



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

**TENDER DOCUMENT EXTERNAL ELECTRICAL WORKS FOR
SETTING UP LABS IN PREFABRICATED CABINS AT IIT GOA,
FARMAGUDI, PONDA, GOA**

NIT: IITGOA/C&EMD/2022/019 DTD. 18/05/2022

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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 quotations from licensed contractors for External Electrical Works for Setting Up Labs In Prefabricated Cabins. Particulars of the work are as follows.

1.2 Particulars

1.NIT No	IIT GOA/C&EMD/2022/019 dtd. 18/05/2022
2.Name of work	External Electrical Works for Setting Up Labs In Prefabricated Cabins
3.Location of work	IIT Goa transit campus at GEC Farmagudi.
4.Estimated Cost (Including GST)	Rs. 3,26,055/- Only
5. Tender Fees	Rs. 500/-
6.Earnest Money Deposit	2% of Estimated Cost i.e. Rs. 6,501/- only.
7.Performance Guarantee	3% of Work order value (as given in Annexure – C)
8. Security Deposit	5% of the completed amount.
9.Completion time	21 days from the 7th day of issue of work order.
10.Tender Basis and Mode	Two Stage (Technical Bid & Financial Bid)
11. Closing Date & Time of receiving of bids.	25 th of May 2022 till 15:00 hrs
12. Date & Time of opening of Technical Bid.	25 th of May 2022 at 15:30hrs
13. Date & Time of opening of Financial Bid.	Will be intimated later to technically qualified parties only.
14.Address of tender issue, submission and opening	Tender documents will be available on the site as stated: https://iitgoa.ac.in/tenders/ . Tender submission & opening place: C&EMD OFFICE, IIT GOA
15. Website for full and updated information.	https://iitgoa.ac.in/tenders/ and https://eprocure.gov.in/eprocure/app

Sd/-
Registrar, IIT-Goa

1.3. ELIGIBILITY CRITERIA

1.3.1. The bidder must be registered in appropriate class of works with Government organization like CPWD/ PWD/ MES/ PSUs/Reputed private firms 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 in any reputed private firms.

1.3.2. The bidder must have a valid contractor's license issued by the Govt. of Goa for carrying out the electrical work in MV category.

1.3.3. The bidder must have successfully completed at least 1 (ONE) similar work of value equal to or greater than Rs. 2,60,844/- (80% of the estimated cost) or 2 (TWO) similar works, each of value equal to or greater than Rs. 1,94,633/- (60% of the estimated cost) or 3 (THREE) similar works, each of value equal to or greater than Rs. 1,30,422/- (40% of the estimated cost) with Government/ Semi-government/ PSU/ Government Funded Autonomous Organization or reputed Pvt. Organizations during last 7 (seven) years preceding last date of the month of tender submission. In case of private works, the same shall be supported by TDS certificate for the work under consideration along with the document of having satisfactorily completed the above work to the satisfaction of Engineer-in -Charge.

Note:

- i. The estimated cost is Rs. 3,26,055/- (Rupees Three Lakhs Twenty-Six Thousand and Fifty-Five Only).
- ii. Similar works shall mean: Supply, Installation, Testing and Commissioning of LT panels, laying of LT cables etc.

1.3.4. 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 contractor's licenses should be valid during the execution phase.

1.3.6. A Certificate/Undertaking on the letter head of the Company to the effect that the bidder/Manufacturer has not been blacklisted anywhere in India or abroad by any organization. A self-certification to this effect is required to be enclosed as given in Appendix-B.

1.3.7. Average annual turnover for the last three years of the bidder as per ITCC certified by the CA shall not be less than the estimated cost (i.e. Rs. 3,26,055/-).

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

- a) Registration of the firm.
- b) GST Registration.
- c) PAN
- d) Valid electrical Contractor's License issued by Govt. of Goa
- e) Work order copy and completion certificate from the client as per the criteria 1.3.3
- f) TDS Certificate in support of private works as per criteria 1.3.3 along with work order copy and completion certificate

2. INFORMATION TO BIDDERS

2.1. SCOPE OF WORK

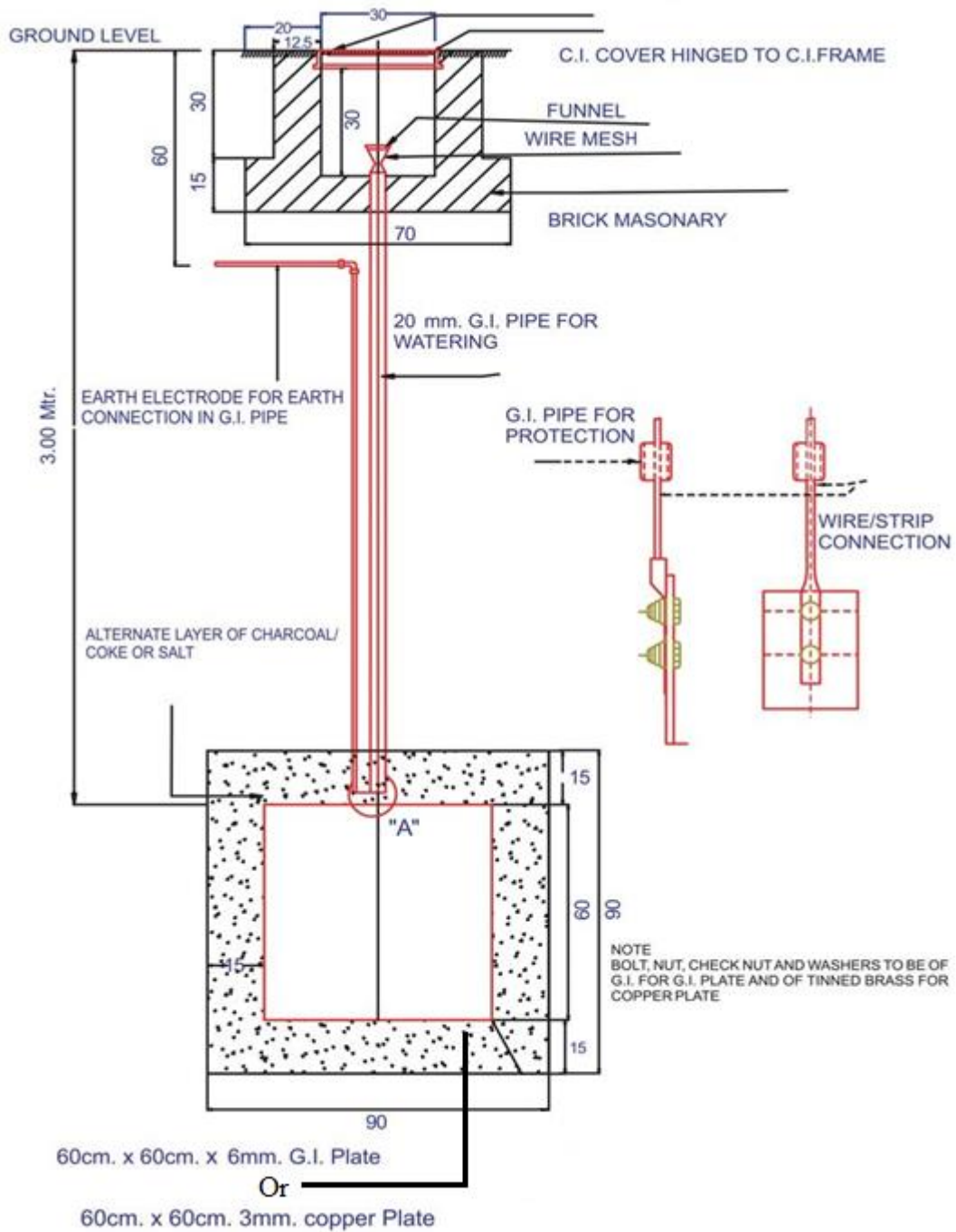
2.1.1 Scope of work shall include SITC of 100 amps MCB along with an enclosure.

2.1.2 Supplying and Laying of armoured PVC/XLPE insulated, PVC sheathed aluminium conductor cable of 1.1 KV grade with ISI mark conforming to IS:1554(Part I), IS:7098(Part I) with latest amendments of 3 ½ core 35 sq.mm and 4 core 16 sq.mm cable in trench in rocky strata.

2.1.3 Supply, installation(including civil foundation), testing and commissioning, of compartmentalised floor/wall mounted outdoor type, double door, double roof, made out of minimum 2 mm thick CRCA sheet steel duly phosphatised and powder coated painting suitable for three phase 415 V, 50 Hz system, of suitable size and depth with 300 Amps TPN aluminium bus bar with interconnection, incoming and outgoing connection, IP55 minimum and providing SFU/SDF along with fuses as follows: a) Incomer: One number of 100 Amps capacity with analog ammeter and volt meter of size 100 mm of suitable range. b) Outgoing: Three numbers each of 63 Amps capacity. c) One bus bar chamber and two Cable alley. with all necessary material/accessories including foundation etc. Note: The panel supplied by the bidder must conform to IS 8623 (Part 1): 1993/IEC 60439-1 (1985) and IS 8623 (Part 2):1993/IEC 60439-2 (1987).

2.1.4 Earthing (including soft soil 3 cubic metre) with copper earth plate 600 mm X 600 mm X 3 mm thick (10.5 kgs) including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 20 mm dia, 2.7 metre long along with funnel, medium class etc. with charcoal/ coke (100 kgs) and salt (5 kgs) as required. Pit Dimensions [Length x Breath x Height] 1,000 mm x 1,000 mm x 3,700 mm as given in the following figure

Fig No. 1 Typical Layout of Copper Plate Earthing



2.2. GENERAL INSTRUCTIONS

2.2.1. Bidding documents are to be obtained electronically through websites: <https://iitgoa.ac.in/tenders/>.

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, Electrical work Part-1 (internal)-2013 and Maintenance Manual 2019.

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. 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 organizations for whom such works have been executed shall also be accepted.

2.2.6. 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), Corrigendum, Corrigendum, if any shall be published only on these websites. The institute shall not be responsible for any delay / difficulties / inaccessibility of downloading facility for any reason whatsoever.

2.2.7. All costs, charges & expenses that may be incurred in connection with the preparation of the bid shall be borne by contracting firm and the Institute accepts no liability whatsoever thereon.

2.2.9. Rates quoted by the bidders shall be inclusive of labour charges and 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.

2.2.10. 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 IIT Goa by the contractor without dispute.

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

2.2.12. Bid Validity: Bid shall remain valid for 180 days from the date of opening of financial bids.

2.2.13 Material should be deposited at site within 7 days of issue of work order. Materials required for satisfactory completion of work shall be of approved quality, make, grade etc. and conforming to the relevant Indian Standard Specifications (Latest revision) wherever applicable and as approved by the Engineer-in-charge. All material before erection should be shown to the engineer-in-charge for quality check and approval.

2.2.14 The work must be completed within 21 days starting from the 7th day of date of issue of work order.

2.2.15 A penalty of 0.05% per day (of work order amount) will be imposed for delay in depositing the material within the stipulated time as mentioned in Pt. 2.2.13. A penalty of 0.1% per day (of Work order amount) will be imposed for delay in completion of work within the stipulated time as mentioned in Pt. 2.2.14 subject to limit of 0.5% of the Work order value.

2.2.16. Firm Price: Bidder's quoted Rates/Prices for executing the activities under the Contract shall remain firm till the completion of the period of AMC (i.e. One year from the date of issue of work order) & shall not attract any escalation under any circumstances whatsoever.

2.2.17. Payment shall be made after the completion of the work and on the basis of actual measurement carried out at site. Security deposit of 5% of the completed value shall be retained with IIT Goa for a period of one year of defect liability period. If any defect in the work is detected within one year of completion date due to bad workmanship or material supplied by the contractor, the same shall be made good by the contractor free of cost to IIT Goa. In case the contractor fails to rectify the defect promptly, the defect will be rectified and made good by IIT at the risk and cost of the contractor. The amount shall be recovered from the security deposit amount.

2.2.18. 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 and the contractor shall be liable towards prosecution. In such cases the bidder will be debarred from participation in future tendering process in IIT Goa for next 05 (Five) years.

2.3. 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, 25th of May 2022 or as per Corrigendum 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 "External Electrical Works for Setting Up Labs In Prefabricated Cabins" with the NIT No. IIT GOA/C&EMD/2021/019 DTD. 25th of May 2022, containing three separate sealed covers, each clearly super scribed as "EMD and Tender Fees", "Technical Bid" and "Financial Bid" respectively, in the following manner:

2.3.4. Envelope-1 will consist of Demand Draft in the favour of IIT Goa of both EMD and Tender Fees.

2.3.5. Tender without submission of EMD would be summarily rejected.

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

- (i) Covering letter of the technical 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 ref. clause 1.3
- (iv) Undertaking by the bidder as per Appendix-A

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 and the Financial Bid all duly filled-in, signed by the bidder or his/her authorized signatory and stamped. The name of the person signing the bid documents with his designation in the firm/company must be clearly mentioned.

2.4. EVALUATION OF BIDS AND AWARD OF WORK

2.4.1. The Technical Bid of bidders 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. Bids shall, first be checked for bid security declaration. Only those bids found to have duly submitted bid security declaration shall be considered for evaluation.

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

2.4.4. Evaluation of Technical Bid: The bids received will then be scrutinized on the basis of 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.

2.4.5. IIT Goa 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 failing which they may be considered as non-responsive and shall be rejected.

2.4.6. **Evaluation of Financial Bids:** The Financial Bid should contain the complete bid signed by the authorized representative of the firm and the financial bid duly filled in Indian rupees. Financial Bids opened as above will be checked for arithmetical errors. The work will be finalized on lowest quotation basis.

2.4.7. **The lowest bidder shall be issued work order for carrying out the External Electrical Works for Setting Up Labs In Prefabricated Cabins, and such bidder is required to furnish a Performance Guarantee within seven working days from the date of issue of work order.**

2.4.8. 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.

2.4.9. Conditional tender will not be accepted.

PART B (FINANCIAL BID)

Sr No.	Particular	Units	Qty	Rate	Amount
1	Providing and fixing following rating and breaking capacity and pole MCCB with thermomagnetic release and terminal spreaders in existing cubicle panel board including drilling holes in cubicle panel, making connections, etc. as required.				
1.1	100 A, 30KA, FPMCCB	Each	1		
2	DP sheet steel MCCB enclosure	Each	1		
3	Supply of 3 1/2 core armoured PVC/XLPE insulated, PVC sheathed aluminium conductor cable of 1.1 KV grade with ISI mark conforming to IS:1554(Part I) ,IS:7098(Part I) with latest amendments of following size.				
3.1	3 1/2 Core 35 sq.mm	R.M	150		
4	Laying of one number PVC insulated and PVC sheathed/XLPE power cable of 1.1 KV grade of size 35 sq.mm direct in ground including excavation in the form of a trench as per Cable Trench Drawing provided by the Engineer-Incharge,sand cushioning with screened sand bed of 20mm thick , protective covering with bricks placed breadth-wise on top of cable all over the run(the brick protection shall cover the cable and project atleast 5 cms over the sides of the cable)and backfilling the excavated earth without stones or hard material and making the surface proper with 15 cm crown on the top complete as required.				
4.1	In rocky strata	R.M	150		
5	Supply of 4 core unarmoured PVC/XLPE insulated, PVC sheathed aluminium conductor cable of 1.1 KV grade with ISI mark conforming to IS:1554(Part I) ,IS:7098(Part I) with latest amendments of following size.				
5.1	4 Core 16 sq.mm	R.M	50		
6	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on wall surface as required.				
6.1	16 sq. mm (clamped with 1mm thick saddle spaced at a distance of 300 mm)	R.M	20		
7	Laying of one number PVC insulated and PVC sheathed/XLPE power cable of 1.1 KV grade of size16 sq.mm direct in ground including excavation in the form of a trench as per Cable Trench Drawing provided by the Engineer-				

	Incharge, sand cushioning with screened sand bed of 20mm thick , protective covering with bricks placed breadth-wise on top of cable all over the run(the brick protection shall cover the cable and project atleast 5 cms over the sides of the cable) and backfilling the excavated earth without stones or hard material and making the surface proper with 15 cm crown on the top complete as required.				
7.1	(b) In rocky strata	R.M	30		
8	Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.				
8.1	3½ X 35 sq. mm (32mm)	Each	2		
8.2	4 X 16 sq. mm (28mm)	Each	4		
9	Supply, installation(including civil foundation), testing and commissioning, of compartmentalised floor/wall mounted outdoor type, double door, double roof, made out of minimum 2 mm thick CRCA sheet steel duly phosphatised and powder coated painting suitable for three phase 415 V, 50 Hz system, of suitable size and depth with 300 Amps TPN aluminium bus bar with interconnection, incoming and outgoing connection, IP55 minimum and providing SFU/SDF along with fuses as follows: a) Incomer: One number of 100 Amps capacity with analog ammeter and volt meter of size 100 mm of suitable range. b) Outgoing: Three numbers each of 63 Amps capacity. c) One bus bar chamber and two Cable alley. with all necessary material/accessories including foundation etc. Note: The panel supplied by the bidder must conform to IS 8623 (Part 1): 1993/IEC 60439-1 (1985) and IS 8623 (Part 2):1993/IEC 60439-2 (1987)	Each	1		
10	Earthing (including soft soil 3 cubic metre) with copper earth plate 600 mm X 600 mm X 3 mm thick (10.5 kgs) including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 20 mm dia, 2.7 metre long along with funnel, medium class etc. with charcoal/ coke (100 kgs) and salt (5 kgs) as required. Pit Dimensions [Length x Breath x Height] 1,000 mm x 1,000 mm x 3,700 mm as per CPWD specifications	Each	2		
Total					

(To be printed in letter head)

CERTIFICATE

I hereby certify that the above firm (name & address of the firm) neither blacklisted / debarred by any Central/State Government/Public Undertaking/Institute nor is any criminal case registered / pending against the firm or its owner / partners anywhere in India.

I also certify that the above information is true and correct in every respect and in case, at a later date, it is found that any details provided above are incorrect, the tender/ contract given to the firm may be summarily terminated and the firm may be blacklisted.

Signature with Date:

Name:

Designation:

Official Seal:

(To be printed in letter head)

General Business Information

1. Business name:
2. Head office address:
3. Phone number:
4. Email address:
5. Company status:
6. Contact details of person in-charge (His/Her name, phone, email address):

Business Information

1. Date of Incorporation:
2. Main product/services:

Signature with Date:

Name:

Designation:

Official Seal:

PERFORMANCE GUARANTEE

In consideration of the Indian Institute of Technology Goa (IIT Goa) having offered to accept the terms and conditions of the proposed agreement between..... and.....(hereinafter called “the said Contractor(s)”) for the works.....(hereinafter called the said agreement”) having agreed for production of an irrevocable Bank Guarantee for Rs.....(Rupees.....only) as a security/ guarantee from the contractor(s) for compliance of his obligations in accordance with the terms and conditions in the said agreement.

1. We,.....(hereinafter referred to as “the Bank”) hereby undertake to pay Indian Institute of Technology Goa an amount not exceeding Rs.....(Rupees.....Only) on demand by IIT Goa.
2. We,.....(indicate the name of the Bank) do hereby undertake to pay the amounts due and payable under this guarantee without any demure merely on a demand from IIT Goa stating that the amount claimed as required to meet the recoveries due or likely to be due from the said contractor(s). Any such demand made on the bank shall be conclusive as regards the amount due and payable by the bank under this Guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs.....(Rupees.....Only)
3. We, the said bank further undertake to pay IIT Goa any money so demanded notwithstanding any dispute or disputes raised by the contractor(s) in any suit or proceeding pending before any court or Tribunal relating thereto, our liability under this present being absolute and unequivocal. The payment so made by us under this bond shall be a valid discharge of our liability for payment and the Contractor(s) shall have no claim against us for making such payment.
4. We,.....(indicate the name of bank) further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said agreement and that it shall continue to be enforceable till all dues of IIT Goa under or by virtue of the said agreement have been fully paid and its claims satisfied or discharged or till Engineer-In-Charge on behalf of IIT Goa certified that the terms and conditions of the said agreement have been fully and properly carried out by the said Contractor(s) and accordingly discharges this guarantee.
5. We,.....(indicate the name of the bank) further agree with IIT Goa that IIT Goa shall have the fullest liberty without any consent and without effecting any manner our obligation hereunder to vary any terms and conditions of the said agreement or to extend time of performance by the said Contractor(s) from time to time or to postpone from any time or from time to time any of the powers exercisable by IIT Goa against the said contractor(s) and to forbear or enforce any of the terms & conditions relating to the said agreement and shall not be relieved from our liability by reason of any such variation, or extension being granted to the said Contractor(s) or for any forbearance, act of omission on part of IIT Goa or any indulgence by IIT Goa to the said Contractor(s) or by any such matter or thing whatsoever which under the law relating to sureties would, but for provision, have effect of so relieving us.
6. This guarantee will not be discharged due to change in the constitution of the Bank or the Contractor(s).
7. We,.....(indicate the name of Bank) lastly undertake not to revoke the guarantee except with the previous consent of IIT Goa in writing.

This guarantee shall be valid up to.....unless extended on demand by IIT Goa. Notwithstanding

anything mentioned above, our liability against the guarantee is restricted to

Rs.....(Rupees.....) and unless a claim in writing is lodged with us within six months of the

date of expiry or the extended date of expiry of this guarantee all our liabilities under this guarantee shall stand

discharged. Dated theday of for..... (indicate the name of the Bank)