

TENDER DOCUMENT

FOR

Supply of 1.1 KV grade, XLPE insulated & PVC Sheathed Armoured Aluminum Cables for augmentation of incoming mains to SKB Library, BKB Building & Old Physics Building C.U.

PART – A

TECHNO-COMMERCIAL BID



अप्रमत्तेन वेद्मव्यम्

NIT No. 01 of 2019-20 Dt. 10.06.2019

Cotton University
Panbazar, Guwahati-781001, Assam, India
www.cottonuniversity.ac.in
Phone: 0361-2733530: Fax: 0361-2733502

Issue of Tender Documents

Ref: NIT No 01. of 2019-20

Date: 10.06.2019

Tender document for “Supply of 1.1 KV grade, XLPE insulated & PVC Sheathed Armoured Aluminum Cables for augmentation of incoming mains to SKB Library, BKB Building & Old Physics Building C.U” consisting of Part - A: Techno-commercial Bid and Part – B: Price Bid is issued to —

M/s. / Sri :

Address :

.....

.....

**Registrar
Cotton University**

Cotton University
Panbazar, Guwahati-781001, Assam, India
www.cottonuniversity.ac.in
Phone: 0361-2733530: Fax: 0361-2733502

NOTICE INVITING TENDER
NIT No. 01 of 2019-20
Date: 10.06.2019

Sealed tenders in two-bid-system are invited from reputed manufacturers of 1.1 KV Grade XLPE Cables or their authorized dealers/distributors for the following work.

| | |
|---|---|
| Name of work | Supply of 1.1 KV grade, XLPE insulated & PVC Sheathed Armoured Aluminum Cables for augmentation of incoming mains to SKB Library, BKB Building & Old Physics Building C.U |
| Earnest Money | ₹ 8,200.00/- |
| Last Date & time for Submission Tenders (Both Technical & Commercial parts i.e. Part-A & B) | 21.06.2019 up-to 14.00 hrs |
| Date & time for opening of Part-A (Technical Bid) | 21.06.2019, 15.00 hrs |
| Time of completion | 1 (One) Month |

TERMS AND CONDITIONS –

A. Qualifying criteria:

1. Only the manufacturers or their authorized dealers/distributor of the following brands shall be eligible to participate —
 HAVELLS/ RPG/CCI/POLYCAB/ GLOSTER/ FINOLEX / NICCO/ KEI/ RR.
 1.1 In case of authorized dealer/distributor, the agency must submit valid certificate to establish their dealership/distributorship.
2. Cable brand must be ISI marked for the type of cables offered. Valid certificate from BIS shall be submitted.
3. Updated price-list of UG armored cables of respective make must have to be furnished along with the technical bid.

B. Other Terms & Conditions:

1. Soft copy of the tender will be available in the university's website. Interested bidders can deposit the cost of the tender amounting to Rs. 500/- either through DD drawn in favour of "Cotton University" payable at Guwahati or ICICI bank challan **FEECODE011(available in the website)** and the counter folio must be submitted with the technical bid of the tender failing to which the tender will summarily be rejected.

Bidders who have participated/procured in the NIT-6 of 2018-19 dtd. 21.01.2019 can also participate in this tender and they need not have to deposit the cost of the tender.

2. EMD for ₹ 8,200.00/- (Rupees Eight Thousand Two Hundred only) shall be enclosed along with the tender. The EMD shall be paid in the form of Demand Draft drawn in favour of "Cotton University" payable at Guwahati. Tender submitted without EMD will not be considered.

Bidders who have participated and deposited EMD in the NIT-6 of 2018-19, dtd. 21.01.2019 need not have to deposit EMD.

3. In case the tender is submitted through authorized dealer/distributor of the approved brands of cables, attested copy of dealership/distributorship certificate from the manufacturer must be enclosed, without which, the offer will be rejected.
4. The Tenderers shall submit their technical as well as the price bid in two separate envelopes marking one envelopes as **Techno-commercial Part-A** & other as **Part-B: Price Bid** with name of work & bidder's name on it on the separate envelope. These two envelopes shall be placed inside another envelope with name of work & bidder's name on it. **Part A** shall include the following : —
 - a) Earnest Money Deposit as mentioned in Sl. No. 1 above.
 - b) All documents in support of the qualifying criteria mentioned at A. above.
 - c) Technical details, catalogues and commercial terms etc. complying against each specification mentioned in Annexure – I
 - d) Annexure – II duly filled up by the bidder.

Part B shall contain the Price offer filled up as per the format of Price Bid of the Tender Document. The Price Bid of the bidders fulfilling the criteria as per the NIT on the basis of documents submitted in the Techno-Commercial Bid shall only be opened.

The Tenderer must furnish the Technical bid along with all required documents in hard or spiral binding only and in the event of non compliance of this instruction, tender is liable to be cancelled.

Tenderers must submit tender at the following office:

**The Registrar,
Cotton University
Panbazar, Guwahati – 781001**

5. The technical specification of the cables is enclosed in Annexure – I. The evaluation of the technical bid shall be based on compliance of all the specifications as mentioned under Annexure – I and Annexure – II.
6. Rates must be valid for 6 (six) months and shall be inclusive of all GST, transportation to the site (i.e. Cotton University, Panbazar, Guwahati), loading & unloading at site.
7. Rate shall be shown (as per enclosed format) with break-up of basic rate, transportation and transit insurance, GST etc. till unloading at site. The quoted rate shall be inclusive of the cost of loading at the factory and unloading at site.
8. Relevant technical details, reports of test conducted on similar cables at authorized test centers, quality certification if any, list of similar orders executed along with performance certificates etc. shall be submitted with the tender (in the Techno-Commercial Bid).
9. The University reserves the right to approve more than one supplier and split the order accordingly.
10. Time allotted for the delivery of cables shall not be more than 1 (One) months from the date of issue of order.
11. The cables supplied shall be guaranteed for a minimum period of 12 months from the date of commissioning or 18 months from the date of supply.
12. The successful bidder shall submit security deposit equivalent to 10% of the total value of the cables to be ordered, through Demand Draft / Bank Guarantee of any Nationalized Bank. The security deposit shall be retained till the expiry of the guarantee period of cables supplied against the order. The security deposit shall stand forfeited against failure to execute the order as per above terms or failure to do rectification / replacement needed in case of any defect in design, materials and workmanship of the supplied cables within the guarantee period.
13. Payment will be made against submission of bill after supply and acceptance of the cables against the order. However, no payment will be released unless the security deposit as mentioned under item 14 as submitted.
14. Tolerance in length in individual drum shall be $\pm 5\%$, while the overall tolerance on the total length of individual size of cables shall not exceed $\pm 2.5\%$. **Payment shall be made as per actual length of the cables supplied.**

15. In case, the day of submission of the tender happens to be a holiday on account of Govt. notification or due to some unavoidable circumstances and the submission & opening of the tenders shall automatically be extended to the next working day, the times specified remaining the same.

The University reserves the right to reject any or all of the tenders without assigning any reasons thereof.

Annexure – I DESIGN AND CONSTRUCTION PARTICULARS

1. Construction

LT cable shall conform to 1100 V Grade stranded and round Aluminium H2.H4 grade conductors, XLPE insulated, core suitably laid up, inner and outer sheath of extruded PVC type ST2 in black colour & GI round wire. The cable shall conform to **IS 7098 (Part – 1) 1988**. Adequate insulation shall be provided for the cables to operate continuously at the specified voltage with a high degree of safety and reliability throughout the life of the cable.

2. Aluminium Conductor

The Aluminum conductor shall be of electrical purity, electrolytic grade H2/H4 aluminium and shall be stranded shaped/circular in section; smooth, uniform in quality and free from scale, inequalities, spills, splits and other defects. The conductors shall conform to appropriate dimensions and resistance given in **IS 8130 (Part I): 1984**.

3. Insulation

The insulating material for power cables shall be extruded cross linked polyethylene (XLPE) compound as per **IS-7098(Part-I)-1988**. The minimum thickness of insulation shall not be less than the values specified in Table – 2 of IS-7098(Part-I)-1988. No negative tolerance shall be applicable for the thickness.

The cores shall be identified by the following colour schedule:

1 core: Red, black, yellow or blue

2 core: Red, black

3 core: Red, yellow and blue

4,3 & ½ core: Red, yellow, blue and black, Reduced neutral core being black.

4. Inner sheath

The inner sheath material as applicable shall be extruded PVC ST-2, compatible with thermal rating of insulation conforming to **IS-6360-1984**. The sheath shall have adequate thickness, mechanical strength and elasticity.

5. Armoring

The armoring arranged over the inner sheath shall consist of one layer of GI strip/round wire. The armor wire being put on the cable shall conform to **IS 3975-1988** for all requirements. The direction of lay of armor shall be opposite to that of the cores.

6. Outer Sheath

Extruded outer sheath shall be provided over the armoring. The material used for sheathing shall be PVC sheath, Type ST-2 base compound conforming to **IS 1554/IS 5831** for power cable. The colour of the outer sheath shall be black. The thickness of outer sheath shall be in accordance with the **IS 1554 (Part-I)-1988**.

7. List of standards

| Sl. No. | Standard No. | Title |
|---------|---------------------------|---|
| 1. | IS: 7098 (Part 1) - 1988 | Specification for XLPE insulated, PVC sheathed cables for working voltages up to and including 1100 Volts |
| 2. | IS: 5831-1984 | Specification for PVC insulation and sheath of electric cables. |
| 3. | IS: 8130-1984 | Specification for conductors for insulated electric cables and flexible cords. |
| 4. | IS: 3975-1988 | Specification for Mild Steel wires, formed wires and tapes for armoring of cables. |
| 5. | IS: 10462 (Part I) - 1983 | Fictitious calculation method for determination of dimensions of protective covering of cables |

8. Marking on the cables

Sequential marking of length at every meter, in addition to all their essential marking like ISI, brand name etc. shall be provided in the cable.

Annexure – II
TECHNICAL PARTICULARS TO BE FILLED BY THE BIDDERS

| Sl. No. | Particulars | | Multiple Core XLPE Armored Cables in | |
|---------|---|---------------------------------------|--------------------------------------|--|
| | | | Size | |
| 1 | Manufacturer's name and works address | | | |
| 2 | Standard specification to which the material shall confirm to | | | |
| 3 | VOLTAGE GRADE | | | |
| 4 | NUMBER OF CORES | | | |
| 5 | CONDUCTOR DETAILS: | | | |
| | A | Normal cross section area of | | |
| | | 1 | Phase Conductor (Sq.mm.) | |
| | | 2 | Neutral Conductor (Sq.mm.) | |
| | B | Number and size of strands (in mm) of | | |
| | | 1 | Phase Conductor (Sq.mm) | |
| | | 2 | Neutral Conductor (Sq.mm) | |
| | C | Shape of Conductor | | |
| | D | Whether compacted or non compacted | | |
| | E | Resistance at 27° Celsius | | |
| 1 | | Phase Conductor ohm/km | | |
| 2 | | Neutral Conductor ohm/km | | |
| 6 | INSULATION | | | |
| | 1 | Type | | |
| | 2 | Colour | | |
| | 3 | Thickness | | |

| | | | | | |
|----|--|--|--------------|--|--|
| | A | Phase Conductor (Sq.mm) | | | |
| | | 1 | Nominal (mm) | | |
| | | 2 | Minimum (mm) | | |
| | B | Neutral Conductor (Sq.mm) | | | |
| | | 1 | Nominal (mm) | | |
| | | 2 | Minimum (mm) | | |
| 7 | Type of inner sheathing and colour | | | | |
| 8 | Whether Binder tape provided | | | | |
| 9 | Armoring | | | | |
| | A | Type | | | |
| | B | Dimension (mm) | | | |
| 10 | Outer sheath | | | | |
| | A | Material | | | |
| | B | Thickness | | | |
| | | 1 | Nominal (mm) | | |
| | | 2 | Minimum (mm) | | |
| | C | Standard to which it confirms | | | |
| 11 | A | Type and size of the filler used | | | |
| | B | Minimum weight of the Filler in Kg/Km. | | | |
| 12 | Maximum overall diameter of the cable in mm. | | | | |

Date :

(Signature & Seal of Tenderer)

PART-B
PRICE BID

| Sl. No | Particulars | Unit | Rate in Rs. (A) | GST in % (B) | Total in Rs. (C=A+B) | Qty. | Amount in Rs. | |
|--------------|-----------------------------------|-------|-----------------------|-----------------|----------------------------|------|------------------|--|
| 1 | 300.0 sq. mm UG Armoured Cable | Metre | | | | 200 | | |
| 2 | 240.0 sq. mm UG Armoured cable | Metre | | | | 130 | | |
| 3 | 70.0 sq. mm UG Armoured cable | Metre | | | | 125 | | |
| Total in Rs. | | | | | | | | |

(Rupees.....only)

Date :

(Signature & Seal of Tenderer)