

**NOTICE INVITING ENQUIRY FOR ANNUAL MAINTENANCE AND
OPERATION OF SUB-STATION AND D.G. SETS INCLUDING INTERNAL &
EXTERNAL ELECTRICAL INSTALLATION, WATER SUPPLY PUMP SET, FIRE
FIGHTING EQUIPMENTS, PLUMBING SYSTEM ETC AT TRANSIT CAMPUS
OF IIT PALAKKAD**

Tender No. IITPKD/EWD/TRAN/ 044 /2018-19

Date of issue: 30.01.2019

Date of closing: 20.02.2019, 1500 hrs



IIT PALAKKAD

**Indian Institute of Technology Palakkad
Ahalia Integrated Campus,
Kozhipara, Palakkad – 678 557.**

Indian Institute of Technology Palakkad invites sealed tender under Two-Bid System for **Annual Maintenance and Operation of Sub-station and D.G. Sets including internal & external electrical installation, water supply pump set, fire fighting equipments, plumbing system etc at Transit campus of IIT Palakkad**. The tender documents may be obtained from the Office of the **Registrar, IIT Palakkad, Ahalia Integrated Campus, Kozhipara, Palakkad -678 557** or downloaded from The <https://iitpkd.ac.in/tenders> and <https://eprocure.gov.in/cppp/>. Supply of tender documents will close on the last working day at **1500 hours** before the last date for submission of the tenders.

The Eligibility Bid and the Financial Bid shall be sealed by the bidder in separate covers duly superscribed as **Annual Maintenance and Operation of Sub-station and D.G. Sets including internal & external electrical installation, water supply pump set, fire fighting equipments, plumbing system etc at Transit campus of IIT Palakkad** and both these sealed covers are to be put in a bigger cover which should also be sealed and duly superscribed as **Tender for Annual Maintenance and Operation of Sub-station and D.G. Sets including internal & external electrical installation, water supply pump set, fire fighting equipments, plumbing system etc at Transit campus of IIT Palakkad, Tender No. IITPKD/EWD/TRAN/044/2018-19**. The eligibility documents should be kept inside the Eligibility Bid sealed envelope and the financial bid duly filled-in downloaded format (Annexure-I – Schedule of Quantity) should be kept inside the Financial Bid sealed envelope. The bids shall reach **Registrar, IIT Palakkad, Ahalia Integrated Campus, Kozhipara, Palakkad -678 557** by post or by hand latest by **20.02.2019 at 1500 hours**.

Bids received after due date/time will not be considered under any circumstances. Canvassing in any form will result in the disqualification of the bidder. Bids sent by fax/email will not be considered. To avoid any complications with regard to Late Receipt/Non Receipt of bids, it may please be noted that responsibility rests with the bidder to ensure that the bids reach the above mentioned address on or before the due date.

Events	Date & Time
Date of Publication of Tender Ddocument	30.01.2019
Date/Time of Submission of Bids	20.02.2019, 1500 hours
Date/Time of Opening of Eligibility Bids	20.02.2019, 1515 hours

Instructions to Bidders including Terms and Conditions

1. Scope of Bid

1.1. Indian Institute of Technology Palakkad hereinafter called “**Owner**”, invites bid for **Annual Maintenance and Operation of Sub-station and D.G. Sets including internal & external electrical installation, water supply pump set, fire fighting equipments, plumbing system etc at Transit campus of IIT Palakkad**

2. Cost of Bidding

2.1. The Bidder shall bear all costs associated with the preparation and submission of its bid and the Owner shall in no case be responsible or liable for those costs regardless of the conduct or outcome of the bidding.

3. Tender Document

3.1. The Tender Document is not transferable.

3.2. The bidder shall make a copy of the tender document before submitting the same to the concerned office. No requests will be entertained for making a copy after the submission of the document.

4. Clarifications in Tender Document

4.1. The Owner will respond to any request for clarification or modification of the Tender Document that are received up to **FIVE (05) days** prior to the deadline for submission of bids prescribed by the Owner. For this purpose, the prospective Bidder(s) requiring clarification in the Tender Document shall notify the Owner in writing at the Owner’s address.

4.2. Copies of the Owner’s response including the explanation of the query raised by the Bidders will be uploaded in the website for reference to all the Bidders who have downloaded the Tender Document. Further, it will be assumed that the Bidder has taken into account such clarifications/explanations while submitting the bid.

5. Amendment of Tender Document

5.1. At any time prior to the deadline for submission of bids, the Owner may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective Bidder, modify the Tender Document by way of amendment(s).

5.2. Amendments will be uploaded in the website and shall be binding on them. Further, it will be assumed that the Bidder has taken into account such amendments while submitting the bid.

6. Language of Bid

6.1. The bid prepared by the Bidder and all correspondence and documents related to the tender exchanged by the Bidder and the Owner shall be in English and the Contract shall be construed and interpreted in accordance with that language.

6.2. If any of the brochures, leaflets or communication is prepared in any language other than English, a translation of such document, correspondence or communication shall also be provided at the cost and risk of the bidder. The translation so provided shall prevail in matters of interpretation. The bidder, with respect to such documents, correspondence, and communications, shall bear the costs and risks of such translation.

7. Documents Comprising the Bid : All bids must be substantially responsive and shall comprise the following:

7.1. Eligibility Bid:

- a.** The agencies having the experience of operation and maintenance of substation, DG set internal electrical installation streetlight etc of Buildings/Colony
- b.** Copy of valid Electrical licence.
- c.** Earnest Money Deposit (EMD) put in a sealed cover.

- d. Separate envelopes for eligibility as well as financial bid sealed and put together in a sealed cover. EMD should be in a sealed envelope.**
- e. Documents establishing conformity of the Equipment to the Tender Document;
- f. Bidder's company related information. The bidder should furnish photocopies of the PAN, GST and TIN.
- g. Copy of Tender Document marked "Original" with each page signed and stamped to acknowledge acceptance of the same;
- h. The vendor must have a registered office in South India (Kerala/ Tamilnadu / Karnataka/ Andhra Pradesh/ Telengana) with trained personnel. Details of the same must be provided.
- i. Any other information, which the Bidder wishes to provide.

7.2. Financial bid:

- a. The bidder shall download Annexure I, II & III from the website, quote the rate for and amount in the Annexure I. All the pages of Annexures should be signed and enclosed in the envelop as detailed above.
- b. Price shall be inclusive of all taxes.

8. Format and Signing of Bid

8.1. The bid shall be typed or written in indelible ink and shall be signed by the Bidder or a person or persons authorized. All pages of the bid shall be numbered and except for unamendable printed literature, shall be initialised by the person or persons signing the bid.

8.2. The bid shall not contain any internalisations, erasures, or overwriting, except to correct errors made by the Bidder, in which case the person or persons signing the bid shall initial such corrections.

9. Sealing and Marking of Bids

9.1. The Bidder shall seal the bid in an envelope.

9.2. The envelope shall be addressed to **The Registrar, IIT Palakkad, Ahalia Integrated Campus, Kozhipara, Palakkad – 678 557.**

(a) bear the reference number, the title of the Tender Document and

(b) bear the name and address of the Bidder so that the bid can be returned unopened in case it is declared late.

9.3. If the outer envelope is not sealed and marked as required above, the Owner will assume no responsibility for the bid's misplacement or premature opening.

9.4. Cable/Facsimile or Fax/conditional Bids shall be rejected.

10. Earnest Money Deposit (EMD)

10.1. The Bidder shall furnish, as part of its bid, an **EMD @ 2% (ie, Rs.41,489/-) on estimated cost of Rs.20,74,464/-** and that shall be interest free.

10.2. The EMD shall be in the form of a demand draft drawn in favour of **INDIAN INSTITUTE OF TECHNOLOGY PALAKKAD** and payable at **PALAKKAD**

10.3. Any bid not accompanied with the EMD shall be rejected by the Owner as non-responsive.

10.4. The successful bidder's bid security will be returned as promptly as possible, but not earlier than fifteen (15) days after the successful Bidder has furnished the required performance security.

10.5. The EMD may be forfeited under the following circumstances:

(a) If a Bidder:

1. Withdraws its bid during the period of bid validity specified on the Bid Form or

(a) In the case of the successful Bidder, if the Bidder fails to:

(i) Sign the Contract or

(ii) Furnish performance security.

11. Period of Validity of Bids: Bids shall remain valid for a period of 180 days after the date of deadline for submission of bids prescribed by the Owner.

12. Deadline for Submission of Bids

12.1. Bids must be received by the Owner at the address specified not later than the time and date as stated. In case this date happens to be a declared holiday for the office of the Owner or happens to be a holiday declared incidentally, the Bids shall be received up to the appointed time on the next working day.

12.2. The Owner may, at its discretion, extend this deadline for submission of bids in which case all rights of the Owner and all obligations of the Bidders will thereafter be subject to the deadline as extended.

13. Late Bids: Any bid received by the Owner after the bid submission deadline prescribed by the Owner, shall be rejected and returned unopened to the Bidder.

14. Modification and Withdrawal of Bids

14.1. The Bidder may modify or withdraw the bid after submission provided a written notice of the modification or withdrawal is received by the Owner prior to the deadline prescribed for bid submission.

14.2. The Bidder's modifications shall be prepared, sealed, marked and dispatched as follows:

(a) The Bidders shall provide the modification to its bid, clearly identified as such, in an envelope duly marked **BID MODIFICATION**.

14.3. A Bidder wishing to withdraw the bid shall notify the Owner in writing prior to the deadline prescribed for bid submission. The withdrawal notice shall:

(a) be addressed to the Owner at the specified address and

(b) bear the reference number and the title of the project, and the words **BID WITHDRAWAL NOTICE**. Bid withdrawal notices received after the bid submission deadline will be ignored and the bid submitted prior to that will be deemed to be a valid bid.

14.4. No Bid may be modified subsequent to the deadline for submission of Bids.

14.5. No bid may be withdrawn in the interval between the bid submission deadline and the expiration of the bid validity period. Withdrawal of a bid during this interval may result in the forfeiture of the Bidder's EMD.

15. Opening and Examination of Bids

15.1. The Eligibility bids will be opened on the prescribed date and time as mentioned in the Bid document. Bidders or their representative may be present during the opening of Eligibility bid, if they wish to be present.

15.2. The Owner will evaluate the Eligibility bids. Those bids, whose Eligibility bids fulfill the technical requirements and responsive to the tender requirements will be considered. Those bids which found to be either non-responsive, not satisfying the technical requirements or both will not be considered and will be rejected.

15.3. The Price bids of the successful bidders on the basis of evaluation as mentioned in will be considered for the next stage for opening.

15.4. The Owner will examine the bids to determine whether they are complete, whether any computational errors have been made, whether required security has been furnished, whether the documents have been properly signed and whether the bids are generally in order.

15.5. Arithmetical errors will be rectified on the following basis. If there is a discrepancy between the unit price and the total price, which is obtained by multiplying the unit price and quantity, or between subtotals and the total price, *the unit or subtotal price shall prevail* and the total price

shall be corrected. If there is a discrepancy between words and figures, *the amount in words shall prevail*. If a Bidder does not accept the correction of errors, the bid will be rejected and its EMD may be forfeited.

15.6. The Owner may waive any minor nonconformity or irregularity in a bid that does not constitute a material deviation, provided such waiver does not prejudice or affect the relative ranking of any Bidder.

15.7. Prior to the detailed evaluation, the Owner will determine whether each bid is complete and is substantially responsive to the Tender Document. For purposes of this determination, a substantially responsive bid is one that conforms to all the terms, conditions and specifications of the Tender Document without material deviations, exceptions, objections, conditionality or reservations. A material deviation, exception, objection, conditionality, or reservation is:

(a) One that limits in any substantial way the scope, quality, or performance of the Equipment;

OR

(b) One that limits, in any substantial way that is inconsistent with the Tender Document, the Owner's rights or the successful Bidder's obligations under the Contract: and

(c) One that the acceptance of which would unfairly affect the competitive position of other Bidders who have submitted substantially responsive bids.

15.8. If a bid is not substantially responsive, it shall be rejected by the Owner and may not subsequently be made responsive by the Bidder by correction of the nonconformity.

The Owner's determination of bid responsiveness will be based on the contents of the bid itself and any written clarifications submitted by the Bidder.

16. Clarification of Bids: During the bid evaluation, the Owner may, at its discretion, ask the Bidder for a clarification of its bid. The request for clarification and the response shall be in writing, and no change in the price or substance of the bid shall be sought, offered or permitted.

17. Evaluation of Responsive Bids: The Owner will evaluate the bids that have been determined to be substantially responsive.

18. Contacting the Owner

18.1. From the time of bid opening to the time of Contract award, if any Bidder wishes to contact the Owner on any matter related to the bid, it shall do so in writing.

18.2. If a Bidder tries to directly influence the Owner or otherwise interfere in the bid evaluation process and the Contract award decision, his bid shall be rejected.

19. Award Criteria

19.1 Owner will award the Contract to the Bidder whose bid has been determined to be substantially responsive and the Lowest Quote Evaluated Bid.

20. Owner's Right to Accept/Reject/Modify Bids

20.1. The Owner reserves the right to accept or reject any bid or to annul the bidding process and reject all bids at any time prior to Contract award, without thereby incurring any liability to the Bidders.

20.2. The Owner reserves the right to negotiate with the Bidder having the Lowest Evaluated Bid.

21. Award of Work Order

21.1. Prior to the expiration of the period of bid validity, the Owner will issue the Letter of Intent / Work Order to the successful Bidder in writing.

21.2. The Work Order will constitute the foundation of the Contract.

21.3. Upon the successful Bidder's furnishing of the copy of the Work Order duly signed on each page and the Performance Security.

22. Contract Agreement

22.1. Within fifteen (15) days of receipt of the Work Order, the successful Bidder shall sign and date its copy on each page and return it to the Owner, along with the Performance Security.

22.2. Copy of Work Order duly signed and dated by the successful Bidder on each page shall constitute the Contract Agreement.

23. Performance Security

23.1. Within fifteen (15) days of receipt of notification of award from the Owner, the successful Bidder shall furnish the performance security equal to 5% of the Contract value (excluding the value of annual maintenance charges). **The Performance Security will be valid all along the warranty period and shall extend up to sixty (60) days after the date of completion of work.**

23.2. The security shall be in one of the following forms:

(a) A bank guarantee (in the format as provided in **Annexure** of the bidding documents) issued by the Indian Scheduled bank acceptable to the Owner.

(b) A Demand Draft favouring, **INDIAN INSTITUTE OF TECHNOLOGY PALAKKAD** payable at PALAKKAD.

23.3. The security shall automatically become null and void once all the obligations of the Contractor under the Contract have been fulfilled, including, but not limited to, any obligations during the currency of contract period and any extensions to the period. The security shall be returned to the Contractor not later than fifteen (15) days after its expiration.

23.4. Failure of the successful Bidder to comply with the requirements shall constitute sufficient grounds for the annulment of the award and forfeiture of the EMD, in which event the Owner may call for new bids.

24. Contract Documents

24.1. All documents forming part of the Contract (and all parts of these documents) are intended to be correlative, complementary and mutually explanatory. The Contract shall be read as a whole.

24.2. The order of precedence of the Contract documents will be as follows:

(i) Contract Agreement

(ii) All other Forms

(iii) Contractor's Bid

(iv) Tender Document

25. Amendment to Contract: No amendment or other variation of the Contract shall be effective unless it is in writing, is dated, expressly refers to the Contract and is signed by a duly authorized representative of each party to the Contract.

26. Period of Contract

26.1. The Contractor shall carry out the work as per the time specified in the tender document.

27. Terms of Payment

27.1 Payment will be made monthly.

28. Taxes and Duties: The Contractor should ensure payment of all taxes, duties, levies and charges assessed by all municipal, state or national government authorities, in connection with the Goods and Services supplied under the Contract.

29. Assignment: The Contractor shall not, without the prior written consent of the Owner, assign to any third party, the Contract or any part thereof.

30. Governing Law: The Contract shall be governed by and interpreted in accordance with the laws of India.

31. Settlement of Disputes : Any dispute or claim arising out of/relating to this Contract or the breach, termination or the invalidity thereof, shall be settled by the Honourable Courts of Justice at Palakkad.

32. The page number should be marked in all pages serially (including all supporting documents enclosed with the tender document) and the declaration for the same shall be submitted by the bidder as **Annexure-V**

33. Indian Institute of Technology Palakkad reserves the right to accept or reject any or all the tenders in part or whole or may cancel the tender at its sole discretion without assigning any reason whatsoever. No further correspondence in this regard will be entertained.

Other Details:

Name and Address of the bidder

1. Name of the Bidder

- a. Full postal address
- b. Full address of the premises
- c. Telegraphic address
- d. Telex number
- e. Telephone number
- f. Fax number
- g. Type of firm: Propriety/ Private/ Private Ltd/ MNC/ Cooperative /Govt. undertaking
- h. Name of the proprietor /Partners
- i. Firm Registration No.
- j. Year of starting of manufacturing
- k. PAN Number
- l. TIN Number
- m. GST Number
- n. Current Account Details

2. EMD of 2% for estimated value: DD No. Dated :

1. Has the firm ever been debarred/blacklisted by any Govt. Organization/Dept.? If 'yes' the details thereof.
The terms and condition or acceptable to me/us.

Signature and seal of the bidder

SCHEDULE OF QUANTITY

Name of work : Annual Maintenance and Operation of Sub-station and D.G. Sets including internal & external electrical installation, water supply pump set, fire fighting equipments, plumbing system etc at Transit campus of IIT Palakkad.

Item No.	Description of Item	Qty.	Rate	Unit	Amount
1	Operation of all the equipments of 11/0.415 KV Electrical Sub-station, DG sets, panels, internal & external electrical installation, water supply pump sets, fire fighting and fire detection system round the clock including operation and routine maintenance of all the equipments as detailed in Annexure-III & as per additional conditions attached. – 1 job	12		Month	
	Total				

1. EPF and ESI payment made by the agency to the employees will be refunded against evidentiary proof.
2. TDS @ 2% will be deducted as per Circular No.65/39/2018-DOR, Dated 14.09.2018 from Ministry of Finance

ADDITIONAL TERMS AND CONDITIONS

Name of Work : Annual Maintenance and Operation of Sub-station and D.G. Sets including internal & external electrical installation, water supply pump set, fire fighting equipments, plumbing system etc at Transit campus of IIT Palakkad.

1. The work shall be executed as per CPWD general specification of electrical works & sub-station work amended upto date.
2. The firm/contractor shall have to abide by the Institute Security Rules. Proper discipline shall have to be maintained at site of work. The identity of staff engaged on work will be verified at the entrance gate. The staff shall not be changed frequently after issuing security passes.
3. The following staff shall be deputed on the sub-station (round the clock) and UPS (in general shift) :-

Designation	Morning shift 6 AM to 2 PM	Evening shift 2 PM to 10 PM	Night shift 10 PM to 6 AM	General Shift 9 AM to 5PM
Wireman cum operator	1 No	1 No	1 No	1 No
Khallasi				1 No
Technician Civil				1 No

4. The staff to be engaged by the contractor shall have the following qualification :-
 - a) Wireman cum operator shall be having valid Electrical license for electrician category with minimum 2 years experience in handling 11 KV sub-station equipments.
 - b) Khallasi: 10th Pass with one year experience in the same field as above.
 - c) Plumber: ITI with minimum 2 year of experience.
2. All the required material for replacement including consumables and T&P required for the day-to-day maintenance work will be issued by the IIT Palakkad.
3. All the dismantle material shall be returned to JE(E) in charge.
4. The following works are covered in scope of sub-station work:-
 - a) Cleaning of the sub-station equipment like HT panel, transformer, LT panel & other connected accessories i/c cleaning of sub-station building.
 - b) Earth resistance testing of all earth electrodes of sub-station twice in a year & proper records are to maintain in the register.

- c) To maintain record of electrical parameter like HT voltage, LT voltage, PF, Ampere etc in prescribed log book.
 - d) Operation of switch gears as & when required.
 - e) Check regularly the 11 KV voltage if voltage is low adjusting, the transformer tapping.
 - f) Tightening of connections, lubrication of moving parts of switch gears etc.
5. All the installation shall be kept clean & safe from theft, fire & accident. Any damaged caused to installation due to negligence, carelessness & inefficiency of the staff. The contractor shall be responsible to make good the loss or recovery of the same shall be made from the contractor bill. Decision of the engineer-in-charge in this regard shall be final & binding on the contractor.
 6. Log books for sub-station equipments and DG sets shall be maintained by the electrician on hourly basis.
 7. The contract may be closed by the Engineering Department at any time with notice / intimation of 15 days and no claim shall be entertained in this regard. Decision of the Engineer- in- charge in this regard shall be final and binding on the contractor.
 8. Any fault in the substation equipments shall have to be informed to the Engineer-in-charge or his authorized representative immediately.
 9. The safety & watch and ward of sub-station equipment shall be the responsibility of the contractor.
 10. The timing of shift duty can be changed by JE(E) including of installation as per site requirement.
 11. In case of absence of staff ,the following recovery shall be made -
 - I) Electrician - Rs. 750/- per day, per shift
 - II) Khallasi - Rs. 600/- per day, per shift.
 - III Technician Civil - Rs. 750/- per day, per shift.
 12. After expiry of contract, all the sub-station shall be handed over back to Engineering Department in the same condition as in initial stage of taking over.
 13. The contractor shall submit the bio data, complete with educational qualification, electrical license, one passport photograph in respect of the staff deployed on the work.
 14. All staff should wear uniform with badge & name plate complete with name of the firm otherwise recovery @100/- per person per day shall be made from contractor's bill.
 15. The staff deputed on the work shall be in proper uniform as decided by the Engineer in charge.
 16. The staff deputed on the work shall be well acquainted with fire safety equipments and their operation.
 17. If the performance/ integrity of any worker deputed by the contractor on the work is observed unsatisfactory, the worker shall be replaced within 48 hrs. The decision of Engineer in charge in this respect shall be final and binding on the contractor.
 18. The contractor shall indentify the Engineering Department against all losses or damages or liability arising in respect of staff deployed by him on the work in case of any injury/accident.
 19. The contractor shall have to adopt all the safety precautions while executing the work and no claim shall be entertained by the Engineering Department in case of any accident while carrying out the work.

- 20.** Before commencement of the work, both Engineering Department and contractor shall sign the inventory of the installations and accessories as an acceptance of physical existence of the same and all new components/ control/ accessories to be provided during the course of maintenance shall be included in inventory. After expiry of contract, the same procedure shall be followed.
- 21.** The contractor shall be fully responsible for the conduct of staff deputed by firm.
- 22.** The quoted rates by the contractor should be inclusive all taxes.

INVENTORY**(A). KSEB 11 kV Receiving Station**

1. Outdoor ring main unit (RMU) with 2 LBS and 1 VCB.

(B). SUB-STATION :

1. 1000 kVA Unitized Substation with RMU, VCB on HT side and ACB on LT side. – 2 nos.
2. 500 kVA DG set with all accessories – 1 no.
3. 250 kVA DG set with all accessories – 1 no.
4. Non essential panel consist of 2 nos. 1600 A 4 pole ACB for incomer, 1 no. 1600 A 4 pole ACB without protection as bus coupler and 1 no. 1600 A ACB, 1 no. 800 A ACB, and 1 no. 630 A 4 pole MCCB as outgoing including metering etc. – 1 no.
5. APFC panel with 630 A 4 pole MCCB as incomer, APFC relay, 2 nos. 200 A TP-SDFU, 1 no. 125 A TP-SDFU, 5 nos. 63 A TP-SDFU and 2 nos. 32 A SDFU with required contactors, fuse etc. for 175 kVAR capacitor in 7 stages and 3 nos. 20 kVAR capacitor indirect including metering etc. – 2 nos.
6. Essential panel consist of 1 nos. 1250 A 4 pole ACB as incomer-1, 1 no. 1250 A 4 pole ACB as incomer-2 and 1 no. 1250 A without protection as bus coupler and 2 no. 800 A 4 pole MCCB, 2 no. 630 A 4 pole MCCB, and 4 no. 400 A 4 pole MCCB as outgoing including metering etc. – 1no.
7. Synchronizing panel consist of 1 no. 800 A TP ACB and 1 no. 630 A TP ACB as incomers and 1250 A 4 pole ACB as outgoing including metering, synchronizing relay etc. – 1 no.
8. Feeder pillar-1 consist of 630 A 4 pole MCCB as incomer and 4 nos. 400 A 4 pole MCCB as outgoing including metering etc.
9. Feeder pillar-2 consist of 315 A 4 pole MCCB as incomer, 3 nos. 200 A 4 pole MCCB and 1 no. 125 A 4 pole MCCB as outgoing including metering etc.
10. Feeder pillar-3 consist of 315 A 4 pole MCCB as incomer, 4 nos. 160 A 4 pole MCCB and 2 no. 100 A 4 pole MCCB as outgoing including metering etc.
11. Bus duct and various types of cables for interconnecting above equipments.

(C). Workshop Building

1. Cubicle type main panel
2. Bus ducting with accessories in workshop 1.
3. TPN MCBDBs for distribution of power.
4. Power outlets in cable management system.

5. SPN MCBDBs with inverter-less DC units connected with solar panel and battery for DC light and fan.
6. AC Flood lightings, AC bracket fans for workshop 1.
7. DC fittings and fans in workshops 2 to 8.
8. DC fittings and DC exhaust fan in bathroom.
9. DC fittings for corridor.
10. Downcomer system with equipments such as pump sets, hose reel, valve etc.

(D). Academic Building

1. Cubicle type main panel
2. TPN MCBDBs for distribution of power.
3. Power outlets in cable management system and wall.
4. SPN MCBDBs with inverter-less DC units connected with solar panel and battery for DC light and fan.
5. DC fittings and fans for rooms.
6. DC fittings and DC exhaust fan in bathroom.
7. DC fittings for corridor.
8. Downcomer system with equipments such as pump sets, hose reel, valve etc.

(E). Hostel Buildings and dining hall (3-bedded & 2-bedded boys hostel, 3-bedded girls hostel)

1. Main distribution panel (load bank).
2. VTPN MCBDBs for floor wise distribution.
3. TPN MCBDBs for distribution of power.
4. Power outlets on wall.
5. SPN MCBDBs with inverter-less DC units connected with solar panel and battery for DC light and fan.
6. DC fittings and fans for rooms.
7. DC fittings and DC exhaust fan in bathroom.
8. DC fittings for corridor.
9. Downcomer system with equipments such as pump sets, hose reel, valve etc.

(F) Street light and gate light in the campus.

(G) Water supply pump sets.

FORM OF PERFORMANCE SECURITY (GUARANTEE) BY BANK

1. This deed of Guarantee made this day of _____ between Bank of _____ (hereinafter called the "Bank") of the one part, and Indian Institute of Technology Palakkad (hereinafter called "the Owner") of the other part.
 2. Whereas the Owner has awarded the contract for Supply, Installation, Commissioning, Integration and Validation of _____ (name of the equipment) (hereinafter called the contract) to _____ (hereinafter called the Contractor); (Name of the Contractor)
 3. AND WHEREAS the Contractor is bound by the said Contract to submit to the Owner a Performance Security for a total amount of Rs. _____ (Amount in figures and words).
 4. Now, I/we the undersigned, being fully authorized to sign and to incur obligations for and on behalf of and in the name of _____ (Full name of Bank), hereby declare that the said Bank will guarantee the Owner the full amount of Rs. _____ (Amount in figures and words) as stated above.
 5. After the Contractor has signed the aforementioned Contract with the Owner, the Bank is engaged to pay the Owner, any amount up to and inclusive of the aforementioned full amount upon written order from the Owner to indemnify the Owner for any liability of damage resulting from any defects or shortcomings of the Contractor under the Contract mentioned above, whether these defects or shortcomings are actual or estimated. The Bank will deliver the money required by the Owner immediately on demand without delay without reference to the Contractor and without the necessity of a previous notice or of judicial or administrative procedures and without it being necessary to prove to the Bank the liability or damages resulting from any defects or shortcomings of the Contractor. The Bank shall pay to the Owner any money so demanded notwithstanding any dispute/disputes raised by the Contractor in any suit or proceedings pending before any Court relating thereto and the liability under this guarantee shall be absolute and unequivocal.
 6. This Guarantee is valid for a period of thirty six months from the date of signing. (Initial period for which this Guarantee will be valid must be for at least thirty (30) days longer than the anticipated expiry date of warranty period).
 7. At any time during the period in which this Guarantee is still valid, if the Owner agrees to grant a time extension to the Contractor or if the Contractor fails to complete the work within the time of completion as stated in the Contract, or fails to discharge himself of the liability or damages as stated under Para 5 above, the Bank shall extend this Guarantee under the same conditions for the required time on demand by the Owner and at the cost of the Contractor.
1. The Guarantee herein before contained shall not be affected by any change in the Constitution of the Bank or of the Contractor.
 2. The neglect or forbearance of the Owner in enforcement of payment of any moneys, the payment whereof is intended to be hereby secured or the giving of time by the Owner for the payment hereof shall in no way relieve the bank of its liability under this deed.
 3. The expressions "the Owner", "the Bank" and "the Contractor" herein before used shall include their respective successors and assigns.

In witness whereof I/We of the bank have signed and sealed this guarantee on the _____ day of _____ (Month & Year) being herewith duly authorized.

For and on behalf of the _____ Bank.

Signature of Authority

Bank official Name: Designation:

Stamp/Seal of the Bank:

Signed, sealed and delivered for and on behalf of the Bank by the above named _____ in the presence of:

Witness 1

Signature

Name

Address

Witness 2

Signature

Name

Address

Declaration

We hereby undertake that there are _____ pages, serially numbered, in the submitted tender including the supporting documents. (Please serially number all the pages including blank page, if any).

We have submitted our principal's exclusive authorization letter which is specific for this tender No. _____ dated _____.

Signature and seal of the bidder