



॥ सा विद्या या विमुक्तये ॥

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भारतीय प्रौद्योगिकी संस्थान धारवाड

Indian Institute of Technology Dharwad

Near High Court, PB Road,

Dharwad-580011 TEL NO:

+91 836 2212 839

Tender for providing Annual Service Maintenance Contract (ASMC) in respect of Electrical and Miscellaneous works for a period of one year to IIT Dharwad WALMI Campus

Tender no: IITDH/IPS/EE/2022-23/002

INDIAN INSTITUTE OF TECHNOLOGY DHARWAD
Near High Court, PB Road, Dharwad-580011
TEL NO: +91 836 2212 839

Tender no.: IITDH/IPS/EE/2022-23/002

NOTICE INVITING TENDER

Name of the work:	Tender for providing Annual Service Maintenance Contract (ASMC) in respect of Electrical and Miscellaneous works for a period of one year to IIT Dharwad WALMI Campus	
Type of Tender:	Open Tender Enquiry	
Estimate Value:	Rs.18.14 lakhs approx.	
Cost of tender documents	Free of cost	
EMD:	Not applicable	
Issue of tender:	06th December, 2022	
Last date for submission of tender:	Date: 27 th December, 2022 Time: 10:30 AM	
<u>Two Bid System:</u> - The two bid system will be followed for this tender. In this system bidder must submit their offer in separate sealed envelopes as – Technical Bid and Financial Bid. Separate technical bid and financial bid envelopes should be clearly marked as "Envelope No. 1 - Technical Bid" and "Envelope No. 2 - Financial Bid". Both these sealed covers are to be put in a bigger cover which should also be sealed and duly super-scribed with our Tender No. & Due Date and to be submitted to the concern department/section mentioned in tender document. Note: The technical offer should not contain any price information. If the price quoted is submitted in technical bid, the tender will be rejected at the sole discretion of IIT Dharwad. Initially Technical Bids will be opened and evaluated by the works committee. Financial bids of only Technically qualified bidders will be opened later. Contract/ Work Order will be awarded to the lowest bidder (L1) identified.		
Covers Information / Submission of Bids		
Cover No.	Cover Type	Description
1	Technical	EMD, Technical Specification, Tender Document, Schedule of Requirement and Compliance, Bidders Information/Indian Agent Information, Previous Work Orders etc.
2	Financial	Financial Bid
Opening of technical bid:	Date: 27 th December, 2022 Time: 11:00 AM	
Schedule of Opening of Commercial Bids	Schedule for opening of Financial Bid will be notified only to the bidders qualifying the Technical Bid. Presence of the bidder or his/her authorized representative at the time of opening of the Commercial bid is highly preferable.	
Contacting Authority:	The Executive Engineer (EE-IPS) Near High Court, P B Road Dharwad-580011 E-mail: ee.ips@iitdh.ac.in . Telephone: 91-836-2212-839	

Tender no.: IITDH/IPS/EE/2022-23/002

GENERAL CONDITIONS OF CONTRACT

Sealed tenders are hereby invited on behalf of the Indian Institute of Technology, (IIT) Dharwad, for providing Annual Service Maintenance Contract (ASMC) in respect of Electrical and Miscellaneous works for a period of one year to IIT Dharwad WALMI Campus, Karnataka.

2.QUALIFICATION CRITERIA:

Only those bidders fulfilling the following Eligibility Criteria should participate in the tender: -

- 2.1 Bidders should be registered Government Contractor of Class I and above and must be in the business of providing AMC in respect of Electrical works since 5 years or more (i.e. the firm must be in the business since November 2017 or earlier).
- 2.2 The Bidder must have carried similar annual electrical ASMC work as per following range in reputed Private organizations /IITs /IIMs / Govt. offices/PSUs/Central Universities etc. during a period of last 5 years (i.e. must have successfully completed the work during November 2017 till date). Completion certificates etc. to this effect are required to be enclosed.
 - a. At-least three completed and similar annual works of 40% estimated value of this contract (i.e. Rs.7.25 lakh) (OR)
 - b. At-least two completed and similar annual works of 60% estimated value of this contract (i.e. Rs.10.88 lakh) (OR)
 - c. At-least one completed and similar annual work of 80% estimated value of this contract (i.e. Rs.14.51 lakh).
- 2.3 A Certificate/Undertaking on the letter head of the Company to the effect that the bidder has not been blacklisted anywhere in India or abroad by any organization. A self-certification to this effect is required to be enclosed.
- 2.4 The Bidder should be registered with concerned statutory authorities for GST/Income Tax etc. The bidder should furnish relevant GST registration documents and PAN/TAN copies along with the bank details of the firm.

Any prospective bidder, not satisfying any of the above-mentioned qualification criteria shall be disqualified on technical grounds and the price bid of such disqualified bidder will not be considered for this tender.

3. Tender documents can be obtained from IIT Dharwad website:
http://www.iitdh.ac.in/announcements_worktenders.php

4. Tenders are invited under Open Tender Enquiry and two bid system for ASMC work at WALMI campus in IIT Dharwad. Technical Bid along-with supporting documents, Earnest Money Deposit (if applicable) (in form of DD/Bankers Cheque in favor of **The Registrar, IIT Dharwad** payable @ Dharwad) shall be submitted in separate sealed envelopes and then encased inside one sealed envelope super scribed 'Technical Bid for providing Annual Service Maintenance Contract (ASMC) in respect of Electrical and Miscellaneous works for a period of one year to IIT Dharwad WALMI Campus'. All the pages of this tender document along with necessary Appendices (as applicable) duly signed and stamped, will form the technical bid.
5. The bidder must submit the following documents/information within the Technical Bid (all 6 criteria to be mandatorily fulfilled for technical qualification):
- a. The entire tender document duly signed on each page.
 - b. Copy of the valid PAN Card, Goods & Sales Tax Registration be forwarded.
 - c. Proof of establishment of company/business for a period of more than 5 years.
 - d. Completion certificates by the Bidder for annual Electrical AMC work in reputed Private organizations/IITs/IIMs/Govt. offices/PSUs/Central Universities etc. during a period of last 5 years (as per the qualification criteria limits).
 - e. A Certificate/Undertaking on the letter head of the Company to the effect that the bidder/Manufacturer had not been blacklisted anywhere in India or abroad by any organization.
 - f. In case EMD exemption is sought under SME/MSME/NSIC, Valid certificate explicitly mentioning nature of operation shall be forwarded in addition.
6. The Price Bid as per Annexure-2 with this tender document, should be duly filled, stamped, and signed by the authorized signatory of the agency/firm/company and sealed in a separate envelope super scribing 'Financial Bid for providing Annual Service Maintenance Contract (ASMC) in respect of Electrical and Miscellaneous works for a period of one year to IIT Dharwad WALMI Campus'.
7. The Technical bid and the Price bid shall be sealed in one envelope super scribing 'Tender for providing Annual Service Maintenance Contract (ASMC) in respect of Electrical and Miscellaneous works for a period of one year to IIT Dharwad WALMI Campus'.
8. The technical bids shall be opened as per schedule placed at Notice Inviting Tender (NIT). The vendors who are short listed after qualifying technical bid evaluation will be intimated the date of opening of price bids subsequently through proper means. IIT Dharwad reserves the right to reject any or all the tenders/bids without assigning any reason thereof.
9. Tenders are to be submitted in a serially numbered & bounded manner. The tender should be submitted in the **tender box by the tenderer kept in Office of Executive Engineer up to 10:30 AM** on or before last date and time of bid submission as mentioned in Notice Inviting Tender (NIT) and will be opened by **Executive Engineer** or his authorized representatives in his office / any other place in the Institute on date and time of tender opening as mentioned in NIT, in the presence of such tenderers who desire to attend.
10. Tenders should be addressed to **Executive Engineer, Indian Institute of Technology Dharwad, Near High Court, PB Road Dharwad 580011.** The name of the tenderer and the name of the work must be noted on the above.
11. Income Tax PAN number & GST registration number is to be submitted along-with the bid.

12. The tenderers should write in figures as well as in words for the rates quoted by them on the proper form of the tender. All corrections / over writings must be attested by the dated initials of the contractor. The tenderer is advised to avoid offering discount /rebate in the covering page or at the end of the schedule. Instead, the same can be incorporated in the unit rate by reducing the unit rates. If at all offered, the discount / rebate percentage offered is to be written in words such as Five percent / point Five percent etc.

13. The rates quoted shall be inclusive of all taxes, royalties etc. The contractor shall quote for all the items whose rates are asked and not leave any blanks all taxes including GST shall be borne by the contractor.

14. The offer should be valid for 90 days from the date of opening for the purpose of issue of acceptance letter. The amount quoted herein after referred to as base rate must be firm and inclusive of all charges of any kind and inclusive of any kind of liability from / to any authority. GST shall be mentioned separately and must not form part of base price. There will be no extra payment or payment of escalation in the amount under any circumstances whatsoever. Statutory taxes will be deducted at source from the payment against the bill amount.

15. No extra item or substitute item shall be allowed out without prior approval in writing.

16. Work must be carried out in consultation with the representative as authorized by IIT Dharwad.

17. The tenderer should submit the requisite interest free Earnest Money Deposit (EMD, if applicable) by pay order or Demand Draft in favor of **The Registrar, IIT Dharwad**. Tenders not accompanied by the Earnest Money Deposit shall not be considered. The EMD of unsuccessful tenderers will be returned within one month of award of work. In case EMD exemption is sought under SME/MSME/NSIC, Valid certificate from MSME explicitly mentioning the tender work herein, is required to be submitted.

18. The full value of Earnest Money Deposit is to be absolutely forfeited to the Director, IIT Dharwad or his authorized representative, with prejudice to any other rights or remedies to the Director, IIT Dharwad or his authorized representative, if the contractor fails to commence the work within 15 days continuously from the schedule date of commencement specified.

19. The Earnest money deposit paid at the time of tender, will be released after payment of final bill.

20. No part of the contract shall be sublet without written permission of IIT Dharwad nor shall transfer be made to power of Attorney authorizing others to receive payment on contractor's behalf.

21. IIT Dharwad reserves the right to reject any tender or all the tenders without assigning any reason therefore.

22. The Contractor shall comply with the provisions of all Acts, Statutes, Rules, Regulations etc. of the Central and State Government as the case may be that may apply to his case and if necessary, get himself duly registered as required by the said Acts, Statutes, Rules, Regulations etc.

23. The contractor for the work shall be liable to pay applicable tax (including Taxes on works contract to state Government) if any that may be levied by the State or Union Government. Any request contrary to this will not be accepted.

24. Period of ASMC and Execution Process:

a) Initially for a period of one year from the date of award of work order. The period of AMC may be extended subject to the satisfactory performance of the contractor.

b) **Process for execution of Electrical ASMC Works:** The successful contractor shall execute the Electrical AMC work only upon receipt of the written approval. No work shall be commenced without obtaining written sanction from the representative of IIT Dharwad (Office of Dean-IPS). The written approval shall form the basis of execution of work at site and must be enclosed with the RA bills for the purpose of measurement of work carried out and settlement of bills. Failure to obtain written permission to carry out the work and non-submission of approvals with the bills may result in deduction of final payment. It is mandatory that the contractor himself or his responsible representative nominated shall be on site by 9: 00 AM on all duty days without fail. In case the same is not followed even after three written intimations 1% of the bill value shall be deducted. All the item rate works executed shall be recorded as joint measurement indicating all the required details on the same day of completion. The labor attendance shall be maintained with joint signatures of contractor and site engineer and the muster cards entry shall be made accordingly. All the records shall be submitted to the competent authority on weekly basis.

25. Terms of payment: As per the measurements at site and on certification of the site engineer.

- a) The contractor shall submit his monthly bill along with monthly muster sheet & written approvals. Kindly note that the monthly bills for work done under ASMC must be submitted by 5th day of next month (i.e. for the work done in September 2021, the bills must be submitted on or before 5th October 2021 along with all the measurements & approvals). Submission of delayed bills may lead to imposition of penalty @ 0.5% of bill value for each delayed week.
- b) The payment shall be released through NEFT/RTGS payment system only in the bank account of the contractor after necessary deduction of statutory dues.
- c) TDS and other Statutory taxes shall be deducted at the source from the monthly bills.

26. It shall be open to the Institute to abandon or give up at any stage of the construction of any of the said works or any part thereof. In the event of such abandonment or giving up or in the event of termination of the agreement, the Contractor shall be paid up to the work performed by then.

27. Deviation, Extra Items & Approvals for Pricing:

In case of execution of any extra items(s), apart from the BOQ, contractor must intimate the office of Dean (IPS) to obtain prior sanction for carrying out the work along with the quantities & rates. Thereafter, the contractor may submit the bills as per the usual practice of submission of RA bills.

DEVIATION LIMIT FOR THE CONTRACT ITEMS IS 50%.

In case of contract items which exceed the limit of 50% above the boq quantity, the contractor must intimate the office of Dean (IPS) to obtain prior sanction for carrying out the work along with the quantities & rates. Thereafter, the contractor may submit the bills as per the usual practice of submission of RA bills.

28. Termination of contract: If the Contractor fails to perform any of its obligations under this agreement or if Institute is dissatisfied with the services of the Contractor, Institute may issue seven days' written notice intimating the Contractor of their failures or deficiencies and calling upon Contractor to rectify within such time as may be specified in the notice and if the Contractor fails to perform such obligation or make good such deficiencies as pointed out to the Contractor in the notice,

Institute may terminate the services of Contractor under this agreement. Institute may also terminate the Contract hereunder:

- i) if the firm is adjudged bankrupt or
- ii) if they make a general assignment for the benefit of their creditors or
- iii) if a receiver is appointed on account of their insolvency or
- iv) they disregard law, ordinances, rules, regulations or orders of any public authority having jurisdiction on the works.

The termination shall be without prejudice to all rights, liabilities and remedies that have arisen or accrued till date of such termination or that may arise on account of such termination and Institute may get the project completed by whatever method they may deem expedient. In such case, the contractor shall not be entitled to receive any further payment, if due, until the loss, damage or expense incurred by Institute due to breach of this agreement by Contractor have been settled.

In case the contractor abandons the work during the course of the project, the institute has the right to appoint an alternate contractor or make an arrangement for carrying out the work of contractor, at the risk and cost of the contractor. Traveling / daily allowances shall not be payable to the contractor, its representatives, officials and consultants engaged by it for their visit to construction site, offices of local authorities, Employer's office or any other place in Dharwad.

The scope of work broadly described herein and assigned to Contractor, as their area of responsibility is inclusive of all consultancy and other services required in connection with the completion of work whether specifically mentioned herein or not and rendering such consultancy services will not entitle the Contractor to charge any additional fees in as much as the same are included in the overall professional fees payable to them.

29. Liquidated Damages Clause: If any delay in execution of the works is attributable to the acts or omissions and commissions of contractor institute shall be entitled to recover liquidated damages at the rate of 0.5% of the total fees per week of delay limited to maximum of 10% of the total actual fees payable.

30. Professional indemnity: Contractor warrants that it shall exercise high degree of care and diligence in rendering the services pursuant to this agreement and that; such services shall be of a quality and standard satisfactory to Institute. The Contractor shall indemnify Institute from any damage or loss arising from such lack of care and diligence or arising out of any unsatisfactory performance of service by Contractor. The contractor is required to obtain a Contractor All Risk (CAR) policy for successful and safe completion of project. Contractor shall provide a copy of this policy to Institute showing that such insurance has been taken and being maintained and that all the premium thereon have been paid. A certified copy of such insurance policy shall be deposited with Institute.

31. Dispute Settlement: In case of any dispute or difference arise between the parties during the progress of or after construction of this contract or touching or relating either to the said buildings or works, or to any other matter or thing arising directly or indirectly under this contract, then and in such an event the same shall be referred to Director, IIT Dharwad as the SOLE ARBITRATOR who shall alone consider and determine the same, whose decision / award shall be binding and conclusive upon both the said parties and this clause shall be deemed a submission within the meaning of Arbitration and Conciliation Act 1996 or Statutory modification or re-enactment thereof. It is specifically agreed that the Contractor shall continue to render its services provided herein with all the due diligence, professional skill and tact notwithstanding that any matter, question or dispute has been referred to arbitration. The venue of Arbitration proceedings shall be Dharwad. It is further agreed between the parties as hereto that the Dharwad Courts alone shall have the exclusive jurisdiction.

32. Site: The contractor shall remove all surplus materials, debris etc. out of the IIT Campus from the site of work on completion work and will hand over the site clean before the bill is processed for final payment. Dismantled materials if any (declared by Engineer-in-charge of the work) shall be returned to the Estate/ Electrical stores by the contractor at his own cost. The disposal of material shall be done in environmental friendly way and complying with the local rules and regulations.

33. Security:

a. Movement of contractor's materials:

Any materials which are removed from the site of work and are required to be taken out from the IIT campus, the contractor should follow the following procedure:

The contractor shall apply in writing to the Engineer- in-charge the details of the materials to be removed including which are rejected etc. This application shall be endorsed by the engineer in charge or his authorized representatives. The materials shall only be allowed to go out of IIT campus after counter signature of the security officer and checked at the gate. No materials/tools will be allowed to be brought on holidays/Saturdays/Sundays inside the campus. Contractors can bring the materials/tools/between 0900 hours and 1700 hours on any working day (Monday to Friday). This may please be noted.

b. Search:

Thorough search of all persons and transport shall be carried out at each gate and for as many times as gate is used for entry or exit and may also be carried out at any time or any number of times at the works site within the restricted area.

c. Working Hours:

The units controlling restricted areas usually work during five days in the week and remain closed on Saturday and Sundays. The working hours available to contractor's labor and staff are however appreciably reduced because of the time of entry and exit during working hours. The exact working hours, working days and non-working days observed for the restricted areas where works are to be carried out shall be deemed to have been ascertained by the contractor before submitting the tender. The tenderer's attention is invited to the fact that the total number of working hours for units are prescribed in regulations and no work beyond the prescribed working hours shall be permitted.

d. Entry and Exit:

The contractor, his agents, representatives, workmen, etc. and his materials, carts, trucks or other means of transport, etc. will be allowed to enter through and leave from only such gate or gates and at such times as the concerned authorized in charge of the restricted area may, at their sole discretion, permit. Contractor's authorized representatives, if required, are to be present at the places of entry and exit for the purpose of identifying his carts, trucks, etc. to the personnel in charge of the security of the restricted area.

e. Labor Law:

The work will be executed strictly following the Labor Laws of Central Govt. & State Govt. as may be applicable.

34. Scope of Work

- A. To maintain all electrical points, units etc. under the custody of IIT Dharwad in WALMI campus and the buildings, flats, etc. taken on lease by IIT Dharwad and also to Operate and Maintain electrical DG Sets at IIT Dharwad.
- B. The contractor posted should attend and available in the IIT Dharwad WALMI campus to attend the work 24x7 on all days.
- C. Electrical installation means lights, fans, equipment, generators, blowers, compressors, motors, pumps, electrical wirings, switches, plugs, starters, DB Boxes, MCB's, Main switches etc.
- D. It will be the duty of the contractor to see that street lights are operated regularly, exhaust fans and other non R&D electronic equipment's and machineries are operated smoothly.
- E. The contractor will monitor power supply voltage regularly. It will be the duty of the contractor to see that the generator which is under AMC (Annual Maintenance Contract) is maintained in excellent condition and switch on the generator as and when the power supply fails or on other demands and ensure continuous supply of power round the clock.
- F. The contractor should ensure that all the fans and electrical fittings need to be cleaned regularly at least once in a month.
- G. The contractor possessing valid license of class I and above and having enough work experience shall employ necessary number of qualified, healthy and talented electricians to attend all the above mentioned electrical works (as per qualification stated in the BOQ) should be made available to undertake the electrical maintenance work. A copy of their certificates with originals may be produced in this office for verification.
- H. The contractor shall provide tools necessary for the work and no work should be left unattended for want of tools.
- I. The contractor has the responsibility to provide all safety garments, equipment's, tools etc. to his staff or the persons dealing with work.
- J. The Contractor shall ensure that all fittings are working properly and all items required for replacement will be provided by the office as and when required. For items needed for replacement, the Contractor shall furnish the requirement to the Office of IIT Dharwad for making necessary provisions. The item replaced shall be returned to the stores /Engineer-in-charge (Issue) section of the Institute.
- K. The contractor shall ensure sufficient stock of diesel to run the Generator set (3 No's). The requirements of the diesel should be intimated to the office sufficiently in advance for taking procurement action. Necessary log book needs to be maintained by the contractor.
- L. Maintaining a register for all activities detailing date, time, item description, quantity, complaints diagnosis, time of completion of work etc. This register will be daily shown to the authorized staff of IIT Dharwad and countersigned to acknowledge the activities attended to reflect daily progress.
- M. The contractor shall ensure that all energy efficient appliances, spare parts should be replaced as per the standards of approved make/ brand by PWD, KPTCL or HESCOM such as BIS, BEE, ISI, IEEE, ISO etc.
- N. The Contractor shall ensure the type of works to be taken place in IIT Dharwad campus on visiting the Site and have to Prepare the quotation based on site inspection only.
- O. The work of the Contractor will be supervised by the authorized representative/Engineer of IIT Dharwad.
- P. Instruments: Earth tester, Tong tester, Megger for insulation resistance measurements, Lux meter, Temperature gun (for remote recording) to be kept at site office all time.

35. Special terms and conditions:

- A. The maintenance contract consists of operation and maintenance of compact RMU; HT & LT control panels and its associated AMF panels, underground cables, raising mains. D.G. sets, external and internal electrification, Telephone connections of R.O and staff Quarters as detailed in schedule accompanying the notification and tender documents.
- B. The power factor of the installation has to be maintained / monitored daily and monthly as per the statutory requirements of KPTCL / HESCOM.
- C. Due to negligence of operator if any, “the power factor” goes below 0.9 lag during the month, P.F. penalty will be imposed and recovered from the monthly maintenance bill (as per rate of Electricity Board.)
- D. Electrician has to maintain the earthing point/ stations of the electrical power system, adding water & salt and keeping the station in good conductive //wet, at least once in a month regularly and keep that the earthing system is in good condition.
- E. The operating / Supervisor staff shall possess the Knowledge of firefighting and first aid.
- F. The operating/supervisor personnel shall have the basic Knowledge and technical skill of the DG set / HT equipment and shall be capable of independently carrying out the emergency repair works on generator/ AMF panel.
- G. All the accessories, equipment comprising of batteries, battery chargers. Control panel, switch boards shall be operated and maintained by the agency.
- H. The contractor / operator / supervisory personnel shall have a clear working Knowledge of the various electrical circuits and shall not meddle / alter the electrical circuits without the permission of the Engineer in charge.
- I. The Electrician engaged under supply of manpower category shall functions completely as per the directions of Engineer-in-charge and FA-(IPS-Electrical).
- J. The Payment of wages shall be accounted exclusively based on his reporting time and Exit time including completion of tasks assigned time to time. In case of non-completion of assigned tasks, the competent reserves the right for deduction of wages irrespective of his physical presence.
- K. It is to be noted from the contractor that the electrician engaged under supply item may not be used for installation of items billed under respective heads in the duty hours.
- L. The electrician engaged shall execute all maintaince activities of all E&M equipment including Air conditioners
- M.
- N.
- O. as per the directions of FA- IPS.

36. Evaluation Criteria:

The L-1 will be decided on the Grand Total Rate quoted for the work. All levies/taxes (i.e. GST etc.) must be clearly mentioned in the row provided for the purpose (as per format of Financial bid).

However, the decision of the Competent authority will be final and binding in awarding the order. In case of any clarification required, the same can be clarified from IIT Dharwad before submission of the bids.

The bidders must also note that the quantities may vary (10% more or less). Additional items may also crop up other than the listed items as per site conditions.

Annexure-1

Bidder Information

1.	Name of the Bidder	
2.	Address of the Bidder	
3.	PAN No.	
4.	GSTN No.	
5.	State of GST Registration	
6.	E-mail	
7.	Contact Person's Name & Designation	
8.	Mobile No.	

Signature of the Bidder with date and seal

INDIAN INSTITUTE OF TECHNOLOGY DHARWAD
Near High Court, PB Road, Dharwad-580011
TEL NO: +91 836 2212 839

Tender no.: IITDH/IPS/EE/2021-22/001

SCHEDULE OF WORK / BOQ / PRICE BID
(To be quoted on the letter head of the bidder)

Bill of quantities for the Electrical ASMC for walmi campus FY 2023.

Sl.No	KPWD/ KPTCL SR CODE	Particulars	UOM	BOQ Qty	Rate	Amount
1	1.10	Open Conduit System Supplying heavy gauge PVC conduit pipediamm thick confirming to IS 2509 with suitable size bends, junction boxes, adhesive paste etc., and fixing using inverted wood plugs in case of RCC ceiling and RCC wall / stone structure or raw plugs in case of brick walls and cement plastering the damaged portion using heavy gauge saddles at an interval of 700mm using NF screws.				
	1.1.1	19/20mm dia 2mm thick	Mtrs	60		
	1.1.2	25mm dia 2mm thick	Mtrs	150		
2	1.80	Supplying and fixing of PVC casing and capping on the wall or ceiling using necessary materials like bends, screws at an interval of 300mm etc. as required.				
	1.8.1	20mm	Mtrs	50		
	1.8.2	25mm	Mtrs	100		
3	1.90	Supplying PVC/GI flexible conduit pipe...mm dia fixing on surface over inverted tapered wooden plugs or pill plugs or raw plugs and clamped using heavy gauge saddles at an interval of 300mm using NF screws and on either end of the pipe terminated completely				
	1.9.1	20mm	Mtrs	10		
	1.9.2	25mm	Mtrs	75		

4	2.30	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multi strand Copper with low conductor resistance single core wire in open or concealed system of wiring with specified IS-694:1990 & confirming to GTP of GROUP -A.				
	2.3.2	1.5 sqmm	Mtrs	400		
	2.3.3	2.5sqmm	Mtrs	400		
	2.3.4	4 Sqmm	Mtrs	400		
	2.3.6	10 sqmm	Mtrs	50		
	2.3.7	16 sqmm	Mtrs	50		
5	2.50	Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper with low resistance conductor confirming to table 3 class 5 of IS:8130-1984 and virgin grade PVC insulation and powder coating extruded PVC sheathed suitable for working voltage up to 1100Volts as per IS-694:1990 & confirming to GTP of GROUP-A				
	2.5.2	3C X 1.5Sq.mm	Mtrs	25		
	2.5.8	3C X 2.5Sq.mm	Mtrs	25		
	2.5.15	3C X 4.0Sq.mm	Mtrs	25		
6	3.30	Supplying and fixing surface/flush mounting unbreakable PVC modular box suitable for mounting modular switch plates with due groove cutting in Brick/C.C wall, including necessary rawal plugs, Machine/NF screws etc., complete.				
	3.3.1	1-3Way	No's	10		
	3.3.2	4-5Way	No's	10		
	3.3.3	6-Way	No's	10		
	3.3.4	8Way	No's	10		
	3.3.5	10-12Way	No's	10		
7	3.50	Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required No's. of machine screws, bolts nuts etc., complete on the existing metal/PVC box.				

	3.5.1	1 to 3 Module	No's	10		
	3.5.3	6 Module	No's	10		
	3.5.4	8 Module	No's	10		
	3.5.5	12 Module	No's	10		
8	3.60	Supplying and fixing of modular switch/ Socket/stepped electronic fan regulator/ dimmer/telephone socket etc. on existing modular switch plate as per IS 3854 and IS 1293 GROUP A				
	3.6.1	6Amps one way.	No's	80		
	3.6.3	6Amps 3way socket.	No's	50		
	3.6.4	Stepped Fan Regulator.	No's	25		
	3.6.8	16Amps one way switch	No's	50		
	3.6.10	32Amps DP Switch	No's	10		
	3.6.11	6/16Amps universal socket	No's	50		
9	3.13	Supplying and fixing of metal clad industrial plugs and sockets. SOCKET 3pole+earth 440V				
		2pole+earth 250V PLUG				
	3.13.1	10A	Each	1		
	3.13.2	20A	Each	1		
		3pole+earth 440V PLUG				
	3.13.3	20A	Each	1		
	3.13.4	30A	Each	1		
		2pole+earth 250V SOCKET				
	3.13.5	10A	Each	1		
	3.13.6	20A	Each	1		
		3pole+earth 440V SOCKET				
	3.13.7	20A	Each	1		
	3.13.8	30A	Each	1		
10	5.10	Supplying push button operated direct online starter with an antiweld silver cadmium oxide contactor with replaceable fixed and moving contacts and bimetallic thermal overload relay help in anticorrosion treated sheet steel or iron clad enclosure and fixing the same to suitable capacity wires for 230/440 V 1/3 phase motor up to 5 HP.	Each	1.00		

11	5.20	Supplying fully automatic star-delta starter unit push button type with suitable wires, 3 contactors, one adjustable thermal timer mounted on a common base plate held in steel enclosure for use on 400/440 V 3 phase and wired after fixing to the existing wooden board for motor.				
	5.2.1	up to 12.5 HP	Each	1.00		
12	5.30	Supplying and fixing single phase preventer using necessary wires over an existing panel board suitable for motor up to 20 HP capacities.	Each	1.00		
13	5.17	Supplying & fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898.				
	5.17.1	6-32 A SP	No's	10		
	5.17.2	40 A SP	No's	5		
	5.17.3	50-63 A SP	No's	5		
	5.17.4	6-32 A DP	No's	2		
	5.17.5	40 A DP	No's	2		
	5.17.6	50-63 A DP	No's	2		
	5.17.7	6-32 A TPN	No's	2		
	5.17.8	40 A TPN	No's	2		
	5.17.9	50-63 A TPN	No's	2		
14	5.20	Supplying, fixing and wiring Earth Leakage Miniature Circuit Breaker [ELMCB] 240/450V up to 300mA sensitivity on existing wood/panel board.				
	5.20.1	16-25 Amps 2 pole	No's	1		
	5.20.2	32-40 Amps 2 pole	No's	1		
	5.20.3	32-40 Amps 4 pole	No's	1		
	5.20.4	63 Amps 4 pole	No's	1		

15	5.45	Supplying and fixing of Metal Socket set of 2pole and earth plugs and socket for incorporating SP and TP MCB (Without MCB). The entire plug and socket shall be mounted in a thermoplastic / powder coated metal box & wired Completely.				
		SP & N				
	5.45.1	10 A	Each	1.00		
	5.45.2	20 A	Each	1.00		
		TP & N				
	5.45.3	20 A	Each	2.00		
	5.45.4	30 A	Each	2.00		
16	6.10	Supplying exhaust fan of 1440 RPM of 300 mm (12") size with bracket blades complete for light duty suitable to operate on 230V 50Hz, AC Supply.	Each	5.00		
17	6.30	Supplying capacitor type ceiling fan complete with down rod blades, shackle, canopies etc., for operation on 230 V, 50 cycles. Single phase AC supply conforming to ISS-374- 1979 and with double ball bearing system.				
18	6.3.1	48" Sweep (1200 mm) Regular model	Each	12.00		
19	11.20	Supplying & fixing retrofit type-PL-LED Lamp W LED linear source with CCT 6500 degree K, CRI> 70%. efficacy >80 lumen per W, life> 25000 burning hours and Compliance to IS 10322/IEC 60598, LM 79 & LM 80. The LED are driven by HF electronic driver integrated in the system, with PF > 0.95, power loss should < 5% of lamp Wage., short circuit & open circuit protection to be integrated in the circuit, THD less than 20%, Life as per LM 79. The operating input voltage should be between 130 to 275 V. Tested by NABL/CPRI accredited laboratory with 2 years Warranty against any manufacturing defect working under standard electrical condition.				
	11.2.1	8-9 W	Each	25.00		

20	11.30	LED Indoor Supplying of --' feet - LED PVC Square Batten. W with high quality diffuser with Life of 25000 burning hours & 70% lumen maintenance with CRI > 80. Power Input: 220-240V @ 50Hz & Power factor >0.9 along with CE approved drivers. 5 years Warranty against any manufacturing defect working under standard electrical condition				
	11.3.1	LED light fitting 1 x 2' - 9/10 W	Each	50.00		
	11.3.2	LED light fitting 1 x 4' - 20/22 W	Each	150.00		
21	12.30	Supplying and fixing/replacing condenser for ceiling fan/MV/SV/MH and other luminaries.				
	12.3.1	upto 4mfd	Each	20.00		
	12.3.2	8mfd	Each	20.00		
	12.3.3	10mfd	Each	10.00		
22	12.40	Rewinding a 1200 mm ceiling fan/after using necessary gauge annealed and insulated copper wire with necessary insulating, separators, vibration arresting shellac etc. including replacement of bearings if any transportation to and from the spot to workshop inclusive of releasing the refixing.				
	12.4.3	1200mm	Each	100.00		
23	12.70	Releasing an unserviceable thermostat and providing in its place a new 20 A capacity 25 inch to 85 inch range thermostat.	Each	30.00		
24	12.13	Supplying and fixing/replacement of heating element for Geyser/Boiler.				
	12.13.1	2kW Capacity	No	30.00		
	12.13.2	3kW Capacity	No	5.00		
25	12.14	Supplying and fixing/replacement of pressure relief valve suitable for Geyser.	No	10.00		
26	12.15	Supplying and fixing/replacement of Round/ Conical/ Diamond shaped HDPE Doom suitable for 125/160W post top lamp fittings.	No	4.00		

27	12.51	Supplying & fixing LED Drivers suitable for 5700K LED fitting Indoor Fixtures. Operating voltage range from 180V to 265V, 50Hz AC power Supply				
	12.51.4	15W to 18W 5700K suitable for indoor LED fitting.	Each	10.00		
	12.51.5	25W 5700K suitable for indoor LED fitting.	Each	5.00		
	12.51.7	36W 5700K suitable for indoor LED fitting.	Each	10.00		
28	13.50	Fixing halogen/metal halide / SVL / IL / LED floodlight fitting over existing pole / wall ceiling including clamps, bolts, nuts and wiring using suitable capacity wires.	No's	10		
29	13.60	Fixing charges of post top/ Gate/ Garden fitting /LED on the existing CI / GI or any other pipe using required size of reducer, wiring using suitable wires.	No's	4		
36	13.16	Erection of single phase preventer / ammeters / including fixing selector switch / voltmeter / current operated earth leakage circuit breakers / voltage operated circuit breaker / above 100A fuse channel set (3 No's) HRC fuses above 100A (3 No's.) / Digital ammeter/digital volt meter/set of 3 indicating lamps /MCB / Relays /A-V selector switches including wiring using suitable capacity wires, bolts, nuts, screws.	No's	5		
38	13.12	Releasing and Replacing Insulators 11KV Pin Insulators	Nos	50		
39	2.06	Supply of LT 4 Pin X Arms - GI	Nos	2		
40	5.02	Fixing of 4 Pin cross arm with insulator and Braces fixing	Each	2		
41	6.03	1.1kV Ceramic Pin Insulator (Shell only)	Nos	20		
42	6.07	No.15 Strain Insulator	Nos	20		
43	16.00	Releasing & Restraining of loose spans, binding, straightening of inclined pole etc.				
	16.01	Tightening of loose spans a) Weasel/Squirrel b) Rabbit c) Coyote	Km	2		
	16.02	Straightening of slant/bent poles	Nos	10		

44	17.00	Jungle Clearing: 3 mtrs corridor (1.5 mtrs on either side of line)				
		Trimming of trees and branches and clearing as per IE Rules. In Maidan (In accordance with necessity) (thrice in year)	Km	2		
45	31.00	Labor charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required. In existing trench/duct.				
		LT Cable				
	31.05	2.5 to 25 Sqmm	Mtrs	50		
	31.06	35 to 95 Sqmm	Mtrs	50		
46	32.00	1.1 kV, XLPE or Heat resistant PVC insulated, PVC extruded Inner Stealth Armored LTUG Cable as per IS-1554 (Part-1) or IS-7098 Part-1, Armoring strip thickness and resistivity as per IS-3975				
	32.01	6 Sqmm, 2 Core, (24 GI Wire - 1.4 mm)	Mtrs	50		
	32.03	10 Sqmm, 4 Core, (10 GI Strips - 4 x 0.8 mm)	Mtrs	50		
	32.05	16 Sqmm, 4 Core, (11 GI Strips - 4 x 0.8 mm)	Mtrs	50		
	32.12	50 Sqmm, 4 Core, (17 GI Strips - 4 x 0.8 mm)	Mtrs	50		
47	47.00	Consolidated Labor charges for shifting of the conductor terminations (existing cut points) in deteriorated existing poles to new poles erected. Work includes all works associated with shifting of the terminations, like shifting of aerial fuse boards, cut outs, service main (UG cable and overhead) and any other existing fitting. (CDS - 47/CSR -2017)	Per pole	2		
48	50.00	Wiring for lighting/power circuit using one of PVC insulated 1100V grade, stranded Aluminum wire single core in open or concealed system of wiring.				
	50.04	PVC Wire - 10 Sqmm Weight per 100 Mtrs Coil: 5.3 Kg	Mtrs	50		
	51.01	PVC Wire - 16 Sqmm Al Wt.: 4.2 Kg, Total Wt.: 7.5 Kg/100 Mtrs Coil	Mtrs	50		

	51.04	PVC Wire - 50 Sqmm Al Wt.: 13.8 Kg, Total Wt.: 22 Kg/100 Mtrs Coil	Mtrs	50		
	51.07	PVC Wire - 120 Sqmm Al Wt.: 32 Kg, Total Wt.: 45.5Kg/100 Mtrs Coil	Mtrs	50		
	51.10	PVC Wire - 240 Sqmm Al Wt.: 63.5 Kg, Total Wt.: 87 Kg/100 Mtrs Coil	Mtrs	50		
49	52.00	Fuse Wire				
	52.04	Tinned Copper Fuse Wire, 100 Amps	Kg	4		
50	29.01	Digging of trench of 0.6m deep x 0.50 mtrs wide refilling the trench to the required ground level and consolidating etc., complete.(As per Civil SR KSRB I-2, P-7)				
	29.02	In soil (ordinary)	Mtrs	50		
	29.03	In soil (hard)	Mtrs	20		
	29.11	Cutting road surface	Mtrs	10		
51	7.20	Supply and laying double walled corrugated (DWC) HDPE Pipe including all necessary connecting Sockets/Couplings/Tees/Bends/End-caps of same materials in existing trench as per IS 14930 part -II suitable for drawing underground cables.				
		110mm OD / 94mm ID	Mtrs	50		
	7.20.3	63mm OD / 50mm ID	Mtrs	50		
52	11.80	Supply and fixing of LED Streetlight luminaire with pressure die cast aluminum housing body for optimal thermal dissipation. Lamp compartment comprising of anti-glare clear diffuser with Injection moulded polycarbonate material, delivering superior light output. Rated life Burning Hrs. 50000 hr. @ Lumen Maintenance of 70%, maximum light intensity should be between 60 degrees to 70 degrees. CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor >0.9 with mains, Surge Protection- Min 5KV along with Over voltage/ Overload, short circuit/ miss-wiring protection. Compatible for pole mounting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved				

		MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture withW System Power consumption. LED Efficiency>130lm/w, nominal CRI >75. Luminaire manufacturer should have in house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008. Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part. Warranty of 2 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED manufacturer & Cree/Nichia/ Lumileds/Osram make LED Source. Make: Crompton, Bajaj, Philips				
	11.8.3	LED Streetlight 70watts	No's	5		
53		Supply of skilled electrician-(8 hours duty).	Man Days	365		
54		Fixed charges for night shift support electrician as and when required.	Man Days	365		
55		Fixed charges for per day visit of Technician, lineman, cable jointer (8 Hrs.) as and when required.	Man Days	50		
56		Fixed charges for unskilled Manpower as and when required.	Man Days	60		
		TOTAL				-
57		Miscellaneous				-
		Total with Misc.				-
		GST @18%				-
		Grand Total				-

Important note for quoting the rates for supply of labor/manpower:

The Price Bid is to be quoted after considering - Minimum Wages for Zone 'B', as prescribed by **Central Ministry of Labor & Employment, Govt. of India**, as applicable on the date of issue of this tender for supply manpower. ESI, EPF & other statutory payments should not be less than what is stipulated by the statutory provisions / acts by the Central Government. Any bidder quoting labor wages lower than the minimum wages will be rejected and price bid will not be considered. The proof of payment of minimum wages, EPF, ESI, relieving charges (along with ESI & EPF) etc. is required to be submitted for processing the monthly bills. The payment will not be processed in absence of documentary evidence for compliance with statutory requirements in respect of supply

labor/manpower. The quoted rates for supply labor under item number 53 shall be inclusive of Basic wages + Variable DA+ PF+ ESI + Other Allowances only for electrician. The component of variable pay shall be in the range of 96/-per day minimum to 115/- per day maximum. The payment of other allowances, PF and ESI shall be on reimbursable basis after recommendation from competent authority and providing the necessary proof of payment.

Eligibility Criteria for other allowances: -

- 1) If the complaints on fans and lights is attend within 24 Hrs., the electrician would be eligible for 50 % of other allowances.
- 2) If the electrician completes all the scheduled maintaince activities, Electrician will be eligible for balance 50 % of other allowances.
- 3) ** Please note that the lump sum rate to be quoted for miscellaneous works under sl. no. 57 of price bid shall range from 10-12% of the overall tender value. The bidder is required to procure items after approval from the representative of IIT Dharwad and shall commence the work. The complete details of the work will be discussed with L-1 bidder before issuing the work order.

Declaration: I/We do hereby accept all the terms and conditions laid down in the tender document for the above said work/supply. I/We also agree to the condition that the right to suspend the tender process or part of the process, to accept or reject any or all the tenders at any stage of the process and/or to modify the process or any part thereof at any time without assigning any reasons thereto is reserved by the Competent authority of the Institute without any obligation or liability whatsoever.

Signature of the Bidder with date and seal

Annexure- 4

LIST OF APPROVED MAKE/MODEL

- 1) All material shall confirm to relevant technical specification. The material shall be further subjected to tests in the recognized laboratories at the sole discretion of the Engineer-in-Charge and shall be at contractor's cost.
- 2) Material bearing appropriate IS marking and having valid license for the last 3 years shall be given preference while selecting for the work.
- 3) In the case of material which are not widely available with IS marking in the market but confirm to the technical specification mentioned in the tender documents, the same shall be procured from any of the manufacturer listed below after prior approval of the EIC.
- 4) EIC can approve any other brand subject to verification of the adherence to the relevant technical specification.

Sl. No.	MATERIALS	MAKE /BRAND
1	Rigid FR PVC conduit Pipe and accessories	Avon plast, wireman,Nihir, precision, Polycab or equivalent
2	Copper wire /conductor	Finolex, Polycab, RR cable, Havells, or Equivalent
3	Modular type	Mk , Legrand, anchor, Havells or equivalent
4	MCB / ELCB/ RCCB	Legrand, ABB, Hager, Schneider L&T, Indo-Asian or equivalent
5	MCCB/ ACB	Legrand, ABB, Hager, Schneider L&T, Indo-Asian or equivalent
6	Lighting fixtures & Lamps	Philips, Crompton, Wipro, Havells or equivalent
7	Ceiling fans & exhaust fan	Crompton, orient, Havells, Bajaj, Usha or Equivalent
8	Geysers	Racold, Havells, Bajaj, Usha, AO smith or Equivalent
9	PVC tape	Steel grip, anchor , Jonson or equivalent
10	Call bell	Anchor, Orpat, max or equivalent
11	Distribution board	Indo-Asian, Havells, Siemens, L&T or equivalent
12	UG 1.1kv LT cables	Finolex, Polycab, RR cable, Havells, or Equivalent
13	Air conditioners	Voltas, Daikin, Blue Star, LG or Equivalent
14	PVC casing capping and accessories	Modi, Polycab, classic
15	Motor pump set	Crompton, Kirloskar, KSB or equivalent
16	Timers	L&T, Siemens, ABB, cutler hammer or equivalent
17	Selector switch	L&T, Hpl, Cummins, Havells or equivalent
18	Cable lugs	Dowell's, Johnson, hex or equivalent
19	Cable jointing kit	Raychem, Denson, m-seal or equivalent
20	Indicating led lamp	Siemens, ABB, L&T, Wipro or equivalent
21	Protection relay	L&T, Siemens, ABB, cutler hammer or equivalent