

INDEX

Section-I	Instructions to Bidders	
Section –II	General Conditions of Contract.	
Section -III	Technical Specification for HT XLPE Insulated PVC Sheathed ACSR RABBIT Conductor.	
Schedule-I	Schedule of Requirement	
Schedule-III	Details of Standards	
Schedule -III A	Pre Qualification Requirement (PQR)	
Schedule -III B	Performa of Bank Guarantee in lieu of Type Test Certificate	
Schedule-IV	Price Schedule	To be submitted in Price Bid Envelope
Schedule-IV A	Details of tendered quantity, quantity offered along with justification with reference to Qualifying Requirement.	The bidder is required to justify quantity offered as per Qualifying Requirement.
Schedule-V	Departure from Guaranteed Technical Particulars	
Schedule-V A	Guaranteed Technical Particulars of HT XLPE Insulated PVC Sheathed ACSR RABBIT Conductor.	
Schedule VI A	Departure from the requirement of Technical Specification.	
Schedule VI B	Departure from commercial terms & conditions of specification	
Schedule VII	List of Past supplies.	
Schedule VII A	C.A. Certificate for Quantity Justification.	
Schedule VIII	Delivery schedule.	
Schedule IX	List of equipment & technical hands available with the biding firm.	
Schedule X	General Particulars about the bid in brief.	

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BID DOCUMENTS FOR PURCHASE OF HT XLPE INSULATED PVC SHEATHED ACSR RABBIT CONDUCTOR. SUITABLE FOR WORKING VOLTAGE UPTO AND INCLUDING 11000 VOLTS AGAINST SPECIFICATION NO.JPD/SE/PROC./SPO.I/TN-4348

S.No	ITEM	Quantity (Approx)
1	HT XLPE Insulated PVC Sheathed ACSR RABBIT Conductor.	150 Kms.

LAST DATE AND TIME FOR : 6.4.2011 UPTO 2.30P.M.
RECEIPT OF BID

DATE AND TIME OF : 6.4.2011 AT 3.00 P.M.
OPENING OF BID

EARNEST MONEY TO BE : RS.150000/-
DEPOSITED

COST OF THE : RS.2,500.00(non refundable)
SPECIFICATION

VALIDITY : 120 DAYS FROM THE NEXT
DATE OF OPENING OF
TECHNO-COMMERCIAL BID.

NOTE : The bidders, in their own interest are requested to read very carefully Section-I (Instruction to Bidders), Section-II (General Condition of Contract) & Section-III (Technical Specification) before filling the bid. The Bid documents be downloaded from JVVNL website www.jaipurdiscom.in . No hard copy of the bidding documents will be provided to the bidders through this office. In case of any discrepancy found in the bidding documents downloaded from the website and appended with the bid (as a bid document) and the original copy of such document available in the office of Superintending Engineer(Proc), Jaipur discom, Jaipur then the copy available with Superintending Engineer(Proc), Jaipur discom, Jaipur will be considered as final document for all purposes. The cost of Bid document as published in NIT shall be furnished along with downloaded bid document in the manner prescribed in bid document.

SECTION – III

TECHNICAL SPECIFICATION & SCHEDULE OF REQUIREMENT FOR HT XLPE INSULATED PVC SHEATHED ACSR RABBIT CONDUCTOR. SUITABLE FOR WORKING VOLTAGE UPTO AND INCLUDING 11000 VOLTS AGAINST TN-4348

1. SCOPE:

This section provides for manufacture, testing before dispatch, supply and delivery F.O.R. destination of ACSR Rabbit Conductor, Cross linked polyethylene Insulated and PVC Sheathed suitable for working voltage up to and including 11000 Volts. The HT Insulated PVC Sheathed ACSR Rabbit Conductor shall be conforming to IS:398(Pt.2)/1996 , **IS:7098(Pt.2)/1985 and IS:5831(1984) with latest amendments.**

The requirement of HT XLPE Insulated PVC Sheathed ACSR RABBIT Conductor. shall be as per schedule of requirement annexed with this section at Schedule-I, it may be noted that the requirement indicated in Schedule is tentative & may vary at the time of placement of order.

The bidders should be a manufacturer of ACSR RABBIT Conductor and also of HT XLPE Insulated PVC Sheathed Aerial Bunched / Power Cables. The Offers from sole selling agents / authorized dealer shall not be entertained. The firms (manufacturers) must possess valid ISI License for the ACSR Rabbit Conductor as per IS:398(Pt.2)/1996 as well as XLPE Insulated PVC Sheathed Power Cable suitable for working voltage up to and including 11000 volts As per IS:7098(Pt.2)/1985 with latest amendment. The technical bid of the bidders shall be considered for opening in absence of non-furnishing of above required ISI Licenses along with the bid. However, price bid of the responsive bidders shall only be opened if bidder furnishes above required ISI License up to official working hours of one working day prior to the scheduled / notified date of opening of price bid, failing which price bid of the bidder shall not be opened. The bids from trading firms shall not be considered.

2. STANDARDS:

Unless otherwise stipulated in this specification the following standards with latest amendments shall be applicable for HT XLPE Insulated PVC Sheathed ACSR Rabbit Conductor. Any departure from the standards be indicated in Schedule-III:

- i) IS:398 (Pt.2)/1996 : Specification for Aluminum Conductor for over-head transmission line.
- ii) IS:7098(Pt-2)/1985 : Specification for Cross linked Polyethylene Insulated PVC Sheathed cables from working Voltage 3.3. KV up to & including 33 KV.
- iii) IS: 5831 : PVC Insulation and sheath of Electrical Cables
- iv) IS:10810 : Methods of test for cables.
- v) IS:10418 : Drums for Electric Cables

3. **CLIMATIC CONDITIONS:**

- i) Peak ambient temperature in shade. 50 Deg.C
- ii) Maximum average ambient temperature in a 24 hours period in shade. 40 Deg.C
- iii) Min. ambient air temperature in shade (-)5 Deg.C
- iv) Maximum temperature attainable by an object exposed to sun. 60 Deg.C
- v) Maximum relative humidity 100%
- vi) Average number of thunder storm days per annum 40
- vii) Average number of rainy days per annum. 100
- viii) Average annual rainfall 10 to 100 cm
- ix) Number of months of tropical monsoon conditions 4 months
- x) Maximum wind pressure. 100 Kg/ Sq. mm
- xi) Altitude not exceeding 1000

4. GENERAL REQUIREMENT OF HT XLPE INSULATED PVC SHEATHED ACSR RABBIT CONDUCTOR:

4.1 MATERIAL

A) FOR ACSR RABBIT CONDUCTOR

The material offered shall be of the best quality and workmanship. The conductor shall be constructed of hard drawn aluminum and galvanized steel wires which have the mechanical and electrical properties specified in IS: 398 (Part.2)/1996 with latest amendment, if any, the Zinc coating on the galvanized steel wires may be applied by the hot process in accordance with IS:4826/1979 with latest amendment if any. The ACSR RABBIT to be used shall be BIS marked.

B) FOR XLPE INSULATION

The Conductor shall be provided with cross linked polyethylene insulation applied by extrusion conforming to the requirement given in Table-1 of IS:7098(Part-2)/1985 with latest amendment. The insulation shall be so applied that it fits closely on the conductor and it shall be possible to remove it without damaging the conductor. **The nominal thickness of insulation shall be of 3.60 mm. as per Clause No.11 of IS:7098(Part-2)/1985 and the smallest of measured value of thickness of insulation shall be 3.14 mm as per Clause No.11.3 of IS:7098(Part-2)/1985.**

C) OUTER SHEATH INSULATION

The outer sheath shall be of polyvinyl chloride (PVC) compound conforming to requirement to type ST-2 of IS:5831/ 1984 . **The nominal thickness of insulation shall be of 2.0 mm. as per Clause No.17.3.1 of IS:7098(Part-2)/1985 and the smallest of measured value of thickness of insulation shall be 1.4 mm as per Clause No.17.3.1 of IS:7098(Part-2)/1985. The colour of outer sheath shall be black.**

5. TEST AND TYPE TEST CERTIFICATES:

5.1 The insulated conductor shall be conformed to requirement of latest edition of IS:398 (Part.2)/1996, IS:7098(Part-2)/1985 and IS:5831 / 1984 .

5.2 The material offered shall be fully type tested as per relevant standard of specification of IS:398(Pt.II)/1996, IS:7098(Part-2)/1985 and IS:5831 / 1984 with all subsequent amendments issued time to time. The bidder shall furnish valid type test report of similar rating and design of tendered material along with bid as detailed at Schedule-III A "Pre Qualification Requirement".

The following shall constitute type tests as per requirement of IS-398 Part 2/1996 and IS-7098(Pt-2)/1985 amended up to date.

A) ACSR RABBIT CONDUCTOR (IS-398 Part-2/1996) AMENDED UP TO DATE

- i) Measurement of Dia meter for individual Aluminum and steel wires
- ii) Measurement of lay ratio
- iii) Breaking Load of individual Wires.
- iv) Ductility test
- v) Wrapping test
- vi) Resistance Test
- vii) Galvanizing test.

B) ON XLPE INSULATION AND PVC SHEATHING IS-7098(Pt-2)/1985 AND IS:5831/1984 AMENDED UPTO DATE

- I) Test for thickness of insulation and sheath.
- II) Physical tests for insulation:
 - a) **Tensile strength and elongation at break**
 - b) **Ageing in air oven**
 - c) **Hot set test**
 - d) **Shrinkage test**
 - e) **Water absorption (gravimetric)**
- III) Insulation resistance (volume resistivity test)
- IV) High Voltage Test
- V) Flammability
- VI) Physical Tests for outer sheath :-
 - a) **Tensile strength and elongation at break**
 - b) **Ageing in air oven**
 - c) **Loss of mass in air oven**
 - d) **Shrinkage test**
 - e) **Hot deformation**
 - f) **Heat shock test**
 - g) **Thermal stability**

5.3 The bidder must also clearly indicate various testing facilities available at their works for testing the material as per relevant standards. In case of otherwise particulars of the place where such testing is proposed to be conducted during the course of inspection shall be indicated with the offer.

6. INSPECTION:

6.1 The inspection & testing shall be governed by Clause No.1.27 of Section-II (General Condition of Contract). The inspection may be carried out by the purchaser at any stage of manufacture. The successful bidder shall grant free access to the purchaser's representative at a reasonable time when the work is in progress. Inspection and acceptance

of any equipment / material under this specification by the purchaser shall not relieve the supplier of his obligation of furnishing equipment in accordance with the specification and shall not prevent subsequent rejection if the equipment / material is found to be defective.

Following acceptance tests shall be done as per IS:7098(Pt-2)/1985 for XLPE Insulation and PVC Sheathing suitable for working voltage up to & including 11000 Volts as per Clause No.18.2 of IS:7098(Pt-2)/1985, As per clause No.14.2 of IS:398 (Pt-2)/1996 for ACSR Conductor and shall be conducted in presence of the purchaser's authorized representative / agency on each lot of offered insulated ACSR Conductor. The sampling shall be done as per Appendix-A (Clause No.18.2.1) of IS:7098(Pt-2)/1985 for finished Insulated ACSR Conductor suitable for working voltage up to & including 11000 Volts. Further cold bend /cold impact test(IS-5831/1984) on outer sheath shall constitute the optional test and shall be conducted on first lot or from other lot of the offered insulated conductor as per clause no 18.4 of IS-7098(Pt -2)/1985.

(A) FOR XLPE INSULATION AND PVC SHEATH:

- a) Test for thickness of Insulation and sheath.
- b) Tensile Strength & elongation at Break Test for Insulation and sheath.
- c) Hot Set for Insulation.
- d) Insulation Resistance Test.
- e) High Voltage Test.
- f) Cold impact test

(B) FOR ACSR RABBIT CONDUCTOR:

- i) Measurement of dia of individual Aluminum & Steel Wire.
- ii) Measurement of Lay Ratio.
- iii) Breaking Load of Individual wires.
- iv) Ductility Test.
- v) Wrapping Test.
- vi) Resistance Test.
- vii) Galvanizing Test.

The routine test certificates to be furnished to the Inspecting Officer at works as per IS-398 Part-2/1996 and as per IS:7098(Pt-2)/1985 amended up to date for verification.

6.2 The supplier / manufacturer must offer conductor for inspection through a letter of offer mentioning size and quantity of the conductor along with Packing List duly signed indicating drum Serial No. individual lengths total length, net weight & gross weight in DUPLICATE. This letter of offer shall be addressed to this office. The packing list shall also be furnished to the Inspecting Officer prior to carrying out the inspection at the works.

6.3 The supplier shall keep the purchaser informed in advance about the manufacturing programme so that arrangement can be made for inspection.

6.4 The purchaser reserves the right to insist for witnessing the acceptance / routine test of the bought-out items.

6.5 At least 5% of total nos. of drums subject to minimum of one (1) in any lot put up for inspection shall be selected at random to ascertain the length of insulated conductor by the following method:

“At the works of the manufacturer the insulated conductor shall be transferred from one drum to another for checking any manufacturing defects in the insulated conductor, at the same time measuring its length with the help of the graduated pulley & cyclometer. The difference in average length thus obtained from the declared length by the supplier in the packing list shall be applied to all the drums if the insulated conductor is found short during checking the sample lot(s).”

6.6 The supplier shall present the latest Calibration Certificate(s) of testing instruments / equipments to be used for the testing of the material covered in the Purchase Order to the authorized inspecting officer / inspecting agency of the purchaser. The testing instruments / meters/ apparatus etc. should be got calibrated by the supplier from time to time from Govt. or Independent test laboratory / house having valid accreditation from National Accreditation Board for Testing and Calibrating Laboratories for the testing equipments or original manufacturer having traceability to NABL / NPL or equivalent accredited lab.

The calibration certificate(s) should not in any case be older than one year at the time of presenting the same to the inspecting officer / inspecting agency of the purchaser. The testing instruments / equipments should be duly sealed by the Calibrating Agency and mention thereof shall be indicated in the calibration certificate(s).

7.0 TYPE TEST ON SAMPLE(S) TO BE SELECTED FROM MATERIAL RECEIVED IN STORE:

7.1 The first lot offered for Inspection shall not be less than 10% of ordered quantity of XLPE Insulated ACSR Rabbit Conductor or minimum quantity of 20 Kms. whichever is more.

7.2 If the bidder has already got conducted the requisite type test from the 1st lot of material received in Nigam's Store against any previous / earlier tender of JVVNL and such Type Test reports are valid i.e. not older than 3 Years on the date of opening of Techno-Commercial Bids , then the requirement of conducting mandatory Type Test on the sample selected from 1st Lot of supply received in Nigam's store is RELAXED. For this purpose date of conducting Type Test will be considered.

ALTERNATIVELY

In case the bidders do not meet above requirement then one sample of 15 Mtr. Length from the 1st Lot of HT XLPE Insulated PVC Sheathed ACSR Rabbit

Conductor as received in purchaser's store shall be selected and sealed in the presence of representative of supplier for getting it type tested from a Govt. / Govt. approved / Govt. Recognized / NABL Accredited laboratory / ILAC Accredited laboratory (Suppliers own lab shall not be considered for the purpose of type test). The selected and sealed sample for type test shall be identified by providing Polycarbonate Seals on both ends of conductor and two stickers seals provided along the length of the conductor. The transportation charges of sample from store to test house shall be borne by NIGAM, whereas the charges incurred towards type test of the material at test house shall be borne by the Supplier. **The testing charges should be remitted through D.D. in favour of Test House. Name of Test House shall be intimated separately by purchaser.**

In case sample from first lot fails then:

a) Supplier shall have to replace the full quantity of the respective inspected lot supplied to various stores and lying unused at stores.

b) For the quantity already utilized against the order in field a deduction of @30% (Thirty Percent) of F.O.R. Destination price of the material supplied shall be made.

c) Sample from next lot shall be selected again for type test. All test charges incurred towards type test of the material for second time shall be borne by the Supplier.

d) In case the 1st sample fails, the supplier shall have to pay the type test charges again for testing house for which the testing charges should be remitted through D.D. in favour of Test House by the supplier with the 2nd inspection offer.

In case sample again fails in the type test then:

a) The quantity lying unused at various stores shall be rejected.

b) For the quantity already utilized against the order in field a deduction of @30% (Thirty Percent) of F.O.R. Destination price of the material supplied shall be made.

c) Further supplies shall not be accepted.

“At the option of purchaser, the material received in the stores may be utilized in the field after receipt of successful test report from CTL, Jaipur for the mandatory test checking on the samples selected from the material received at stores against first lot and subsequent lot(s) in anticipation of successful type test report(s).”

NOTE:

1. The 70% payment shall be released after receipt of successful Test reports from CTL, Jaipur for the mandatory testing checking on the samples selected from the material received at stores against first lot and subsequent lot(s) in anticipation of successful type test reports.

2. The balance 30% payment shall be released after receipt of successful type test reports on the samples selected from the material received in the stores.

8.0 STANDARD LENGTH:

8.1 The standard length of the HT XLPE Insulated PVC Sheathed ACSR RABBIT conductor drum shall be 1000 meters. A tolerance of (+/-) 5% on the standard length offered by the Bidder shall be permitted. All length outside this limit of tolerance shall be treated as random lengths.

8.2 Random lengths will be accepted provided no length is less than 80% of the standard length and the total quantity of such random length shall not be more than 5% of the total quantity ordered.

8.3 The maximum length in one drum shall be 3000 meter.

9.0 REWINDING AT STORES:

The purchaser has every right for rewinding of Insulated ACSR RABBIT conductor drums at stores / site in part or full after receipt of material. If at any time, shortage in lengths observed in any of the drum of the particular lot, the maximum length of shortage so observed in rewound drums shall be deducted from all the drums inspected / dispatch lot. However, the purchaser shall intimate in advance to the supplier programme of rewinding to depute their representative to witness rewinding, if supplier desires so. If the supplier does not depute their authorized representative, the rewinding shall be done by store organization in presence of representative of purchaser nominated by this office. During rewinding in store if any defect / shortage is found the purchaser shall have every right to deduct the cost of defective / short material or reject the entire lot.

10.0 TEST CHECKING OF MATERIAL AT STORES:

i) Sample drums from the material received at stores shall be selected for testing at CTL as per sampling plan given hereunder in presence of firm's representative.

ii) The selected sample drum for CTL testing shall be identified by the seals provided by Inspecting Officer / Inspecting Agency during pre-dispatch inspection at firm's works and these sealing details shall be invariably mentioned in the sample selection Memo by the nominated officers of Nigam.

iii) The tests in the Nigam Testing laboratory (CTL) shall be conducted in the presence of representative of supplier for which a 7 days notice shall be issued through Fax / Speed Post stating Date & Time to the firm, so that supplier can depute their representative to witness the test. In case the supplier or his representative does not turn up the testing shall be proceeded & completed. **The payment shall be released only after receipt of successful CTL test reports** for the samples selected at purchaser's stores for mandatory

test checking on the samples to be selected from material received at Nigam's stores by officers to be nominated by Circle SE's / SE (I&S) for testing at CTL.

iv) One drum out of each lot / sub-lot of 25 Nos. drums or part thereof for HT XLPE Insulated ACSR Rabbit Conductor received in Nigam Stores. **The selected sample drum / drums shall be transported to CTL by concerned ACOS / SS.**

v) **TESTS:**

The following tests shall be carried out on each selected drum by drawing sample of 10 Mtrs. at CTL from random distance from any length of the selected drum of Insulated ACSR Conductor during rewinding the sample drum :

- a) Rewinding Test (Measurement of Length) & checking of Manufacturing Defects.
- b) Measurement of lay ratio of Bare Conductor during rewinding of Conductor Drum.
- c) Measurement of dia of Aluminum & Steel Strands.
- d) Breaking Load as per IS:398(Pt.2)/1996.
- e) Galvanizing of Steel Wire Test (Uniformity) and Mass of Zinc Coating.
- f) Measurement of Resistance of Conductor as per IS 398 Part-2/ 1996 amended up to date.
- g) Tensile and Elongation test for insulation and Sheath as per IS-7098(Pt-2)/1985 amended up to date.
- h) Thickness of Insulation and Sheath as per IS-7098(Pt-2)/1985 amended up to date.
- i) Hot Set (for XLPE Insulation) as per IS-7098(Pt-2)/1985 amended up to date.
- j) Verification of marking.

NOTE: In addition to above tests remaining acceptance tests as per relevant IS shall also be conducted at CTL provided the testing facility is available at CTL for these tests time to time. Only those tests shall be conducted for which testing facilities are available in NIGAM's Lab.

(a) The Officer In charge of central Testing Lab (CTL) of Nigam shall send copies of test reports to the Purchasing Officer / Sr. AO (CPC), consignee and the supplier.

(b) The payment of every lot shall be released after receipt of successful test report from Nigam's Lab (CTL) on the samples selected from the material received in Nigam stores.

vi) **CRITERIA FOR ACCEPTANCE:**

a) Rewinding Test (Measurement of Length):

The results of measurement of length test shall be made applicable to all drums contained in each lot/sub-lot by making deduction of less length of conductor in a sample drum.

b) If the sample(s) fails in any above tests, the material shall be rejected and shall have to be replaced by the supplier.

c) All test charges incurred towards test checking of the material received in stores shall be borne by the Nigam.

d) If the contractor / supplier fails to lift the material declared rejected or any part thereof from the consignee within a period of 15 days from the date of dispatch of information from the purchaser, the purchaser shall be entitled to effect recovery along with other actions as per Clause No. 1.62 of Section-II (General Condition of Contract).

11. **PRICES :**

a) The bidder shall quote the Prices in **Schedule-IV** strictly in the manner prescribed in Clause No. 1.09 of Section-I (Instruction to Bidders) & Clause No. 1.33 of Section-II (General Conditions of Contract).

b) The **prices** quoted shall be **variable as per PV formula** given in the specification at **Clause No.11** without any ceiling with **Base Date as 1.3.2011**. The Price Variation shall be governed by Clause No. 1.10 of Section-I (Instruction to Bidder).

12. **PRICE VARIATION FORMULA:**

The price of XLPE Insulated ACSR RABBIT conductor shall be variable without any ceiling, based on the average prices of ex-prime producer of EC grade Aluminum rod and High Tensile Galvanized steel wire prevailing on **1.3.2011**, as per CACMAI Circular. The average price of the EC grade Aluminum wire rod and price of High Tensile Galvanized steel wire shall be furnished along with the bid.

No Price Variation shall be allowed on XLPE Insulation and PVC Sheath.

No base price other than the prices prevailing on 1.3.2011 as per CACMAI Circular will be acceptable in any case.

No variation shall be allowed on labour, packing, forwarding, freight and insurance charges.

The duties / taxes shall not be allowed on basic price of Aluminum Rods and Steel Wire while evaluating the price variation.

Any statutory variation on ED and CST / VAT on the finished conductor shall be payable according to Clause No.1.09.15 of Section-I “ Instructions to Bidders”.

The Price Variation amount shall be determined as under:

- A. For every one Rupee, increase / decrease per Kg. in the above price of EC grade Aluminum wire Rod, the price per Km. for ACSR Rabbit Conductor shall be increase / decrease by @ Rs.145.00.
- B. For every one rupee, increase / decrease per Kg. in the above price of high tensile galvanized steel wire the price per Km. of ACSR Rabbit Conductor shall be increase / decrease by Rs.69.00.
The above price variation bears no ceiling limit.

The applicable price for claiming price variation on account of change in the price of EC grade Aluminum Wire rod and High Tensile Galvanized Steel wire shall be the price prevailing on the delivery date which shall be considered as per Clause No.1.10 of Section-I “ Instructions to Bidders”

The quoted price should be based on the above price variation clause only.

In case there is any decrease in the base price of Aluminum and Steel, supplier shall give an undertaking in the shape of Indemnity Bond on Non Judicial Stamp Paper of Rajasthan State Government Worth Rs.100/- that such decrease will be immediately accounted for and brought to the notice of the purchaser to revise price accordingly. In case of failure to do so, the purchaser shall be at liberty to recover the excess amount drawn by you from any pending payments due or by operating the Bank Guarantee(s) or in the manner as may be deemed appropriate and expedient.

However, if any amount of Excise duty / Sales tax / VAT is claimed from the Nigam and subsequently got refunded back to the supplier from the Government of India / State Government the same shall be refunded to the purchaser within 15 days. Failing which purchase shall be at liberty to recover the excess amount drawn by supplier from any pending payment due or by operating Bank Guarantee(s) or in the manner deemed to be appropriate and expedient.

13. **PACKING AND MARKING:**

The HT XLPE Insulated PVC Sheathed ACSR RABBIT Conductor shall be wound on a non returnable wooden drum conforming to IS: 10418/1982 of suitable size.

The conductor drums shall carry the following information either stenciled or painted.

- i) Manufacturer's name, Brand or trade mark.
- ii) Type of Insulated Conductor and voltage grade.
- iii) Nominal cross-sectional area of the Insulated Conductor.
- iv) Length of Insulated Conductor on the drum
- v) Number of lengths on the drum (if more than one).

- vi) Direction of rotation of drum (by means of an arrow).
- vii) Gross mass.
- viii) Year of manufacture.
- ix) Purchase order / tender No. and
- x) Name of Consignee.

14. **GUARANTEED TECHNICAL PARTICULARS:**

The bidder shall furnish guaranteed technical particulars in the Performa of GTP enclosed at Schedule – VA & VB. Any departure from the GTP be indicated in Schedule-V.

15. **MANUFACTURER:**

The bidder should be a manufacturer of ACSR Rabbit Conductor and XLPE Insulated Aerial Bunched / Power Cables size 50 Sq.mm and above . The inspection / Testing shall be carried out at manufacturer works.

16. **IDENTIFICATION:**

i) **The manufacturer shall be identified throughout the length of HT XLPE Insulated PVC Sheathed ACSR Rabbit Conductor by providing legible Embossing as under:**

ii) **EMBOSSING**

The HT XLPE Insulated PVC Sheath ACSR Rabbit Conductor shall also be required to be embossed with the word **Manufacturer's Name or Trade Mark, Electric, Voltage Grade, JAIPUR DISCOM / TN4348, Size of Conductor & year of manufacture at every meter length for which no extra charges shall be paid.**

iii) **MARKING**

The progressive length of HT XLPE Insulated PVC Sheathed ACSR Rabbit Conductor in meter shall be marked on every meter length of HT XLPE Insulated PVC Sheathed ACSR Rabbit Conductor.

17. **QUANTITY TOLERANCE:**

The ordered quantity of the Insulated Conductor can be supplied with quantity tolerance of (+/-) 2%.

18. **QUANTITY:**

- a) The quantities as mentioned in the schedule of requirement are tentative & these may increase/decrease as per the requirement of the Nigam (**Schedule-I**).
- b) Details of offered quantity along with justification with reference to Qualifying Requirement shall be furnished in **Schedule-IVA**

19. DETAILS OF PAST EXPERIENCES:

The details of past orders executed by the bidder may be indicated in the relevant **Schedule- VII & VII A** . The bidder must furnish the documentary evidence like copy of purchase order placed for detailing of past supplies.

20. DELIVERY:

The bidder is required to quote monthly delivery in Schedule-VIII. The delivery of quoted quantity of conductor should be **commenced after 30 days from the date of receipt of purchase order and shall be completed in 6 (Six) months thereafter at equal monthly installments**. In case of ordered quantity is different than the quoted quantity, then monthly delivery shall be adjusted proportionately. **Bids of bidders in which monthly delivery schedule is not quoted shall be considered as Non Responsive.**

21. CHALLENGE TESTING CLAUSE:

The other manufacturer can also request challenge testing for any test based on specification. The challenger would request for testing with testing fee. The challenge test fees are proposed at least three times cost of testing. This is likely to deter unnecessary challenges. The challenger would have the opportunity to select the sample from the store and any such challenge should be made within the guarantee period. The party challenged, the challenger & the utility could witness the challenge testing. The challenged testing would cover all the type tests as per relevant IS.

The challenge test could be conducted at NABL Accredited Laboratory like ERDA, CPRI, Bangalore / Muradnagar / Bhopal. If the values are within limit the product gets confirmed else not confirmed. If the product is not confirmed the manufacturer would pay the challenge fee and challenger would get the fee refunded. However, as a redressal system the challenger would be asked for fresh selection of two more samples from the stores and the same be tested in a NABL Laboratory (which shall be other than previously selected NABL Accredited Lab) at the cost of supplier in presence of party challenged, challenger and the utility. If any one or both samples does not confirmed the tests then the product is said to have failed the tests. In such cases, the manufacturer will be declared as unsuccessful manufacturer for the said product and balance supply shall not be availed and the order shall be cancelled with levy of maximum penalty.