public sector undertaking/Govt. Autonomous organizations.
6. I/We certify that all information furnished by our Firm is true & correct and in the event that the information is found to be incorrect/untrue or found violated, then your department/ organization shall without giving any notice or reason therefore can summarily reject the bid or terminate the contract, without prejudice to any other rights or remedy including the forfeiture of the full EMD/SD absolutely.

Yours faithfully,

(Signature of the Bidder, with Official Seal)

(To be printed on firm's letter head)

UNDERTAKING

I, _____ hereby declare that Firm / Company / Agency / Organization / Partnership firm / Proprietary firm titled as _____ has not been blacklisted or banned or debarred at any stage from inception till this date by any of the NITs / IITs / IIITs / Central Universities / IISERs / CSIR Labs Central and State Government body / PSUs / Autonomous Institute or any Other Government Organization. In case of the any fraudulency, the Firm / Company / Agency / Organization / Partnership firm / Proprietary firm is fully aware that the tender / contract will be rejected / cancelled by IITRAM and EMD / Performance Security or any deposited amount shall be forfeited.

In addition to above, IITRAM will not be responsible to pay the bills for any completed / partially completed/supplied work.

Seal and Signature of Company

Date: _____

Place: _____