



**INDIAN INSTITUTE OF TECHNOLOGY GOA
GEC CAMPUS, FARMAGUDI, PONDA
GOA-403401**

**TENDER DOCUMENT FOR ELECTRICAL RENOVATION IN
VARIOUS ROOMS OF PG BLOCK.**

NIT: IITGOA/C&EMD/2020/ELECTRICAL/008

DT.17-03-2020

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PART A (TECHNICAL BID)

1. NOTICE INVITING TENDER

1.1. INTRODUCTION

Indian Institute of Technology (IIT) Goa, hereinafter called IITGoa, invites sealed tenders from the eligible contractors for installation of various electrical wires/cable, MCB's, MCCB's, DB's and AC points in various rooms of PG Block. Particulars of the work are as follows.

1.2 PARTICULARS

1.NIT No	IITGOA/C&EMD/2020/ELECTRICAL/008 Dtd.17/03/2020
2.Name of work	Repair & Renovation works at PG Block-Electrical works
3.Location of work	PG Block, Goa College of Engineering Campus, Farmagudi, Ponda, Goa-403401
4.Estimated Cost (Including GST)	Rs.7,98,117/- Only
5.Earnest Money Deposit	Rs.15,962/- Only
6.Performance Guarantee	Rs.39,906/- Only
7.Period of work	Two Months (60 Days). From date of issue of work order.
8.Tender Fee	Rs.500/- Only
9.Tender Basis and Mode	Two Stage (Technical Bid & Financial Bid)
10.Mode of Payment to IITG (Tender Fee & EMD)	Demand Draft/ Bank Guarantee in favor of IIT Goa Main Account payable at Goa. (Cheque will not be accepted)
11.Date, Time & Venue of Pre bid meeting.	08-05-2020 at 11.00 hrs at C&EMD Office, IIT Goa
12. Closing Date & Time of receiving of bids.	15-05-2020 at 15.00 hrs
13. Date & Time of opening of Technical Bid.	15-05-2020 at 15.30 hrs at C&EMD Office, IIT Goa
14. Date & Time of opening of Financial Bid.	Will be intimated to qualified agencies.

15. Address of tender issue, submission and opening	Tender documents will be available on the site as stated: https://www.iitgoa.ac.in (Under tender Section) & CPP Portal. Tender submission & opening place: C& EMD OFFICE, IIT GOA
16. Website for full and updated information.	https://www.iitgoa.ac.in (Under tender Section) & CPP Portal.

1.3. ELIGIBILITY CRITERIA

1.3.1. The bidder must be registered in appropriate class of works with Government organization like CPWD/ PWD/ MES or PSUs or those having experience in similar nature of works awarded by Government / Semi Government Organizations/ Government Funded Autonomous Organization or having experience in execution of similar works.

1.3.2. The bidder must have done at least 1 (ONE) similar work of value of 80% of the estimated cost or 2 (TWO) similar works for projects each of value 60% of the estimated cost or 3 (THREE) similar work for projects each of value 40% of the estimated cost with Government/ Semi-government/ PSU/ Government Funded Autonomous Organization during last 7 (seven) years preceding last date of the month of tender submission or having experience in execution of similar works.

Note:

- (i) The estimated cost is ₹ 7,98,117/- (Rupees Seven Lakhs Ninety-Eight thousand One Hundred and Seventeen Only).
- (ii) Similar works shall mean: Building works/ maintenance of Electrical works

1.3.3. The bidder must be registered with appropriate government authority as a bonafide business entity and must have GST registration certificate and Permanent Account Number of income tax.

1.3.5. The registrations and licenses should be valid during the execution phase.

1.3.6. Net worth certificate from a Chartered accountant (CA) to be furnished which should be not less than 15% of the estimated cost. (i.e. Rs. 1,19,718/-),

1.3.7. Average annual turnover for the last three years of the bidder as per ITCC or profit & loss statement shall not be less than 50% of the estimated cost (i.e. Rs. 3,99,058/-), not having incurred loss in more than two years, during last 5 years ending 31 Mar 2019.

1.3.8. The agencies should enclose the Xerox copies of the following;

- a) Performance certificate.
- b) GST Registration.
- c) PAN
- d) EPFO Registration Certificate.
- e) ESIC Registration Certificate.
- f) Registration under CPWD/PWD/MES/PSU/Others

INFORMATION TO BIDDERS

2.1. SCOPE OF WORK

2.1.1. The IITGoa invites tender for Electrical renovation of various rooms of PG Block.

2.1.2. The contractor shall arrange to provide service on Saturdays, Sundays and other holidays in case of emergency as required by the Engineer in Charge, failing which penal recovery shall be made, decision of Engineer in Charge will be final.

2.1.3. The contractor shall provide a supervisor for supervising all the works carried out. The minimum qualification should be Diploma.

2.1.4. The complains received by the contractor during normal working hours should be attended to, at the shortest possible time.

2.1.5. The contractor shall provide daily report stating the nature of complaints/ work done, to the Engineer in Charge or authorized representative daily in the format.

2.1.6. The contractor shall provide & maintain a triplicate book for receiving the job complaint order from Engineer in Charge Daily in the approved format.

2.1.7. All the replaced items must be stored in the store room as specified by the Engineer in charge.

2.1.8. No debris shall be left over during the installation works under each item on any day. An area for 'Debris bins' will be identified on the request of contractor for collection of debris generated on day to day basis. The Debris from debris bin shall be cleared as and when required. The contractor must maintain adequate number of wheel barrows all the time for shifting the debris to Debris bin.

2.1.9. The contractor should handover "As Built" drawing, schematic circuit diagram etc. and also provide proper single line diagram and labeling's on each of the DB's .

2.1.10. Police Verification Certificate of all workers shall be obtained by Contractor.

2.2. GENERAL INSTRUCTIONS

2.2.1. Bidding documents are to be obtained electronically through websites: <https://www.iitgoa.ac.in> (Under tender Section) & CPP Portal. The tender fee in the prescribed mode must accompany the tender documents.

2.2.2. This bid document shall be read in conjunction with GCC (General Conditions of Contract) laid down in the CPWD manual and the applicable specifications of CPWD.

2.2.3. The bidder shall visit and inspect the site and obtain all information on his own responsibility and at own cost, which may be necessary for the purpose of quoting and submitting the tender. No excuse or ignorance as to site conditions and local information shall be accepted after awarding of the contract. Access to the site will be granted by the Engineer-in-charge on all working days within working hours.

2.2.4. The water should be arranged by the agency only.

2.2.5. All clarifications about the tender shall be sought by bidder on or before pre-bid meeting. The bidders may make suggestions which shall be considered during the Pre Bid Meeting. No queries shall be entertained after notification of replies to noteworthy queries received till the date of pre-bid meeting.

2.2.6. The bidder should have relevant contractor's license from Electrical Licensing board of Goa. The contractor should enclose copies of valid contractor license copy duly self-attested by the contractor himself.

2.2.7. Completion certificate issued by Competent Authority will only be considered as credential. If the Completion certificate issued by Competent Authority does not reflect the type of work, then Final bill / Schedule of Quantity of the qualifying works also to be attached along with the Completion certificates. Certificate from private individuals / organizations for whom such works have been executed shall also be accepted.

2.2.8. The bidding document (consisting of the schedule of quantities of various types of items to be executed, the set of terms and conditions of the contract and other documents / drawings, if any), Corrigenda, Clarifications to Pre-bid queries can be downloaded from the website: <https://www.iitgoa.ac.in> (Under tender Section) Corrigenda, if any shall be published only on these website. The institute shall not be responsible for any delay / difficulties / inaccessibility of downloading facility for any reason whatsoever.

2.2.9. All costs, charges & expenses that may be incurred in connection with the preparation of the tender shall be borne by contracting and the Institute accepts no liability whatsoever therefore.

2.2.10. Rates quoted by the bidders shall be inclusive of GST (Goods and Services Tax - Central, State and Interstate) and all applicable taxes. Income Tax and all other statutory deductions like labour cess etc. will be deducted from the bill as per prevailing rules.

2.2.11. Exemption to IIT Goa against any tax/ duty/ fee/ surcharge/ charge/ cost, if any, found applicable or sought later from IIT Goa after award shall be passed on to IITG by the contractor without dispute.

2.2.12. IIT Goa reserves the right to reject any or all of the bids without assigning any reason.

2.2.13. Bid Validity: Bid shall remain valid for 120 days from the date of submission.

2.2.14. Firm Price: Bidder's quoted Rates/Prices for executing the activities under the Contract shall remain firm till the period of one year & shall not attract any escalation under any circumstances whatsoever.

2.2.15. If any information furnished by the bidder is found as false / fabricated, then his bid will be rejected and treated as cancelled. Even if such manipulation is detected at any stage after signing of the contract, it would lead to termination of the contract besides forfeiture of Earnest Money Deposit and liabilities towards prosecution. In such cases the bidder will be debarred from participation in future tendering process in IIT Goa for next 05 (Five) years.

2.2.16. Earnest Money Deposit (EMD) of requisite amount and that in prescribed mode or proof of payment thereof shall be enclosed with the Technical Bid explained in following section.

2.2.17. Refund / Conversion of Earnest Money Deposit: The Earnest Money received shall be refunded to the unsuccessful bidders without any interest upon executing the Contract

Agreement by successful bidder. The Earnest Money Deposit of successful bidder shall be retained and converted into part of Security Deposit.

2.2.18. Forfeiture of Earnest Money Deposit: Earnest Money Deposit will be forfeited in any of the following cases:

- (i) The bidder withdraws / modifies his tender during the period of Bid Validity.
- (ii) The bidder, in case of tie between lowest bids, refuses to submit revised offer.
- (iii) The bidder does not accept the correction of arithmetical errors of his tender.
- (iv) The bidder does not submit the performance guarantee within specified time after issue of work order.
- (v) Fails to commence the work after issue of work order within the specified time.

2.3. SUBMISSION OF TENDER

2.3.1. The sealed tenders shall be received at the C&EMD Office, IIT Goa, Goa College of Engineering Campus, Farmagudi, Ponda Goa-403401 up to 15:00hrs, 15th May' 2020 or as per Corrigenda otherwise.

2.3.2. Tenders received after the due date and time shall not be considered.

2.3.3. Tenders shall be submitted in a sealed Master envelope super scribed "Renovation of PG Block - Electrical works with the NIT No. IITGOA/C&EMD/2020/ELECTRICAL/008 Dtd.17/03/2020, containing three separate sealed covers, each clearly super scribed as "Tender Fee and EMD", "Technical Bid" and "Financial Bid" respectively, in the following manner:

2.3.4. Envelope-1 (Tender FEE & EMD) will consist of:

- i) Tender Fee for ₹ 500/- (Non-refundable), in the prescribed mode or proof of payment thereof.
- ii) Earnest Money Deposit of requisite amount, in the prescribed mode or proof of payment thereof.

2.3.5. Tender without payment of Earnest Money Deposit would be summarily rejected.

2.3.6. Envelope-2 (Technical Bid) will consist of:

- (i) Covering letter of the offer signed by firm's authorized signatory.
- (ii) Documents establishing the identity and authenticity of the bidder/ bidding firm
- (iii) Self-certified copies of all the documents in support of eligibility of bidder.

2.3.7. Envelope-3 (Financial Bid) will consist of the complete tender document, each page duly signed and stamped by the bidder as acceptance of the conditions, Declaration by Bidder and Financial Bid all duly filled-in, signed by the bidder or his/her authorized signatory and stamped.

2.4. EVALUATION OF BIDS AND AWARD OF WORK

2.4.1. The Technical Bid of bidder will be opened on the specified date and time of opening at the C & EMD Office, IIT GOA, GEC Campus, Farmagudi, Ponda Goa in the presence of willing bidders or their authorized representatives.

2.4.2. Date, time and place of opening of Financial Bid will be informed after evaluation of Technical Bid to the Technically Qualified Bidders.

2.4.3. Bids shall, first be checked for payment of Tender Fee and Earnest Money Deposit. Only those bids found to have duly paid/ submitted Tender Fee and Earnest Money Deposit shall be considered for evaluation.

2.2.4. Evaluation of Technical Bid: The bids received will then be assessed on the eligibility criteria mentioned at para 1.3 of Notice Inviting Tender. Bids found not meeting the eligibility criteria shall be considered non-responsive and shall be rejected summarily.

2.2.5. IITG retains the right to revert back to individual bidders with further clarifications / queries on the Technical Bid. The bidder has to respond to the queries within the specified time mentioned in the covering letter.

2.2.6. On the date & time specified for opening of Financial Bid or the Revised Financial Bids as the case may be will be opened on specified date and time.

2.2.7. EVALUATION OF Financial Bids: The Financial Bid should contain the complete bid document with duly filled in Schedule of Financial Quote. Financial Bids opened as above will be checked for arithmetical errors.

2.2.8. The successful bidder shall be issued Letter of Award (Work order) of the bid, and the bidder is required to furnish a Performance Guarantee as per General Conditions of Contract (CPWD - GCC Manual) within 7 days' time after issuing of work order.

2.2.9. Agreement (Contract) consisting of complete tender document including conditions, bill of quantities, technical proposal and specialized services, drawings, if any, and acceptance thereof together with any correspondence leading thereto, shall be drawn and signed with the awardee after issue of Work Order.

2.2.10. Date of start of work shall be reckoned from 15th day from the date of issue of "Work Order".

3. UNDERTAKING BY THE BIDDER

UNDERTAKING

I / We have read and examined the Tender document including terms & conditions, specifications, bill of quantities, drawings and designs, general rules & directions, General Conditions of Contract, Special Conditions of Contract and all relevant other documents, publications and rules referred to in the Conditions of Contract (CPWD GCC) and all other contents in the tender documents for the work including applicable CPWD Specifications.

I / We, hereby tender for execution of the work specified for the Indian Institute of Technology Goa within the time specified and in accordance in all respects with the specifications, designs, drawings and instructions in writing.

We agree to keep the tender open for 75 days from the last date of its submission and not to make any modifications in its terms and conditions. A sum of Rs. _____ has been deposited in cash/ demand draft of a scheduled bank as earnest money. If I / we, fail to furnish the prescribed performance guarantee within prescribed period, I / we agree that the said Director, Indian Institute of Technology Goa or his authorized officer shall without prejudice to any other right or remedy, be at liberty to forfeit the said earnest money absolutely. Further, if I / we fail to commence work as specified, I / we agree that the Director, Indian Institute of Technology Goa shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the said earnest money and the performance guarantee absolutely, otherwise the said earnest money shall be retained by him towards security deposit to execute all the works referred to in the tender documents upon the terms and conditions contained or referred to therein.

Further, I / We agree that in case of forfeiture of earnest money or both Earnest Money & Performance Guarantee as aforesaid, I / We shall be debarred for participation in the re-tendering process of the work.

I / We hereby declare that I / We shall treat the tender documents and other records connected with the work as secret / confidential documents and shall not communicate information derived there-from to any person other than a person to whom I / We am / are authorized to communicate the same or use the information in any manner prejudicial to the safety of the State.

Seal & Signature of Contractor

Postal Address

Dated

Witness

Address

Occupation

PART - B (FINANCIAL BID)

Scheduled Items

Sr No.	DSR 2018 No.	Discription of Items	Unit	Quantity	Rate	Amount
1	1.10.3	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required. Group C	Nos	70		
2	1.14.10	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required. 4 X 10 sq. mm + 2 X 6 sq. mm earth wire.	R. M	15		
3	1.14.11	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required. 4 X 16 sq. mm + 2 X 6 sq. mm earth wire.	R. M	200		
4	1.17.12	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit as required. 3 x 2.5 sq. mm	R. M	1000		
5	1.24.1	Supplying and fixing following piano type switch/ socket on the existing switch box/ cover including connections etc. 5/6 amp SP switch ISI marked	Nos	50		
6	1.24.3	Supplying and fixing following piano type switch/ socket on the existing switch box/ cover including connections etc. 15/16 amp SP switch ISI marked	Nos	75		
7	1.24.4	Supplying and fixing following piano type switch/ socket on the existing switch box/ cover including connections etc. 3 pin 5/6 amp socket outlet ISI marked	Nos	50		
8	1.24.5	Supplying and fixing following piano type switch/ socket on the existing switch box/ cover including connections etc. 6 pin 15/16 amp socket outlet ISI marked	Nos	75		
9	1.27.2	Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc. as required. 1 or 2 Module (75mmX75mm)	Nos	35		
10	1.27.4	Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc. as required. 6 Module (200mmX75mm)	Nos	37		
11	1.27.6	Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc. as required. 12 Module (200mmX150mm)	Nos	16		
12	1.55.3	Wiring for group controlled (looped) light point/fan point/exhaust fan point/ call bell point (without independent switch etc.) with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed PVC conduit, and earthing the point with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable etc. as required. Group C	Nos	40		
13	2.4.1	Supplying and fixing following way, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator) 4 way (4+12), Double Door.	Nos	3		
14	2.4.2	Supplying and fixing following way, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator) 6 way (4+18), Double Door.	Nos	2		
15	2.4.3	Supplying and fixing following way, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator) 8 way (4+24), Double Door.	Nos	1		
16	2.10.1	Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. 10 amp Single Pole	Nos	32		
17	2.10.2	Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. 20 amp Single Pole and Neutral	Nos	50		
18	2.13.1	Supplying and fixing following rating, four pole, 415 V, isolator in the existing MCB DB complete with connections, testing and commissioning etc. 40 A	Nos	1		
19	2.13.2	Supplying and fixing following rating, four pole, 415 V, isolator in the existing MCB DB complete with connections, testing and commissioning etc. 63 A	Nos	5		
20	2.18	Supplying and fixing 20 A, 240 V, SPN Industrial type socket outlet, with 2 pole and earth, metal enclosed plug top alongwith 20 A "C" curve, SP, MCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket outlet and complete with connections, testing and commissioning etc. as required.	Nos	30		
21	5.2	Earthing with G.I. earth pipe 4.5 metre long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal/ coke and salt as required.	Nos	2		
22	5.8	Supplying and laying 25 mm X 5 mm copper strip at 0.50 metre below ground as strip earth electrode, including connection/ terminating with nut, bolt, spring, washer etc. as required. (Joining shall be done by overlapping and with 2 sets of brass nut bolt & spring washer spaced at 50mm),	R. M	15		
23	Schedule of Rates & Delhi Analysis of Rates (E&M)	Current (BLDC) Motor, class of insulation: B, 3 nos. blades, 30 cm long down rod, 2 nos. canopies, shackle kit, safety rope, copper winding, Power Factor not less than 0.9, Service Value (CMM/W) minimum 6.85, Air delivery minimum 215 CMM, 350 RPM (tolerance as per IS : 374- 2019), THD less than 10%, remote or electronic regulator unit for speed control and all remaining accessories including safety pin, nut bolts, washers, temperature rise=75 degree C (max.), insulation resistance more than 2 mega ohm, suitable for 230 V, 50 Hz, single phase AC Supply, earthing etc. complete as required.	Nos	35		

Total A

Non-Scheduled Items

Sr No.	Discription of Items	R. M/Nos	Quantity	Rate	Amount
1	6W LED Spot Light	Nos	6		
2	2x2 Ceiling LED Lights	Nos	60		

3	40 W LED Tube Lights	Nos	10	
Total B				
Total A+B				