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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 can be downloaded from website of Jodhpur Discom www.jdvvn.com, <http://eproc.rajasthan.gov.in> & www.sppp.rajasthan.gov.in can be uploaded on the website <http://eproc.rajasthan.gov.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 (MM&C), Jodhpur Discom, Jodhpur then the copy available with Superintending Engineer (MM&C), Jodhpur Discom, Jodhpur will be considered as final document for all purposes. The scheduled date and time to deposit the cost of Bid document, EMD or Valid Vendor Registration Certificate (if applicable) and furnishing of tender processing fee, be as stated/mentioned in published Notice Inviting Tender/tender document.



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TENDER SPECIFICATION NO. JdVVNL/SE(MM&C)/EIIAII/TN-1297

Short-term Tenders are hereby invited in e-tender system for purchase of **LT XLPE INSULATED ACSR RABBIT CONDUCTOR SUITABLE FOR WORKING VOLTAGE UPTO AND INCLUDING 1100 VOLTS.**

Tenders are to be submitted online in electronic format on website <http://eproc.rajasthan.gov.in>.

The details are as under-

S. No.	ITEM	Quantity (Approx.)
1	LT XLPE Insulated ACSR Rabbit Conductor	2,157 Kms

A	NIT No.	TN-1297
B	Cost of tender specifications	Rs. 2500.00 (Two Thousand Five Hundred Only)
C	Processing fee of RISL	Rs. 1000.00 (One Thousand Only)
D	Earnest money	Rs. 2.00 Lacs /Exemption Certificate / Vendor Registration of Class A
E	Validity	120 days from the next date of opening of techno-commercial bid.
F	Base date for price variation	1st day of month prior to the date of opening of technical bid.

IMPORTANT DATES

S.N.	Events	Date & Time	Location
1	Date of downloading of tender specifications	Up to 01.02.2017 (06:00 PM)	www.jdvvn.com http://eproc.rajasthan.gov.in & www.sppp.rajasthan.gov.in
2	Deposit of cost of Tender Specifications & Earnest Money and furnishing of Processing fee	Up to 01.02.2017 (4:00 PM)	Office of Sr. A.O. (Cash & CPC) / SE (MM&C), JdVVNL , New Power House, Industrial Area, Jodhpur
3	Last Date & time of submission of electronic bid	Up to 02.02.2017 (12:00 PM)	http://eproc.rajasthan.gov.in
4	Opening of Technical Bid	02.02.2017 (03:00 PM)	http://eproc.rajasthan.gov.in
5.	Opening of Price Bid	To be intimated separately to the qualified bidders	http://eproc.rajasthan.gov.in

SECTION – III**TECHNICAL SPECIFICATION & SCHEDULE OF REQUIREMENT FOR LT XLPE INSULATED ACSR RABBIT CONDUCTOR SUITABLE FOR WORKING VOLTAGE UPTO AND INCLUDING 1100 VOLTS AGAINST TN-1297**

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 suitable for working voltage upto and including 1100 Volts. The ACSR Rabbit Conductor shall be conforming to IS:398(Pt.2)/1996 with latest amendment and the insulation (XLPE) conforming to requirement given in Table-1 of IS:14255/1995 with latest amendments. However, the insulation (XLPE) shall be U.V. Resistant which shall be ensured by adding 2.5 +/- 0.5% Carbon Black in XLPE in well dispersed manner.

The requirement of XLPE Insulated 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 XLPE Insulated 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 Aerial Bunched (As per IS:14255/1995) / Power Cable (As per IS:7098(Pt.1)/1988 with latest amendment. The technical bid of the bidder shall be considered for opening in the absence of non-furnishing of above required ISI License along with the bid. However, Price bid of the responsive bidder shall only be opened if bidder furnishes above valid BIS Liscence up to the official working hours of one working day prior to the schedule / notified date of opening of price bid, along with undertaking on NJS of Rs. 100.00 duly notorised that BIS License so furnished is valid till date and same has not been withdrawn/cancelled by Bureau of Indian Standard, failing which price bid of the bidder shall not be opened.. Similar undertaking of validity of BIS License be also furnished by the bidder who furnishes BIS License along with Technical Bid. The firms having ISO: 9001 will be preferred.

2. STANDARDS:

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

- | | | | |
|------|--------------------|---|--|
| i) | IS:398 (Pt.2)/1996 | : | Specification for Aluminium Conductor for over-head transmission line. |
| ii) | IS:14255/1995 | : | Aerial Bunched Cable for working voltage upto & including 1100 V. |
| iii) | IS:10810 | : | Methods of test for cables. |
| iv) | IS:10418 | : | Drums for Electric Cables |

- v) CENELAC HD 626 : Over head distribution cables of
S1 A1/A2 2002 rated voltage $U_0 / U(U_m) : 0.6/1$
(1.2) KV.

NOTE: The specification has mostly considered references from Indian Standard. However, reference have also been derived from the above referred International Standard in meeting the onerous site requirement of Jodhpur Discom.

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 M |

4 GENERAL REQUIREMENT OF LT XLPE INSULATED 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 wire 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 wire 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:14255/1955 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 1.5 mm. as per Clause No.7.2 of IS: 14255/1995 and the smallest of measured value of thickness of insulation shall be as per Clause No.7.3 of IS:14255/1995. The Colour of the insulation (XLPE) shall be Black with UV Resistance for which Carbon Contents 2.5 +/- 0.5% shall be added to XLPE in well dispersed manner.**

5. TEST AND TEST CERTIFICATES:

5.1 The insulated conductor shall be conformed to requirement of latest edition of IS:398 (Part.2)/1996, for ACSR Rabbit Conductor. The XLPE Insulation shall conform the requirement of IS:14255/1995 with all subsequent amendments issued from time to time.

5.2 The material offered (XLPE Insulation with Carbon Contents 2.5 +/- 0.5% in well dispersed manner) shall be fully type tested as per relevant standard of specification of IS:398(Pt.II)/1996 for ACSR Rabbit Conductor and XLPE Insulation conforming to requirement of IS:14255/1995 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-14255/1995 amended up to date.

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

- i) Measurement of diameter for individual Aluminium & 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 (IS-14255/1995) AMENDED UPTO DATE:

- I) Test for thickness of Insulation.
- II) Physical tests for insulation:
 - a) Tensile Strength & elongation at Break.
 - b) Ageing in air oven.
 - c) Hot Set Test.
 - d) Shrinkage test.
 - e) Water absorption (gravimetric)

- f) **Carbon Black :**
 - i) **Content - 2.5 +/- 0.5%**
 - ii) **Dispersion – Well dispersion.**

III) Insulation resistance (volume resistivity test)

- IV) High Voltage Test on core immersed in water (duration of immersion > 1 Hour) and apply test voltage 3.5KV AC for 5 Minutes (Test Method as per CENELAC HD 626 S1/A1/A2 2002)...**

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:14255/1995 for XLPE Insulation suitable for working voltage upto & including 1100 Volts and as per Clause No.14.2 of IS:398 (Part.2)/1996 for ACSR Conductor 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 Annexure-A (Clause No.10.2.1) of IS-14255/1995 for finished Insulated ACSR Conductor suitable for working voltage upto & including 1100 Volts:

A) FOR XLPE INSULATION:

- a) **Test for thickness of Insulation.**
- b) **Tensile Strength & elongation at Break Test for Insulation.**
- c) **Hot Set for Insulation.**
- d) **Insulation Resistance Test.**
- e) **High Voltage Test.**
- f) **Carbon Black :**
 - i) **Content - 2.5 +/- 0.5%**
 - ii) **Dispersion – Well dispersion.**

B) FOR ACSR RABBIT CONDUCTOR:

- i) **Measurement of dia. of individual Aluminium & 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 for ACSR RABBIT Conductor and as per IS:14255/1995 for XLPE Insulation 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 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.**

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 **JdVVNL** and such Type Test reports are valid i.e. not older than 5 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 bidder do not meet the above requirement then One sample of 15 Mtr. Length from the 1st Lot of Insulated 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 at 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, Jodhpur 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, Jodhpur 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.**

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

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

6.6 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).”

6.7 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 independent test laboratory / house having valid accreditation from National Accreditation Board for Testing and Calibrating Laboratories for the testing equipments / 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 STANDARD LENGTH:

7.1 The standard length of the insulated 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.

7.2 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.

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

8.0 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 / despatch 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 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.

9.0 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 firms 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 firms works and these sealing details shall be invariably mentioned in the 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 for testing at CTL.

iv) One drum out of each lot / sub-lot of 25 Nos. drums or part thereof for LT XLPE Insulated ACSR Rabbit Conductor received in Nigam Stores shall be selected for CTL testing. **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 Aluminium & 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 as per IS-14255/1995 amended up to date.
- h) Thickness of Insulation as per IS-14255/1995 amended up to date.
- i) Hot Set Test (for XLPE Insulation) as per IS-14255/1995 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 (Cash & 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).

10. 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 **1st day of one month prior to the date of opening of technical bid**. The Price Variation shall be governed by Clause No. 1.10 of Section-I (Instruction to Bidder).

11. 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 Aluminium rod and High Tensile Galvanized Steel Wire prevailing on **1st day of one month prior to the date of opening of technical bid**,, as per CACMAI Circular. The average price of the EC grade Aluminium 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.

No base price other than the prices prevailing on 1st day of one month prior to the date of opening of technical bid, 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 Aluminium 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 Aluminium wire Rod, the price per Km. for ACSR Rabbit Conductor shall be increase / decrease by @ Rs.145.00.

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 Aluminium 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 Aluminium 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 JdVVNL 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 purchaser 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.

12. PACKING AND MARKING:

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

The cable 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.

13. GUARANTEED TECHNICAL PARTICULARS:

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

14. MANUFACTURER:

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

15. IDENTIFICATION:

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

ii) EMBOSSING

The XLPE Insulated ACSR Rabbit Conductor shall also be required to be embossed with the word **Manufacturer's Name or Trade Mark, Electric, Voltage Grade, Jodhpur DISCOM or JdVVNL / TN-1297 Size of Conductor, XLPE 90 & year of manufacture at every meter length for which no extra charges shall be paid.**

iii) MARKING

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

16. QUANTITY TOLERANCE:

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

17. 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 alongwith justification with reference to Qualifying Requirement shall be furnished in **Schedule-IVA**.

18.0 DETAILS OF PAST EXPERIENCES:

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

19. 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 five 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.**

20 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 un-necessary 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.

SCHEDULE - 1**SCHEDULE OF REQUIREMENT**

S.No.	Name of Item	Quantity (Kms.)
1	LT XLPE Insulated ACSR RABBIT Conductor suitable for working voltage up to & including 1100 Volts	2,157 Kms.

The above mentioned quantity is approximate and may increase or decrease as per the requirement of the Nigam.

Schedule – II**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 Aluminium rod and High Tensile Galvanized steel wire prevailing on **1st day of one month prior to the date of opening of technical bid**, as per CACMAI Circular. The average price of the EC grade Aluminium 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.

No base price other than the prices prevailing on 1st day of one month prior to the date of opening of technical bid, 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 Aluminium 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 Aluminium wire Rod, the price per Km. for ACSR Rabbit Conductor shall be increase / decrease by @ Rs.145.00.

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 Aluminium 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 Aluminium 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 JdVVNL 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.

Schedule – III**JODHPUR VIDYUT VITRAN NIGAM LIMITED****A Govt. of Rajasthan Undertaking
Prescribed technical specification for supply of**

(Name of Material/Equipment/Machinery/T&P etc.)

S. No.	Technical specification material/equipment/Machinery/T&P shall confirm	Name of IS/other standard specification to which material should confirm	Other particulars to which if any.
--------	--	--	------------------------------------

Certified that we agree to all the aforesaid technical specification except at S. No..... for which our technical specification shall be as under:-

S. No.	Technical specification which material/equipment/Machinery/T&P shall confirm	Name of IS/other standard specification to which material should confirm	Other particulars to if any.
--------	--	--	------------------------------

(Signature)Name & Designation
with seal of the bidder.

SCHEDULE-III**PRE-QUALIFICATION REQUIREMENT (PQR) FOR PURCHASE OF LT XLPE INSULATED ACSR RABBIT CONDUCTOR AS PER SPECIFICATION NO. JD / SE / MM&C / XENIIAII / TN-1297.**

The bidder should fulfill following qualifying requirements for successful participation in the bid along with relevant documentary evidence supporting the each qualifying requirement without which the offer shall be considered non-responsive & rejected.

1) STATUS OF BIDDER:

- a) The bidder should be a manufacturer. The offers from sole selling agents / authorized dealers shall not be entertained.
- b) Old / New suppliers : Any bidder located within or outside the state of Rajasthan has albeit participated for the 1st time in a particular discom and meeting minimum qualification requirement (Whether Rajasthan Or Outside Rajasthan) has supplied the tendered material / higher rating in other utility shall be treated as an old supplier. Rajasthan based firms not meeting minimum quantity supplied criteria but having manufacturing and adequate testing facility and technical know how shall be considered as new firms and would be eligible for trial order only.

2) PAST SUPPLY AND PERFORMANCE CRITERIA :

The bidder shall meet both past supply and performance criteria as detailed below for opening of bids:

2.01) PAST SUPPLY :

2.01.1) The bidder is required to quote for minimum 10% of tendered quantity, failing which the offer may be considered as Non-Responsive.

2.01.2) The bidder should have designed manufactured / fabricated, tested and supplied to utility / Discoms / Govt. Departments at least 2xQQ (QQ being the quoted quantity in Kms.) of similar item / higher rating of tendered material / equipment (ACSR Rabbit Conductor / XLPE Insulated Aerial Bunched / Power Cable of size 50 Sq.mm. & above / Insulated ACSR Rabbit Conductor) in last three financial years from the date of opening of technical – commercial bid.

NOTE:- Requirement of quantity manufactured, minimum quantity to be offered and amount of bank guarantee to be furnished in absence of test certificate shall be reduced to 25% for Rajasthan based units.

2.01.3) In support of fulfillment of the past supply criteria, the bidder shall furnish documentary evidence in the form of certificate from Chartered Accountant in the prescribed proforma (Schedule-VIIA) only. This

prescribed proforma should be either in original or copy duly attested by Notary. The bidder shall also sign and affix seal on the prescribed format C.A. Certificate. The certificate should have Membership Number with the name and address of the Chartered Accountant. Certificate should clearly indicate the quantity supplied, period of supply, voltage class / accuracy class of material etc. in the format prescribed. Any deviation to the format or information diverted format will not be considered and rejected.

2.02. PERFORMANCE CRITERIA:

- i) If a bidder has supplied up to 50% of ordered quantity in previous bid up to date of opening of subsequent bid and scheduled delivery period expired, the bid of such bidder will not be opened in the Discom for that item.
- ii) However, if the supplies have been completed for a quantity more than 50% but not completed up to date of opening of subsequent bid and scheduled delivery period expired, then quantity equal to the quantity pending in previous bid for that item shall be reduced from the subsequent bid quantity to be allocated to the bidder.
- iii) If a bidder does not fulfill G.P. failed contractual obligations in previous bids then quantity equal to G.P. failed quantity pending for repair / replacement shall be reduced from the subsequent new bid quantity for fresh item to be allocated to the bidder. This action will be in addition to the penal provisions applicable in respective bids where supply is incomplete.

3.0 TYPE TEST CRITERIA :

- 3.01) The bidder shall furnish valid and authenticated type test certificate from a Govt. approved / Govt. Recognized / NABL Accrediated laboratory / ILAC i.e. International laboratory Accrediation Corporation (In case of foreign laboratory) / of **similar rating and design** (with Carbon Contents 2.5 +/- 0.5 % in XLPE in well dispersed manner) of tendered material / equipment. Such type test certificate should not be older than five years as on the date of bid opening. For this purpose date of conducting type test will be considered.

The type test certificate by in house laboratory of bidding firms even if it is Govt. approved / Govt. recognized / NABL Accrediated laboratory / ILAC accredited , shall not be accepted, in case of their own bid. This will not apply if bidding firm is Govt. company / public sector undertaking.

- 3.02) The bidder should furnish documentary evidence in support of laboratory whose type test have been furnished, that the said laboratory is a Govt./ Govt. approved / Govt. recognized / NABL Accrediated laboratory / ILAC accredited (In case of foreign laboratory).
- 3.03) The type test certificate shall be furnished either in original or copy duly attested by Notary.

- 3.04) The bids of only those bidders shall be considered to be meeting the type test criteria who furnishes complete type test certificate with the bid as per above provisions.
- 3.05) However, in the following cases the bid of the bidder may be considered meeting the type test criteria if the bidder furnishes an undertaking stating that valid type test certificate from a Govt. / Govt. approved / Govt. recognized NABL Accredited laboratory / ILAC Accredited laboratory shall be furnished from first lot received in Nigam store (without asking any delivery extension) along with bank guarantee with the technical bid from a Nationalized / Scheduled Bank in prescribed proforma at **Schedule-III B** or DD / Pay Order amounting to Rs.5,00,000/- (For outside Rajasthan Based firm) / Rs.1,25,000/- (For Rajasthan Based firm). The initial validity of bank guarantee shall be nine months with claim period of three months in addition.
- (i) A Rajasthan based firm is participating for the first time.
 - (ii) Where one or more type test(s) is / are older than 5 years.
 - (iii) Where new type tests have been added in the specification.
 - (iv) Where some changes in respect of type test procedure of existing type tests have been introduced in the relevant standard.
 - (v) Where a new item is being purchased by Nigam for the first time.

4.0) **POOR RECORD OF PERFORMANCE AND DELIVERY :**

The bidders who have been black listed in any of state Discom or with whom business relations have been severed **Jodhpur Discom shall not be considered**. Severement of business relations will be done in case of following circumstances for the period and with the recovery mentioned against each.

i) When vendor does not accept order awarded on its accepted price and terms and conditions and does not comply with contractual formalities.	Forfeiture of EMD/cancellation of vendor registration to recover amount of EMD alongwith severment of business relations for three years from the date of issue of order.
ii) When vendor complies with contractual formalities but does not commence supplies.	Levy of maximum recovery on account of delay in delivery alongwith severment of relations for a period of 2 years from the date of issue of order or in next two bids whichever is later alongwith forfeiture of EMD / cancellation of vendor registration.

4.1 **Black Listing:**

After having given Show Cause Notice of 30 days, and having established & cogent reasons for blacklisting of the firm as given below, the firm should immediately be blacklisted for a period of 5 years indicating reasons of doing so, in the letter itself, and a copy of such blacklisting should be given to the firm, with the approval of CLPC:-

- (i) There are sufficient and strong reasons to believe that the supplier or his employee has been guilty of malpractices such as manhandling/misbehavior with Government official by supplier or his partner/employee, bribery, corruption or abatement of such a offence in a position where he could corrupt Nigam's official, fraud, vitiating fair tender process

including substitution of or interpolation in tender, mis-representation, pilfer-aging or unauthorized use or disposal of Nigam's material issued for specific work etc.

- (ii) Where a supplier or his partner or his representative has been convicted by a court of Law for offences involving moral turpitude in relation to the business dealings or where security considerations including suspected disloyalty to the Nigam/state so warrant the blacklisting.
- (iii) If the state Bureau of investigation or any other authorized investigating agency recommends for blacklisting after completing the investigation.
- (iv) If a registered supplier being non-tendered for supply but still submits applications giving his offer after receipt / opening of bids received after due process.

Note:1 If a supplier after having tendered for a work / supply or after negotiations acceptance of order gives application voluntarily vitiating the fair tendering process, it shall also tantamount to malpractice.

Note:2 A register containing the reasons for blacklisting the supplier as also the names of all the partner of the suppliers and the allied concerns coming within the effective influence of the blacklisted supplier will be maintained.

Note:3 A register of black listed supplier will be maintained which will not only include suppliers enlisted with the Enlisting Authority but also black listed suppliers in Nigam.

Note:4 A Black listed supplier (i) shall not be entitled for registration in any of the Discom (ii) shall not be awarded any supply order in future in any Discom during the notified period.(iii) his registration if any shall stand cancelled immediately and his registration security /EMD/S.D. shall stand forfeited. (iv) In case of blacklisting of the firm by any one of Discom for the cogent prescribed reason(s) as stipulated above, the same shall be applicable to all the three Discoms and as a consequence of blacklisting, all the pending orders to that firm, will be cancelled in all three (3) Discoms with immediate effect. However in respect of completed/executed contract G.P. obligations as well as other liabilities shall be fulfilled by the supplier.

4.2 Severment of Business relation:

- (a) After having given Show Cause Notice of 30 days, and having established & cogent reasons for Severment of business relation as given below, the firm should immediately be severed the business relations for a period of 2 to 3 years indicating reasons of doing so, in the letter itself, and a copy of such severment should be given to the firm, with the approval of CLPC:-
 - (i) The supplier continuously refuses to pay Nigam dues without showing adequate reasons and where the purchasing authority is satisfied that no reasonable dispute attracting reference to Settlement Committee or Court of Law exists for the supplier's action of non-supply.
 - (ii) When vendor does not accept LOI/detailed purchase order awarded on its accepted prices and terms & conditions or does not comply with the contractual formalities.

- (iii) When vendor/supplier who otherwise completed contractual formalities but does not commence supplies on the date of opening of technical bid of the fresh tender/completion of schedule delivery period whichever is later.

Note.1 In case supplier does not deposit outstanding dues towards Nigam, even after completion of severment period, the period of severment will continue.

Note.2 Severment done purely/ mainly on account of non-deposition of dues against the supplier/vendor/contractor could be lifted by CLPC, if the dues are deposited prior to the expiry of such severment period.

Note 3 Severment done by one Discom for non-supply of material and /or corresponding non-recovery of dues will not be effective in other Discoms except in respect of common purchase cases of three Discom.

Note 4 On severment of business, the EMD/SD/vendor registration security will be forfeited.

Note 5 The orders in execution satisfactorily will not be cancelled other than the order on which severment have been done.

4.3 Debarment

Reasons on which Debarment can be made:-

- (i) The competent authority may debar the supplier on account of his performance or other disabilities, if it is no longer considered fit to remain under vendor registration as per his obligation under vendor registration.
- (ii) If at any subsequent stage of inspection of firms after award of contract, it is found that firm does not have sufficient tech. staff or required/necessary technical equipments, the purchasing authority can debar the firm for one year or next tenders whichever is later. The debarment will be lifted only on re-inspection of firm's works; the defects noticed earlier are fully rectified to the satisfaction of Nigam.
- (iii) When contract agreement executed and supplies commenced but could supply only up to 50% of ordered quantity and scheduled delivery period expired, then the firm can be debarred for one year or next tender whichever is later in that Discom only for that particular item/rating/ capacity/size etc.
- (iv) The suppliers who have been awarded contract for supply of material is not adhering to the periodic delivery schedule, the contract awarding authority reserve the right to terminate the contract and may debar the firm in participating in tender for a period of 2 to 3 years.

Note.1. On debarment, the EMD/ SD/Vendor Registration security shall be forfeited.

Note.2 If the firm is debarred in one Discom for any reasons then the same should not be applicable in other Discom subject to exception that in case of common Discoms purchases such debarment of a firm would be applicable to all three Discoms for that particular item and rating/capacity/size etc.

5.0 APPEALS AND APPLICATIONS :

Appeal against the order of blacklisting, severment and debarment can be filed before BOD within a period of 3 months from the date of intimation. The letter of appeal

will be addressed to the order placing authority. Who will process the case for placing the matter in B.O.D. with in a period 60 days. The BOD may reduce or waive the penalty, if sufficient reasons/supporting documents are furnished by the supplier.

GENERAL CONDITIONS : - (ALL CONDITIONS BE DULY SIGNED & SEALED)

- I) The bidder shall clearly indicate the deviations such as `Technical Deviation & Commercial Deviations' in the prescribed proforma only. The deviations indicated elsewhere in the bid shall not be accepted.**
- II) The bidder must clearly fill up each and every particular of guaranteed technical particulars annexed with Technical Specifications otherwise he will be responsible for Technical Non-responsiveness.**
- III) All documents required in the prescribed format are to be furnished along with the bid itself only except an attested copy of BIS license (wherever it is required), failing which the bid will be summarily rejected.**
- IV) However, a copy of BIS License may be submitted by the bidder upto the official working hours of one working day prior to the schedule / notified date of opening of price bid alongwith undertaking.**

SCHEDULE-III-B

BANK GUARANTEE IN LIEU OF FURNISHING OF TYPE TEST CERTIFICATE

(On Rajasthan Non-Judicial Stamp Paper worth Rs. @ 0.25% of BG amount or Rs. 25,000/-, whichever is less.)

To,

The Superintending Engineer (MM&C),
Jodhpur Vidyut Vitran Nigam Limited,
New Power House ,
Jodhpur.

Dear Sir,

Whereas Jodhpur Vidyut Vitran Nigam Limited, Jodhpur (hereinafter called the purchaser) has issued a bid enquiry under TN-_____ for procurement of (Name of material) .

Whereas M/s (hereinafter called the bidder) has furnished a bid for supply of to The Superintending Engineer (MM&C), Jodhpur Vidyut Vitran Nigam Limited, Jodhpur or his Nominated officer (s) .

Whereas in accordance with the provision of the specification of the afore said TN..... , the bidder can deposit a bank guarantee in lieu of the requirement of furnishing the type test certificates.

Whereas M/s (the bidder) have requested us (Name of the Bank) to furnish the bank guarantee in lieu of the type test certificate for an amount equivalent to Rs..... (in words also) only.

Under this Bank Guarantee, we (Name of the Bank) hereby undertake unconditionally and irrevocably to guarantee as primary obligator and not as Surety merely, the payment to the purchaser on his first demand without whatsoever right of objection on our part and without his first claim to the bidder in the amount not exceeding (amount of guarantee in figures and words).

Payment pursuant to this undertaking will be demanded by the purchaser from the Bank and will be met by the Bank without question in the case in which the bidder , on receipt of the order and / or after the acceptance of this bid, makes default in furnishing the required type test certificates. Also whether the occasion or ground has arisen for such demand the decision of The Superintending Engineer (MM&C), Jodhpur Vidyut Vitran Nigam Limited, Jodhpur, shall be final.

The liability of the Bank shall not at any time exceed Rs.....
(Rupees.....).

The undertaking will be determined on but will not withstanding such determination, continue to be in force till the expiry of 3 months from that date.

No indulgence or grant of time by the purchaser to the bidder without the acknowledgement of the Bank will discharge the liabilities of the Bank under this guarantee.

The guarantee herein contained shall not be affected by any change in the constitution of the bidder.

All disputes arising under the said guarantee between the Bank and the bidder or between the bidder and the purchaser pertaining to the guarantee shall be subject to the jurisdiction of Courts only at JODHPUR in Rajasthan.

The bank further undertake not to revoke this guarantee during its currency except with the previous consent of The Superintending Engineer (MM&C), Jodhpur Vidyut Vitran Nigam Limited, Jodhpur.

Notwithstanding anything contained herein before, the Bank's liability under this guarantee i.e restricted to Rs..... (Rupees) and the guarantee shall remain in force upto Unless demand or claim in writing is presented on the Bank within three months from that date, the bank shall be released and discharged from all liabilities there under. However, the validity of the bank guarantee shall be extended as and when required by the purchaser.

IN WITNESS WHEREOF the bank has executed these presents the day month..... and year.....

Yours faithfully,

(Bankers)
Executants

Schedule-IV A**ITEM - XLPE Insulated ACSR Rabbit CONDUCTOR****Must be filled in by the bidder and attached with Technical Bid**

To,

The Superintending Engineer (MM&C),
Jodhpur Vidyut Vitran Nigam Limited,
New Power House ,
Jodhpur.

Dear Sir,

With reference to your invitation to bid against specification No.JD/SE/MM&C/XENIIAII/ TN- 1297, we agree to supply the following quantity:

S.No.	Particulars of Items	Bid Quantity (KMS.)	Qty. Offered (KMS.)	Justification of quantity offered as per Qualifying Requirement
1.	2.	3.	4.	5.
	LT XLPE Insulated ACSR Rabbit CONDUCTOR	2,157 Kms.		

1. The offer is valid for a period of 120 days from the next date of opening of Techno-Commercial Bid.
2. The prices are variable in all respect as per **Section-III** (Technical – specification).
3. It is noted that the quantity as mentioned in the specification are approximate and we agree to supply any quantity as per your requirement.
4. The delivery shall strictly be in accordance with our delivery schedule as given in Schedule – VIII of this specification. In case we fail to deliver the materials as indicated in the clause No.1.23 of GCC (Schedule-II), we are liable to pay recovery for delay in delivery as per clause No.1.24 of this Schedule-II of this specification. The material shall conform to your specification No. **JD/SE/MM&C/XENIIAII/ TN-1297** and as per relevant ISS in all respect.
5. We confirm that we agree to all the terms & conditions as well as the technical stipulation of your specification No. **JD/SE/MM&C/XENIIAII/ TN- 1297** and there are no deviations other than as specified in the Schedule-VI (A & B).

Yours faithfully,

Signature of bidder with stamp & Date

Schedule – V

JODHPUR VIDYUT VITRAN NIGAM LIMITED

A Govt. of Rajasthan Undertaking

Statement of guaranteed technical particulars and other performance data for supply of
..... (Name of material) against specification
no.....

S. No. Particulars of technical & other performance data guaranteed.

Certified that we agree to all the aforesaid technical particulars and other performance data
except following:-

S.No.	Particulars of technical & other Performance data	Reasons for deviations/departure.
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(Signature)
Name & Designation
with seal of the bidder.

SCHEDULE – VA**GUARANTEED TECHNICAL AND OTHER PARTICULARS OF LT XLPE
INSULATED ACSR RABBIT CONDUCTOR AGAINST TN--1297**

(A)	FOR ACSR RABBIT CONDUCTOR	
1.	Manufacturer's name	
	Office address	
	Works address	
	Telephonic address	
	Telephone	
	Fax	
	Telex	
2.	Standard according to which the conductor will be manufactured & tested	As per IS:398/1996 (Part.II) with latest amendments
3.	Whether conductor offered bears BIS Standard Mark. If Yes, furnish copy of registration certificate of Bureau of Indian Standards	
4.	Aluminium Wires used in the construction of aluminium conductors, galvanized steel reinforced (ACSR) as per tables of IS:398/Part.II/1996	
a)	Diameter	
i)	Nominal (mm)	3.35
ii)	Minimum (mm)	3.32
iii)	Maximum (mm)	3.38
b)	Cross sectional area of nominal dia, wire (Sq. mm)	8.814
c)	Mass (Kg/Km)	23.82
d)	Resistance at 20 Degree C. maximum (Ohms/ Km.)	3.265
e)	Breaking load (Minimum)	
i)	Before stranding (KN)	1.43
ii)	After Stranding (KN)	1.36
5.	Steel Wires used in the construction of aluminium conductors, galvanized steel reinforced (ACSR) as per tables of IS:398/Part.II/1996	

a)	Diameter	
i)	Nominal (mm)	3.35
ii)	Minimum (mm)	3.28
iii)	Maximum (mm)	3.42
b)	Cross sectional area of nominal dia, wire (Sq. mm.)	8.814
c)	Mass (Kg/Km)	68.75
d)	Breaking load (Minimum)	
i)	Before stranding (KN)	11.58
ii)	After Stranding (KN)	11.00
6.	Aluminium conductor galvanized steel reinforced as per tables of IS:398/(Part.II/1996)	
a)	Nominal Aluminium area (Sq. mm.)	50
b)	Stranding and wire diameter	
i)	Aluminium (mm)	6/3.35
ii)	Steel (mm)	1/3.35
c)	Sectional area of Aluminium (Sq. mm.)	52.88
d)	Total sectional area (Sq. mm.)	61.70
e)	Approx. Overall diameter (mm)	10.05
f)	Approx. mass (Kg./Km.)	214
g)	Calculation resistance at 20 Degree C (Max.) (Ohms/Km.)	0.5524
h)	Approx. Calculated breaking load (KN)	18.25
7. a)	Zinc coating of steel wire (IS:4826/1979 with latest amendment)	
i)	No. of 1 minute dip	3
ii)	No. of ½ minute dip	-
b)	Minimum weight of zinc coating (Gm/Sq. mtr.)	237.5
8.	XLPE INSULATION :	LT
a)	Thickness of Insulation:	
i)	Smallest measured value	1.25
ii)	Nominal measured value	1.5
b)	Weight of XLPE Kg./Km.	To be furnished

c)	Carbon Contents & its dispersion	2.5 (+/-) 0.5% well dispersed
d)	Applicable standard for XLPE Insulation	IS-14255/1995
9.a)	Standard length of insulated conductor in meters	1000
b)	Tolerance in standard length	+/-5%
10.	No. of the short length(s) i.e. 80% length of standard length will be limited to 5% of the total ordered quantity.	As per Clause No.7 of Specification
11.	No. of standard lengths in Drum	To be furnished by bidder
12..	Total length of insulated conductor in one drum (Kms)	Upto 3 Kms
13.	Net mass of Insulated conductor in one drum (Kg.)	To be furnished by bidder
14.	Tare mass of the drum with lagging (Kg.)	To be furnished by bidder
15.	Gross weight of the drum including weight of the Insulated Conductor (Kg.)	To be furnished by bidder
16.	Size and dimension of Drum as per IS:10418 / 1982 latest amendments	To be furnished by bidder

Note : Bidder are required to furnish value of each parameter. The word **i.e.** to be furnished later on, etc., or as per IS, shall not be allowed and offer liable to be ignored.

Date:

SIGNATURE

RUBBER SEAL

SCHEDULE-VB

GUARANTEED TECHNICAL AND OTHER PARTICULARS OF DRUM FOR SUPPLY OF LT XLPE INSULATED ACSR RABBIT CONDUCTOR AGAINST TN-1297		
S.No.	PARTICULARS	LT XLPE INSULATED ACSR RABBIT CONDUCTOR
A	Drum Size (in mm)	
B	Flange Diameter(d1) (mm)	
C	Barrel Diameter(d2) (mm)	
D	Centre hole Diameter(d3) (mm)	
E	Overall width (L1) (mm)	
F	Traverse (L2) (mm)	
G	Thickness of Flange	
H	Barrel End (supporting disc or core segment)	
	a) Diameter (mm)	
	b) Thickness (mm)	
I	Stretchers(Core Carrier Planks)	
	a) Number (Min)	
	b) Thickness x width (mm)	
J	Barrel Battens thickness (Core Filler Planks)	
K	Barrel Middle Supports (Middle Core discs)	
L	Thickness of External Laggings.(mm)	
	DETAILS OF METAL COMPONENTS:	
M	Clamping Studs with Hexagonal Nuts	
	a) Numbers	
	b) Diameter (mm)	
N	Square or Round Washers	
	a) Numbers	
	b) Diameter (mm)	
O	M.S. Bushes	
	a) Numbers	
	b) Thickness of Sleeve (mm)	
	c) Dimension of Sleeve (mm)	
	d) Number of Bolts	
	e) Diameter of Bolts	
P	M.S./ C.I. Centre Plate	
	a) Numbers	
	b) Dimensions of Square/ Triangular equal sides (mm)	
	c) Centre Plate Bolts.	
Q	Numbers	
	i) Diameter of bolts (mm)	
	ii) Centre Hole Diameter (mm)	

As per IS:10418/1982 with latest amendments

(Signature)**Name & Designation with seal of the bidder.**

Schedule – VI (A)

JODHPUR VIDYUT VITRAN NIGAM LIMITED

A Govt. of Rajasthan Undertaking

DEPARTURE/DEVIATION FROM TECHNICAL SPECIFICATION

The bidder shall state under this schedule the departure from the Purchaser's specification in respect of technical is as under:-

S.No.	Main Deviations from Technical Specification.
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Certified that we agree to all the technical specification of the NIT except for the deviation to the extent indicated above.

(Signature)
Name & Designation
with seal of the bidder.

Schedule – VI (B)

JODHPUR VIDYUT VITRAN NIGAM LIMITED

**A Govt. of Rajasthan Undertaking
DEPARTURE FROM COMMERCIAL TERMS & CONDITIONS OF THE
SPECIFICATION**

The bidder shall state under this schedule the departure from the Purchaser's specification in respect of Commercial terms & conditions:-

S.No.	Main Deviations from Specification.
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Certified that we agree to all the commercial terms & conditions as laid down in General Conditions of Contract to the specification except for the deviation to the extent indicated above.

(Signature)

Name & Designation
with seal of the bidder.

Schedule – VII**JODHPUR VIDYUT VITRAN NIGAM LIMITED****A Govt. of Rajasthan Undertaking
LIST OF PAST SUPPLIES**

The bidder shall state under this schedule whether material and equipments, similar to those offered in the tender have been previously supplied by him. A list shall be given of such orders executed by him together with information regarding the names of purchasing organizations, quantities supplied and when the supplies were effected. This list should be in form given below:-

S.No.	Detailed particulars of items supplied	Qty	Order No. & Date	Name & details of purchasing authority	Date of Completion
1	2	3	4	5	6

If executed partially to be mentioned (Quantity)	whether still to be executed	Delivery stipulated in order	Remarks
7	8	9	10

Note: Separate schedules are to be furnished by the bidder for past supply to the JDVVNL, JODHPUR other State Electricity Boards and other Departments /Organisations.

(Signature)

Name & Designation
with seal of the bidder.

SCHEDULE-VIIA**TN-1297****TO WHOMSOEVER IT MAY CONCERN**

This is to certify that M/s. _____ (Complete with address) have manufactured and supplied the *tendered material / higher rating* during the following financial year(s) to the Electrical Utilities / Government Departments / Discoms/ SEBs as detailed out below:

S. No	Financial year in which material supplied	Detailed Particulars of item(s) supplied	Name and particulars of purchasing authority	Order No. & date against which item(s) supplied	Unit	Ordered		Actual Supplied up to		Remarks
						Quantity	Value (Rs)	Quantity	Value (Rs)	
1	2	3	4	5	6	7	8	9	10	11

Signature,
Name & Designation
With Seal of the Bidder
Date _____
Place _____

Signature of C.A
Name:
Address:

Membership No

The above particulars are true and correct based on explanations, records and books of accounts produced before us. Further, the above certificate issued on the request of the company.

CA Firm(-----)

SCHEDULE-VIII
TN-1297

JODHPUR VIDYUT VITRAN NIGAM LIMITED
DELIVERY SCHEDULE
PART – A

The delivery Schedule of the material by the Purchaser Officer is as mentioned hereunder:-

S.No	Particular Of Material	Commencement Period	Rate of Supply per Month	Period for Completion of delivery of Entire material
1.	LT XLPE Insulated ACSR Rabbit Conductor as per Specification against TN-1297	After 30 Days from the date of receipt of P.O.	At equal monthly installment	In Five Months thereafter

Note – In case ordered quantity is different than quoted quantity, then monthly delivery shall be adjusted proportionately. **Tenders in which monthly delivery schedule as above is not indicated, shall be considered as NON-RESPONSIVE.**

PART - B

In case bidder deviates from the delivery schedule mentioned by the purchaser in Part-A, then the delivery Schedule of the material by the bidder shall be indicated / mentioned as under:-

S.No	Particular Of Material	Commencement Period	Rate Of Supply per Month	Period for Completion of delivery of Entire material

Note: (i) During the commencement period, the process of model assembly and submission of B.O.M. for approval shall be got completed.

(ii) During the commencement period the contractual formalities shall be got completed.

Signature
Name & Designation
With Seal of the Bidder

Schedule – IX

JODHPUR VIDYUT VITRAN NIGAM LIMITED

A Govt. of Rajasthan Undertaking

List of Equipments and Technical Hands Available with the Firm

(To be filled in by the bidders & enclosed with the bid)

Manufacturers and / or their authorized agents who are quoting against this bid are requested to furnish the following information along-with the bid. The Purchaser will have the discretion to ignore the bid without the under noted particulars and/or ignore the bid particulars.

1. Name and Address of Manufacturer.
2. Place where works exist.
3. Details of machinery particularly with B.H.P. of each item installed.
4. Details of staff employed in the works.
5. Date when started the manufacturing of item under reference.
6. List of items manufactured.
7. Literature and drawings of items manufactured showing their description, size, design and other important technical particulars.
8. Details of order so far, executed alongwith the names of organization to whom supplied.
9. Manufacturing capacity.
10. Is the workshop open for inspection by the representative of the board, if required?
11. Statement of financial resources and Banking Reference alongwith Balance-Sheet for previous two years.
12. Testing facilities available for the manufactured articles in the testing laboratory of works.
13. Whether the Firm is a small/medium/large scale industry.
14. Registration No. with :-
 - i. Small Scale, National/State.
 - ii. DGTD
 - iii. State Industries Department.

(Signature)

Name & Designation
with seal of the bidder.