

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

## NOTICE INVITING TENDER FOR ANNUAL REPAIR AND MAINTENANCE CONTRACT FOR ELECTRICAL WORKS AT IIT GOA

NIT: IITGOA/C&EMD/2023/007 DATED: 26th of April 2023



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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 bids for "Annual Repair & Maintenance Contract for Electrical Works at IIT Goa", IIT Goa. Particulars of the work are as follows.

### 1.2 PARTICULARS

1.NIT No	IITGOA/C&EMD/2022/007 dated. 26 <sup>th</sup> of April 2023				
2.Name of work	Annual Repair & Maintenance Contract for				
	Electrical Works at IIT Goa.				
3.Location of Supply	IIT Goa transit campus at GEC Farmagudi.				
4.Estimated Cost (Including GST)	Rs. 14,25,784/- Only				
5. Tender Fees	Rs. 500/-				
6.Earnest Money Deposit	2% of Estimated Cost i.e. Rs. 28,516/- only.				
7.Performance Guarantee	3% of work order value as given in Appendix –				
	В				
8. Security Deposit	5% of the completed value and EMD will be				
	adjusted against the security deposit.				
9. Time period of Work	365 days				
10.Tender Basis and Mode	Two Stage (Technical Bid & Financial Bid)				
11. Closing Date & Time of receiving of	10 <sup>th</sup> of May 2023 till 15:00 hrs				
bids.					
12. Date and time of Pre-bid meeting	03 <sup>rd</sup> of May 2023 at 15:00 hrs				
13. Date & Time of opening of Technical	10 <sup>th</sup> of May 2023 at 15:30 hrs				
Bid.					
14. Date & Time of opening of Financial	Will be intimated later to technically qualified				
Bid.	parties only.				
15.Address of tender issue, submission	Tender documents will be available on the site				
and opening	as stated: <u>https://iitgoa.ac.in/tenders/</u> and				
	https://eprocure.gov.in/eprocure/app Tender				
	submission & opening place: C&EMD office, IIT				
	Goa				
16. Website for full and updated	https://iitgoa.ac.in/tenders/ and				
information.	https://eprocure.gov.in/eprocure/app				
17. Bid Validity	60 day from the date of opening of financial bid.				

Sd/-Registrar, IIT-Goa



#### 1.3. ELIGIBILITY CRITERIA

1.3.1. Reputed firms/contractors/vendors having their establishment in Goa and who are in the business of executing internal electrical works such as laying of U/G cables, conduit wiring, SITC of DBs, panels, construction of earth pits etc. for not less than three years are eligible.

1.3.2. The bidder must have experience in similar nature of works awarded by Government / Semi Government Organizations/ Government Funded Autonomous Organization.

- 1.3.3. The bidder must have successfully completed at least
  - 1 (ONE) similar work of value equal to or greater than 80% (i.e. Rs. 11,40,627/-) of the

### estimated cost

- OR
- 2 (TWO) similar works, each of value equal to or greater than 60% (i.e. Rs. 8,55,470/-) of the estimated cost

OR

3 (THREE) similar works, each of value equal to or greater than 40% (i.e. Rs. 5,70,313/-) 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.

Note:

- i. The estimated cost is Rs. 14,25,784/- (Rupees Fourteen Lakhs Twenty-Five Thousand Seven Hundred and Eighty-Four Only).
- ii. Similar works shall mean: SITC of cables/circuit wiring/earthing including laying of earth strip, rewinding and bearing replacement of motors etc.

1.3.4. The bidder must have a valid Contractor Licence in MV category or above issued by the Government of Goa for applying to this tender and the Licence must be valid during the execution period.

1.3.5. A Certificate/Undertaking on the letterhead 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-A.

1.3.6. Average annual turnover for the last three financial years of the bidder as per ITCC certified by the CA shall not be less than the estimated cost (i.e. Rs. 14,25,784/-).

1.3.7. The agencies should enclose the self-attested copies of the following;

- a) Valid Contractors Licence issued by Govt. of Goa
- b) GST Registration.
- c) PAN
- d) Work order copy and completion certificate from the client as per the criteria 1.3.2 & 1.3.3
- e) Copy of EPF and ESI registration(if applicable) or undertaking on firms letter head that EPF and ESI is not applicable with the reason thereof and the firm will be responsible for any consequence for non-compliance of EPF/ESI.
- f) Annual turnover certificate as per 1.3.6 above



#### 2. INFORMATION TO BIDDERS

#### 2.1. SCOPE OF WORK

- 2.1.1 Wiring for circuit/ sub main wiring along with earth wire with the sizes as mentioned in Item No. 1 of Part – B Financial Bid of this NIT, of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required. (Acceptable make of wires: Polycab/Finolex/RR; Conduit: Finolex/Polycab or equivalent)
- 2.1.2 Supplying and fixing vertical/horizontal type, single/three pole and neutral, sheet steel, MCB distribution board, 240/415 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) and of size as given in Item No. 2, 3 & 4 of Part B Financial Bid of this NIT.
- 2.1.3 Earthing with G.I./Copper earth plate 600 mm X 600 mm X 6(3 for copper) mm thick 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 (96 kgs) and salt (5 kgs) as given in Item No. 5 & 6 of Part B Financial Bid of this NIT.
- 2.1.4 Providing and fixing of earthing strip/wire as per Item No. 7, 8, 9, & 10 of Part B Financial Bid of this NIT.
- 2.1.5 Supplying and fixing of SPN/TPN type 240/415 volts Industrial socket with plug as described in Item No. 11 & 12 of Part B Financial Bid of this NIT.
- 2.1.6 Supply, Installation, Testing and Commissioning of 1200 mm sweep, BEE 5 star rated, ceiling fan with Brush Less Direct 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 (CM/M/W) minimum 6.00, Air delivery minimum 210 Cum/Min , 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.
- 2.1.7 Rewinding of motors(as given in Item No. 16 of Part B Financial Bid of this NIT) with enameled copper wire of suitable gauge and coated with adequate varnish complete as required.
- 2.1.8 Replacement of bearings of 1200 mm sweep ceiling fan.
- 2.1.9 Providing an Electrician and Helper for carrying out work as directed by the Engineer-in-Charge.



### 2.2. GENERAL INSTRUCTIONS

2.2.1 Bidding documents are to be downloaded from websites: <u>https://iitgoa.ac.in/tenders/</u> and <u>https://eprocure.gov.in/eprocure/app</u>.

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 & Works Manual 2019.

2.2.3 If the participating bidders are willing to attend the pre-bid meeting then such bidders must send a mail to <u>je.electrical@iitgoa.ac.in</u> keeping CC to <u>ex.eng@iitgoa.ac.in</u> & <u>estate@iitgoa.ac.in</u> along with their queries. The relevant queries will be answered in the pre-bid meeting which will happen through VC. Any reply to queries that affects the tender shall form part of the NIT and corrigendum for the same will be issued and the contractor shall quote accordingly.

2.2.4 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.

2.2.5 Completion certificate issued by Competent Authority on the letterhead of the respective organisation 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 is required to be attached along with the Completion certificates. The completion certificate shall contain details such as name of the work, date of starting of the work, completion date, final value, penalty levied if any.

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.

2.2.8 Rates quoted by the bidders shall be inclusive of labour charges, transportation 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.

2.2.9 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.

2.2.10 Bid Validity: Bid shall remain valid for 60 days from the date of opening of financial bids.

2.2.11 Material/spare parts should be shown to the Engineer-in-Charge before use in the work. Materials required for satisfactory completion of work shall be of approved quality, make, grade etc. and confirming 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.

2.2.12 Time is the essence of contract. It will be the responsibility of the qualified bidder to attend the issues within 24 to 48 hours of issue of complaint and rectify the problem within the time frame as given by the Engineer-in-Charge.

2.2.13 If the contractor fails to complete the work within the given time frame as in 2.2.12 then a penalty of 10% of the items rate will be imposed and same will be deducted from the running/final bill.

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

2.2.15 Payment shall be made as and when requested by the successful bidder in the form of running bill and on the basis of actual measurement carried out at site after adjusting EMD in proportionate manner. 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 same will be rectified and made good by IIT at the risk and cost of the contractor. The amount incurred in rectifying the said defects shall be recovered from the security deposit amount/bill.

2.2.16 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 02 (Two) years.

2.2.17 The technician deputed for the job by the successful bidder must have relevant work experience. The education qualification of the technicians must be at least ITI in *Electrical* and the technicians must be capable of executing all the jobs as given in *Part-B Financial Bid* of this NIT and as per the *Scope of Work* of this NIT

#### 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, 10<sup>th</sup> of May 2023 till 15:00 hrs 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(which will prevent folding of papers) super scribed "Annual Repair and Maintenance Contract for Electrical Works" with the NIT No. IIT GOA/C&EMD/2023/007 dated. 26<sup>th</sup> of April 2023, containing three separate sealed envelope **(preventing folding of papers)**, each clearly super scribed as "EMD and Tender Fees", "Technical Bid" and "Financial Bid" respectively, in the following manner:

2.3.4 Envelope-1 (super scribed as *"EMD and Tender Fees"*) will consist of two Demand Draft one for EMD and the other for Tender Fees in the favour of IIT Goa.

2.3.5 Tender without submission of EMD and Tender fees will be summarily rejected.



#### 2.3.6 Envelope-2 (super scribed as "*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 as per the clause 1.3 of this tender document.
- (iv) Undertaking by the bidder as per Appendix-A
- (v) Complete tender document, each page duly signed and stamped by the bidder or his/her authorized signatory as a token of acceptance of the terms and conditions. The name of the person signing the bid documents with his designation in the firm/company must be clearly mentioned. Financial bid should not be enclosed here. The person signing the document should have authorisation from the proprietor/Competent Authority of Organisation/Director etc.

2.3.7 Envelope-3 (super scribed as *"Financial Bid"*) will consist of the Financial Bid duly filled-in, signed by the bidder and stamped.

#### 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 as mentioned in the NIT(or corrigendum if issued) 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. The Envelope -1 shall be opened first. Bids shall be checked for EMD and tender fees. Only those bids found to have submitted EMD and tender fees shall be considered for opening of Envelope - 2.

2.4.3. 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.

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

2.4.5. 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 be filled in Indian rupees inclusive of all taxes, material, labour, transport charges etc. 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 annual repair and maintenance of the air conditioners, and such bidder is required to furnish a Performance Guarantee within seven working days from the date of issue of work order. If bidder fails to submit the PBG, then the W.O. may be cancelled including debarring the party from participation in retendering. In such case the EMD shall be forfeited.

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 and submission of PBG.



2.4.9. In case of any ambiguity/overwriting/rewriting/correction in financial bid, the CPWD guideline shall be followed.

2.4.10. Conditional tender will not be accepted.



#### PART B (FINANCIAL BID)

#### Schedule of Quantities

Item No.	Item	Units	Qty	Rates	Amount				
	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. (Acceptable make								
	of wires: Polycab/Finolex/RR; Conduit:								
1	Finolex/Polycab or equivalent)								
1.1	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	R.M	100						
1.2	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	R.M	200						
1.3	2 X 4 sq. mm + 1 X 4 sq. mm earth wire R.M 100								
1.4	4 X 2.5 sq. mm + 2 X 2.5 sq. mm earth wire	R.M	75						
1.5	4 X 4 sq. mm + 2 X 4 sq. mm earth wire	R.M	75						
1.6	4 X 6 sq. mm + 2 X 6 sq. mm earth wire	R.M	75						
1.7	$4 \times 10$ sq. mm + $2 \times 6$ sq. mm earth wire	R.M	50						
1.8	$4 \times 16$ sq. mm + $2 \times 6$ sq. mm earth wire	R.M	50						
	Supplying and fixing following way, single	1	50						
	pole and neutral, sheet steel, MCB								
	distribution board, 240 V, on surface/ recess,								
	complete with tinned copper bus bar, neutral								
	bus bar, earth bar, din bar, interconnections,								
	powder painted including earthing etc. as								
2	required. (But without MCB/RCCB/Isolator)								
2.1	6 way , Double door	Each	5						
2.2	8 way , Double door	Each	5						
2.3	12 way Double door	Each	5						
2.5		Laun	5						
	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								
3	MCB/RCCB/Isolator)								
3.1	4  way  (4 + 12),  Double door	Each	Q						
3.2	6  way  (4 + 12),  Double door	Each	8						
3.3		Each	5						
3.3	8 way (4 + 24), Double door	Each	5						
	Supplying and fixing of following ways								
	surface/ recess mounting, vertical type, 415 V, TPN MCB distribution board of sheet								
	steel, dust protected, duly powder painted,								
	inclusive of 200 A tinned copper bus bar, common neutral link, earth bar, din bar for								
	mounting MCBs (but without MCBs and incomer.) as required (Note : Vertical type								
	incomer) as required. (Note : Vertical type								
1	MCB TPDB is normally used where 3 phase								
4	outlets are required.)	Fach	0						
4.1	4  way  (4 + 12),  Double door	Each	2						
4.2	8 way $(4 + 24)$ , Double door	Each	2						
4.3	12 way (4 + 36), Double door	Each	2						



5	Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick 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 (96 kgs) and salt (5 kgs) as required. Earthing with copper earth plate 600 mm X	Each			
5	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 (96 kgs) and salt (5 kgs) as required.	Feeb			
5	plate having locking arrangement and watering pipe of 20 mm dia, 2.7 metre long along with funnel, medium class etc. with charcoal/ coke (96 kgs) and salt (5 kgs) as required.	Feeb			
5	watering pipe of 20 mm dia, 2.7 metre long along with funnel, medium class etc. with charcoal/ coke (96 kgs) and salt (5 kgs) as required.	Feeb			
5	watering pipe of 20 mm dia, 2.7 metre long along with funnel, medium class etc. with charcoal/ coke (96 kgs) and salt (5 kgs) as required.	Fach			
5	along with funnel, medium class etc. with charcoal/ coke (96 kgs) and salt (5 kgs) as required.	Feeb			
5	charcoal/ coke (96 kgs) and salt (5 kgs) as required.	Task			
5	required.	Loop			
5			6		
		Lach	0		
	$COO$ many $V$ $O$ many thick (40 $\Gamma$ long) in all the				
	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 (96				
6	kgs) and salt (5 kgs) as required.	Each	6		
	Providing and fixing 25 mm X 5 mm copper				
	strip on surface or in recess for connections				
7	etc. as required.	R.M	100		
-	Providing and fixing 4.00 mm dia copper wire	1			
	on surface (using G.I. Hooks made of 8 SWG				
	GI wire/ GI clip) or in recess for loop earthing				
0			100		
8	as required.	R.M	100		
	Providing and fixing 25 mm X 5 mm G.I. strip				
	on surface or in recess for connections etc.	<b>_</b>			
9	as required.	R.M	100		
	surface (using G.I. Hooks made of 8 SWG GI				
	wire/ GI clip) or in recess for loop earthing as				
10	required.	R.M	100		
11		Fach	40		
		⊨acn	10		
	••				
1	metal enclosed plug top alongwith 16 A to 32				
			1		
	A "C" curve, TPN MCB, in sheet steel			1	
	A "C" curve, TPN MCB, in sheet steel enclosure, on surface or in recess, with				
	enclosure, on surface or in recess, with				
12	enclosure, on surface or in recess, with chained metal cover for the socket out let and complete with connections, testing and	Each	10		
12	enclosure, on surface or in recess, with chained metal cover for the socket out let and complete with connections, testing and commissioning etc. as required.	Each	10		
12	enclosure, on surface or in recess, with chained metal cover for the socket out let and complete with connections, testing and commissioning etc. as required. Supply, Installation, Testing and	Each	10		
12	enclosure, on surface or in recess, with chained metal cover for the socket out let and complete with connections, testing and commissioning etc. as required. Supply, Installation, Testing and Commissioning of 1200 mm sweep, BEE 5	Each	10		
12	enclosure, on surface or in recess, with chained metal cover for the socket out let and complete with connections, testing and commissioning etc. as required. Supply, Installation, Testing and Commissioning of 1200 mm sweep, BEE 5 star rated, ceiling fan with Brush Less Direct	Each	10		
12	<ul> <li>enclosure, on surface or in recess, with chained metal cover for the socket out let and complete with connections, testing and commissioning etc. as required.</li> <li>Supply, Installation, Testing and Commissioning of 1200 mm sweep, BEE 5 star rated, ceiling fan with Brush Less Direct Current (BLDC) Motor, class of insulation: B,</li> </ul>	Each	10		
12	<ul> <li>enclosure, on surface or in recess, with chained metal cover for the socket out let and complete with connections, testing and commissioning etc. as required.</li> <li>Supply, Installation, Testing and Commissioning of 1200 mm sweep, BEE 5 star rated, ceiling fan with Brush Less Direct Current (BLDC) Motor, class of insulation: B, 3 nos. blades, 30 cm long down rod, 2 nos.</li> </ul>	Each	10		
12	<ul> <li>enclosure, on surface or in recess, with chained metal cover for the socket out let and complete with connections, testing and commissioning etc. as required.</li> <li>Supply, Installation, Testing and Commissioning of 1200 mm sweep, BEE 5 star rated, ceiling fan with Brush Less Direct Current (BLDC) Motor, class of insulation: B, 3 nos. blades, 30 cm long down rod, 2 nos. canopies, shackle kit, safety rope, copper</li> </ul>	Each	10		
12	<ul> <li>enclosure, on surface or in recess, with chained metal cover for the socket out let and complete with connections, testing and commissioning etc. as required.</li> <li>Supply, Installation, Testing and Commissioning of 1200 mm sweep, BEE 5 star rated, ceiling fan with Brush Less Direct Current (BLDC) Motor, class of insulation: B, 3 nos. blades, 30 cm long down rod, 2 nos.</li> </ul>	Each	10		
	Providing and fixing 6 SWG dia G.I. wire on surface (using G.I. Hooks made of 8 SWG GI				



delivery minimum 210 Cum/Min , 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.							
Providing Skilled Labour for additional work	davs	60					
	uuyo	00					
other than above (8 hrs/day) - Belder/cooli	days	60					
Rewinding of following motors with							
enameled copper wire of suitable guage and							
•							
•		150					
Single phase 0.5 hp water pump motor.	Each	3					
Single phase 1.5 hp water pump motor.	Each						
Three phase 3 hp water pump motor.	Each	5					
Three phase 5 hp water pump motor.	Each	10					
Replacement of bearing of existing 1200 mm							
sweep ceiling fan	Each	150					
Total Quoted Amount							
	<ul> <li>(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.</li> <li>Providing Skilled Labour for additional work other than above (8 hrs/day) - Electrician</li> <li>Providing Skilled Labour for additional work other than above (8 hrs/day) - Belder/cooli</li> <li>Rewinding of following motors with enameled copper wire of suitable guage and coated with adequate varnish complete as required.</li> <li>1200 mm ceiling fan motor.</li> <li>Single phase 0.5 hp water pump motor.</li> <li>Three phase 3 hp water pump motor.</li> <li>Three phase 5 hp water pump motor.</li> <li>Replacement of bearing of existing 1200 mm sweep ceiling fan</li> </ul>	(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.Providing Skilled Labour for additional work other than above (8 hrs/day) - ElectriciandaysProviding Skilled Labour for additional work other than above (8 hrs/day) - Belder/coolidaysRewinding of following motors with enameled copper wire of suitable guage and coated with adequate varnish complete as required.Each1200 mm ceiling fan motor.EachSingle phase 0.5 hp water pump motor.EachSingle phase 3 hp water pump motor.EachThree phase 3 hp water pump motor.EachReplacement of bearing of existing 1200 mm sweep ceiling fanEach	(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.Accessories required.Providing Skilled Labour for additional work other than above (8 hrs/day) - Electrician tother than above (8 hrs/day) - Belder/cooli daysdays60Providing Skilled Labour for additional work other than above (8 hrs/day) - Belder/cooli daysdays60Rewinding of following motors with enameled copper wire of suitable guage and coated with adequate varnish complete as required.Each1501200 mm ceiling fan motor.Each33Single phase 0.5 hp water pump motor.Each3Single phase 3 hp water pump motor.Each5Three phase 3 hp water pump motor.Each10Replacement of bearing of existing 1200 mm sweep ceiling fanEach150	(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.Providing Skilled Labour for additional work other than above (8 hrs/day) - Electrician tother than above (8 hrs/day) - Belder/cooli days60Rewinding of following motors with enameled copper wire of suitable guage and coated with adequate varnish complete as required.601200 mm ceiling fan motor.Each150Single phase 0.5 hp water pump motor.Each3Single phase 3 hp water pump motor.Each5Three phase 5 hp water pump motor.Each10Replacement of bearing of existing 1200 mm sweep ceiling fanEach150			

Note: All the items as given in the *Part* – *B Financial Bid* shall be executed in compliance with the *Point No. 2.1 Scope of Work* of this NIT

Date:

Place:

Signature of the bidder with Name/Designation and seal of the company.



Appendix – 'A'

(To be printed in letter head)

## **CERTIFICATE**

I hereby certify that the above firm (name & address of the firm) neither blacklisted / debarred byany 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 for a period of two years.

Signature with

Date:

Name:

Designation:

Official Seal:



#### PERFORMANCE GUARANTEE

In consid	eration of the	Indian Ir	nstitute	of Techno	logy Goa	a (IIT Goa) ha	aving offered to ac	cept the	terms
and	conditions	of	the	propo	sed	agreement	between		
and		.(hereina	fter	called	"the	said	Contractor(s)")	for	the
works		(here	einafter	called the	said ag	reement") ha	ving agreed for pr	oduction	of an
irrevocab	le Bank Gua	arantee f	or Rs			(Rupees	only)	as a sec	curity/
	e from the cost in the said			compliance	e of his o	obligations in	accordance with	the terms	s and

- 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 not withstanding any dispute or disputes raised by the contractors(s) in any suit or proceeding pending before any court or Tribunal relating thereto, out 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.
- 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

name of the Bank)