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**TENDER DOCUMENTS FOR PURCHASE OF INSULATED / COVERED ACSR
DOG CONDUCTOR SUITABLE FOR 33KV AGAINST SPECIFICATION NO.
JdVVNL/SE(MM&C)/EIIAII/TN-1312**

S. No.	Name of Item	Quantity (Approx)
1	INSULATED / COVERED ACSR Dog Conductor	20 Kms.

LAST DATE AND TIME FOR : 16.03.2017 UPTO 6:00 P.M.
DOWNLOAD OF BID
DOCUMENT

LAST DATE AND TIME FOR : 17.03.2017 UPTO 12:00 P.M.
SUBMISSION OF BID
DOCUMENT (Online)

DATE AND TIME OF : 17.03.2017 AT 03:00 P.M.
OPENING OF BID

EARNEST MONEY TO BE : Rs.2,00,000/-(Rs. Two Lacs)
DEPOSITED

VENDOR REGISTRATION : Category "A / B / C"
CLASS

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

TENDER PROCESSING : RS.1000.00 (non refundable)
FEE

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

Note:- The bidders, in their own interest are requested to read very carefully Section-I (Instruction to Bidders), Section-II (General Condition of Contract) & Section-III (Technical Specification) before filling the bid. The Bid documents can be downloaded from website of Jodhpur Discom www.jdvvn.com, <http://eproc.rajasthan.gov.in> & www.sppp.rajasthan.gov.in and 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.

SECTION-III

TECHNICAL SPECIFICATION FOR INSULATED / COVERED ACSR DOG CONDUCTOR SUITABLE FOR 33KV AGAINST TN-1312

1. SCOPE

1.1 This section provides for manufacture, testing before dispatch, **supply and delivery anywhere in the stores of JDVVNL F.O.R Destination of Insulated / Covered Aluminum Conductor, Galvanized Steel reinforced (ACSR) Dog Conductor** for satisfactory operation in various lines and sub-stations. The conductor should conform to latest IS. The ACSR Dog Conductor shall be conforming to IS:398(Pt.2)/1996 with latest amendment and the insulation **conforming to requirement given in Table-1 of EN50397-1:2006 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 Insulated Conductor shall be as per Schedule of Requirement Annexed with this Section at Schedule-I. It may be noted that the requirement indicated in the Schedule is tentative and may vary at the time of placement of order.

1.2 The Insulated / Covered Aluminum Conductor with galvanized Steel reinforcement shall be conforming to IS: 398(Pt.2)/1996 & EN 50397-1:2006 with latest amendments if any, supplied on non returnable strong wooden drums generally conforming to IS: 1778/1981 (Latest).

The bidders should be a manufacturer of offered Conductor. The Offers from sole selling agents / authorized dealer shall not be entertained. The firms (manufacturers) must possess valid ISI License for the offered Conductor. The technical bid of the bidders shall be considered for opening in absence of non-furnishing of above required ISI License along with the bid. However, price bid of the responsive bidders shall only be opened if bidder furnishes above required ISI License up to the official working hours of one working day prior to the scheduled / notified date of opening of price bid, alongwith undertaking on NJS of Rs. 100.00 duly notarized 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. The bids from trading firms shall not be considered.

2. CLIMATIC CONDITIONS:

- | | |
|--|-------------|
| i) Peak ambient temperature
in shade. | 50 deg.C |
| ii) 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

3. GENERAL TECHNICAL REQUIREMENT OF INSULATED / COVERED ACSR DOG CONDUCTOR:

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 Insulated / Covered ACSR conductor shall comply in all respect with IS: 398(Part.2)/1996 & EN 50397-1:2006 with latest amendment, if any from the date of its applicability. Any departure from the standard be indicated in Schedule-III

3.1 MATERIAL

The material offered shall be of the best quality and workmanship. The Insulated / Covered conductor shall be formed longitudinally watertight & 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 and properties of the covering material specified in Table 1 EN 50397-1:2006 of 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.

3.2 PRINCIPAL PARAMETERS:

The details of Insulated / Covered ACSR Dog conductor are tabulated below:-

PARTICULAR	INSULATED / COVERED ACSR DOG
a) Stranding and wire diameter (mm)	6/4.72 Al. 7/1.57 St.
b) Number of strands Central Steel wire Aluminum	7 6
c) Sectional area of Aluminum (Sq. mm)	105
d) Total Sectional area (Sq. mm)	118.5
e) Overall diameter (mm) (Approx.)	14.15
f) Weight (Kg/Km) (Approx.)	394.00
g) Calculated max. DC resistance at 20 Deg. C (Ohm./ Km.)	0.2792
h) Approx. calculated breaking load (KN)	32.41
i) Modulus of elasticity (GN/Sq. meter)	75
j) Coefficient of liner Expansion per deg C.	19.8×10^{-6}
k) Approx. overall diameter in mm	22.3
l) Approx. weight in KG / KM	630

3.3 The details of aluminum strands are as follows:

PARTICULAR	INSULATED / COVERED ACSR DOG
a) Min. Breaking load of strand before stranding (KN)	2.78
b) Min. Breaking load of strand after stranding (KN)	2.64
c) Max. D.C. Resistance of strand at 20 Deg. C (ohm/Km.)	1.650
d) Diameter mm Nominal Minimum Maximum	4.72 4.67 4.77
e) Mass (Kg/Km.)	47.30

3.4 The details of steel strands are as follows:

PARATICULAR	INSULATED / COVERED ACSR DOG
i) Min. Breaking load of strand before stranding (KN)	2.70
ii) Min. Breaking load of strand after stranding (KN)	2.57
iii) Diameter mm a) Nominal b) Max./Min	1.57 1.60/1.54
iv) Zinc coating testing	2 dips of 1 min. each
v) Min. weight of zinc coating GM/ Sq. Mtr.	180.50
vi) Mass of strand at normal diameter of strand(Kg./Km.)	15.10

3.5 The details of Insulation are as follows:

PARATICULAR	INSULATED / COVERED ACSR DOG
a) Nominal Thickness of Conductor Screen	0.4 mm
b) Nominal Thickness of XLPE Insulation Inner Layer	2.43 mm
c) Nominal Thickness of Insulation outer layer	1.2 mm

3.6 Tolerance on normal sizes:

The tolerance in diameter of aluminum wires and steel wire used in the manufacture of Insulated / Covered ACSR Conductor shall be allowed as per IS: 398/ (Part-2) /1996 & EN 50397-1:2006, amended up to date.

3.7 Stranding:

3.7.1 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.

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

S. No.	Particulars	ACSR DOG
1	Number of wires : a) Aluminum b) Steel	6 7
2	Ratio of aluminum Wire dia-meter to Steel wire dia-meter	3
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	13 28

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.

3.7.3 Conductor Screen:

Conductor shall be provided with semi conducting screen comprising of water swellable semi conducting tape (provided if required) followed by extruded semi-conducting compound.

3.7.4 Insulation:

The insulation shall be as per standard EN 50397-1 comprising of two layers. The average thickness of the covering insulation shall not be less than that stipulated in the Technical requirement. The physical and Electrical properties of insulating compounds shall be as specified in the EN 50397-1.

a). The inner layer of main XLPE insulation shall be unfilled and shall not contain carbon black.

b). The outer covering insulation which also serves as protective covering shall be UV stabilized, whether resistant and Track resistant XLPE.

Properties of covering material shall meet the requirements specified in Table-1 & 2 of EN 50397-1:2006.

Conductor Screen, inner XLPE insulation and outer XLPE insulation shall be manufactured simultaneously, using triple extrusion process in a single operation. The three layers shall be bonded together.

4. TESTS (FOR INSULATED / COVERED ACSR DOG CONDUCTOR):

TESTS BEFORE DESPATCH: The Covered ACSR Dog Conductor shall be subjected at manufacturer's works before dispatch, to the tests mentioned hereunder as per IS: 398 (Part-2)/1996 & EN 50397-1:2006, with latest amended.

4.1 ROUTINE TESTS:

The following tests shall be conducted before and after stranding on each drum of the conductor by the manufacturer at his works as per relevant standard IS: 398 (Part-2)/ 1996 (latest amended)

- a) Visual & dimensional check on drum as per specification.
- b) Visual check for joints, scratches etc. and length of conductor by re-winding of conductor on empty drum as per Specification/ IS.
- c) Measurement of dia-meter of individual Aluminum and steel wires. (Clause-13.2)
- d) Measurement of Lay Ratio. (Clause-13.8)
- e) Breaking load of individual wires (Clause-13.3.1)
- f) Ductility Test (Clause-13.4)
- g) Wrapping Test (Clause-13.5)
- h) Resistance Test (Clause-13.6)
- i) Galvanizing Test (Clause-13.7)
- j) Any other test as per relevant IS

Beside this the following routine test as per requirement of EN 50397-1:2006, with latest amended, shall also be conducted for covered conductor.

- a) Spark Test on the Covering. (No. 1.3 of Table 2)
- b) Construction and Dimension. (No. 2 of Table 2)
Compliance with design requirement (No. 2.1 of Table 2)
Thickness of covering (No. 2.2 of Table 2)
- c) Marking. (No. 9 of Table 2)
Content, legibility (No. 9.1 of Table 2)

4.2 ACCEPTANCE TESTS:-

The following tests shall be conducted on samples taken at random from a lot as per relevant standard IS: 398 (Part-2)/1996 (Latest amended) in presence of purchaser's representative:-

- a) Visual & dimensional check on drum as per specification.
- b) Visual check for joints, scratches etc. and length of conductor by re-winding of conductor on empty drum as per Specification / IS.
- c) Measurement of dia-meter of individual Aluminum and steel wires. (Clause-13.2)
- d) Measurement of Lay Ratio. (Clause-13.8)
- e) Breaking load of individual wires (Clause-13.3.1)
- f) Ductility Test (Clause-13.4)
- g) Wrapping Test (Clause-13.5)
- h) Resistance Test (Clause-13.6)
- i) Galvanizing Test (Clause-13.7)

Beside this the following routine test as per requirement of EN 50397-1:2006, with latest amended, shall also be conducted for covered conductor.

- a) Conductor Resistance & High Voltage Test. (No. 1.1, 1.2 of Table 2)
- b) Construction and Dimension. (No. 2 of Table 2)
Compliance with design requirement (No. 2.1 of Table 2)
Thickness of covering (No. 2.2 of Table 2)
- c) Construction and Mechanical Properties of the conductor. (No. 3 of Table 2)
Rated Tensile Strength (No. 3.1 of Table 2)
Construction and Dimension (No. 3.2 of Table 2)
- d) Hot Set Test. (No. 6.2 of Table 2)
- e) Test of the Longitudinal watertightness. (No. 8 of Table 2)
- f) Marking. (No. 9 of Table 2)
Content, legibility (No. 9.1 of Table 2)

5.0 TYPE TESTS:-

For Insulated / Covered ACSR Dog Conductor, the bidders shall furnish the type test report along with bid as detailed at **Schedule-III A “ Pre-Qualification Requirement” (PQR)** as per relevant IS:398 Pt.2)/1996 & EN 50397-1:2006, with latest amendment along with bid.

5.01 Where the bidder furnishes B.G. against Type Test in terms of conditions mentioned in Schedule-III “A” ‘ Pre Qualification Requirement (PQR).

One sample of 15 Mtr. Length from the 1st Lot of Insulated / Covered ACSR DOG Conductor as received in purchaser's store shall be selected and sealed in the presence of representative of supplier for getting it type tested from a Govt. / Govt. approved / Govt. Recognized / NABL Accredited laboratory / ILAC Accredited laboratory (Suppliers own lab shall not be considered for the purpose of type test). The selected and sealed sample for type test shall be identified by providing Polycarbonate Seals on both ends of conductor and two stickers seals provided along the length of the conductor. The transportation charges of sample from store to test house shall be borne by NIGAM, whereas the charges incurred towards type test of the material at test house shall be borne by the Supplier. The testing charges should be remitted through D.D. in favour of Test House. Name of Test House shall be intimated separately by purchaser.

In case sample from first lot fails then:

- a) Supplier shall have to replace the full quantity of the respective inspected lot supplied to various stores and lying unused at stores.
- b) For the quantity already utilized against the order in field a deduction of @30% (Thirty Percent) of F.O.R. Destination price of the material supplied shall be made.
- c) Sample from next lot shall be selected again for type test. All test charges incurred towards type test of the material for second time shall be borne by the Supplier.
- d) In case the 1st sample fails, the supplier shall have to pay the type test charges again for testing house for which the testing charges should be remitted through D.D. in favor 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.

6.0 SAMPLING PLAN:

6.1. Samples for Acceptance Tests: Samples shall be taken as per relevant IS i.e. IS-398 (Part-2)/1996 & EN 50397-1:2006 with latest version as the case may be.

6.2 Apart from the sample selected for carrying out Acceptance Tests at the works of the firm during inspection, **one more sample from each length be also selected out of one drum under re-winding for carrying out various Acceptance Tests as per relevant IS. If any of the sample so selected from each length failed in any acceptance test the entire lot under inspection is not acceptable.**

6.3 TOLERANCE ON TEST RESULTS:

Tolerance on test results shall be allowed as per relevant IS/EN/Spec. whichever is more stringent.

7.0 INSPECTION

7.1 (a) The conductor shall be manufactured in accordance with latest edition of IS: 398(Part.2)/1996 & EN 50397-1:2006 with all subsequent amendments issued from time to time for Covered ACSR Dog Conductor. All the tests as laid down in the above mentioned specification on individual aluminum wire and steel wire shall be carried out. The testing shall also include the tests on manufactured finished conductor. Moreover the supplier shall also furnish test certificate(s) of raw materials to the inspecting officer at the time of inspection. The inspection & testing shall be governed by Clause No.1.27 of Section-II (General Condition of Contract).

(b) 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.

(c) The Manufacturer shall provide all adequate facilities at his works for inspection of at least one number conductor drum or 5% conductor drums offered for inspection whichever is higher selected at random by the authorized representative of the purchaser for checking / verification of conductor length/ manufacturing defects by transferring the conductor from one drum to the another empty drum and at the same time measuring the length and lay ratio of each conductor length so transferred by means of the standard calibrated and sealed meter.

(d) If the firm is not having the necessary facilities for carrying out the required tests as per relevant IS / EN / Purchase Order, the supplier will arrange such testing facilities in some other Government laboratory and shall bear the cost so incurred. But in such cases firm shall inform to the purchaser in advance before commencement of supplies.

(e) The supplier shall provide adequate facilities for weighment of all the drums offered for inspection.

7.2 In case of testing after re-offering as per Clause No.15 of IS:398 (Part.2)/1996 the lot under reference will be subject to 100% checking, if required by the purchaser.

7.3 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. Lab or Independent test laboratory / house having valid accreditation from National Accreditation Board for Testing and Calibrating Laboratories for the testing equipments or original manufacturer having traceability to NABL / NPL or equivalent accredited lab.

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

7.4 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" of IS:398 (Part 2) /1996 for ACSR Conductors and the certificates as per Clause No.6.

7.5 END SEALING:

Heat Shrinkable end Caps with sealant shall be used for effectively sealing the end terminals of the covered conductor. The inner diameter range of the cap shall be such that it shall tightly fit to the covered conductors to prevent moisture ingress.

8.0 STANDARD LENGTH & VARIATION IN LENGTHS:

8.1 The Covered / Insulated ACSR Dog Conductor shall be supplied in the standard length. The standard length of Covered / Insulated ACSR Dog Conductor shall not less than the value specified below with a tolerance of (-) 5%. More than the standard length shall be acceptable.

- a) Covered / Insulated ACSR DOG - Minimum 500 Mtrs.

8.2 Short length(s), if any shall not measure less than 80% of standard length as specified above in any case. The total quantity of such short length(s) shall not exceed 5% of the quantity of the lot offered for inspection.

8.3 The maximum permissible length per drum shall be as under subject to condition that the manufacturer while packing the conductor in drum shall ensure that after winding complete quantity of conductor in drum a uniform space of not less than 100 mm. remains between outer layer of conductor and inner surface of the external protective lagging of the drum. This is essential to ensure that the conductor does not get closer to the lagging and to avoid damaged during transportation/ reeling / unreeling or rolling on the undulated ground / fields:

- a) Covered / Insulated ACSR DOG--- Minimum 0.5 Kms.

9.0 QUANTITY TOLERANCE:

A quantity tolerance of plus minus 2% shall be allowed on the total ordered quantity.

10.0 QUANTITY:

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

11.0 PACKING FORWARDING AND MARKING:

11.1 The packing shall have to be done as per standard practice worthy of road transport. The conductor shall be wound in strong wooden drums so as to withstand all stresses due to transportation, handling and stringing operation so that there is no damage caused to the conductor during the process of these operations. The wooden drums shall be non-returnable and shall **generally conform IS:1778/1981 with latest amendments, however, the main parameters of the drum shall be as under:**

S.NO.	PARTICULARS	DIMENSION FOR ACSR DOG CONDUCTOR
1.	Flange Dia	1250 mm (+/- 5%)
2.	Flange Thickness	2x25 mm (+/- 5%)
3.	Barrel Dia	500 mm (+/- 10 mm)
4.	Traverse	510 mm (+/- 10 mm)
5.	Number of Bolts	4 Nos.
6.	Dia of Bolts	12 mm
7.	Bore Dia	80 mm

However, use of seasoned wood shall not be insisted, provided wood used should be of good quality to withstand transportation hazards. The drums shall be having inside flanges painted with Aluminum Paint and with Ordinary White Enamel paint from outside. The conductor on each drum shall be securely fastened at each end. The outer end of the conductor shall be fastened inside the drum against one of the sides of the flanges while it is under tension and shall be such that no looseness is transmitted to the internal layers. The conductor shall be snugly, tightly and uniformly spooled on the drums. The wrapping of conductor on the drums shall be laid snugly against side of the preceding wrap and the first and last wrap in each layer shall fit snugly against the sides of the flanges. Drums shall be lagged with sufficient strong wooden laggings to support the full drum without crushing. The wooden drums after providing lagging shall be fastened by two steel wires of min. 3 mm. Dia over the lagging on the two sides of adequate size to keep the lagging intact and to prevent the drum from crushing/ damage.

Although the various dimension of the drums such as flanges, stretches, traverse and barrel diameter shall depend on the quantity of conductor as offered and agreed upon, on one drum. **The manufacturer while packing the conductor in drum shall ensure that after winding complete quantity of conductor in drum a uniform space of not less than 100 mm. remains between outer layer of conductor and inner surface of the external protective legging of the drum. This is essential to ensure that the conductor does not get closer to the legging and to avoid damaged during transportation/ reeling / unreeling or rolling on the undulated ground / fields.**

11.2 Water proof material shall be wrapped round the barrel and inner surface of flange before winding the conductor and also wrapped round over the conductor completely wounded and under the laggings.

11.3 **The drums shall be marked clearly in block letters with water proof mark having the marking attached to them so that there is no possibility of goods being lost or wrongly dispatched due to faulty marking. The marking shall constitute the following:-**

- a) Name & full address of the consignee.
- b) Destination station.
- c) Serial number of drum.
- d) Size of Conductor with its code name.
- e) Total length of Conductor in drum, with individual length (s).
- f) Number of length(s) in each drum.
- g) Gross mass of drum including the tare mass of drum.
- h) Tare mass of the empty drum with lagging.
- i) Net mass of conductor.
- j) BIS standard mark.
- k) Name of the supplier.
- l) Purchase order reference/TN number.
- m) Date of expiry of warranty / guarantee period.

Besides above, an arrow shall be put on the drum so as to indicate the direction in which the drum can be unwound. The manufacturer shall also provide his own lead seal with distinguishing mark at the outer end of the conductor on each drum before dispatch of the material.

Beside this covered conductor shall also carry marking at regular interval as below:

Name of Manufacture or Trade Mark, Voltage Grade XLPE Covered ACSR Dog Conductor size in sq. mm., Year of Mfg., Standard EN 50397-P1 & IS 398-P2.

12. 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 **FIRM**.

13.0 MODVAT

The price quoted in the bid offer should be after considering the Modvat benefit.

14.0 OCTROI DUTY

Presently, Octroi duty is not applicable in entire Rajasthan State and JdVVNL is exempted from payment of Octroi Duty. However, if leviable, the same shall be borne by the Nigam at actual and shall be payable by the consignee or the **Sr. A.O.(CPC) JdVVNL, Jodhpur** on production of original cash receipt provided the GTR is prepared in favor of **Jodhpur Vidyut Vitaran Nigam Limited** and not on "SELVES" basis.

15.0 PAYMENTS

The payment shall be governed by the provisions of the General Conditions of Contract and shall be released after receipt of successful test report from Nigam's (CTL) on the samples selected from the material received in stores as per clause No.20.

16.0 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 01 (One) month thereafter. Bids of bidders in which monthly delivery schedule is not quoted shall be considered as Non Responsive.**

17.0 TEST CHECKING OF MATERIAL AT STORES:

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

ii) **The selected sample drum for CTL testing shall be identified by the seals provided by Inspecting Officer / Inspecting Agency during pre-dispatch inspection at firm's works and these sealing details shall be invariably mentioned in the 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 the samples to be selected from material received at Nigam's stores by officers to be nominated by Circle SE's / SE (I&S) for testing at CTL.

17.1 SAMPLING:

Selection of samples from the material received at stores shall be done as soon as material received in stores in the presence of representative of supplier.

One number Drum out of each lot / sub-lot of 20 Nos. Drums or part thereof for the material received in Stores of Nigam. The selected sample drum / drums shall be transported to CTL by concerned ACOS / SS.

In case of selection of sample for type test the length of the sample shall be of 15 Mtrs. The selected and sealed sample for type test shall be identified by providing polycarbonate seals on both ends of conductor and after forming the coil of conductor two stickers seals provided around the coil.

17.2 TESTS:

17.2.1. The following tests shall be carried out as per relevant Clause of latest IS-398 (Part2)/1996 on each selected drum by drawing sample of 5 Mtrs. at CTL from random distance from any length of the selected drum of ACSR Covered Conductor during rewinding:

- a) Rewinding test (Measurement of Length and weight) & Checking of Manufacturing defects.
- b) Measurement of lay ratio during rewinding of Conductor Drum.
- c) Dia. of Aluminum Strands and Steel Wires.
- d) Breaking load test.
- e) Resistance Test.
- f) Galvanization of steel wire (Uniformity) and Mass of Zinc Coating.
- g) Verification of Water Proof marking on Drum as per Specification.

17.2.2 The following tests shall be carried out as per relevant Clause of latest IS / Specification on each selected drum by drawing sample of 5 Mtrs. at CTL from random distance from any length of the selected drum of Conductor during rewinding:

- i) Rewinding test (Measurement of Length and weight) & Checking of Manufacturing defects.
- ii) Measurement of lay ratio during rewinding of Conductor Drum
- iii) Breaking Load test
- iv) Elongation Test
- v) Resistance test
- vi) Measurement of dia-meter of individual Aluminum.
- vii) Verification of Water Proof marking on Drum as per Specification.

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

- (a) The Officer In charge of central Testing Lab (CTL) of Nigam shall send copies of test reports to the Purchasing Officer / Sr. AO (CPC), consignee and the supplier.
- (b) The payment of every lot shall be released after receipt of successful test report from Nigam's Lab (CTL) on the samples selected from the material received in Nigam stores.**

17.3 CRITERIA FOR ACCEPTANCE:

- (a) Rewinding Test (Measurement of Length and weight):

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. In case short length is observed more than one percent of the length contained in lot / sub-lot , then the lot / sub-lot shall liable to be rejected

The net calculated weight of conductor corresponding to minimum prescribed diameter in IS of Aluminum Strand & Steel Strands shall be as under:

- a) COVERED CONDUCTOR ACSR DOG: 630 Kg./Km.**

If weight of conductor corresponding to minimum prescribed diameter as per IS found less up to 2% in respect to measured length the lot shall be acceptable otherwise the entire lot for which sample drum represents shall be rejected and to be replaced by the supplier.

(b) If the sample(s) fail in any test other than length measurement, the entire material in the Lot shall be rejected and shall have to be replaced by the supplier.

c) 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 instruction 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).

18.0 TEST CHARGES:

All test charges incurred towards test checking of the material received in our stores shall be borne by the NIGAM.

19.0 DETAILS OF PAST EXPERIENCE:

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

SCHEDULE - 1**SCHEDULE OF REQUIREMENT**

S.No.	Name of Item	Quantity (Kms.)
1	Insulated / Covered ACSR Dog Conductor suitable for working voltage up to & including 33KV	20 Kms.

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

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. which	Technical specification material/equipment/ Machinery/T&P shall confirm	Name of IS/other standard specification to which material should	Other particulars to if any. confirm
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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 to which material/equipment/ Machinery/T&P shall confirm	Name of IS/other standard specification to which material should confirm	Other particulars if any.
--------	--	--	------------------------------

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

SCHEDULE-III A**PRE-QUALIFICATION REQUIREMENT (PQR) FOR PURCHASE OF INSULATED / COVERED ACSR R DOG CONDUCTOR SUITABLE FOR 33KV AS PER SPECIFICATION NO. JD / SE / MM&C / XENIIAII / TN-1312.**

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 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 utility / Discoms / Govt. Departments / generator (wind / solar power) of any power utility at least 2 X QQ (QQ being the quoted quantity) of similar item / higher rating of tendered material / equipment (the supplies of 33KV / ACSR or AAAC Al / XLPE / 100 Sq. mm (Dog) or higher rating, for the purpose of evaluating the qualifying quantity of the participating firm in last 3 financial years from the date of opening / orders executed upto the 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, Rating of the Transformer 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:-

3.01) 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 Accreditation Corporation (In case of foreign laboratory) of **similar rating and design** of tendered material / equipment. **The bid of the bidder be also considered meeting the type test criteria if the bidder have the requisite Type Test conducted successfully on the samples selected from the 1st lot supplied to Jd.VVNL against previous tenders and its reports are available with the Nigam and furnish certified copy of such Type Test Reports with the Bid or reference of order / tender be mentioned in Bid document for verification purpose. 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.**

- 3.02) For Insulated / Covered ACSR Dog Conductor, the bidders shall furnish the type test report along with bid.

The type test certificate by in house laboratory of bidding firms even if it is a Govt. approved / Govt. Recognized / NABL Accredited 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.

- 3.03) The bidder should furnish documentary evidence in support of laboratory whose type test have been furnished, that the said laboratory is a Government / Govt. approved / Govt. Recognized / NABL Accredited laboratory / ILAC accredited (In case of foreign laboratory).

- 3.04) The type test certificate shall be furnished either in original or copy duly attested by Notary.
- 3.05) 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.

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 / 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 proforma at Schedule-III C or DD/ Pay Order amounting to Rs.5 Lac (for outside Rajasthan Based Bidder) / Rs. 1.25 lacs (for Rajasthan Based Bidder). The initial validity of Bank Guarantee shall be nine months with claim period of three months in addition.

- (i) When a New Rajasthan based firm is participating and technically competent.
- (ii) Where one or more type test(s) is / are older than 5 years.
- (iii) The Rajasthan and Outside Rajasthan based firm furnishes type test reports of higher rating material.

4.0 POOR RECORD OF PERFORMANCE AND DELIVERY :

The bidder who have been black listed or with whom business relations have been severed Jodhpur 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.

5.0 (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 Discom.

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.

6.0 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-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 - Insulated / Covered ACSR Dog Conductor suitable for 33KV****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- 1312, 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.
	Insulated / Covered ACSR Dog Conductor suitable for 33KV	20 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 **Firm basis** in all respect.
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-1312** 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- 1312** 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 PARTICULARS OF INSULATED / COVERED ACSR
DOG CONDUCTOR SUITABLE FOR 33KV AGAINST TN -1312**

S.NO.	PARTICULARS	INSULATED / COVERED ACSR DOG CONDUCTOR
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1. Manufacturer's name

Office address

Work's address

Telephonic address

Telephone

Fax

Telex

Name of Contact Person

2. Code Name

3. Standard according to which the conductor will be manufactured and tested.

4. Whether conductor offered bears BIS standard mark. If yes, furnish copy of registration certificate of Bureau of Indian Standards.

5. Aluminum wires used in the construction of aluminum conductors galvanized reinforced (ACSR) as per tables of IS;398(Part.2)/1996

a) Diameter in mm :

i) Nominal

ii) Minimum

iii) Maximum

b) Cross sectional area of nominal Diameter wire (Sq. mm.)

c) Mass (Kg./Km.)

d) Resistance at 20 Deg. C. Maximum (Ohms./Km.)

e) Breaking load (Min.)

i) Before Stranding (KN)

ii) After Stranding (KN)

S.NO. PARTICULARS INSULATED / COVERED ACSR DOG CONDUCTOR

6. Steel wire used in construction of aluminum conductors, galvanized steel reinforced (ACSR) as per tables of IS:398(Pt.2)/1996
- a) Diameter :
- i) Nominal (mm)
 - ii) Minimum (mm)
 - iii) Maximum (mm)
- b) Cross sectional area of nominal diameter wire (Sq.mm.)
- c) Mass (Kg./Km.)
- d) Breaking load (Min.)
- i) Before Stranding (KN)
 - ii) After Stranding (KN)
7. Aluminum conductor galvanized steel reinforced as per tables of IS:398 (Part.2)/1996 :
- a) Nominal Al. area (Sq.mm.)
 - b) Stranding and wire dia.
 - i) Aluminum (mm)
 - ii) Steel (mm)
 - c) Sectional area of Al. sq.mm.
 - d) Total sectional area sq.mm.
 - e) Approx. overall diameter mm.
 - f) Approx. Mass (Kg./Km.).
 - g) Calculated resistance at 20 Deg. C. (Max.)(Ohms./Km.)
 - h) Approximate calculated breaking load (KN)
8. a) Zinc coating of steel wire IS:4826/1979 with latest amendments.
- i) No. of one minute dip.
 - ii) No. of half minute dip.
- b) Minimum weight of Zinc Coating Gm./Sq. mtr.
9. Thickness and Dimension:
- 9.1. Conductor Screen
- a. Material
 - b. Nominal Thickness (mm)

S.NO.	PARTICULARS	INSULATED / COVERED ACSR DOG CONDUCTOR
--------------	--------------------	---

- 9.2. Insulation-Inner Layer
 - a. Material
 - b. Nominal Thickness (mm)
- 9.3. Insulation-Outer Layer
 - a. Material
 - b. Nominal Thickness (mm)
10. Approx. Overall diameter (mm)
11. Approx. Weight (Kg. / Km)
12. Standard length in Meter
13. No. of the short lengths as per Clause No.10 of specification of Schedule-III
14. Total length in one drum
15. Net Mass of conductor in one drum (Kg.)
16. Tare Mass of the drum with lagging (Kg.)
17. Gross Weight of the drum including weight of the conductor (Kg.)
18. Wooden Drums for ACSR ` Conductor :
 - i) Flange dia.
 - ii) Barrel dia.
 - iii) Traverse
19. Space between outer layer of Conductor and Inner surface of the external protective lagging of the drum after winding complete quantity of conductor in drum.
20. Other particulars if any.

SIGNATURE

RUBBER SEAL & Date

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.
-------	---

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.
-------	-------------------------------------

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-1312

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-1312

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.	Insulated / Covered ACSR Dog Conductor suitable for working voltage up to & including 33KV as per Specification against TN-1312	After 30 Days from the date of receipt of P.O.	At equal monthly installment	In ONE 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.