



**AJMER VIDYUT VITRAN NIGAM LIMITED**  
(*MATERIAL MANAGEMENT WING*)

Corporate Identification Number (CIN) – U40109RJ2000SGC016482

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Specification No. AVVNL/SE(MM)/E3A5/Short Term Tender/TN -1084

Specification for XLPE Insulated ACSR Weasel Conductor under TN – 1084.

LAST DATE & TIME OF UPLOADING OF TENDER / OFFER (E-TENDERING).	: 05.12.2016 (2.00 PM)
DATE & TIME OF ONLINE OPENING OF TENDER	: 06.12.2016 (11.30 AM)
TENDER PROCESSING FEES (NON-REFUNDABLE)	: Rs. 1,000.00
COST OF SPECIFICATION (NON-REFUNDABLE)	: Rs. 2500.00
VALIDITY OF TENDERS REQUIRED UPTO	: Minimum 120 Days from the Next Date of opening of Techno Commercial Bid.
EARNEST MONEY TO BE DEPOSITED	: Rs. 2,00,000.00 (Rs. Two Lac only) or Exemption Certificate or Vendor Registration Certificate .
TENDERING QUANTITY	: Insulated Weasel Conductor – 200 Kms.
CONTACT PERSON (AUTHORIZED BID SIGNATORY)	: Superintending Engineer (MM) AVVNL, Ajmer
CORRESPONDENCE ADDRESS	: Vidyut Bhawan, Panchsheel, Makadwali Road, Ajmer
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**Address of RISL:**

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**Note:-** The bidder, 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 AVVNL website [www.avvnl.com](http://www.avvnl.com) or [www.http://eproc.rajasthan.gov.in](http://eproc.rajasthan.gov.in) and upload the tender on website of RISL [www.http://eproc.rajasthan.gov.in](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 bidding documents downloaded from the website and appended with the bid (as a bid document) and original copy of such document available in the office of Superintending Engineer (MM), Ajmer Discom, Ajmer then the copy available with Superintending Engineer (MM), Ajmer Discom, Ajmer will be considered as final document for all purpose. The cost of Bid document as published in NIT shall be furnished along with EMD one day prior to opening of bid i.e. and scan copy the be upload on website of RISL downloaded bid document in the manner prescribed in bid document.

**SECTION – III****TECHNICAL SPECIFICATION FOR XLPE INSULATED ACSR WEASEL CONDUCTOR SUITABLE FOR WORKING VOLTAGE UPTO AND INCLUDING 1100 VOLTS AGAINST SHORT TERM TENDER TN-1084.****1. SCOPE:**

This section provides for manufacture, testing before dispatch, supply and delivery F.O.R. destination of ACSR Weasel Conductor, Cross linked polyethylene Insulated and suitable for working voltage upto and including 1100 Volts. The ACSR Weasel 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 WEASEL 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 WEASEL 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 Weasel 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 bidders shall be considered for opening in absence of non-furnishing of above required ISI License alongwith the bid. However, price bid of the responsive bidders shall only be opened if bidder furnishes above required ISI License upto 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 Insulated ACSR Weasel 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<br>S1 A1/A2 2002 | : Over head distribution cables of rated voltage $U_0 / U(U_m) : 0.6/1 (1.2) \text{ KV}$ . |

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

## 4 GENERAL REQUIREMENT OF XLPE INSULATED ACSR WEASEL CONDUCTOR:

### 4.1 MATERIAL

#### A) GENERAL TECHNICAL REQUIREMENT OF ACSR WEASAL CONDUCTORS:

The technical particulars shall be furnished strictly in the Performa attached at Schedule-V-A of this specification. The specific values must be indicated against each column and no 'dash', 'dot', 'blank' or as per IS word should be indicated in this schedule. The technical suitability shall be adjudged from the values furnished in the clause 3.2 "PRINCIPAL PARAMETERS". The ACSR conductor shall comply in all respect with IS: 398(Part.2)/1996 with latest amendment, if any from the date of its applicability. Any departure from the strandard be indicated in Schedule-III.

The material offered shall be of the best quality and workmanship. The conductor shall be constructed from hard drawn aluminum and galvanized steel wires which have the mechanical and electrical properties specified in Tables 1 & 2 of IS:398(Part.2)/1996 with latest amendment, if any, The Zinc coating on the galvanized steel wires may be applied in accordance with IS:4826/1979 with latest amendment if any. The EC Grade Aluminum rods for use in the manufacture of Aluminum Wires shall conform to IS:5484/1978 amended up to date. The zinc used for galvanizing shall be Electro type High Grade Zinc not less than 99.95 percent purity. It shall conform to and satisfy all the requirements of IS:209/1992 amended up to date. Galvanized Steel Wire should comply mechanical properties as per Table 2 of IS:398 (Part.2)/1996 amended up to date. The chemical composition is as per Annexure-C of IS:398 (Part.2)/1996 amended up to date.

### 4.2 PRINCIPAL PARAMETERS:

The details of ACSR Conductor are tabulated below:-

PARTICULAR	ACSR Weasel
a) Stranding and wire diameter (mm)	6/2.59 Al. 1/ 2.59 St.
b) Number of strands Central Steel wire Aluminum	1 6
c) Sectional area of Aluminum (Sq. mm)	31.61
d) Total Sectional area (Sq. mm)	36.88
e) Overall diameter (mm) (Approx.)	7.77
f) Weight (Kg/Km) (Approx.)	128.00
g) Calculated max. DC resistance at 20 Deg. C (Ohm./ Km.)	0.9289
h) Approx. calculated breaking load (KN)	11.12
i) Modulus of elasticity (GN/Sq. meter)	79
j) Coefficient of liner Expansion per deg C.	19.1 x 10-6

4.3 The details of aluminum strands are as follows:

PARTICULAR	ACSR Weasel
a) Min. Breaking load of strand before stranding (KN)	0.89
b) Min. Breaking load of strand after stranding (KN)	0.85
c) Max. D.C. Resistance of strand at 20 Deg. C (ohm/Km.)	5.490
d) Diameter mm Nominal Minimum Maximum	2.59 2.56 2.62
e) Mass (Kg/Km.)	14.24

4.4 The details of steel strands are as follows:

PARTICULAR	ACSR Weasel
i) Min. Breaking load of strand before stranding (KN)	6.92
ii) Min. Breaking load of strand after stranding (KN)	6.57
iii) Diameter mm a) Nominal b) Max./Min	2.59 2.64/2.54
iv) Zinc coating testing	2 dips of 1 min. each & 1 dip. of ½ min.
v) Min. weight of zinc coating GM/ Sq. Mtr.	218.50
vi) Mass of strand at normal diameter of strand(Kg./Km.)	41.09

#### 4.5 Tolerance on normal sizes:

The tolerance in diameter of aluminum wires and steel wire used in the manufacture of ACSR shall be allowed as per IS: 398/ (Part-2) /1996 amended up to date.

#### 4.6 Stranding :

4.6.1 The wires used in the construction of a galvanized steel reinforced aluminum conductor shall before stranding, satisfy all the relevant requirements of this specification and relevant IS.

4.6.2 The lay ratio of the different layers shall be within the limits given:

S. No.	Particulars	ACSR WEASEL
1	Number of wires : a) Aluminum b) Steel	6 1
2	Ratio of aluminum Wire dia-meter to Steel wire dia-meter	1
3	Lay ratio for aluminum Wires (Outer most layer): a) Minimum b) Maximum	10 14
4.	Lay ratio for steel core (6 wire layer) a)Minimum a) Maximum	- -

NOTE: For the purpose of calculation, the mean lay ratio shall be taken as the arithmetic mean of the relevant minimum and maximum value given in this table.

#### 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 TYPE TEST CERTIFICATES:

5.1 The insulated conductor shall be conformed to requirement of latest edition of IS:398 (Part.2)/1996, for ACSR Weasel 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 Weasel 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 " Pre Qualification Requirement".

**The following shall constitute type tests as per requirement of IS-398 Part 2/1996 and IS-14255/1995 amended upto date.**

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

- i) Visual & dimensional check on drum as per relevant IS/ specification.
- ii) Visual check for joints, scratches etc. and length of conductor by re-winding of conductor on empty drum as per relevant IS/Specification.
- iii) Measurement of Dia meter for individual Aluminium and steel wires.
- iv) Measurement of lay ratio.
- v) Breaking Load of individual Wires.
- vi) Ductility test.
- vii) Wrapping test.
- viii) Resistance Test.
- ix) Galvanizing test.
- x) Any other test as per relevant IS.

**B) ON XLPE INSULATION (IS-14255/1995 AMENDED UPTO DATE**

- I) Test for thickness of insulation
- 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)
  - f) Carbon Black :**
    - i) Content - 2.5 +/- 0.5%**
    - ii) Dispersion – Well dispersion.**
- II) Insulation resistance (volume resistivity test)
- III) 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 WEASEL CONDUCTOR:**

- i) Visual & dimensional check on drum as per relevant IS/ specification.
- ii) Visual check for joints, scratches etc. and length of conductor by re-winding of conductor on empty drum as per relevant IS/Specification.
- iii) Measurement of Dia meter for individual Aluminium and steel wires.
- iv) Measurement of lay ratio.
- v) Breaking Load of individual Wires.
- vi) Ductility test.
- vii) Wrapping test.
- viii) Resistance Test.
- ix) Galvanizing test.
- x) Any other test as per relevant IS.

The routine test certificates to be furnished to the Inspecting Officer at works as per IS-398 Part-2/1996 for ACSR WEASEL 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 Weasel Conductor or minimum quantity of 20 Kms. whichever is more.**

One sample of 15 Mtr. Length from the 1<sup>st</sup> Lot of XLPE Insulated ACSR Weasel 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 cable and two sticker's seals provided along the length of the cable.** 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 1<sup>st</sup> 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 2<sup>nd</sup> 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, Ajmer 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, Ajmer 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 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).**

6.8 The manufacturer will provide certificates as per the Clause No.7 of IS: 398((Part.2)/1996 “Freedom from defects” and clause No.9 “Joint in Wires”.

## 7 STANDARD LENGTH:

- 7.1 The standard length of the Insulated ACSR Weasel conductor drum shall be 1000 mtrs. 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 mtrs..

## 8 REWINDING AT STORES:

The purchaser has every right for rewinding of Insulated ACSR WEASEL 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 rewind 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 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 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 Weasel 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 Weasel 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 (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 Incharge 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).

## 10. PRICES :

a) The bidder shall quote the Prices in **BOQ (Online)** 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 **01.09.2016**. 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 WEASAL 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 **01.09.2016** 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 01.09.2016 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, Aluminum Alloy 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 Weasel Conductor shall be increase / decrease by @ Rs.87.00.
- 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 Weasel Conductor shall be increase / decrease by @ Rs.41.00.

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, Aluminum Alloy 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, Aluminum Alloy and Steel, supplier shall give an undertaking in the shape of Indemnity Bond on Non Judicial Stamp Paper of Rajasthan State Government Worth Rs.500/- 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 AVVNL 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.

## 12. PACKING AND MARKING:

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

The 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 – V-A. Any departure from the GTP be indicated in Schedule-V.

## 14. MANUFACTURER:

The bidder should be a manufacturer of ACSR Weasel 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 XLPE Insulated ACSR Weasel Conductor by providing legible Embossing as under:

### ii) EMBOSSING

The XLPE Insulated ACSR Weasel Conductor shall also be required to be embossed with the word **Manufacturer’s Name or Trade Mark, Electric, Voltage Grade, AJMER DISCOM or AVVNL / TN, 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 XLPE Insulated ACSR Weasel Conductor in meter shall be marked on every meter length of XLPE Insulated ACSR Weasel 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. 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 One Month from the date of receipt of purchase order and shall be completed in Four months thereafter at equal monthly installments**. In case of ordered quantity is different than the quoted quantity, than 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-I****AJMER VIDYUT VITRAN NIGAM LIMITED**  
**(MATERIAL MANAGEMENT WING)****Corporate Identification Number (CIN) – U40109RJ2000SGC016482**

Reg. Off. Vidyut Bhawan, Panchsheel Nagar, Makadwali Road, Ajmer-305004

Phone: 0145-2644529, Fax: 0145-2644542, E-Mail: [semmajmer@gmail.com](mailto:semmajmer@gmail.com), Website:[www.avvnl.com](http://www.avvnl.com)**SCHEDULE OF REQUIREMENT****XLPE INSULATED ACSR WEASEL CONDUCTOR SUITABLE FOR WORKING VOLTAGE UPTO AND INCLUDING 1100 VOLTS:**

<b>Sr. No.</b>	<b>ITEM</b>	<b>Approx. QUANTITY</b>
<b>1</b>	<b>XLPE Insulated Weasel Conductor</b>	<b>200 Kms.</b>

NOTE:-The quantities as mentioned in the schedule of requirements are tentative and may increase/decrease as per the requirement of the Nigam.

**SCHEDULE-III****PRE- QUALIFICATION REQUIREMENT (PQR) FOR PURCHASE OF XLPE INSULATED ACSR WEASEL CONDUCTOR SUITABLE FOR WORKING VOLTAGE UPTO AND INCLUDING 1100 VOLTS AGAINST TN- 1084.**

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

**1.0 STATUS OF BIDDER:-**

- a) The bidder should be a Manufacturer of offered items. The offers from sole selling agent/ authorized dealers shall not be entertained.
- b) Old/ New suppliers:- Any bidder located within or outside the state of Rajasthan has participated for the first time in a particular Discom & meeting minimum qualification requirement and has supplied the tendered material/or of higher rating in other licensed power utility shall be treated as an old supplier. Rajasthan's firms although supplied in past but not meeting minimum quantity supplied criterion including altogether new units which have not supplied any quantity but having adequate & required manufacturing and testing facility and technical know-how of the tendered material shall be considered as new firms and would be eligible for trial order only. In case of supply made to the licensed power utility outside India, the C.A. certificate furnished by firm shall be considered.

**2.0 PAST SUPPLY & PERFORMANCE CRITERIA:-**

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

**2.01 PAST SUPPLY:-**

- 2.01.1 The bidder is required to quote for minimum **10%** of tendered quantity failing which their offer may be considered Non-Responsive.
- 2.01.2 The bidder should have designed, manufactured / fabricated, tested and supplied to licensed power utility / Discoms / Govt. Departments at least 2 X QQ (QQ being the quoted quantity) of similar item / higher rating of tendered material / equipment in last 3 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 enclosed prescribed proforma only. This prescribed proforma should be furnished either in original or copy duly attested by Notary. The bidder shall also sign and affix seal on the C.A. Certificate. The certificate should have membership number with the name & 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 format or information diverted format, will not be considered and rejected.

**Note:-**The material supplied and accepted for same/higher rating for Turnkey projects to a licensed power utility/Govt. shall be considered for the purpose of evaluating criteria. The certificate given by C.A. shall indicate above quantity separately.

**2.02 PERFORMANCE CRITERIA:-**

- 2.02.1 i) If a bidder has supplied up to 50% of ordered quantity in previous tender up to date of opening of subsequent tender 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 tender and scheduled delivery period expired, the quantity equal to the quantity pending in previous tender for that item shall be reduced from the subsequent tender quantity to be allocated to the bidder.

**3.0 TYPE TEST CRITERIA:-**

- a) The bidder shall furnish valid and authenticated type test certificate from a Govt. approved/ a Govt. recognized/ NABL accredited laboratory/ ILAC i.e. International Laboratory Accredited laboratory / ILAC i.e International Laboratory Accrediation Cooperation (In case of foreign laboratory) of **similar rating and design** of tendered material / equipment. Such type test certificates should not be older than Five years as on the date of bid opening. For this purpose date of conduction Type Test(s) will be considered.
- b) The type test certificates by in house laboratory of biding firm even if it is a Govt approved/ Govt recognized/ NABL accredited/ ILAC accredited, shall not be accepted, in case of their own bid. This will not apply if biding firm is Govt. Company/ Public Sector Undertaking.
- c) The bidder should furnish documentary evidence in support of the laboratory whose type test have been furnished, that the said laboratory is a Govt/ a Govt. approved/ a Govt. recognized/ NABL accredited laboratory/ ILAC accredited ( in case of foreign laboratory)
- d) The type test certificates shall be furnished either in original or duly attested by notary.
- e) The bids of only those bidders shall be considered to be meeting the type test criteria who furnishes complete type test certificates with the bid as per above provision.
- f) 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 from a Govt. / Govt. approved / Govt. Recognized / NABL Accredited laboratory / ILAC accredited laboratory shall be furnished from first lot (without asking any delivery extension) along with Bank Guarantee with the Technical bid from a Nationalized / Scheduled Bank in prescribed Performa at Schedule-III – B or DD / Pay order amounting to Rs. 1.5 lacs The initial validity of bank guarantee shall be nine months with claim period of three months in addition.
- i) Where a new Rajasthan based firm is participating & is technically competent.**
- ii) Where one or more type test(s) is/ are older than 5 years.**
- iii) Where Rajasthan /outside Rajasthan firm furnishes requisite type test reports of higher rating material**

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

The bidders who have been black listed in any of the state Discom or with whom business relations have been severed in Ajmer Discom shall not be considered. Severment 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 or does not comply with contractual formalities.	Forfeiture of EMD/cancellation of vendor registration to recover amount of EMD along with 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 along with severment of relations for a period of 2 years from the date of issue of order or in next two bids whichever is later along with forfeiture of EMD / cancellation of vendor registration.

**4.0 (A) Black listing of a firm:**

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 dealing 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.

Note: - 1 If a supplier after having tendered for a supply or after negotiations 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.

**(B) 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.
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.
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 Discoms.
4. On severment of business, the EMD/SD/vendor registration security will be forfeited.
5. The orders in execution satisfactorily will not be cancelled other than the order on which severment have been done.

**(C) 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 up to the official working hours of one working day prior to the schedule / notified date of opening of price bid.



**SCHEDULE-III-A****BANK GUARANTEE IN LIEU OF FURNISHING OF TYPE TEST CERTIFICATE**

( On Non-Judicial Stamp Paper of Govt. of Rajasthan as per applicable value)

To,

**The Superintending Engineer (MM),  
Ajmer Vidyut Vitran Nigam Limited,  
Vidyut Bhawan, Panchsheel Nagar,  
Makadwali Road, Ajmer-305004.**

Dear Sir,

Whereas Ajmer Vidyut Vitran Nigam Limited , Ajmer ( 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), Ajmer Vidyut Vitran Nigam Limited, Ajmer 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), Ajmer Vidyut Vitran Nigam Limited, Ajmer 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 AJMER in Rajasthan.

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

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

Witness:

- 1.
- 2

**AJMER VIDYUT VITRAN NIGAM LIMITED**  
**A Govt. of Rajasthan Undertaking**  
**SCHEDULE OF PRICES**  
(Must be filled by the bidder in BOQ)

The Superintending Engineer (MM)

Ajmer Vidyut Vitran Nigam Limited , Ajmer

with reference to your invitation to bid against specification No....., we agree to supply at prices (firm/variable) given as follows

S. No	Particulars of Material	Unit Ex-works Price (in Rs.)	Excise duty (Per Unit)	Freight (Per Unit) (In Rs.)	Insurance (Per Unit) (In Rs.)	CST/VAT (Per Unit)	Total Price In Rs. (Per Unit) Col. No. (3+4+5+6+7)	Entry Tax @ ___ % on Col. 8 (In Rs.)	All adjusted unit F.O.R. Destination Price including Entry Tax Col. No.8+9	Total Contract Value (In Rs.)
			Rate			Rate				
1.	2.	3.	4.	5	6	7	8.	9	10.	14.
		TO	BE	UPLDED	ON	BOQ				

**Notes:-**

- 1) The bidder is required to quote the prices in the above format only. Bids having prices quoted in other format/manner are liable to be ignored.
- 2) The bidder must fill each and every column of the above format . Mentioning “extra/ Inclusive” in any of the column may lead for rejection of the price bid.
- 3) The unit Ex-work price to be indicated in Col. No. 4 should be exclusive of taxes & duties which are to be indicated in separate columns meant for the purpose. .
- 4) In case of price bid break-up is given component wise and also given sum total by the bidder but there is a difference between aggregate of component wise and sum total , then lesser of the two will be taken into account.

**Signature of bidder with rubber stamp**



# AJMER VIDYUT VITRAN NIGAM LIMITED

(*MATERIAL MANAGEMENT WING*)

Corporate Identification Number (CIN) – U40109RJ2000SGC016482

Reg. Off. Vidyut Bhawan, Panchsheel Nagar, Makadwali Road, Ajmer-305004

Phone: 0145-2644529, Fax: 0145-2644542, E-Mail: [semmajmer@gmail.com](mailto:semmajmer@gmail.com), Website: [www.avvnl.com](http://www.avvnl.com)

## TN-1084

### ITEM- XLPE INSULATED ACSR WEASEL CONDUCTOR.

#### Must be filled in by the bidder and attached with Technical Bid (Part-I)

To,

The Superintending Engineer (MM),  
Ajmer Vidyut Vitran Nigam Limited,  
Ajmer.

Dear Sir,

With reference to your invitation to bid against specification No. AVVNL/SE/MM/ TN-1084, we agree to supply the following quantity :

S. No.	Particulars of Items	Tendered Quantity (In Kms.)	Qty. Offered	Justification of quantity offered as per Qualifying Requirement	Status of Type Test Certificates.
1.	2.	3.	4.	5.	6.
1	XLPE Insulated Weasel Conductor	200 .00			

- The offer is valid for a period of minimum 120 days from the next date of opening of Techno-Commercial bid.
- The prices are variable with base date 01.09.2016.
- It is noted that the quantity as mentioned in the specification are approximate and we agree to supply any quantity as per your requirement.
- 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. AVVNL/SE/MM/ TN-1084 and as per relevant ISS in all respect.
- We conform that we agree to all the terms & conditions as well as the technical stipulation of your specification No. AVVNL/SE/MM/ TN-1084 and there are no deviations other than as specified in the **Schedule-III, V,VI (A & B)**.

Yours faithfully,

Signature of bidder with stamp

Dated.

**Schedule – V**

**AJMER 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.

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

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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 XLPE INSULATED ACSR WEASEL CONDUCTOR AGAINST TN-1084.**

(A)	<b>FOR ACSR WEASEL CONDUCTOR</b>	
1.	<b>a) Name of the Firm</b>	
	<b>b) Works address</b>	
	<b>c) Contact person &amp; Contact No.</b>	
	<b>d) Email ID</b>	
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	
	<b>a) Diameter</b>	
	i) Nominal (mm)	2.59
	ii) Minimum (mm)	2.56
	iii) Maximum (mm)	2.62
	<b>b) Mass (Kg/Km)</b>	14.24
	<b>c) Resistance at 20 Degree C. maximum (Ohms/ Km.)</b>	5.490
	<b>d) Breaking load (Minimum)</b>	
	i) Before stranding (KN)	0.89
	ii) After Stranding (KN)	0.85
5.	Steel Wires used in the construction of aluminium conductors, galvanized steel reinforced (ACSR) as per tables of IS:398/Part.II/1996	

a)	<b>Diameter</b>	
i)	Nominal (mm)	2.59
ii)	Minimum (mm)	2.54
iii)	Maximum (mm)	2.64
b)	Mass (Kg/Km)	41.09
c)	Breaking load (Minimum)	
i)	Before stranding (KN)	6.92
ii)	After Stranding (KN)	6.57
6.	Aluminium conductor galvanized steel reinforced as per tables of IS:398/(Part.II/1996)	
a)	Nominal Aluminium area (Sq. mm)	
b)	Stranding and wire diameter	
i)	Aluminium (mm)	6/2.59
ii)	Steel (mm)	1/2.59
c)	Sectional area of Aluminium (Sq. mm)	31.61
d)	Total sectional area (Sq. mm.)	36.88
e)	Approx. Overall diameter (mm)	7.77
f)	Approx. mass (Kg./Km.)	128.00
g)	Calculation resistance at 20 Degree C (Max.) (Ohms/Km.)	0.9289
h)	Approx. Calculated breaking load (KN)	11.12
7. a)	Zinc coating of steel wire (IS:4826/1979 with latest amendment)	
i)	No. of 1 minute dip	2
ii)	No. of ½ minute dip	1
b)	Minimum weight of zinc coating (Gm/Sq. mtr.)	218.50
8.	XLPE INSULATION :	LT
a)	Thickness of Insulation:	1.25
i)	Smallest measured value	1.5
ii)	Nominal measured value	
b)	Weight of XLPE Kg./Km	To be furnished
c)	Carbon Contants & 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 Random 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

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 – VI (A)**

**AJMER 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:-

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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)**

**AJMER 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:-

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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**

**AJMER 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 in MT	Order No. & Date	Name & details of purchasing authority	Date of Completion
1	2	3	4	5	6

If executed partially mentioned order	whether still to be executed	Delivery stipulated in	Remarks to be (Qty. in M.T.)
7	8	9	10

**Note:** Separate schedules are to be furnished by the bidder for past supply to the AVVNL, Ajmer other State Electricity Boards and other Departments / Organizations.

**(Signature)**

Name & Designation  
with seal of the bidder.

**SCHEDULE-VII-A****TO WHOMSOEVER IT MAY CONCERN**

This is to certify that M/s. \_\_\_\_\_ (Complete with address) have manufactured and supplied the goods / equipments / material during the following financial year(s) to the licensed power 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****AJMER VIDYUT VITRAN NIGAM LIMITED****DELIVERY SCHEDULE****TN-1084****PART – A**

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

<b>Sr. No</b>	<b>Particular Of Material</b>	<b>Commencement Period</b>	<b>Rate Of Supply per Month</b>	<b>Period for Completion of delivery of Entire material</b>
<b>1</b>	<b>XLPE Insulated ACSR Weasel Conductor</b>	<b>After One Month from the date of receipt of detailed Purchase Order.</b>	<b>Equal monthly rate thereafter</b>	<b>In Four Months thereafter at equal monthly rates.</b>

**Note – In case ordered quantity is different than quoted quantity, then monthly delivery shall be adjusted proportionately. Bids in which monthly delivery schedule is not indicated, shall be ignored.**

**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:-

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

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****AJMER 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 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.



**SCHEDULE-X**

**AJMER VIDYUT VITRAN NIGAM LIMITED**  
(*MATERIAL MANAGEMENT WING*)

Corporate Identification Number (CIN) – U40109RJ2000SGC016482  
Reg. Off. Vidyut Bhawan, Panchsheel Nagar, Makadwali Road, Ajmer-305004  
Phone: 0145-2644529, Fax: 0145-2644542, E-Mail: [semmajmer@gmail.com](mailto:semmajmer@gmail.com), Website: [www.avvnl.com](http://www.avvnl.com)

Specification No. AVVNL/SE(MM)/E3A5/Short Term Tender/TN -1084

Specification for XLPE Insulated ACSR Weasel Conductor under TN – 1084.

LAST DATE & TIME OF UPLOADING OF TENDER / OFFER (E-TENDERING).	: 05.12.2016 (2.00 PM)
DATE & TIME OF ONLINE OPENING OF TENDER	: 06.12.2016 (11.30 AM)
TENDER PROCESSING FEES (NON-REFUNDABLE)	: Rs. 1,000.00
COST OF SPECIFICATION (NON-REFUNDABLE)	: Rs. 2500.00
VALIDITY OF TENDERS REQUIRED UPTO	: Minimum 120 Days from the Next Date of opening of Techno Commercial Bid.
EARNEST MONEY TO BE DEPOSITED	: Rs. 2,00,000.00 (Rs. Two Lac only) or Exemption Certificate or Vendor Registration Certificate .
TENDERING QUANTITY	: Insulated Weasel Conductor – 200 Kms.
CONTACT PERSON (AUTHORIZED BID SIGNATORY)	: Superintending Engineer (MM) AVVNL, Ajmer
CORRESPONDENCE ADDRESS	: Vidyut Bhawan, Panchsheel, Makadwali Road, Ajmer
MOBILE NO.	: 9414004258
TELEPHONE NO.	: 0145 - 2644529
FAX NO.	: 0145 - 2644542
WEBSITE	: 1. <a href="http://www.avvnl.com">www.avvnl.com</a> , 2. <a href="http://risl.rajasthan.gov.in">http://risl.rajasthan.gov.in</a>
E-MAIL	: <a href="mailto:Info.risl@rajasthan.gov.in">Info.risl@rajasthan.gov.in</a>

**Address of RISL:**

Rajcomp Info Services Limited (RISL)  
1<sup>st</sup> floor, Yojna Bhawan, Tilak Marg, C-Scheme, Jaipur (Raj.)  
Phone: 0141-5103902, 4031900, Fax: 0141-2228701  
Web: <http://risl.rajasthan.gov.in>, Email: [Info.risl@rajasthan.gov.in](mailto:Info.risl@rajasthan.gov.in)

**Note:-** The bidder, 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 [www.eproc.rajasthan.gov.in](http://www.eproc.rajasthan.gov.in) and upload the tender on website of RISL [www.eproc.rajasthan.gov.in](http://www.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 bidding documents downloaded from the website and appended with the bid (as a bid document) and original copy of such document available in the office of Superintending Engineer (MM), Ajmer Discom, Ajmer then the copy available with Superintending Engineer (MM), Ajmer Discom, Ajmer will be considered as final document for all purpose. The cost of Bid document as published in NIT shall be furnished along with EMD one day prior to opening of bid and scan copy be upload on website of RISL. The document shall be downloaded/uploaded in the manner prescribed in bid document.

1. **Furnishing of Proof of deposition of Cost of Bid Document, Earnest Money/ exemption certificate as per Clause 1.03 & 1.16 of Section-I (Instruction to Bidder) along with downloaded Bid Document is essential otherwise the "BID OFFER" will not be opened. However the bidders who get themselves registered with AVVNL as per Clause No. 1.5.3 of Section-II (General Condition of Contract) before submitting of bid documents against this bid enquiry for supply of quoted items under appropriate category are not required to furnish Earnest Money Deposit. They shall furnish the proof of such valid registration with their bid. Cost of Bid Document shall be furnished in the form of Crossed Bank Draft / Bankers Cheque payable in the name of "Sr. A.O. (EA & Cash), AVVNL, AJMER". EMD if required shall be furnished in accordance with Clause No. 1.03.1 of Section-I (Instruction to Bidders) and RISL PROCESSING FEE Rs. 1000/- (NON REFUNDABLE) payable to MD, RISL and Rs. 2500/- tender fees payable to "Sr. A.O. (EA & Cash), AVVNL, AJMER".**
  2. The Central and State Govt. undertakings are exempted from furnishing of Earnest money subject to furnishing of such certificate / documentary evidence in support of their being Govt. (Central/State) undertaking.
  3. The bidder shall quote the Prices 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) in **Schedule-IV** otherwise their bid is liable for rejection. The price quoted should be variable without any ceiling as per IEEMA price variation formula annexed in **Annexure - II**. The **Base date** for price variation shall be **01.09.2016**
  4. **The bid offer shall be furnished in two parts & shall comply all provisions of Clause No. 1.02 Section-I (instruction to Bidders) and the Bid offer shall be furnished in the following manner:-**
    - i) **First cover containing proof of deposition of cost of Bid documents & EMD as under:-**
      - First: a) Content proof document of tender fee Rs. 1000/- payable to MD, RISL.,Jaipur.
      - Second: b) Content proof document of tender specification fee (i.e. Rs. 2500/-) payable to Sr. Accounts officer (EA & Cash), AVVNL Ajmer.
      - Third: c) Content proof document of EMD of Rs. 2, 00,000.00 (Rs. Two Lacs only) or Exemption Certificate or Vender Registration of Class "D" category certificate of being a Rajasthan/ Central Govt. undertaking should be clearly written on the front cover on document.
    - ii) **Second envelope/cover for techno-commercial bid. Techno-Commercial Bid' should be clearly written on the front side of the cover.**
    - iii) **Third envelope/cover for price bid. Cover- III Price Bid' should be clearly furnished on prescribed format (schedule Fourth) the front side of the cover.**
- Note:-** Cover III containing price bid will be kept unopened in the safe custody at the website RISL. It will be opened at a later date in respect of those bidders whose offers are found / adjudged technically and commercially acceptable. The date of opening of "Price Bid" shall be intimated to successful bidders in due course of time. In case of deviation from the stipulated clauses of bid specifications, price bid of the bidder will not be opened.
- iv) **The bidder shall ensure that bid is furnished / submitted strictly in the manner detailed in the Specification.**
  5. The bids not accompanied with qualification requirement, technical requirement indicated in the specification and other requirement given here under will be considered as incomplete offer and sufficient grounds for offer to be passed over:
    - i) Capacity, capability and competency proofing documents.

- a) Capacity/orders of similar and higher rating of tendered equipment booked as on date of bidding with type and rating and construction details of equipment for which order received be indicated.
  - b) Copy of purchase orders of Erstwhile RSEB/SEB'S/ licensed power Utilities/Govt. Departments /Discoms for similar or higher rating equipment latest executed.
  - ii) Year wise past experience for last 5 years of similar or higher rating of tendered equipment.
  - iii) The details of testing facilities available at the works and copies of latest type test certificates, carried out on similar ITEM.
  - iv) Quality assurance plan.
  - v) Complete guaranteed technical particulars, out lines and general arrangement drawings along with Bill of Material (if applicable).
6. Bids without Section-I, II, III & Schedules (I to X) shall be rejected.
  7. AVVNL has the right to reject any offer on the basis of track record of poor performance in execution of previous order/equipment supplied/after sales service while evaluating the Techno-Commercial bid.
  8. AVVNL reserves the right to accept minor deviations in standard terms and also in technical and constructional features as specified in the technical specification **(Section-III)**.
  9. Deviation of any kind shall not be quoted in price bid, if found quoted, the same shall be ignored.
  10. The following facilities are to be provided by the supplier at his own cost to the inspecting officer of AVVNL.
    - A) Suitable accommodation.
      - i) Local conveyance between arrival point, place of stay, works and departure point.
      - ii) The supplier shall assist in arranging return ticket and reservation on the request of the inspecting officer for which the payment shall be made by the inspecting officer. In case of joint inspection, single or shared double room accommodation shall be provided.

**Note:-** If any difficulty arises, in down loading/unloading of tender you may contact in the RISL, Jaipur Rajasthan (Contact no. 0141- 5103902, 4031900) or AVVNL at contact no. 9414069098/9413391454.