



**CENTRAL INSTITUTE OF PLASTICS ENGINEERING & TECHNOLOGY (CIPET):  
CENTRE FOR SKILLING & TECHNICAL SUPPORT(CSTS) AGARTALA**  
**Department of Chemicals & Petrochemicals,  
Ministry of Chemicals & Fertilizers, Govt. of India.**  
Rubber Park Area, Bodhjunnagar, Sub-division- Mohanpur, Agartala, Tripura,  
Email: [cipetagartala@gmail.com](mailto:cipetagartala@gmail.com), [cipetagartalaadm@gmail.com](mailto:cipetagartalaadm@gmail.com)  
Phone- 0381 231 0080, 0381 231 0162

**SHORT TENDER NOTICE NO.: - CIPET/AGT/ELECTRIC WORK/2020-21/03**  
**DATE: 05-09-2020**

**NAME OF THE WORK: SUPPLY & INSTALLTION OF ELECTRICAL PANEL,  
BUSBAR, LAYING OF ARMOURED CABLE & ASSOCIATED ELECTRICAL &  
EARTHING WORK AT THE NEW CAMPUS OF CIPET: CSTS- AGARTALA**

**Important Dates:**

Sl. No.	Event	Date
01	Date of Release of Tender	<b>05-09-2020</b>
02	Date of Site Visit	<b>From 05-09-2020 To 15-09-2020</b>
02	Last Date for Submission of Hard copy of Tender Documents	<b>15-09-2020 (upto 05:30 pm)</b>
03	Date of Opening of Technical Bid	<b>16-09-2020 Time-1400 hrs.</b>

CIPET: CSTS-Agartala invites Short Tender under **two bid system** ,**Technical and Commercial bid** (Separate Envelops) from the reputed, experienced & Licensed Electrical contractor having experience in similar type of works, registered in appropriate trade for SUPPLY & INSTALLTION OF ELECTRICAL PANEL, BUSBAR, LAYING OF ARMOURED CABLE & ASSOCIATED ELECTRICAL & EARTHING WORK AT THE NEW CAMPUS OF CIPET: CSTS- AGARTALA BODHJUNGNAGAR, AGARTALA, TRIPURA-799 008. The details are as under:

<b>SL. No.</b>	<b>Particulars</b>	<b>SCHEDULE</b>
1.	Earnest money deposit:	EMD Rs. 4000/- (Four thousand only) by way of Demand draft in favor "CIPET Agartala VTC" Payable at Agartala.
2.	Work Completion time	15 days for the date of issue of Work Order.
3	Date of Site Visit	From 05-09-2020 to 15-09-2020
3.	Venue for opening – Technical Bid	CIPET:CSTS-Agartala, Bodhnungnagar, Agartala
4.	Date of Publication/ Start of Tender	05-09-2020
5.	Bid Submission Last Date:	15-09-2020 (upto 5:30 pm)

CIPET reserves the right to reject any or all the bids or cancel / withdraw the Notice inviting Tender without assigning any reason.

**Dy. Director & Head,  
CIPET: CSTS-Agartala**

## **INTRODUCTION**

Central Institute of Plastics Engineering & Technology (CIPET) was established in 1968 by Government of India with the assistance of United Nations Development Programme (UNDP) at Chennai. The main objective of setting up of the institute was to develop manpower in different disciplines of Plastics Engineering & Technology as no similar institute was in existence in the country. International Labour Organization (ILO) served as the executing agency. During the initial project period between 1968 and 1973, the institute achieved the targets envisaged and was rated as one of the most successful UNDP projects implemented worldwide. Today CIPET is a premier national institution under the aegis of the Ministry of Chemicals & Fertilizers, Govt. of India fully devoted to Skill Development, Technology Support Services, Academic and Research (STAR). CIPET operates on hub & spokes model with 32 locations - 5 High Learning Centres, 14 Other Learning Centres, 3 Specialized Centres, 3 R & D Wings, 6 Vocational Training Centre, 1 Petrochemical Data Services spread across the country catering to the needs of Polymer and allied industries. 7 more centres are in the process of establishment.

CIPET stands tall not only as a premier institute in the country but also emerged as a global institution renowned for its research & development in the niche areas of Polymer Science & Technology and high quality Education & Skill development in the field of plastics. CIPET has been accredited with ISO 9001:2015 QMS, ISO/IEC - 17025, ISO/IEC - 17020 certification on Design, Development and Conduct of specialized training courses in Plastics Engineering & Technology and rendering technical /consultancy services in design, tooling, plastics processing & testing for the benefit of plastics & allied industry. Besides, STAR activities, CIPET also plays pivotal role in generating employment opportunities especially for unemployed and underemployed youth, promoting entrepreneurs through various skill development training programs.

Headquartered in Chennai, CIPET has centres at Ahmedabad, Amritsar, Aurangabad, Agartala, Baddi, Balasore, Bengaluru, Bhopal, Bhubaneswar, Chandrapur, Chennai, Gurgaon, Guwahati, Gwalior, Hyderabad, Hajipur, Haldia, Imphal, Jaipur, Kochi, Lucknow, Madurai, Murthal, Mysore, Raipur, Ranchi, Valsad and Vijayawada. All the state-of-the-art centers are equipped with excellent infrastructure facilities in the areas of Design, CAD/CAM/CAE, Tooling & Mould Manufacturing, Plastics processing, Testing and Quality Assurance with plan fund support from Government of India. The infrastructure facilities in terms machinery, equipments and technology are continuously upgraded and modernized in tune with needs of plastics & allied industries.

CIPET renders Technology Support Service in the areas of design, tooling, plastics processing and testing and quality assurance in India and abroad. CIPET has been in the forefront of strengthening the technological capabilities and has been constantly building capacities and leveraging its expertise, caliber and skill sets to meet the emerging and evolving needs of the industries.

## **TECHNICAL SPECIFICATIONS & SCOPE OF WORK:**

### **1. Name of Work:**

Procurement and installation of 1 (One) no. of LT Distribution Cubicle / Floor standing Panel, for control and Distribution of electrical power of Testing Laboratory and different rooms, Supply & Laying of 150 Sq.mm 3.5 core aluminum Armoured cable at new building of CIPET Agartala, located at Bodhjunnagar area near Rubber Park and associated work.

### **2. Scope of Work:**

- Supply, Fabrication and Installation of Indoor LT Distribution Panel in the form of 1.5mm CRCA sheet enclosed cubicle, floor standable/mounting with requisite specifications as mentioned in cl. 3. The panel must be supplied following, IP55 Industrial standards.
- Supply and laying of 150Sqmm 3.5 core, aluminum armoured cable from above mentioned indoor LT distribution panel to the Testing lab, incomer busbar. The laying of cables must be completed following the required Industrial standards and norms. \*
- Supply and installation of 400A distribution bus bar at testing laboratory and further distribution of 200A, 100A and 100A to three rooms of testing lab. \*
- Installation of 3 (Three) nos. of Earthing for Testing Room, and 1(one) no. for LT Distribution panel.

**\*(Actual distance to be measured on site visit)**

### **3. Technical Specification LT Distribution Panel:**

<b>Sl.No.</b>	<b>Specifications</b>	<b>Requirements</b>
1.	Protection as Industrial Standards	IP55
2.	Material of Enclosure	1.5mm CRCA Sheet
3.	Color	Siemens grey/ Off white
4.	Coating Type	Powder coated or Two (2) coated spray painting after Two (2) layers of Red-oxide and putty.
5	INCOMER	
5.a	MCCB	600A, 3PH, 4 Pole, Make: L&T/other equivalent
6	DISTRIBUTION BUSBAR	
6.a	Busbar Type	Aluminum
6.b	Busbar Current Carrying capacity	750A
7	DISTRIBUTION	
7.a	MCCB-1 (Testing Department)	400A, 3PH, 4 Pole/3 Pole

7.b	MCCB-2 (CAD/CAM Lab)	100A, 3PH, 4 Pole/3 Pole
7.c	MCCB-2 (Building Loads)	100A, 3PH, 4 Pole/3 Pole
8	PROTECTIONS	
8.a	Earth Fault Detection and Attenuator	To be fitted in the main Busbar of 750A
9	METERS & INDICATIONS	
9.a	Number of multifunction meters	4 nos with CTs arrangement
9.b	Phase Sequence Indicator	RYB sequence indication in the 750A Busbar for monitoring the sequence of main Incomer.
9.c	RYB Indicators	Should be provided in the main incomer, distributed outputs of each MCCBs.
10.	Earthing Stud	There must Two (2) Earthing studs placed in both side of the Panel.
11	Carrying & Locking Mechanism	Panel must be provided with hooks for easy lifting and proper locking mechanism to prohibit and kind of electrical hazards.
12	Door Switched Panel light	1 no.

#### 4. Technical Specifications of 150 sqmm. 3.5 core Aluminum armoured cable:

Sl.No.	Specifications	Values
1.	Brand	Polycab/Havells/KEI/Equivalent
2.	Item	LT Armoured Aluminum Industrial cable
3.	Size	150 sqmm 3.5 core A2XFY
4.	Insulation Material	XLPE
5.	Jacket	PVC Type ST2
6.	Color	Black
7.	Voltage Rating	1.1 KV
8.	Armour Type	Flat Strip
9.	Conductor type	Stranded
10.	Insulation Thickness	1.4 mm
11.	Conductor Material	Aluminum
12.	Armour Material	Galvanized Steel
13.	Overall Diameter	42.5 mm (+/-2)
14.	Resistance	0.265 Ohm/Km AC, 0.206 Ohm/Km DC
15.	Capacitance	0.64 mF/Km

#### 5. Technical Specifications of Earthing

Supply and erection of Copper plate earthing with earth plate size 600X600X1.5 mm, at least 3.0 meter below ground with double G.I. strip 50 x 6 mm bolted to the plate, 40 mm Dia GI pipe with wire mesh funnel for watering, 230 brick masonry inspection chamber of size 450 mm x 450 mm x 450 mm, C.I. cover 300mm x 300mm (10 Kg) complete with necessary length of double G.I. earth wire no. 6 SWG bolted with lug to the plate and covered in 12 mm dia G.I. pipe 3.0 meter long complete connected to the nearest switchgear with end socket and duly tested by earth tester and recording the results. Excavation work is included in the scope of the contractor.

#### 6. Inspection / Testing and Certification

After complete execution of the work, it shall be inspected and checked as per manual / drawing of the bidder / manufacturer by an authorized inspector / body and a certificate of inspection shall be submitted to CIPET.

#### 7. SUBMITTALS:

##### Drawing Data

- General arrangement Drawing.
- Single Line Diagram.
- Control wiring diagrams, along with electrical interlocking scheme in a tabular form

- d) Bus Bar Sizing calculations along with supporting documents from Bus Bar manufacturers.

### **Tests & Test Reports**

- a) Typical type test certificates shall be submitted  
b) Routine test certificates of routine test carried out on the panels shall be submitted.

### **TERMS AND CONDITIONS**

1. Any Tender received by the CIPET Agartala after the deadline will be rejected.
2. Financial Bid should be submitted in the prescribed format as given in the tender document.
3. The rates quoted by the bidder should be valid for period of 90 days without any alteration and no escalation on any account whatsoever shall be paid for this work by CIPET Agartala.
4. The bidder has to complete the work within 15 days from the date of Issue of Work order
5. The payment will be made within 30 days of submitting satisfactory completion work report from CIPET Agartala.
6. TDS & GST TDS shall be deducted as per prevailing rules and regulations of the Government of India, if applicable.
7. In case of work not completed satisfactory or in case of delay, CIPET Agartala reserves the right to forfeit the EMD and impose penalty as decided by CIPET Agartala's management. The decision of CIPET Agartala's management shall be final in all matters and will be binding on the bidder/contractor.
8. CIPET Agartala reserves the right to accept or reject any tender or all tenders at any time prior to award of work without assigning any reasons whatsoever and no correspondence shall be entertained in this regard.

### **ELIGIBILITY CRITERIA**

#### **01. Qualification Criteria/ Eligibility Condition of the Bidder:**

01. The bidder shall have **Past Two years' experience** in the same field. Experience proof needs to be enclosed.
02. The bidder shall have completed **two work** of the similar nature, value of each Contract should not be less than **Rs. 02 lacs**. Copy of Work Order and satisfactory performance certificate is required to be enclosed as proof of experience.
03. Turnover of the bidder from the similar type of work should be minimum **02 lacs for past Three Financial Year**. Copy of Income Tax Return/ Audited Statement of Profit & Loss and Balance Sheet needs to be attached.

04. The Bidder should have requisite Electrical License issued by Competent Authority and a certificate of inspection shall be submitted to CIPET after successful completion the entire work as mentioned in clause 6 of Technical Specification para.

### **TECHNICAL BID**

DESCRIPTION: SUPPLY & INSTALLTION OF ELECTRICAL PANEL, BUSBAR, LAYING OF ARMOURED CABLE & ASSOCIATED ELECTRICAL & EARTHING WORK AT THE NEW CAMPUS OF CIPET: CSTS- AGARTALA:

<b>S. No</b>	<b>Particulars</b>	
1	Name of Organization	
2	Address	
3	Telephone No. with STD CODE	
4	Name of contact person	
5	Mobile No.	
6	E-mail ID	
7	Registration certificate	Enclose document
8	PAN (Permanent Account Number)	Enclose document
9	GST Certificate	Enclose document
10	Similar Two Years' Experience of electrical works in Govt./Reputed organization. Please enclosed copy of work order	Enclose document
11	Demand Draft No. & Date of E.M.D of Rs. 4000/-	Enclose DD
12	Income Tax Return/ Audited Statement of Profit & Loss and Balance Sheet of last 3 Years	Enclose document
13	Two work of the similar nature, value of each Contract should not be less than Rs. 03 lacs	Enclose document

**Date:**  
**Seal & Sign. of Bidder**



## **FINANCAL BID**

(To be submitted in a separate sealed cover on Letter Head)

Sl. No	Work Description	Qty.	Amount (Rs.)
01	# Supply, Fabrication and Installation of Indoor LT Distribution Panel in the form of 1.5mm CRCA sheet enclosed cubicle, floor standable/mounting with requisite specifications as mentioned in cl. 3. The panel must be supplied following, IP55 Industrial standards.	01	
02	# Supply and laying of 150Sqmm 3.5 core, aluminum armoured cable from above mentioned indoor LT distribution panel to the Testing lab, incomer busbar. The laying of cables must be completed following the required Industrial standards and norms. *	01	
03	# Supply and installation of 400A distribution bus bar at testing laboratory and <u>further distribution</u> of 200A, 100A and 100A to three rooms of testing lab. *	01	
04	# Installation of 3 (Three) nos. of Earthing for Testing Room, and 1(one) no. for LT Distribution panel.	01	
Sub-Total (A)			
Less: Discount, if any (B)			
Add: GST (C)			
Total (A-B+C)			
<b>*(Actual distance to be measured on site visit)</b>			

### **Terms & Conditions:**

01. Panel Fabrication must have done antirust treatment and powder coating. All component/Switch gear to be of L&T/Havells/Schneider/Simens make and should be ISI Make.

02. # Technical specification for the above work is mentioned in the Clause No. 03, 04 & 05 of Technical part mentioned above.

03. All Prices are inclusive of all Charges. Under no circumstances, no additional cost will be allowed. However, Charges for additional payment may be considered based on written approval from CIPET: CSTS- Agartala.

04. Work will be awarded to the Lower bidder considering the ENTIRE WORK. No separate Work Order will be issued for each work. Total cost will be considered for the entire work as mentioned above.

### **BID FORM**

To  
Dy. Director & Head,  
Central Institute of Plastics Engineering & Technology (CIPET),  
Centre For Skilling & Technical Support (CSTS),  
Agartala.

Dear Sir,

Having examined the Conditions of Contract and Specifications including Addenda Nos. (insert Numbers) the receipt of which is hereby duly acknowledged, we, the undersigned, offer to do the said work in conformity with the said Drawings, Conditions of Contract and Specifications for the same.

We undertake, if our bid is accepted, to complete entire work as specified in the Contract within 15 days calculated from the date of Letter of Intent.

We agree to abide by this bid for a period of 90 Days from the date fixed for bid opening under Instructions to Bidders and it shall remain binding upon us and may be accepted at any time before the expiration of that period.

Until a formal contract is prepared and executed, this bid, together with your written acceptance thereof in your notification of award, shall constitute a binding Contract between us.

We understand that you are not bound to accept the lowest or any bid, you may receive.

Date:

Place:

Signature with Seal

Last date of online submission of Tender bid: **15-09-2020 (upto 05:30 pm)**

The bidder must submit hard copies of all document in a sealed envelope superscripting the Tender for SUPPLY & INSTALLTION OF ELECTRICAL PANEL, BUSBAR, LAYING OF ARMOURED CABLE & ASSOCIATED ELECTRICAL & EARTHING WORK AT THE NEW CAMPUS OF CIPET: CSTS- AGARTALA and Tender No. **CIPET/AGT/ELECTRIC WORK/2020-21/03 dated 05-09-2020**. The bidder has to submit "Technical Bid" & Commercial Bid" separately in two separate Sealed Envelope superscripting "**Technical Bid for Tender No. CIPET/AGT/ELECTRIC WORK/2020-21/03 dated 05-09-2020**" and "**Price Bid for Tender No. CIPET/AGT/ELECTRIC WORK/2020-21/03 dated 05-09-2020**" Hard copies must reach at the **following address** on or before **15-09-2020 (upto 05:30 pm)**:

**Dy. Director & Head,  
CIPET Agartala, Rubber Park Area,  
Bodhjunnagar,  
Sub-division- Mohanpur,  
Agartala, Tripura- 799 008**

Date of site visit to understand the Scope of Work physically: From 05-09-2020 to 15-09-2020 (upto 05:30 pm)

**Dy. Director & Head,  
CIPET: CSTS-Agartala**