

For & on behalf of the **Managing Director, AEGCL, the Deputy General Manager, Tezpur T&T Circle, AEGCL, Dhanuwa Nagar, Tezpur**, invites tenders in prescribed form, from reputed Firms/Contractors/Manufacturers with sound technical and financial capabilities for the following work. A single stage two envelope procedure (**Techno-Commercial and Price Bid**) will be adopted for this tender.

Sl. No.	Name of work	Bid Security In INR	Time of completion In Days
1	Supply of ACSR Zebra conductor for Nagaon T&T Division, AEGCL	32,000.00	180 days

1.0 Cost of Bidding Document:

Bidder has to pay Non-Refundable tender document cost of **Rs.2000.00 (Rupees Two Thousand) only in the form of A/C payee Demand draft (Non-refundable) pledged in favour of the Managing Director, AEGCL, Bijulee Bhawan, Paltanbazar, Guwahati-1, Payable at Guwahati.**

2.0 Bidding Address:

Tender papers can be purchased on application in plain paper to the **Deputy General Manager, Tezpur T&T Circle, AEGCL, Tezpur on all working days upto 12th September, 2018 .**

3.0 Validity of Bids and Bids Prices:

3.1 Bids shall remain valid for the period of 180 days after the bid submission deadline date prescribed by AEGCL. In exceptional circumstances, prior to the expiration of the bid validity period, AEGCL may request Bidders to extend the period of validity of their bids. The request and the responses shall be made in writing. If a bid security shall also be extended for a corresponding period.

3.2 Bidder may refuse the request without forfeiting its bid security. A Bidder granting the request shall not be required or permitted to modify its bid.

3.3 Bidders shall quote for the entire scope of supply and services on a "single responsibility" basis such that the total bid price covers all the Supplier's obligations mentioned in or to be reasonably inferred from the bidding document in respect of the design, manufacture, including procurement, delivery, and completion of the entire scope.

3.4 Bidders shall give a breakdown of the prices in the manner and detail called for in the Price Schedules. The total amount from each Schedule 1, 2 and 3 to be entered in the Bid Form

Schedule No. 1: Supply of Goods

Schedule No. 2: Freight & Insurance

Schedule No. 3: Grand Total

In the Schedules, bidders shall give the required details and a breakdown of their prices as called for in these Schedules.

4.0 Bid Security:

- 4.1 All bids must be accompanied by a bid security amounting to **Rs. 32,000.00** only in the form of Bank Guarantee/Demand Draft from any Nationalised Bank payable at Guwahati in favour of the **Managing Director, AEGCL, Bijulee Bhawan, Paltanbazar, Guwahati-01.**
- 4.2 If a bid security is specified, any bid not complying then his bid shall be rejected by the Employer as non-responsive.
- 4.3 The bid security of the successful Bidder shall be returned as promptly as possible once the successful Bidder has signed the Contract and furnished the required performance security.
- 4.4 The bid security of unsuccessful Bidders shall be returned as promptly as possible upon the successful Bidder's furnishing of the performance security.
- 4.5 The bid security may be forfeited:
- a) if a Bidder withdraws its bid during the period of bid validity specified by the Bidder.
 - b) if the successful Bidder fails to:
 - (i) sign the Contract with in the specified period.
 - (ii) furnish a performance security within 15 (fifteen) days' time.
- 4.6 The Bid Security of a JV shall be in the name of the JV that submits the bid. If the JV has not been legally constituted at the time of bidding, the Bid Security shall be in the names of all future partners as named in the letter of intent.
- 4.7 If a bid securing declaration is not executed in accordance with the above, AEGCL will declare the Bidder ineligible to be awarded a contract by the AEGCL for the period of time stated in the Form of Bid Securing Declaration.

5.0 Format and Signing of Bid:

- 5.1 The Bidder shall prepare one original of the Technical Bid and one original of the Price Bid comprising the Bid and clearly mark it —ORIGINAL - TECHNICAL BID and —ORIGINAL - PRICE BID.
- In addition, the Bidder shall submit three copies of the bid, in the number specified and clearly mark each of them —COPY. In the event of any discrepancy between the original and the copies, the original shall prevail.
- 5.2 The original and all copies of the Bid shall be typed or written in indelible ink and shall be signed by a person duly authorized to sign on behalf of the Bidder. This authorization shall consist of a written confirmation as specified in the Bid Document and shall be attached to the bid. The name and position held by each person signing the authorization must be typed or printed below the signature. All pages of the bid where entries or amendments have been made shall be signed or initialled by the person signing the bid.
- 5.3 A bid submitted by a JV shall be signed so as to be legally binding on all partners.
- 5.4 Any interlineations, erasures, or overwriting shall be valid only if they are signed or initialled by the

person signing the bid.

6.0 Submission and Opening of Bids:

6.1 Submission, Sealing and Marking of Bids:

6.1.1 Bidders may submit their bids by mail or by hand. When so specified in the Bid Document, bidders shall have the option of submitting their bids electronically. Procedures for submission, sealing and marking are as follows:

Bidders submitting bids by mail or by hand shall enclose the original and each copy of the Bid, including alternative bids, if permitted in accordance with above, in separate sealed envelopes, duly marking the envelopes as —ORIGINAL and —COPY. These envelopes containing the original and the copies shall then be enclosed in one single envelope.

6.1.2 The inner and outer envelopes shall:

- (a) bear the name and address of the Bidder;
- (b) be addressed to the Bidding Authority.
- (c) bear the specific identification of this bidding process indicated in the Bid Document

6.1.3 The outer envelopes and the inner envelopes containing the Technical Bid shall bear a warning not to open before the time and date for the opening of Technical Bid.

6.1.4 The inner envelopes containing the Price Bid shall bear a warning not to open until advised by the AEGCL.

6.1.5 If all envelopes are not sealed and marked as required, the Employer will assume no responsibility for the misplacement or premature opening of the bid.

6.2 Deadline for Submission of Bids vis-à-vis Bid Opening:

6.2.1 Bids must be received by the AEGCL at the address and no later than **14.00 Hours (IST) of 14th September, 2018** .

6.2.2 Subsequently, the bids will be opened publicly at **14.30 Hours (IST) of 14th September, 2018** .

6.3 AEGCL may, at its discretion, extend the deadline for the submission of bids by amending the Bidding Document, in which case all rights and obligations of the AEGCL and Bidders previously subject to the deadline shall thereafter be subject to the deadline as extended.

7.0 Eligible Bidders:

7.1 A Bidder may be a private entity or a government-owned entity or any combination of such entities with the intent to enter into an agreement supported by a letter of intent or under an existing agreement in the form of a joint venture, consortium, or association (JV). In the case of a JV:

- a) all partners shall be jointly and severally liable, and
- b) the JV shall nominate a Representative who shall have the authority to conduct all business for and on behalf of any and all the partners of the JV during the bidding process and, in the event the JV is awarded the Contract, during contract execution.

7.2 A Bidder, and all partners constituting the Bidder, shall have Indian nationality. A Bidder shall be deemed to have the nationality of a country if the Bidder is a national or is constituted, incorporated, or registered and operates in conformity with the provisions of the laws of

Republic Of India. This criterion shall also apply to the determination of the nationality of proposed subcontractors or suppliers for any part of the Contract including related services.

7.3 AEGCL considers a **conflict of interest** to be a situation in which a party has interests that could improperly influence that party's performance of official duties or responsibilities, contractual obligations, or compliance with applicable laws and regulations, and that such conflict of interest may contribute to or constitute a prohibited practice under Anticorruption Policy of Government of India and Government Of Assam. In pursuance Anticorruption Policy's requirement that Employer as well as bidders, suppliers, and contractors observe the highest standard of ethics. AEGCL will take appropriate actions if it determines that a conflict of interest has flawed the integrity of any procurement process.

Consequently all Bidders found to have a conflict of interest shall be disqualified. A Bidder may be considered to be in a conflict of interest with one or more parties in this bidding process if, including but not limited to:

- (a). they have controlling partners in common; or
- (b). they receive or have received any direct or indirect subsidy from any of them; or
- (c). they have the same legal representative for purposes of this bid; or
- (d). they have a relationship with each other, directly or through common third parties, that puts them in a position to have access to information about or influence on the bid of another Bidder, or influence the decisions of the Employer regarding this bidding process; or
- (e). a Bidder participates in more than one bid in this bidding process. Participation by a Bidder in more than one Bid will result in the disqualification of all Bids in which it is involved. However, this does not limit the inclusion of the same subcontractor, not otherwise participating as a Bidder, in more than one bid; or
- (f). a Bidder or any of its affiliates participated as a consultant in the preparation of the design or technical specifications of the plant and services that are the subject of the bid.

7.4 A firm that is under a declaration of ineligibility by the AEGCL or any Government Entity or PSU at the date of the deadline for bid submission or thereafter i.e. on or before contract signing date shall be disqualified.

7.5 Bidders shall provide such evidence of their continued eligibility satisfactory to the AEGCL, as the Employer shall reasonably request.

7.6 In case a prequalification process has been conducted prior to the bidding process, this bidding is open only to prequalified Bidders.

8.0 Financial Capability:

8.1 Bidder will require to submit along with the bid the audited balance sheets and other legal financial statements acceptable to AEGCL, for the last 3 (three) years to demonstrate the current soundness of the Bidders financial position and its prospective long term profitability. As a minimum, an Applicant's net worth calculated as the difference between total assets and total liabilities should be positive.

8.2 **Average Annual Turnover** : Minimum average annual turnover **INR 14,16,000.00** calculated as total

certified payments received for contracts in progress or completed, within the last 3 (Three) Years.

8.3 **Financial Resources:** Bidder need to demonstrate access to, or availability of, financial resources such as liquid assets, unencumbered real assets, lines of credit, and other financial means, other than any contractual advance payments to meet:

(1) the following cash-flow requirement, **INR 14,00,000.00** and

(2) the overall cash flow requirements for this contract and its current works commitment.

9.0 Experience:

9.1 Experience on relevant work under contracts in the role of manufacturers, contractor, subcontractor, or management contractor for at least the last 5(five) years prior to the bid submission deadline.

9.2 Participation as manufacturer, contractor, in at least three 3 (three) contracts within the last 5 (five) years, with a value of at least **INR 14,00,000.00** that have been successfully or are substantially completed and that

9.3 Are similar to the proposed work: **Supply of ACSR Zebra conductor for Nagaon T&T Division, AEGCL.** Each of such project/ works should consist of at least three work order having one or more completion certificate .

10.0 Evaluation Criteria:

10.1 Evaluation will be done on the basis of *Bid Clause* No. Error! Reference source not found., Eligibility, I. No. **8.0**, Financial Capability, Cl. No. **9.0.**, Experience and in accordance with the **Annexure I** to be duly filled in, signed and submitted by the bidder.

10.2 Price Bid of only **Responsive Techno-Commercial Bidders** will be opened.

10.3 **Arithmetical Error**, if observed while in Price Bid evaluation, same will only be corrected.

10.4 **Any post bid correction request will NOT BE ENTERTAINED.**

10.5 **Price Bid Envelope of the Non-responsive Techno Commercial Bidders will be returned** to the respective bidders against submission of a written request by the bidder.

11.0 Late Bid:

11.1 Any bid submitted **after the due date and time** will be rejected without any prejudice.

11.2 AEGCL will not be responsible for any Postal and/or Courier Delay in delivering the bid. The same received after the scheduled closing date and time will be rejected without any prejudice.

11.3 Bidding through EMAIL WILL NOT BE ACCEPTED.

12.0 Clarification:

12.1 A prospective Bidder requiring any clarification of the Bidding Document shall contact the AEGCL in writing at the AEGCL's address indicated in the BDS or raise his enquiries prior to 7 (seven) days of closing of the bid. The Employer will respond to any request for clarification, provided that such request is received no later than seven (7) days prior to the deadline for submission of

bids. The AEGCL's response shall be in writing with copies to all Bidders who have acquired the Bidding Document including a description of the inquiry but without identifying its source. Should AEGCL deem it necessary to amend the Bidding Document as a result of a request for clarification, it shall do so.

- 12.2 The Bidder is advised to visit and examine the site where the work is to be Carried out and its surroundings and obtain for itself on its own responsibility all information that may be necessary for preparing the bid and entering into a contract for the provision of plant and services. The costs of visiting the site shall be at the Bidder's own expense.
- 12.3 The Bidder and any of its personnel or agents will be granted permission by the Employer to enter upon its premises and lands for the purpose of such visit, but only upon the express condition that the Bidder, its personnel, and agents will release and indemnify the Employer and its personnel and agents from and against all liability in respect thereof, and will be responsible for death or personal injury, loss of or damage to property, and any other loss, damage, costs, and expenses incurred as a result of the inspection.
- 12.4 The Bidder's designated representative is invited to attend a pre-bid meeting, if provided for in the BDS. The purpose of the meeting will be to clarify issues and to answer questions on any matter that may be raised at that stage.
- 12.5 The Bidder is requested, as far as possible, to submit any questions in writing, to reach the AEGCL not later than one week before the pre-bid meeting if there is provision of Pre Bid Meeting.
- 12.6 Minutes of the pre-bid meeting, including the text of the questions raised, without identifying the source, and the responses given, together with any responses prepared after the meeting, will be transmitted promptly to all Bidders who have acquired the Bidding. Any modification to the Bidding Document that may become necessary as a result of the pre-bid meeting shall be made by AEGCL exclusively through the issue of an Addendum but not through the minutes of the pre-bid meeting.
- 12.7 Nonattendance at the pre-bid meeting will not be a cause for disqualification of a Bidder.

13.0 Amendment of Bidding Document:

- 13.1 At any time prior to the deadline for submission of bids, the Employer may amend the Bidding Document by issuing addenda.
- 13.2 Any addendum issued shall be part of the Bidding Document and shall be communicated in writing to all who have obtained the Bidding Document from AEGCL.
- 13.3 To give prospective Bidders reasonable time in which to take an addendum into account in preparing their bids, AEGCL may, at its discretion, extend the deadline for the submission of bids.

14.0 Preparation of Bids by the Bidders:

- 14.1 **Cost of bidding:** The Bidder shall bear all costs associated with the preparation and submission of its Bid, and AEGCL shall not be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.

14.2 **Language of Bid:** The Bid, as well as all correspondence and documents relating to the bid exchanged by the Bidder and AEGCL, shall be written in the English and / or Assamese language.

14.3 Bid Prices and Discounts:

14.3.1 Unless otherwise specified in the Bid Document and/or AEGCL's Requirements, bidders shall quote for the entire plant and services on a —single responsibility basis such that the total bid price covers all the Contractor's obligations mentioned in or to be reasonably inferred from the bidding document in respect of the including procurement and subcontracting (if any), delivery, construction, installation and completion of the Work. This includes all requirements under the Contractor's responsibilities for completing the work and where so required by the bidding document, the acquisition of all permits, approvals and licenses, etc.; the operation, maintenance and training services and such other items and services as may be specified in the Bidding Document, all in accordance with the requirements of the General Conditions. Items against which no price is entered by the Bidder will not be paid for by the Employer when executed and shall be deemed to be covered by the prices for other items.

14.3.2 Bidders are required to quote the price for the commercial, contractual and technical obligations outlined in the bidding document. If a Bidder wishes to make a deviation, such deviation shall be listed. The Bidder shall also provide the additional price if any, for withdrawal of the deviation.

14.3.3 Bidders shall give a breakdown of the prices in the manner and detail called for in the Price Schedules. Where no different Price Schedules are included in the Bidding Document, bidders shall present their prices in the following manner:

(a) Separate numbered Schedules shall be used for each of the following elements.

(i) The total amount from each Schedule shall be summarized in a Grand Summary giving the total bid price(s) to be considered.

14.3.4 The price of the work shall be quoted as the Base Price or EXW Price

14.3.5 Sales Tax, VAT, Service Tax and all other taxes (as applicable) payable on the work should be indicated separately. In case of failure to indicate so AEGCL will consider such taxes are included in the Offered Price.

14.3.6 Whenever forest produces like sand, stone, timbers etc are used in the work the contractor have to furnish documentary proof that requisite royalty on such produces has been paid to the concerned Department.

14.3.7 When the work being "work contract" which is one and individual and which involves no separate contract for the sale of materials, the contractor shall have not be entitled to get any VAT and or any other taxes, levies reimbursed from the AEGCL for the supply of the materials.

14.3.8 Taxes like work contract, income tax etc. which need to be deducted at source as per the prevailing law of the land, will be deducted at source.

14.3.9 The Prices shall be FIXED and FIRM: The Bided Price should on Fixed Price basis, prices quoted by the Bidder shall be fixed during the Bidder's performance of the contract and not subject to variation on

any account. A bid submitted with an adjustable price quotation will be treated as non-responsive and rejected.

15.0 Additional Requirements:

- 15.1 Detailed list of tools, plants, equipment's and machinery available with the tenderer along with their value (A copy of approved assessor's certificate to be enclosed or affidavit), if applicable.
- 15.2 Name, qualifications of the technical supervisors and staff under the employment of the tenderer and organization on hand and proposed to be engaged for the subject work (Authenticated by a Chartered Accountant or sworn through affidavit), if applicable.
- 15.3 Other facilities available with the tenderer not covered hither to.
 - 15.3.1 Bidders(s) knowledge from actual personal investigation of the resources of the region or District (S) in which he/they offers the work.
 - 15.3.2 Copy of Contract labour license.
 - 15.3.3 The Bidder shall furnish copy of their PAN Card. The card must be in the name of firm, in case the tenderer is a partnership Firm.
 - 15.3.4 In case the tenderer is a partnership Firm, the work experience, solvency and turn over shall be in the name of partnership Firm only.
 - 15.3.5 GST registration No. and valid labour license.
 - 15.3.6 Registered Power of attorney, if any.

16.0 Negotiation with successful bidder:

The AEGCL reserve the right to hold negotiations with lowest who should be lowest, valid, eligible and technically acceptable tenderer considered for award of contract directly if the rates were not unreasonably high.

17.0 Technical Qualifying Requirements:

- 17.1 The technical specification of the conductor must conform to the measurement as specified under IS:398 PART-2. (latest version)
- 17.2 **Standards:** The power conductor shall conform to the following Indian Standards which shall mean latest revisions, amendments/changes adopted & published unless otherwise specified hereafter
 1. **IS-209:** Specification for Zinc.
 2. **IS-398:** Specification for aluminium conductors for overhead transmission purpose.
 3. **IS-1778:** Reels and drums for bare conductors.
 4. **IS-1521:** Method of tensile testing of steel wire.
 5. **IS-2629:** Recommended practice for hot dip galvanizing of Iron and Steel.
 6. **IS-2633:** Method of testing uniformity of coating of zinc coated articles.
 7. **IS-4826:** Hot dipped Galvanised Coatings on round steel wires.

8. **IS-6745:** Methods of determination of weight of zinc coating of zinc coated Iron and Steel articles.
9. **IS:5484:** EC grade aluminium rod produced by continuous casting and rolling.

17.3 Materials:

17.3.1 The conductor shall be manufactured from EC grade aluminium rods suitably hard drawn on wire drawing machines. The aluminium rods used shall comply with IS:5484, 1978. The mechanical and electrical properties of aluminium wire shall comply with the requirements given in relevant standard. The aluminium wire shall be manufactured from not less than 99.5% pure electrolytic aluminum rods of EC grade.

17.3.2 Galvanized steel wire shall be drawn from high carbon steel wire rods produced by either the acid or basic open hearth process, the electric furnace process, or the basic oxygen process. The mechanical and electrical properties of wire shall comply with the requirements given in relevant standard. The chemical composition of high carbon steel wire is given below for guidance only.

Element	% composition
Carbon	0.50 to 0.85
Manganese	0.50 to 1.10
Phosphorus	Not more than 0.035
Sulphur	Not more than 0.045
Silicon	0.10 to 0.35

17.3.3 The Zinc used for galvanizing shall be electrolytic high grade Zinc of 99.95% purity. It shall conform to and satisfy all the requirements of IS:209. Galvanizing may be done either by hot process or electrolytic process. Neutral grease may be applied between the layers of wires.

17.4 Freedom from defects:

The wires shall be smooth and free from all imperfections such as spills, splits, slag inclusion, die marks, scratches, fittings, blow-holes, projections, looseness, overlapping of strands, chipping of aluminium layers etc. and all such other defects which may hamper the mechanical and electrical properties of the conductor. Special care should be taken to keep away dirt, grit etc. during stranding.

17.5 Joints in Wires:

17.5.1 The wires shall be drawn in continuous length, without joints, except those made in wire rod or before drawing operation.

17.5.2 Joints in aluminium stranded wires:

During stranding in aluminium wire no welds shall be made for the purpose of achieving the required conductor length.

17.5.2.1 Conductor containing seven wires :

Joints in wires other than those permitted under 17.5.1 shall not be permitted in any wire of stranded conductor containing seven wires.

17.5.2.2 Conductor containing more than seven wires :

For stranded conductor containing more than seven wires, joints are permitted in wire broken during stranding provided such breaks are not associated with either inherently defective wire or with those

of short lengths of aluminium wires. Joints shall be dressed smoothly with a diameter equal to that of parent wires and shall not be kinked. No two joints other than those in wires before stranding permitted under 17.5.1 occur at joints in the stranded conductors nearer than 15 metres.

Joints shall be made by electric butt welding, electric butt cold upset welding or cold pressure welding. These joints shall be made in accordance with good commercial practice. Electric butt welding shall be annealed for approximately 250 mm on both sides of the welds.

While the joints specified are not required to meet the requirements of unjointed wires, they shall be withstanding a stress of not less than 75 MPa for annealed electric butt welded joints and not less than 130 MPa for cold pressure and electric butt cold upset welded joints. The manufacturer shall demonstrate that the proposed welding method is capable of meeting the specified strength requirements.

17.5.3 Joints in galvanized steel wires :

No joints of any kind shall be made in the finished coated steel wires.

17.6 Stranding:

The wire used in the construction of a stranded conductor shall before stranding, satisfy all the relevant requirement of the standard IS:398 PART-2. The lay ratio of different layers shall be within the limit as specified.

In all constructions, the successive layers shall have opposite directions of lay, the outermost layer must be right handed. The wires in each layer shall be eventual and closely stranded.

17.7 Lengths and variation in lengths:

17.7.1 The standard length of the conductor should be 1000 metres (4 drums) or as agreed between the supplier and the purchaser. The tolerance on this length shall be +/- 5%.

17.7.2 Not less than 95% of the total quantity of the conductor shall be supplied in standard lengths. Conductor length in respect to balance 5% (maximum) supply shall be in random length of not less than 67% of a standard length and shall be supplied in individual drum.

18.0 Tests and Inspection:

ALL THE TEST SHOULD CONFORM TO IS: 398 PART-2. AEGCL RESERVE THE RIGHT FOR TESTING AND INSPECTION OF THE CONDUCTOR AND STEEL WIRE AND VERIFY ITS COMPONENT.

18.1 Acceptance Test:

All acceptance tests shall be conducted on every lot offered for inspection at the manufacturer's works as per relevant IS in presence of Engineers of AEGCL. Bidder shall have adequate testing facilities at their works to conduct all relevant routine and acceptance test as stipulated in the relevant IS in presence of engineers of AEGCL. The entire cost of carrying out all routine as well as all acceptance test on all offered lot as per stipulation of IS shall be treated as included in the quoted unit price of conductors. Contractor shall give at least 15 (fifteen) days advance notice intimating actual date of inspection and details of all tests that are to be carried out. Selection of sample for acceptance test as well as rejection and re-testing shall be guided by relevant IS. All routine tests at manufacturer's works for conductor of each drum shall be carried out and Test Report are to be submitted.

18.2 For ACSR conductor:

a) Visual checks for joints etc.

Two / three drums from each lot shall be rewound in presence of the purchaser's representative to facilitate visual checks for joints, scratches etc. and to see that the conductor generally conforms to the requirement of the specification.

In the process declared length and weight shall also be verified.

b) Dimensional check on aluminium and steel strands.

c) Checking of lay ratio of each layer of conductor and lay direction.

d) Breaking load test on individual wires.

e) Elongation test on steel wire.

f) Wrap test on steel and aluminium wire.

g) D.C. resistance test on Aluminium strands.

h) Galvanising test on steel strands.

i) Visual check on drums.

j) Ductility test on galvanized steel wires.

18.3 Routine Test:

To ensure quality of conductor to be supplied under this contract, the suppliers have to carry out all the routing tests as described in IS:398 and maintain a record. Routine Test reports are to be submitted to AEGCL.

Moreover in course of production, the contractor shall ensure the following:

a) Check that the joints are as per specifications.

b) Check that there are no cuts, fins etc. on the strands.

c) Check that correctness of stranding.

d) Check that the drums are as per specification.

For quality assurance of the materials used in the production he will also check the following:

i) Chemical analysis of aluminium used or making aluminium strands.

ii) Chemical analysis of steel used for making steel strands.

iii) Chemical analysis of zinc used for Galvanising.

19.0 Packing and Forwarding:

19.1 General:

19.1.1 The conductor shall be wound on returnable wooden drum strong enough and provided with tagging of adequate strength, constructed to protect the conductor against all damage and displacement during transit, storage and subsequent handling and stringing operations in the field. The drums shall generally conform to IS: 1778 – 1980 as amended up to date and the dimensions shall be as per requirement of conductor length.

19.2.2 Only one conductor length shall be packed on such drum

19.3.3 The drum shall be suitable for wheel mounting.

19.2 Construction of Drums:

All wooden components shall be manufactured out of seasoned soft wood free from defects that may materially weaken the component parts of the drums. Preservative treatment shall be applied to the

the entire drum with preservatives of such a quality which is not harmful to the conductor.

19.3 Protective arrangement:

- 19.3.1 The inner side of the flanges and drum barrel surfaces shall be painted with bitumen based paint/aluminium paint.
- 19.3.2 Before reeling, cardboard or double corrugated or thick bituminized waterproof paper shall be secured to the drum barrel and inside of flanges of the drums by means of suitable adhesive material. These protective wrappings and the adhesive material used shall be of a quality which is not harmful to the conductor. The bituminous water proof paper shall also be provided between each layer of conductor.
- 19.3.3 After reeling the conductor, the exposed surface of the outer layer of the conductor shall be wrapped with waterproof, thick, bituminized paper and also with thick plastic sheet to prevent the conductor from dirt, grit and damage during transport and handling.
- 19.3.4 After application of bituminized and plastic paper, protective tagging of circumferential batten of suitable thickness shall be provided, in order to protect conductor from damage during transit in the event of breakage/detachment of the external protective tagging. The thickness of the external protective tagging or circumferential batten shall be sufficient to withstand transit hazards.
- 19.3.5 Outside the protective tagging, there shall be minimum of two binders' consisting of hoop iron or galvanised steel wire. Each protective tagging shall have two recesses to accommodate hoop binders.
- 19.3.6 The conductor ends shall be properly sealed and secured with the help of 'U' clamps on the side of one of the flanges to avoid loosening of the conductor layers during transit and handling.

19.4 Marking:

Each drum shall have following information stencilled on it in indelible ink along with other essential details.

- (a) Contract/Purchase order number
- (b) Name and address of the consignee
- (c) Manufacturer's name or trademark
- (d) Drum number
- (e) Code name and size of the conductor
- (f) Length of the conductor in meters
- (g) Gross weight of the drum with protective tagging including conductor
- (h) Net weight of the conductor
- (i) Arrow marking for unwinding
- (j) Position of the conductor end
- (k) Lot number
- (l) Name of the destination
- (m) Date of Manufacture

20.0 Contract Drawings and Documents:

In the event of placement of Letter of Award (LOA) the contractor shall submit three (3) copies of relevant drawings, leaflets, G.T.P. and other particulars to the Deputy General Manager, Tezpur T&T

Circle, AEGCL, Tezpur for approval.

21.0 Tests reports and Type Test:

Only type tested ACSR Conductor are to be offered conforming to our technical specification, and relevant IS and IEC. ACSR Conductor offered should be similar with ones on which type testing has been carried out as per relevant IS and IEC. Three sets of complete type test reports carried out in Govt. recognized Test House or Laboratory /NABL accredited laboratory shall have to be submitted by successful bidder positively along with submission of drawings during detailed Engineering. Successful bidder may require to produce original copies of type test reports at the time of detail Engineering if asked by AEGCL.

22.0 Specific Technical Parameters:

Sl no.	Description	ACSR "ZEBRA"
1	Code Name	ZEBRA
2	Number of strands and size(dia)	Al: 54/3.18 mm
		St: 7/3.18 mm
3	Overall diameter	28.62 mm
4	Breaking load	130.32 kN
5	Weight of conductor	1621 kg/km
6	Co-efficient of linear expansion	19.35 x 10 ⁻⁶ /deg C
7	Number of strand	
	Steel centre	1
	1 st steel layer	6
	1 st Aluminium layer	12
	2 nd Aluminium layer	18
	3 rd Aluminium layer	24
8	Sectional area of aluminium	428.90 mm ²
9	Total sectional area	484.50 mm ²
10	Calculated D.C resistance at 20 degree C	0.06869 ohm/km
11	Ultimate tensile strength	130.32 kN

23.0 Service Conditions:

The materials supplied shall be suitable for operation under the following climatic and other conditions:

- a) Peak ambient day temperature in still air: 45 °C
- b) Minimum night temperatures : 0 °C
- c) Ground temperatures: 40 °C
- d) Reference ambient day temperature : 45 °C
- e) Relative Humidity
 - i). Maximum : 100 %
 - ii). Minimum : 10 %
- f) Altitude : Below 1000 M above MSL
- g) Maximum wind pressure : As per IS: 802
- h) Seismic Intensity: ZONE-V as per IS 1893.

24.0 Guaranteed Technical Particulars: (Annexure-II)

This specification covers the minimum requirements for the design, engineering, manufacturing, inspection, testing and supply of ACSR ZEBRA conductor. In addition to concurrence to this specification following consideration to be taken:

Compliance with applicable IS codes & standards as well as any statutory regulation in existence for a specific item.

The Guaranteed Technical Particulars of the equipment shall be furnished by the Bidders in the prescribed Schedules of this Section with the Technical Bid. The Bidder shall also furnish any other information's as in their opinion is needed to give full description and details to judge the item(s) offered by them.

The data furnished in Guaranteed Technical Particulars should be the minimum or maximum value (as per the requirement of the specification) required. A Bidder may guarantee a value more stringent than the specification requirement. However, for testing purpose or from performance point of view, the material shall be considered performed successfully if it achieves the minimum/maximum value required as per the technical specification. No preference whatsoever shall be given to the bidder offering better/more stringent values than those required as per specification except where stated otherwise.

25.0 Scope of Work:

Supply of ACSR Zebra conductor of total length **4000** metres at **Divisional store of Nagaon T&T Division situated at 220 kV Samaguri GSS, AEGCL, Samaguri.**

26.0 Contract Agreement:

26.1 An agreement shall have to be drawn on non-judicial stamp of appropriate value with the Department by the selected Contractor in AEGCL's General Conditions of Supply and Erection 2009 of contract within 15 (fifteen) days from the date of issue of the LOI/Work Order.

26.2 Wherever there is any variation in between the conditions of the AEGCL's General Conditions of Supply and Erection 2009 and the above terms & conditions, this bid conditions will supersede the conditions of the AEGCL's General Conditions of Supply and Erection 2009.

27.0 Liquidated Damage:

The date of completion of work shall be deemed to be the essence of the contract and shall not be completed no later than the date specified in the contract. In case of failure to complete the work within the stipulated period AEGCL shall be entitled to:

27.1 Recover an amount at the rate of 0.5% (Zero Point Five percent) of the Contract Price per week or part thereof of delay, subject to maximum of 10% (Ten percent) of the contract price as liquidated damage to AEGCL.

However, the payment of liquidated damages shall not in any way relieve the Contractor from any of its obligations to complete the works or from any other obligations and liabilities of the Contractor under the Contract.

27.2 To complete the balance work giving notice to the Contractor/Firm and to recover any extra expenditure incurred thereby for having to complete the work at a higher price at the risk and responsibility of the Contractor/Firm.

27.3 Contractual failure:- Refer clause No.27.1 of AEGCL's General Conditions of supply and erection 2009.

28.0 PERT Chart and/or BAR Chart:

The successful bidder within 10 (ten) days before the contract is awarded will make out a detailed PERT Chart covering all activities along with detailed program chart on accepted scheme indicating various stages of execution, method of execution and completion of work in different stages keeping the period of completion in view and submit the same to the Engineer for the consideration and approval.

29.0 Insurance:

The bidder shall arrange for any pay/cost of personnel accident insurance, medical treatment etc. in respect of their employees assigned to the works for all time and shall govern by Law of land.

30.0 Warranty:

30.1 The Supplier/Manufacturer warrants that all the Goods are new, unused, and of the most recent or current models, and that they incorporate all recent improvements in design and materials, unless provided otherwise in the Contract.

30.2 The Supplier/Manufacturer further warrants that the Goods shall be free from defects arising from any act or omission of the Supplier or arising from design, materials, and workmanship, under normal use in the conditions prevailing in the country of final destination.

30.3 If during the Period Warranty any defect is found, the Purchaser shall give Notice to the Supplier/Manufacture stating the nature of any such defects together with all available evidence thereof, promptly following the discovery thereof. The Purchaser shall afford all reasonable opportunity for the Supplier/Manufacturer to inspect such defects.

30.4 If having been notified, the Supplier/Manufacturer fails to remedy the defect within a period of 15 (fifteen) days, the Purchaser may, following notice to the Supplier/Manufacturer, proceed to do such work, and the reasonable costs incurred by the Purchaser in connection therewith shall be paid to the Purchaser by the Supplier or may be deducted by the Purchaser from any amount due the Supplier or claimed under the Performance Security.

30.5 The term period of warranty shall mean the period of 12 months from the date of Taking Over of the Work by AEGCL. A Taking over Certificate (TOC) will be issued by the appropriate authority.

31.0 Safety:

Each and every safety measures for MAN and MACHINE will be the sole responsibility of the Contractor without any prejudice. Compensation claim if any will also be the responsibility of the contractor without any prejudice. As the contract is Turnkey in nature hence AEGCL will not bear any responsibility towards such claim.

32.0 Pollution:

Each and every measure should be taken to adhere to the standard norms to avert any occasion of Air Pollution, Water Pollution, Soil Pollution and Sound Pollution. In case of any deviation leading to any legal action the Contractor will be solely responsible without any prejudice.

33.0 Payment terms:

- 33.1 No advance/Mobilization advance shall be made in this contract.
- 33.2 100% payment would be admissible within six (6) weeks from the date of receipt of the plants/ materials /equipment at site in full and good condition less deduction of Retention Money as per terms and conditions stipulated in the Contract Agreement.
- 33.3 No claim for interest shall be entertained by AEGCL in respect of any money or balance which may be in AEGCL's hands owing to any dispute or difference or misunderstanding between the contractor and the AEGCL or due to the reason beyond the reasonable control of AEGCL.
- 33.4 Payment is subject to availability of specific fund.
- 33.5 TDS at actual will be deducted from the payable amount against each invoice/bill.
- 33.6 Bill will be routed through DGM, Tezpur (T&T) Circle, AEGCL, Dhanuwa Nagar, Tezpur, and Payment will be made through Net Banking system at HQ.
The Bidder / Firm will have to be submitted the following Net Banking details.
(a) Banker's Name & Branch
(b) Account No
(c) Banker's address
(d) Banker's IFSC Code
(e) Banker's RTGS Code

34.0 Performance security deposit:

- 34.1 The successful bidder shall have to deposit through a **Bank Guarantee** from a Nationalized or scheduled Bank of RBI in AEGCL's standard proforma on non-judicial stamp of appropriate value for an amount equivalent to 10% (ten percent) of the total value of the order as performance security, immediately within 10 (ten) days from the issue of the letter of intent/detailed orders (as the case may be), duly pledged in favour of the **The Managing Director, AEGCL, Bijulee Bhawan, Paltanbazar, Guwahati-1**, and such security deposit shall be valid up to 30 days beyond the warranty period of 12 (twelve) months. The Bank Guarantee (BG) should be submitted to the **O/O the Deputy General Manager, Tezpur T&T Circle, AEGCL, Tezpur-784001** by the issuing Bank under registered post AD.
- 34.2 Please note that, if the selected Bidder / Firm fails to furnish the requisite performance security as stated above and sign the contract within the stipulated period, LOI/work order issued in favour of the Bidder/ Firm will automatically be Null & void.
- 34.3 If the bidder / firm fails or neglects to observe and perform any of his obligations under the contract, Purchaser (AEGCL) shall have the right to forfeit either in full or in part at his absolute discretion, the security deposit furnished by the Contractor/Firm.
- 34.4 No interest shall be payable on such deposits.

35.0 Retention Money:

- 35.1 In addition to above performance security deposit, 10% value of each progressive bill will be retained by the Engineer/Purchaser as Retention Money. The amount will be held by the Purchaser (AEGCL) till the work under the contract is completed and the completion certificate is issued in pursuance to

clause 25.0 of AEGCL's General Conditions of Supply and Erection 2009.

35.2 If the Firm/Bidder fails or neglects to observe and perform any of his obligations under the contract, the Purchaser (AEGCL) shall have the right to forfeit either in full or in part at his absolute discretion, the security deposit furnished by the supplier/contractor.

35.3 No interest shall be payable on such deposit.

36.0 Force Majeure Condition:

Force Majeure condition shall be considered as any circumstances beyond reasonable control of the party claiming relief, including but not limited to strikes, lockout, civil commotion, riot insurrection, hostilities, mobilization, war, fire, flood, earthquake, malicious damage or accidents could entitle contractor to extension time. Any such delay should intimated within 10 (ten) days from the beginning of such delay to consider/approved, any claim without prior information may not be considered under force Majeure.

37.0 Settlement of Dispute and Arbitration:

Any dispute arising out of the contract will be first settled bilaterally between AEGCL and Contractor. In case, dispute cannot be settled bilaterally, it will be referred to arbitration to be by an arbitrator appointed by AEGCL. The contractor shall not stop the work during settlement of any dispute. All disputes shall be subjected to the jurisdiction of District Court of Kamrup District.

38.0 Right to Reject:

The AEGCL reserves the right to reject any or all the bids without assigning any reason thereof and the AEGCL further reserves the right to split up the work order in favour of more than one Contractor. The AEGCL also reserves the right to reject the lowest or any other price without assigning any reason.

The clauses which are not appearing in this document (bid) will be as per The General Condition of Supply and Erection 2009 of AEGCL. The General Condition of Supply and Erection 2009 of AEGCL is available in the AEGCL's website www.aegcl.co.in under Acts, Rules and Policies Tab.

Letter of Technical Bid

[Bidder's Letterhead]

Date: _____

Tender No.: _____

Invitation for Bid No.: _____

To: _____

We, the undersigned, declare that:

- (a) We have examined and have no reservations to the Bidding Document, including Addenda No.: _____.
- (b) We offer to supply in conformity with the Bidding Document and in accordance with the completion/delivery schedule specified in the bid document, the following Goods and Related Services: _____
- (c) Our Bid shall be valid for a period of _____ days from the date fixed for the bid submission deadline in accordance with the Bidding Document, and it shall remain binding upon us and may be accepted at any time before the expiration of that period;
- (d) If our Bid is accepted, we commit to obtain a Performance Security in the amount of _____ percent of the Contract Price for the due performance of the Contract;
- (e) We are not participating, as Bidders, in more than one Bid in this bidding process;
- (f) We understand that this Bid, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us, until a formal Contract is prepared and executed.
- (g) Our firm, its affiliates or subsidiaries, including any Subcontractors or Suppliers for any part of the contract, has not been declared ineligible by AEGCL, APDCL or APGCL under the Employer's country laws or official regulations
- (h) We understand that you are not bound to accept the lowest evaluated bid or any other bid that you may receive.

Name _____

In the capacity of _____

Signed _____

Duly authorized to sign the Bid for and on behalf of _____

Date _____

Price Proposal Submission Sheet

Date: _____

Tender No.: _____

Invitation for Bid No.: _____

To: _____

We, the undersigned, declare that:

- (a) We have examined and have no reservations to the Bidding Document, including Addenda No.: _____
- (b) We offer to supply in conformity with the Bidding Document and in accordance with the completion/delivery schedule specified Schedule of Supply & Erection, the following Goods and Related Services:

- (c) The total price of our Bid, excluding any discounts offered in item (d) below is:

- (d) The discounts offered and the methodology for their application are:

- (e) The following commissions, gratuities, or fees have been paid or are to be paid with respect to the bidding process or execution of the Contract:

Name of Recipient	Address	Reason	Amount

(If none has been paid or is to be paid, indicate "none.")

Name _____

In the capacity of _____

Signed _____

Duly authorized to sign the Bid for and on behalf of _____

Date _____

Bidding Forms:
Name of work:

Bid Identification No:

General

- (i) Name of the Firm/Contractor:
- (ii) Full Address:
- (iii) Constitution of the Firm:
 - a) Whether Partnership or any type:

A) Experience

- (i) No of years the Firm/Contractor has been in operation under its present name.
- (ii) Details of work executed/being executed by the tenderer in the last three years.
- (iii) Testimonials from Clients Company on various works executed for the last three years.
 (Details of works executed/under execution in the last three years including other department)

Sl. No.	Name of work & W/O No.	Worked Done Under	Value of Work	Specified date of completion	Present status/completed on

B) Financial Position

- (i) Financial Turnover during the last three years (copies of Audited Annual report, Accounts or a statement duly certified by a chartered accountant and Income Tax return.

Year	Turn over

Any other details that the tenderer may like to furnish to substantiate their financial and technical ability to undertake this work and complete the same within stipulated period of completion.

Name of the Bidder:-

Signature of the Bidder/Firm

Full Name

Postal Address

Phone/Mobile No.

PRICE BID

Schedule – I (Supply)

(To be submitted in the Part-II, 'Price bid' in sealed envelope in quadruplicate)

Sl no	Description	Unit	Qty	Unit Price exclusive of Taxes (Rs.)	Total Price exclusive of Taxes (Rs.)
<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>
01	Supply of ACSR Zebra Conductor	metres	4000		
Total in figures					
Total in words					

To be carried forward to Schedule-III (Grand Total)

Name of the Bidder:-

Signature of the Bidder/Firm

Full Name

Postal Address

Phone/Mobile No.

PRICE BID

Schedule – II (Freight and Insurance)

(To be submitted in the Part-II, 'Price bid' in sealed envelope in quadruplicate)

Sl no	Description	Unit	Qty	Unit Price exclusive of Taxes (Rs.)	Total Price exclusive of Taxes (Rs.)
<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>
01	Supply of ACSR Zebra Conductor	metres	4000		
Total in figures					
Total in words					

To be carried forward to Schedule-III (Grand Total)

Name of the Bidder:-

Signature of the Bidder/Firm

Full Name

Postal Address

Phone/Mobile No.

PRICE BID

Schedule – III (Grand Total)

(To be submitted in the Part-II, 'Price bid' in sealed envelope in quadruplicate)

Sl no	Description	Total Price exclusive of Taxes (Rs.)
<i>1</i>	<i>2</i>	<i>3</i>
01	Schedule-I, Supply	
02	Schedule-II, Freight and Insurance	
Grand Total in figures		
Grand Total in words		

Name of the Bidder:-

Signature of the Bidder/Firm

Full Name

Postal Address

Phone/Mobile No.

Form of Bid Security (Bank Guarantee)

(To be stamped in accordance with Stamp Act)
(The non-Judicial Stamp Paper should be in the name of issuing Bank)

Date: _____
Bid Reference No.: _____

WHEREAS, _____ [Name of Bidder] (hereinafter called "the Bidder") has submitted his bid dated _____ [Date] for the supply of _____ [Name of Contract] (hereinafter called "the Bid").

KNOW ALL MEN by these presents that We _____ [Name of Bank] of _____ [Name of Place] having our registered office at _____ (hereinafter called "the Bank") are bound unto _____ [Name of Purchaser] (hereinafter called "the Purchaser ") in the sum of _____1 for which payment well and truly to be made to the said Purchaser the Bank binds himself, his successors and assigns by these presents.

SEALED with the Common Seal of the said Bank this ____ day of _____ 20____.

THE CONDITIONS of this obligation are:

- 1) If the Bidder withdraws its Bid during the period of bid validity specified by the Bidder in the Bid Submission Sheet, except as provided in the relevant Bid **Clause**;
- Or
- 2) If the Bidder refuses to accept the correction of errors in his Bid;
- Or
- 3) if the Bidder, having been notified of the acceptance of his Bid by the Employer during the period of Bid validity;
 - a) fails or refuses to execute the Form of Contract Agreement in accordance with the Instructions to Bidders, if required; or
 - b) fails or refuses to furnish the Performance Security, in accordance with the Instructions to Bidders;

We undertake to pay to the Purchaser up to the above amount upon receipt of its first written demand, without the Purchaser having to substantiate its demand, provided that in its demand the Purchaser will note that the amount claimed by it is due to it owing to the occurrence of one or all of the three conditions, specifying the occurred condition or conditions. This Guarantee will remain in force up to and including the date ____ days after the deadline for submission of bids as such deadline is stated in the Instructions to Bidders or as it may be extended by the Purchaser, notice of which extension(s) to the Bank is hereby waived. Any demand in respect of this Guarantee should reach the Bank not later than the above date.

DATE _____ SIGNATURE OF THE BANK _____

WITNESS _____ SEAL _____

(Signature, Name, and Address)

Manufacturer's Authorization Format

Date:

NIT no:

To,

WHEREAS _____ who are official
manufacturers of _____ having factories at
_____ do hereby
authorize _____ to submit a bid in relation to
the Invitation for Bids indicated above, the purpose of which is to provide the following goods manufactured by
us _____ and to subsequently negotiate and sign the Contract.

Name _____

In the Capacity of _____

Signed _____

Duly authorized to sign the Authorization for and behalf of

Date _____

ANNEXURE: I

Following information is to be furnished in the 'Technical and Commercial bid' as first page.

(Please tick mark where necessary.)

1)	Earnest money (EMD)	:Submitted/Not submitted
	a) Amount of EMD	:Rs.
	b) Submitted in the form of	
	Bank Guarantee /Demand Draft	: Yes/No.
2)	Validity of the offer	: days from the date of opening of 'Technical & Commercial Bid' & 'Price bid'.
3)	Nature of price offered	
	i) 'FIRM' Price	: Yes/No
4)	Terms of payment (Whether agreeable to accept payment as specified in clause- 33)	: Yes/No
5)	Date of completion of supply/Erection. (Please specify the date of completion of supply/Erection as per specification)	: Yes/No
6)	Delay in Supply/Construction (Whether agreeable to accept AEGCL's terms as specified in Clause no- 31 of 'General conditions of supply & erection of AEGCL')	: Yes/No
7)	'Security and performance guarantee' (Whether agreeable to accept as specified in Clause no-34 & 35)	: Yes/No
8)	Sales tax clearance certificate of the current year furnished	: Yes/No
9)	Whether drawing etc. as per specification are furnished	: Yes/No
10)	List of orders executed for similar works furnished	: Yes/No
11)	Performance certificate from the Govt/Govt undertaking furnished	: Yes/No

12)	Deviation from the specifications	
	a) Technical	: Yes/No
	b) Commercial	: Yes/No
13)	Information in respect of technical capability is furnished	: Yes/No
14)	Information in respect of Financial capability certificate from the Banker is furnished	: Yes/No
15)	Certificate as per Cl.no. 15.1 enclosed	: Yes/No
16)	Certificate as per Cl.no. 15.2 enclosed	: Yes/No
17)	Copy of Contract Labour License, Cl. No. 15.3.2	: Yes/No
18)	PAN card as per Cl. No. 15.3.3	: Yes/No
19)	GST registration no. and valid labour license as per Cl. No. 15.3.5 enclosed.	: Yes/No
20)	Registered Power of Attorney as per Cl.no. 15.3.6 enclosed.	: Yes/No

It is certified that the rates have been quoted as per terms and conditions laid down in the tender specification and without any deviation.

Name of the Bidder:-

Signature of the Bidder/Firm

Full Name

Postal Address

Phone/Mobile No.

ANNEXURE -II

GUARANTEED TECHNICAL PARTICULARS FOR ACSR ZEBRA CONDUCTOR (To be filled in and signed by the Bidder)

Sl no	Description	Particulars
1	Name of the Manufacturer and Address;	
2	Material Description:	
3	Particulars of raw material (i) Aluminium (a) Maximum purity of Al: (b) Maximum copper content:	
	(ii) Steel wire/rods (a) Carbon content: (b) Manganese content: (c) Phosphorus content: (d) Sulphur content: (e) Silicon content:	
	(iii) Zinc (a) Minimum purity of Zinc:	
4	Nominal diameter (a) Aluminium (mm): (b) Steel wire (mm):	
5	Maximum and Minimum diameter (a) Aluminium (mm): (b) Steel wire (mm):	
6	Number of Aluminium wires (No):	
7	Number of Steel wires (No):	
8	Overall diameter of the conductor (mm):	
9	DC resistance at 20° C (Max.) Ohm/km:	
10	Approx. calculated breaking load. (KN):	
11	Nominal current carrying capacity at 45° C ambient (Amps):	

12	Approx. weight of the conductor (kg/km):	
13	Approx. Ultimate tensile strength of the conductor (kgf):	
14	Conforming Standard:	
15	Modulus of elasticity (kg/sq cm):	
16	Standard length (in metre):	
17	Drums as per specification: (Yes/No)	

Name of the Bidder:-

Signature of the Bidder/Firm

Full Name

Postal Address

Phone/Mobile No.